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# Oregon Crop Water Use and Irrigation Requirements



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Agricultural Experiment Station, and OSU Extension Service, Oregon State University;  
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# OREGON CROP WATER USE AND IRRIGATION REQUIREMENTS

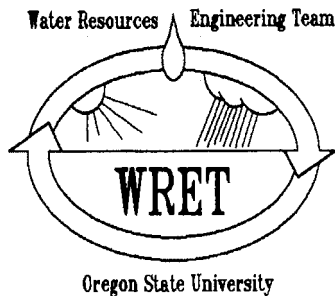
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## ACKNOWLEDGEMENTS

The Office of International Cooperation and Development of the United States Department of Agriculture and the Oregon State University (OSU) Agricultural Experiment Station provided major support for this work through a cooperative project. This project brought together principal investigators from Oregon State University and the Diputación General de Aragón in northeast Spain to study crop water requirement estimating methods. As a result, we decided to revise the irrigation recommendations for Oregon and Aragón province in Spain. This report is the result of that study.

Valuable assistance was provided by Kelly Redmond, former Oregon State Climatologist and Clint Jensen of the U.S. Weather Service in Portland, Oregon. The Oregon State Water Resources Department made a significant contribution to publication costs.

Numerous individuals assisted this project through review of draft report material at various stages of development. The project team is especially grateful for the cooperation of Hugh Hansen, former Extension specialist and WRAES Editor, Marvin Shearer, former Extension irrigation specialist, Walter Trimmer, current Extension irrigation specialist, all of Oregon State University, and Michael Mattik and Randy Sellig, Oregon State Water Resources Department. Invaluable secretarial assistance was provided by Joanne Wenstrom, department of Bioresource Engineering at OSU.

# 1 INTRODUCTION

## 1.1 CONSUMPTIVE USE

The *hydrologic cycle* describes the movement of water on, above, and below the surface of the Earth. The two major components of the hydrologic cycle on a continental scale are precipitation and *evapotranspiration*, the combined process of evaporation and transpiration. *Evaporation* can occur from wet leaf or soil surfaces, as after a rainfall, as well as from water surfaces. *Transpiration* is the term used to describe water movement in plants starting from the root zone, through the root system, up the plant stem, to the leaves, and finally into the atmosphere through small pores in the leaves. The combination of evaporation and transpiration is termed evapotranspiration (ET). *Reference Evapotranspiration* has become a commonly used term to describe the rate of ET from a green grass cover of uniform height in well-watered condition which is disease and weed free. In this case, the grass cover is termed the reference crop. Rates of reference evapotranspiration are related to a number of meteorological variables such as air temperature, solar radiation, relative humidity, and wind speed.

Reference evapotranspiration ( $ET_{ref}$ ) at a location or region is used to determine the water requirements of various crops. The water requirement is calculated by multiplying  $ET_{ref}$  by a crop factor ( $K_c$ ) to relate the reference value to the evapotranspiration of a particular crop. The result is termed  $ET_{crop}$  and is also called the *consumptive use* or *crop water requirement*.  $ET_{crop}$  describes the water requirement of the crop itself and must be adjusted for on-farm irrigation efficiency to determine the amount of water that needs to be delivered to the field.

Estimates of evapotranspiration are critical for irrigation system design, determination of the net irrigation requirements for a crop, and irrigation management. They are also vital to engineers, planners, and others involved in water resources management and policy decisions.

## 1.2 NET IRRIGATION REQUIREMENTS

The net irrigation requirement of a crop is the difference between the crop water requirement and the effective precipitation. *Effective precipitation* is any amount of precipitation that plants can use to meet the evapotranspiration of the crop during the period of interest. The amount of precipitation that goes to runoff or deep percolation below the root zone is not considered effective in reducing the irrigation requirement. If effective precipitation exceeds consumptive use over the period of interest, the net irrigation requirement is zero.

The term *net* refers to the irrigation requirements of the plant. It does not include inefficiencies of the application system such as deep percolation due to over-irrigation or nonuniform application of water to the field. Water not reaching the field due to fine spray and drift from sprinkler systems or surface runoff is also not included in the net irrigation requirement. These inefficiencies, as demonstrated later, must be considered when determining the total irrigation water requirement for a field or farm. Purposeful over-irrigation which may be necessary to avoid accumulation of salts or to leach salts out of the root zone has also not been considered. (See, for example, Cuenca (1989) for calculation of leaching fraction depending on soil and water salinity.)

## 2 PROJECT

### 2.1 BACKGROUND

The previous report on crop water requirements for Oregon was compiled by Watts, Dehlinger, Wolfe, and Shearer (1968) and entitled *Consumptive Use and Net Irrigation Requirements for Oregon* (Oregon State University, Agricultural Experiment Station Circular of Information 628). The method used to calculate evapotranspiration for that publication was the Soil Conservation Service (SCS) Blaney-Criddle method, a temperature-based method (USDA-SCS, 1964). Estimates contained in that publication have been effectively used by engineers, farmers, planners, and others for allocation of water resources in the state of Oregon for the last 25 years.

Improved estimating methods for evapotranspiration which include meteorological data in addition to temperature have been developed since Circular of Information 628 was published. In 1984, Dan Basketfield, an OSU graduate student working with Richard Cuenca, completed analysis of consumptive use and net irrigation requirement estimates for selected locations in Oregon using a revised estimating method. Basketfield found considerable difference between the previous and revised estimates (Basketfield, 1986). This prompted us to update Circular of Information 628.

A Water Resources Engineering Team (WRET) was formed by Cuenca in the Department of Bioresource Engineering to focus on water resources issues. One of the top priorities identified by the team was revision of the consumptive use and net irrigation requirements for Oregon. The goal was set to compute consumptive use and net irrigation requirements for all economically important crops in Oregon using an improved estimating method together with the computerized climatic data base available from the Oregon Office of the State Climatologist. Initial funding for this project was provided in a cooperative project with Spain by the U.S. Department of Agriculture (USDA) Office of International Cooperation and Development and the OSU Agricultural Experiment Station.

### 2.2 ESTIMATING METHOD

The modified Blaney-Criddle method (Doorenbos and Pruitt, 1977; Cuenca, 1989) developed at the United Nations Food and Agriculture Organization (FAO) was used to compute values of consumptive use given in the Results section. Adjustments developed at the USDA Snake River Water Conservation Research Laboratory for application in arid western states were also applied (Allen and Brockway, 1982). The FAO modified Blaney-Criddle method was selected for a number of reasons. First, this method relies predominantly on temperature data, the most common meteorological data available in Oregon. Secondly, this method represents an improvement to the SCS modified Blaney-Criddle formula used in Circular of Information 628. Cuenca (1989) compared the SCS modified Blaney-Criddle method with evapotranspiration measured by accurate weighing lysimeters. Results showed an underestimation of measured evapotranspiration, particularly for arid and high elevation sites similar to many important agricultural areas in Oregon. In a comparison of 20 evapotranspiration estimating methods with accurate lysimeter-measured evapotranspiration from 11 sites around the world (Jensen *et al.*, 1990), the FAO modified Blaney-Criddle method had a lower error than any other estimating method applicable on a state-wide basis, considering the data available in Oregon.

The FAO modified Blaney-Criddle procedure consists of first determining the reference evapotranspiration using the following equation,

$$ET_{ref} = a + b \{p (0.46T + 8.13)\} \quad (1)$$

where  $ET_{ref}$  = reference ET for grass, mm/d  
 $p$  = percent of annual sunshine during month on a daily basis, %/d  
 $T$  = mean air temperature, °C  
 $a, b$  = climatic calibration coefficients

The  $a$  and  $b$  coefficients reflect effects of local meteorological conditions other than air temperature on the evapotranspiration estimate. They are functions of the secondary meteorological parameters of minimum relative humidity ( $RH_{min}$ ), ratio of actual to maximum possible sunshine hours ( $n/N$ ), and daytime wind speed. The complete procedure to determine the  $a$  and  $b$  coefficients, both graphically and by equation, is indicated in Doorenbos and Pruitt (1977) and Cuenca (1989).

To calculate the consumptive use or crop water requirement,  $ET_{ref}$  is multiplied by a crop coefficient,  $K_c$ . The form of the equation is,

$$ET_{crop} = K_c (ET_{ref}) \quad (2)$$

where  $ET_{crop}$  = crop evapotranspiration, mm/d

We determined a set of crop coefficients for important crops in Oregon using the report of Doorenbos and Pruitt (1977) and from crop planting and development information collected from OSU Agricultural Extension agents throughout Oregon. The complete procedure for development of the FAO crop coefficient curve is given in Doorenbos and Pruitt (1977) and Cuenca (1989).

The last step was to calculate the net irrigation requirement by subtracting effective precipitation from  $ET_{crop}$ . We calculated effective precipitation using the Soil Conservation Service method as fully described in Cuenca (1989).

## 2.3 CLIMATIC DATA

We selected two hundred and forty-four Oregon weather stations with long-term temperature records for this project. The stations were distributed more or less evenly throughout the state. The longest period of record for these stations was 88 years, the shortest record was 13 years, and the average was 46 years. The lowest elevation station was at 3 m (10 ft), the highest at 1490 m (4888 ft), and the average weather station was at 671 m (2201 ft).

The secondary meteorological data of minimum relative humidity ( $RH_{min}$ ), ratio of actual to maximum possible sunshine hours ( $n/N$ ) and wind speed are required in Equation (1) for  $ET$ . These data were available for 21, 32, and 25 weather stations, respectively. The state of Oregon was divided into three regions for the secondary meteorological data: (a) Coastal, (b) Willamette and southwestern valleys, and (c) east of the Cascades. We used secondary weather stations corresponding to each region to interpolate these parameters to the 244 weather stations with temperature data.

We used precipitation data from the 244 primary stations to compute effective precipitation. All meteorological data were computerized with the assistance of the Oregon Office of the State Climatologist.



## 2.4 CROP INFORMATION

The U. S. Weather Service has subdivided the state of Oregon into nine major climatic regions. The seven regions that are most important agriculturally were subdivided into 27 smaller regions. For consistency, the 27 agricultural regions identified in this report are identical to those used in the Circular of Information 628 (Watts *et al.*, 1968). The boundaries of the regions are shown in Figure 1.

We determined the economically significant crops for the 27 regions through 1988 harvest statistics for Oregon obtained from the OSU Agricultural Resources and Economics Department. The growing season must be expressed in terms of four stages for application of the FAO crop coefficients; (a) initial, (b) crop development, (c) mid-season, and (d) late season (Doorenbos and Pruitt, 1977; Cuenca, 1989). We sent a questionnaire to each Oregon county extension office requesting information concerning crop stage dates. We also utilized information from previous work (Basketfield, 1984; Doorenbos and Pruitt, 1977) to determine the stages for the various crops. The Crop and Soil Science Department at OSU provided assistance to determine the planting and harvest dates. Table 1 shows the growing season of the selected crops for the 27 regions. Actual dates may vary from year-to-year, thus the listed dates in Table 1 should be considered only as a general guideline.

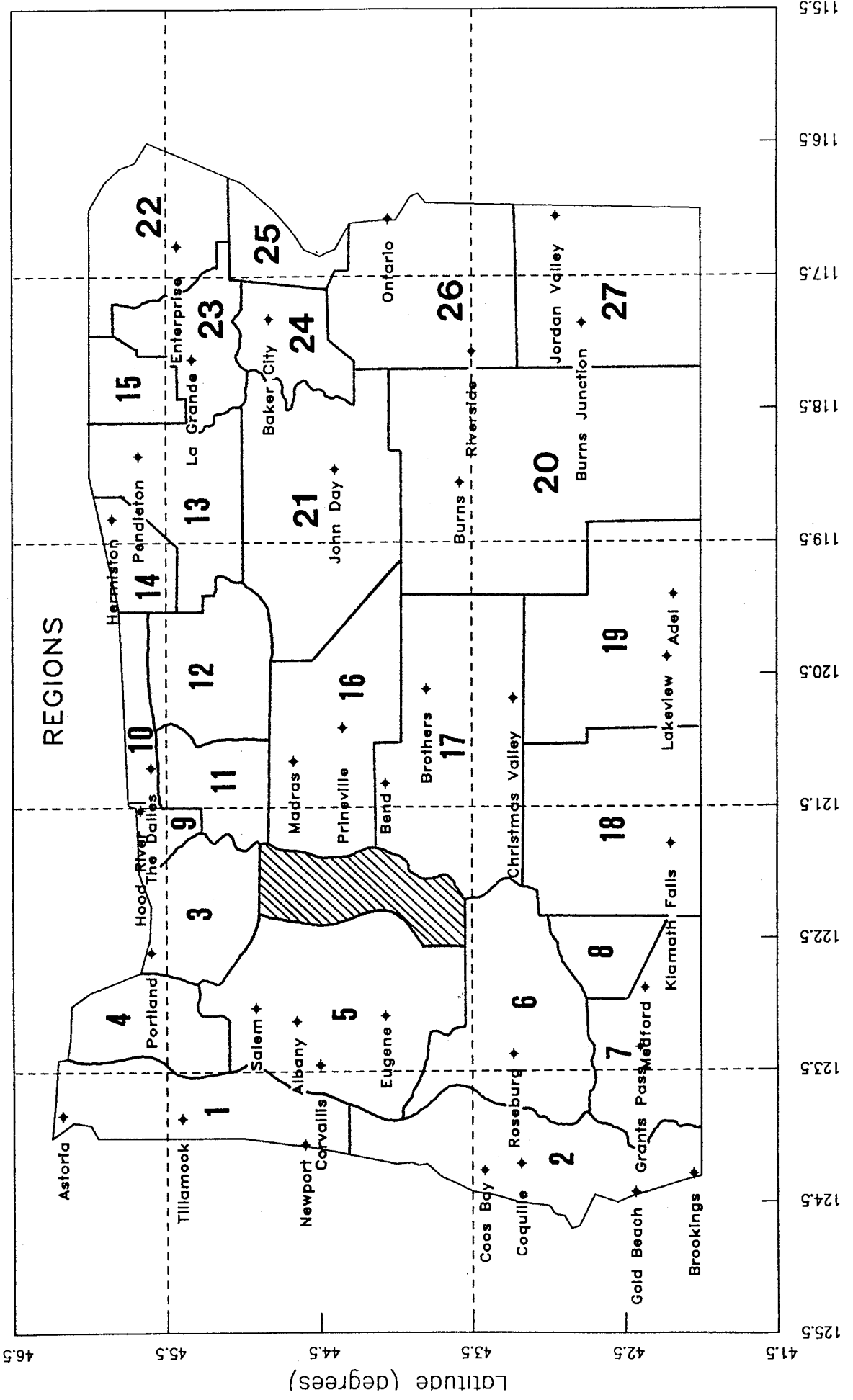


Table 1. Typical growing season of selected Oregon crops by region.

Region	Alfalfa Hay	Beans	Berries	Corn Field	Corn Stlage	Corn Sweet	Fruit Trees
<b>Coastal</b>							
1 North					May 05 - Sep 15		*
2 South					May 20 - Oct 01		*
<b>Willamette Valley</b>							
3 Columbia River below Hood R.	Apr 10 - Nov 08	May 01 - Jul 25	Apr 30 - Nov 23	May 05 - Sep 20	May 05 - Sep 08	May 12 - Sep 10	*
4 Tualatin	Apr 10 - Nov 08	May 01 - Jul 25	Apr 30 - Nov 23	May 05 - Sep 20	May 05 - Sep 08	May 12 - Sep 10	*
5 Willamette	Apr 10 - Nov 08	May 01 - Jul 25	Apr 30 - Nov 23	May 05 - Sep 20	May 05 - Sep 08	May 12 - Sep 10	*
<b>Southwestern Valleys</b>							
6 Umpqua River	Mar 15 - Oct 01	May 01 - Jul 25			May 05 - Sep 08	May 01 - Sep 15	*
7 Medford - Grants Pass	Mar 29 - Oct 01				May 05 - Sep 08		*
8 Lake Creek - Little Butte Creek	Mar 29 - Oct 01				May 05 - Sep 08	May 01 - Sep 15	*
<b>North Central</b>							
9 Hood River Valley	Apr 10 - Oct 01		May 21 - Oct 24	May 05 - Oct 01		May 15 - Sep 05	*
10 Columbia River above Hood R.	Apr 10 - Oct 01		May 14 - Nov 07				*
11 East Slope of Mt. Hood	Apr 10 - Oct 01		May 21 - Oct 24				*
12 Columbia Basin Wheat Land	Apr 10 - Oct 01		May 14 - Nov 07				*
13 Pendleton - Heppner	Apr 10 - Oct 01		May 14 - Nov 07	May 05 - Oct 01		May 15 - Aug 20	*
14 Hermiston	Apr 10 - Oct 01		May 14 - Nov 07	May 05 - Oct 01		May 15 - Aug 20	*
15 Milton - Freewater	Mar 10 - Oct 01		May 14 - Nov 07			May 15 - Aug 20	*
<b>South Central</b>							
16 Madras - Redmond	Apr 10 - Oct 01				May 05 - Oct 01		
17 Bend	Apr 10 - Oct 01					May 15 - Sep 05	
18 Klamath	May 15 - Aug 30						
19 Lakeview	May 15 - Aug 30						
20 Harney Valley	May 15 - Aug 30						
21 Dayville - Canyon City	Apr 10 - Oct 01						
<b>Northeast</b>							
22 Willowa Valley	Apr 10 - Oct 01						
23 Grande Ronde Valley	Apr 10 - Oct 01						
24 Baker Valley	Apr 10 - Oct 01			May 05 - Oct 01		May 15 - Sep 05	
25 Pine and Eagle Valleys	Apr 10 - Oct 01			May 05 - Oct 01		May 15 - Sep 05	
<b>Southeast</b>							
26 Malheur	Apr 03 - Jul 23			May 03 - Oct 15	May 03 - Oct 01	May 03 - Aug 14	
27 Jordan Valley	Apr 03 - Jul 23			May 03 - Oct 15	May 03 - Oct 01		

Table 1. Typical growing season of selected Oregon crops by region. (continued)

Region	Grain Spring	Grain Winter	Grass Seed Spring	Grass Seed Fall	Mint	Onions	Pasture
<b>Coastal</b>							
1 North							Mar 20 - Oct 30
2 South							Mar 20 - Oct 30
<b>Willamette Valley</b>							
3 Columbia River below Hood R.	Mar 15 - Aug 10	Mar 05 - Aug 05	Apr 01 - Mar 31	Oct 01 - Sep 30		Apr 15 - Sep 01	Mar 10 - Nov 15
4 Tualatin	Mar 15 - Aug 10	Mar 05 - Aug 05	Apr 01 - Mar 31	Oct 01 - Sep 30		Apr 15 - Sep 01	Mar 10 - Nov 15
5 Willamette	Mar 15 - Aug 10	Mar 05 - Aug 05	Apr 01 - Mar 31	Oct 01 - Sep 30	Mar 15 - Jul 28	Apr 15 - Sep 01	Mar 10 - Nov 15
<b>Southwestern Valleys</b>							
6 Umpqua River	Mar 15 - Aug 08	Mar 05 - Aug 01	Apr 01 - Mar 31				Mar 01 - Nov 15
7 Medford - Grants Pass	Mar 15 - Aug 08	Mar 05 - Aug 01	Apr 01 - Mar 31			Mar 15 - Sep 01	Mar 01 - Nov 15
8 Lake Creek - Little Butte Creek	Mar 15 - Aug 08	Mar 05 - Aug 01	Apr 01 - Mar 31			Mar 15 - Sep 01	Mar 01 - Nov 15
<b>North Central</b>							
9 Hood River Valley	Apr 01 - Aug 16	Mar 05 - Jul 20				Apr 20 - Sep 15	Mar 20 - Oct 30
10 Columbia River above Hood R.	Apr 01 - Aug 16	Mar 05 - Jul 20	Apr 01 - Mar 31				Mar 20 - Oct 30
11 East Slope of Mt. Hood	Apr 01 - Aug 16	Mar 05 - Jul 20	Apr 01 - Mar 31				Mar 20 - Oct 30
12 Columbia Basin Wheat Land	Apr 01 - Aug 16	Mar 05 - Jul 20	Apr 01 - Mar 31				Mar 20 - Oct 30
13 Pendleton - Heppner	Apr 01 - Aug 16	Mar 05 - Aug 01			Mar 30 - Aug 07	Mar 25 - Sep 22	Mar 20 - Oct 30
14 Hermiston	Mar 15 - Aug 16	Mar 05 - Aug 01				Mar 25 - Sep 22	Mar 20 - Oct 30
15 Milton - Freewater	Mar 15 - Aug 28	Mar 05 - Aug 01				Mar 25 - Sep 22	Mar 20 - Oct 30
<b>South Central</b>							
16 Madras - Redmond	Apr 01 - Aug 16	Mar 15 - Aug 10	Apr 01 - Mar 31	Oct 01 - Sep 30	Mar 30 - Aug 07	Apr 20 - Sep 15	Apr 12 - Oct 24
17 Bend	Apr 01 - Aug 16	Mar 15 - Aug 10			Mar 30 - Aug 07		Apr 12 - Oct 24
18 Klamath	May 10 - Sep 15	Apr 05 - Aug 10					Apr 01 - Oct 15
19 Lakeview	May 10 - Sep 15	Apr 05 - Aug 10					Apr 01 - Oct 15
20 Harney Valley	May 10 - Sep 15	Apr 05 - Aug 10			Mar 30 - Aug 07		Apr 01 - Oct 15
21 Dayville - Canyon City	Apr 01 - Aug 16	Mar 15 - Aug 01			Mar 30 - Aug 07		Apr 12 - Oct 24
<b>Northeast</b>							
22 Willowa Valley	Apr 01 - Aug 16	Mar 15 - Aug 01	Apr 01 - Mar 31				Mar 20 - Oct 30
23 Grande Ronde Valley	Apr 01 - Aug 16	Mar 15 - Aug 01	Apr 01 - Mar 31	Oct 01 - Sep 30	Mar 30 - Aug 07		Mar 20 - Oct 30
24 Baker Valley	Apr 01 - Aug 16	Mar 15 - Aug 01	Apr 01 - Mar 31			Apr 20 - Sep 15	Mar 20 - Oct 30
25 Pine and Eagle Valleys	Apr 01 - Aug 16	Mar 15 - Aug 01	Apr 01 - Mar 31			Apr 20 - Sep 15	Mar 20 - Oct 30
<b>Southeast</b>							
26 Malheur	Mar 28 - Aug 08	Feb 09 - Aug 01	Apr 01 - Mar 31			Apr 04 - Aug 28	Mar 27 - Oct 31
27 Jordan Valley	Mar 28 - Aug 08	Feb 09 - Aug 01	Apr 01 - Mar 31			Apr 04 - Aug 28	Mar 27 - Oct 31

Table 1. Typical growing season of selected Oregon crops by region. (continued)

Region	Peas	Potatoes	Tomatoes
<b>Coastal</b>			
1 North			
2 South			
<b>Willamette Valley</b>			
3 Columbia River below Hood R.	Mar 01 - Jun 12	Apr 25 - Oct 10	May 01 - Aug 21
4 Tualatin	Mar 01 - Jun 12	Apr 25 - Oct 10	May 01 - Aug 21
5 Willamette	Mar 01 - Jun 12	Apr 25 - Oct 10	May 01 - Aug 21
<b>Southwestern Valleys</b>			
6 Umpqua River	Mar 15 - Jul 01		May 01 - Aug 21
7 Medford - Grants Pass		May 15 - Oct 15	
8 Lake Creek - Little Butte Creek	Mar 15 - Jul 01		
<b>North Central</b>			
9 Hood River Valley	Apr 10 - Jul 25		
10 Columbia River above Hood R.		Apr 01 - Oct 10	
11 East Slope of Mt. Hood			
12 Columbia Basin Wheat Land			
13 Pendleton - Heppner	Mar 15 - Jul 20		
14 Hermiston	Mar 15 - Jul 20	Mar 10 - Aug 01	
		Apr 10 - Oct 01	
		Apr 25 - Oct 15	
15 Milton - Freewater	Mar 15 - Jul 20	Apr 10 - Oct 01	May 01 - Aug 21
<b>South Central</b>			
16 Madras - Redmond	Apr 10 - Jul 25	May 15 - Oct 15	
17 Bend	Apr 10 - Jul 25	May 15 - Oct 15	
18 Klamath		May 15 - Oct 15	
19 Lakeview			
20 Harney Valley			
21 Dayville - Canyon City			
<b>Northeast</b>			
22 Wallowa Valley	Apr 10 - Jul 25	May 10 - Oct 10	
23 Grande Ronde Valley	Apr 10 - Jul 25	May 10 - Oct 10	
24 Baker Valley	Apr 10 - Jul 25	May 10 - Oct 10	
25 Pine and Eagle Valleys	Apr 10 - Jul 25	May 10 - Oct 10	
<b>Southeast</b>			
26 Malheur		Apr 14 - Sep 20	
27 Jordan Valley		Apr 14 - Sep 20	

## 3 RESULTS

### 3.1 $ET_{crop}$ and NET IRRIGATION TABLES

The primary and secondary meteorological data were used to compute reference evapotranspiration [ $ET_{ref}$  from Equation (1)] on a monthly basis. The FAO modified Blaney-Criddle method, although originally developed and recommended for application on a monthly basis, has shown surprisingly good comparison with more sophisticated and data-intensive methods even on a daily basis (Allen and Brockway, 1983). On a monthly basis, the error of the estimate is less than that for shorter time periods, thereby producing more reasonable estimates for irrigation planning and management purposes.

The  $ET_{ref}$  values for all weather stations within a region were averaged to compute the regional value. Equation 2 was used to compute estimates of the crop water requirement,  $ET_{crop}$ , on a monthly basis using the values of  $K_c$  developed for Oregon crops. The results are indicated by region and by crop in the tables that make up the remainder of this section. These tables are presented on a probability basis to be more useful for irrigation system design and management. For each crop, monthly  $ET_{crop}$  values are listed on the basis of 5 out of 10 years (the mean or average), 6 out of 10 years, 7 out of 10 years, 8 out of 10 years, 9 out of 10 years, and 19 out of 20 years, corresponding to the water requirement with a 50, 60, 70, 80, 90 and 95 percent probability. The amount of water required increases with the probability level. For example, at 70 percent probability or 7 out of 10 years, the  $ET_{crop}$  value listed would be equal to or more than the expected requirement for all but 3 years out of 10. Only 3 years out of 10 would we expect a higher water requirement. The seasonal total is also given for each probability level. These probability values were determined using the actual frequency distribution given by all years of data for each month at each probability level without assuming an underlying statistical distribution. Previous studies have shown  $ET_{ref}$  to be normally distributed (Cuenca, 1989). The tabulated values are very close to a normal distribution, where one can assume that the 5 out of 10 years is the mean or average value.

Knowledge of the probability level allows farmers, designers, planners, and others to evaluate trade-offs between system cost and level of risk. For example, designing or managing an irrigation system at the 70 percent probability, or 7 out of 10 year level, suggests that for 3 out of 10 years the system will not have enough capacity, causing a potential reduction in crop yield. However, the added cost to design the system at a higher level of probability than 70 percent could prove to be more than the possible losses due to expected yield reduction in 3 years out of 10. The most appropriate probability level depends on the value of the crop, its susceptibility to yield reduction due to water stress, and the acceptable level of risk on the part of the grower. Guidelines are shown in the Examples section.

We computed the net irrigation requirement by subtracting the corresponding level of effective precipitation (described in the Introduction section) from the crop water requirement for each month. We used the actual frequency distribution of effective precipitation from analysis of all years of available data for each probability level at each site. In this manner, no underlying statistical distribution was assumed for effective precipitation. Net seasonal and monthly irrigation requirements include the combined probability of  $ET_{ref}$  based on meteorological data and effective precipitation based on precipitation data.

To locate your region and crop of interest, find the region number closest to the site of interest from Figure 1. Table 1, with crop season dates, also lists major towns and region names. Table 2 lists the region numbers, major town or region name, and the corresponding pages for these regions in the results tables. Once the correct pages for the region of interest are located in the results tables, the most economically important crops in that region are listed alphabetically. Example applications for irrigation design and management purposes are given in the Examples section.

Table 2. Index to ETcrop and Net Irrigation Requirement tables by region for Oregon.

NUMBER	REGION	PAGES
1	North Coastal	13 - 15
2	South Coastal	16 - 18
3	Columbia River below Hood River	19 - 29
4	Tualatin Valley	29 - 39
5	Willamette Valley	40 - 50
6	Umpqua River	51 - 58
7	Medford-Grants Pass	59 - 64
8	Lake Creek-Little Butte Creek	65 - 71
9	Hood River Valley	71 - 78
10	Columbia River above Hood River	79 - 85
11	East Slope of Mt. Hood	86 - 90
12	Columbia Basin Wheat Land	91 - 95
13	Pendleton-Heppner	96 - 102
14	Hermiston	102 - 110
15	Milton-Freewater	111 - 117
16	Madras-Redmond	118 - 123
17	Bend	123 - 127
18	Klamath	128 - 130
19	Lakeview	130 - 132
20	Harney Valley	132 - 134
21	Dayville-Canyon City	135 - 137
22	Wallowa Valley	137 - 140
23	Grande Ronde Valley	141 - 144
24	Baker Valley	145 - 149
25	Pine and Eagle Valleys	150 - 154
26	Malheur	155 - 159
27	Jordan Valley	160 - 163



REGION: 1 North Coast  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
March	35 (1.38)	0 (0.00)	0 (0.00)	37 (1.46)	0 (0.00)	0 (0.00)	38 (1.50)	0 (0.00)	0 (0.00)	39 (1.54)	0 (0.00)	0 (0.00)	42 (1.65)	0 (0.00)	0 (0.00)	43 (1.69)	0 (0.00)	0 (0.00)
April	61 (2.40)	1 (0.04)	2 (0.08)	62 (2.44)	2 (0.08)	2 (0.08)	62 (2.44)	2 (0.08)	2 (0.08)	63 (2.48)	2 (0.08)	2 (0.08)	64 (2.52)	6 (0.24)	6 (0.24)	66 (2.60)	20 (0.79)	20 (0.79)
May	92 (3.62)	13 (0.51)	23 (0.91)	95 (3.74)	23 (0.91)	33 (1.30)	96 (3.78)	33 (1.30)	33 (1.30)	97 (3.82)	44 (1.73)	44 (1.73)	101 (3.98)	63 (2.48)	63 (2.48)	102 (4.02)	68 (2.68)	68 (2.68)
June	101 (3.98)	38 (1.50)	51 (2.01)	104 (4.09)	51 (2.01)	60 (2.36)	107 (4.21)	73 (2.87)	73 (2.87)	107 (4.21)	73 (2.87)	109 (4.29)	81 (3.19)	81 (3.19)	81 (3.19)	110 (4.33)	87 (3.43)	87 (3.43)
July	112 (4.41)	89 (3.50)	93 (3.66)	114 (4.49)	93 (3.66)	115 (4.53)	116 (4.57)	102 (4.02)	102 (4.02)	117 (4.61)	109 (4.29)	109 (4.29)	120 (4.72)	115 (4.53)	115 (4.53)	120 (4.72)	115 (4.53)	115 (4.53)
Aug	96 (3.78)	70 (2.76)	75 (2.95)	96 (3.78)	75 (2.95)	80 (3.15)	96 (3.78)	80 (3.15)	80 (3.15)	100 (3.94)	85 (3.35)	85 (3.35)	100 (3.94)	92 (3.62)	92 (3.62)	102 (4.02)	97 (3.82)	97 (3.82)
Sep	77 (3.03)	12 (0.47)	21 (0.83)	78 (3.07)	21 (0.83)	29 (1.14)	80 (3.15)	29 (1.14)	29 (1.14)	80 (3.15)	47 (1.85)	47 (1.85)	83 (3.27)	64 (2.52)	64 (2.52)	84 (3.31)	69 (2.72)	69 (2.72)
Oct	42 (1.65)	2 (0.08)	2 (0.08)	45 (1.77)	2 (0.08)	3 (0.12)	45 (1.77)	3 (0.12)	3 (0.12)	45 (1.77)	3 (0.12)	3 (0.12)	47 (1.85)	3 (0.12)	3 (0.12)	48 (1.89)	15 (0.59)	15 (0.59)
Nov	17 (0.67)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	0 (0.00)	19 (0.75)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)
Season 633	(24.92)	225 (8.86)	267 (10.52)	648 (25.51)	267 (10.52)	304 (11.97)	655 (25.79)	304 (11.97)	304 (11.97)	667 (26.27)	356 (14.02)	356 (14.02)	683 (26.90)	418 (16.46)	418 (16.46)	695 (27.37)	471 (18.56)	471 (18.56)

REGION: 1 North Coast  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
March	35 (1.38)	0 (0.00)	0 (0.00)	37 (1.46)	0 (0.00)	0 (0.00)	38 (1.50)	0 (0.00)	0 (0.00)	39 (1.54)	0 (0.00)	0 (0.00)	42 (1.65)	0 (0.00)	0 (0.00)	43 (1.69)	0 (0.00)	0 (0.00)
April	61 (2.40)	1 (0.04)	2 (0.08)	62 (2.44)	2 (0.08)	2 (0.08)	62 (2.44)	2 (0.08)	2 (0.08)	63 (2.48)	2 (0.08)	2 (0.08)	64 (2.52)	6 (0.24)	6 (0.24)	66 (2.60)	20 (0.79)	20 (0.79)
May	92 (3.62)	13 (0.51)	23 (0.91)	95 (3.74)	23 (0.91)	33 (1.30)	96 (3.78)	33 (1.30)	33 (1.30)	97 (3.82)	44 (1.73)	44 (1.73)	101 (3.98)	63 (2.48)	63 (2.48)	102 (4.02)	68 (2.68)	68 (2.68)
June	101 (3.98)	38 (1.50)	51 (2.01)	104 (4.09)	51 (2.01)	60 (2.36)	107 (4.21)	73 (2.87)	73 (2.87)	107 (4.21)	73 (2.87)	109 (4.29)	81 (3.19)	81 (3.19)	81 (3.19)	110 (4.33)	87 (3.43)	87 (3.43)
July	112 (4.41)	89 (3.50)	93 (3.66)	114 (4.49)	93 (3.66)	115 (4.53)	116 (4.57)	102 (4.02)	102 (4.02)	117 (4.61)	109 (4.29)	109 (4.29)	120 (4.72)	115 (4.53)	115 (4.53)	120 (4.72)	115 (4.53)	115 (4.53)
Aug	96 (3.78)	70 (2.76)	75 (2.95)	96 (3.78)	75 (2.95)	80 (3.15)	96 (3.78)	80 (3.15)	80 (3.15)	100 (3.94)	85 (3.35)	85 (3.35)	100 (3.94)	92 (3.62)	92 (3.62)	102 (4.02)	97 (3.82)	97 (3.82)
Sep	77 (3.03)	12 (0.47)	21 (0.83)	78 (3.07)	21 (0.83)	29 (1.14)	80 (3.15)	29 (1.14)	29 (1.14)	80 (3.15)	47 (1.85)	47 (1.85)	83 (3.27)	64 (2.52)	64 (2.52)	84 (3.31)	69 (2.72)	69 (2.72)
Oct	42 (1.65)	2 (0.08)	2 (0.08)	45 (1.77)	2 (0.08)	3 (0.12)	45 (1.77)	3 (0.12)	3 (0.12)	45 (1.77)	3 (0.12)	3 (0.12)	47 (1.85)	3 (0.12)	3 (0.12)	48 (1.89)	15 (0.59)	15 (0.59)
Nov	17 (0.67)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	0 (0.00)	19 (0.75)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)
Season 633	(24.92)	225 (8.86)	267 (10.52)	648 (25.51)	267 (10.52)	304 (11.97)	655 (25.79)	304 (11.97)	304 (11.97)	667 (26.27)	356 (14.02)	356 (14.02)	683 (26.90)	418 (16.46)	418 (16.46)	695 (27.37)	471 (18.56)	471 (18.56)

REGION: 1 North Coast  
CROP: Corn (Silage)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	mm	ET crop in.	Net IRR mm	in.	ET crop mm	Net IRR mm	in.	ET crop mm	Net IRR mm	in.	ET crop mm	Net IRR mm	in.	ET crop mm	Net IRR mm	in.
May	23 (0.91)	1 (0.04)	24 (0.94)	24 (0.94)	1 (0.04)	1 (0.04)	24 (0.94)	1 (0.04)	1 (0.04)	24 (0.94)	1 (0.04)	1 (0.04)	25 (0.98)	1 (0.04)	1 (0.04)	25 (0.98)	3 (0.12)	3 (0.12)
June	56 (2.20)	4 (0.16)	57 (2.24)	57 (2.24)	8 (0.31)	15 (0.59)	58 (2.28)	30 (1.18)	30 (1.18)	60 (2.36)	36 (1.42)	36 (1.42)	60 (2.36)	60 (2.36)	60 (2.36)	60 (2.36)	42 (1.65)	42 (1.65)
July	103 (4.06)	81 (3.19)	106 (4.17)	106 (4.17)	86 (3.39)	106 (4.17)	106 (4.17)	90 (3.54)	95 (3.74)	108 (4.25)	101 (3.98)	101 (3.98)	111 (4.37)	101 (3.98)	101 (3.98)	111 (4.37)	107 (4.21)	107 (4.21)
Aug	91 (3.58)	65 (2.56)	91 (3.58)	91 (3.58)	70 (2.76)	91 (3.58)	91 (3.58)	76 (2.99)	80 (3.15)	94 (3.70)	85 (3.35)	85 (3.35)	97 (3.82)	85 (3.35)	85 (3.35)	97 (3.82)	87 (3.43)	87 (3.43)
Sep	35 (1.38)	5 (0.20)	35 (1.38)	35 (1.38)	9 (0.35)	37 (1.46)	37 (1.46)	13 (0.51)	22 (0.87)	38 (1.50)	30 (1.18)	30 (1.18)	38 (1.50)	30 (1.18)	30 (1.18)	38 (1.50)	32 (1.26)	32 (1.26)
Season	308 (12.13)	156 (6.15)	313 (12.31)	313 (12.31)	174 (6.85)	315 (12.39)	315 (12.39)	195 (7.67)	228 (8.98)	325 (12.79)	253 (9.97)	253 (9.97)	331 (13.03)	253 (9.97)	253 (9.97)	331 (13.03)	271 (10.67)	271 (10.67)

REGION: 1 North Coast  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	mm	ET crop in.	Net IRR mm	in.	ET crop mm	Net IRR mm	in.	ET crop mm	Net IRR mm	in.	ET crop mm	Net IRR mm	in.	ET crop mm	Net IRR mm	in.
March	16 (0.63)	0 (0.00)	17 (0.67)	17 (0.67)	0 (0.00)	17 (0.67)	17 (0.67)	0 (0.00)	0 (0.00)	18 (0.71)	0 (0.00)	0 (0.00)	19 (0.75)	0 (0.00)	0 (0.00)	19 (0.75)	0 (0.00)	0 (0.00)
April	64 (2.52)	2 (0.08)	65 (2.56)	65 (2.56)	2 (0.08)	65 (2.56)	65 (2.56)	2 (0.08)	2 (0.08)	66 (2.60)	3 (0.12)	3 (0.12)	67 (2.64)	3 (0.12)	3 (0.12)	69 (2.72)	22 (0.87)	22 (0.87)
May	87 (3.43)	8 (0.31)	89 (3.50)	89 (3.50)	20 (0.79)	90 (3.54)	90 (3.54)	27 (1.06)	38 (1.50)	92 (3.62)	61 (2.40)	61 (2.40)	93 (3.66)	55 (2.17)	55 (2.17)	96 (3.78)	62 (2.44)	62 (2.44)
June	87 (3.43)	27 (1.06)	89 (3.50)	89 (3.50)	36 (1.42)	90 (3.54)	90 (3.54)	45 (1.77)	61 (2.40)	92 (3.62)	61 (2.40)	61 (2.40)	101 (3.98)	67 (2.64)	67 (2.64)	103 (4.06)	72 (2.83)	72 (2.83)
July	96 (3.78)	74 (2.91)	98 (3.86)	98 (3.86)	79 (3.11)	99 (3.90)	99 (3.90)	83 (3.27)	87 (3.43)	99 (3.90)	87 (3.43)	87 (3.43)	103 (4.06)	94 (3.70)	94 (3.70)	103 (4.06)	99 (3.90)	99 (3.90)
Aug	84 (3.31)	57 (2.24)	84 (3.31)	84 (3.31)	62 (2.44)	84 (3.31)	84 (3.31)	68 (2.68)	73 (2.87)	86 (3.39)	73 (2.87)	73 (2.87)	88 (3.46)	77 (3.03)	77 (3.03)	88 (3.46)	79 (3.11)	79 (3.11)
Sep	69 (2.72)	7 (0.28)	70 (2.76)	70 (2.76)	13 (0.51)	72 (2.83)	72 (2.83)	21 (0.83)	40 (1.57)	72 (2.83)	40 (1.57)	40 (1.57)	73 (2.87)	53 (2.09)	53 (2.09)	74 (2.91)	60 (2.36)	60 (2.36)
Oct	47 (1.85)	2 (0.08)	48 (1.89)	48 (1.89)	3 (0.12)	49 (1.93)	49 (1.93)	3 (0.12)	3 (0.12)	49 (1.93)	3 (0.12)	3 (0.12)	51 (2.01)	4 (0.16)	4 (0.16)	51 (2.01)	20 (0.79)	20 (0.79)
Season	550 (21.67)	177 (6.96)	560 (22.05)	560 (22.05)	215 (8.47)	566 (22.28)	566 (22.28)	249 (9.81)	305 (12.01)	574 (22.60)	305 (12.01)	305 (12.01)	585 (23.04)	359 (14.14)	359 (14.14)	594 (23.39)	414 (16.30)	414 (16.30)

REGION: 1 North Coast  
CROP: Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.
March	35 (1.38)	0 (0.00)	0 (0.00)	37 (1.46)	0 (0.00)	0 (0.00)	38 (1.50)	0 (0.00)	0 (0.00)	39 (1.54)	0 (0.00)	0 (0.00)	42 (1.65)	0 (0.00)	0 (0.00)	43 (1.69)	0 (0.00)	0 (0.00)
April	58 (2.28)	1 (0.04)	1 (0.04)	58 (2.28)	1 (0.04)	1 (0.04)	59 (2.32)	2 (0.08)	2 (0.08)	60 (2.36)	2 (0.08)	2 (0.08)	61 (2.40)	3 (0.12)	3 (0.12)	62 (2.44)	16 (0.63)	16 (0.63)
May	83 (3.27)	8 (0.31)	8 (0.31)	84 (3.31)	18 (0.71)	18 (0.71)	85 (3.35)	26 (1.02)	26 (1.02)	88 (3.46)	36 (1.42)	36 (1.42)	91 (3.58)	52 (2.05)	52 (2.05)	92 (3.62)	59 (2.32)	59 (2.32)
June	92 (3.62)	28 (1.10)	28 (1.10)	94 (3.70)	38 (1.50)	38 (1.50)	95 (3.74)	50 (1.97)	50 (1.97)	96 (3.78)	65 (2.56)	65 (2.56)	97 (3.82)	72 (2.83)	72 (2.83)	100 (3.94)	78 (3.07)	78 (3.07)
July	101 (3.98)	78 (3.07)	78 (3.07)	104 (4.09)	83 (3.27)	83 (3.27)	104 (4.09)	87 (3.43)	87 (3.43)	105 (4.13)	92 (3.62)	92 (3.62)	106 (4.17)	99 (3.90)	99 (3.90)	109 (4.29)	105 (4.13)	105 (4.13)
Aug	89 (3.50)	62 (2.44)	62 (2.44)	89 (3.50)	68 (2.68)	68 (2.68)	89 (3.50)	72 (2.83)	72 (2.83)	91 (3.58)	77 (3.03)	77 (3.03)	91 (3.58)	82 (3.23)	82 (3.23)	93 (3.66)	85 (3.35)	85 (3.35)
Sep	70 (2.76)	7 (0.28)	7 (0.28)	71 (2.80)	13 (0.51)	13 (0.51)	73 (2.87)	22 (0.87)	22 (0.87)	73 (2.87)	40 (1.57)	40 (1.57)	74 (2.91)	53 (2.09)	53 (2.09)	75 (2.95)	59 (2.32)	59 (2.32)
Oct	41 (1.61)	2 (0.08)	2 (0.08)	42 (1.65)	2 (0.08)	2 (0.08)	42 (1.65)	2 (0.08)	2 (0.08)	43 (1.69)	3 (0.12)	3 (0.12)	44 (1.73)	3 (0.12)	3 (0.12)	45 (1.77)	13 (0.51)	13 (0.51)
Nov	17 (0.67)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	0 (0.00)	19 (0.75)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)
Season 586	(23.07)	186 (7.32)	186 (7.32)	596 (23.46)	223 (8.79)	223 (8.79)	604 (23.77)	261 (10.28)	261 (10.28)	615 (24.20)	315 (12.40)	315 (12.40)	626 (24.63)	364 (14.34)	364 (14.34)	639 (25.15)	415 (16.33)	415 (16.33)

REGION: 1 North Coast  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.
March	35 (1.38)	0 (0.00)	0 (0.00)	37 (1.46)	0 (0.00)	0 (0.00)	38 (1.50)	0 (0.00)	0 (0.00)	39 (1.54)	0 (0.00)	0 (0.00)	42 (1.65)	0 (0.00)	0 (0.00)	43 (1.69)	0 (0.00)	0 (0.00)
April	58 (2.28)	1 (0.04)	1 (0.04)	58 (2.28)	1 (0.04)	1 (0.04)	59 (2.32)	2 (0.08)	2 (0.08)	60 (2.36)	2 (0.08)	2 (0.08)	61 (2.40)	3 (0.12)	3 (0.12)	62 (2.44)	16 (0.63)	16 (0.63)
May	83 (3.27)	8 (0.31)	8 (0.31)	84 (3.31)	18 (0.71)	18 (0.71)	85 (3.35)	26 (1.02)	26 (1.02)	88 (3.46)	36 (1.42)	36 (1.42)	91 (3.58)	52 (2.05)	52 (2.05)	92 (3.62)	59 (2.32)	59 (2.32)
June	92 (3.62)	28 (1.10)	28 (1.10)	94 (3.70)	38 (1.50)	38 (1.50)	95 (3.74)	50 (1.97)	50 (1.97)	96 (3.78)	65 (2.56)	65 (2.56)	97 (3.82)	72 (2.83)	72 (2.83)	100 (3.94)	78 (3.07)	78 (3.07)
July	101 (3.98)	78 (3.07)	78 (3.07)	104 (4.09)	83 (3.27)	83 (3.27)	104 (4.09)	87 (3.43)	87 (3.43)	105 (4.13)	92 (3.62)	92 (3.62)	106 (4.17)	99 (3.90)	99 (3.90)	109 (4.29)	105 (4.13)	105 (4.13)
Aug	89 (3.50)	62 (2.44)	62 (2.44)	89 (3.50)	68 (2.68)	68 (2.68)	89 (3.50)	72 (2.83)	72 (2.83)	91 (3.58)	77 (3.03)	77 (3.03)	91 (3.58)	82 (3.23)	82 (3.23)	93 (3.66)	85 (3.35)	85 (3.35)
Sep	70 (2.76)	7 (0.28)	7 (0.28)	71 (2.80)	13 (0.51)	13 (0.51)	73 (2.87)	22 (0.87)	22 (0.87)	73 (2.87)	40 (1.57)	40 (1.57)	74 (2.91)	53 (2.09)	53 (2.09)	75 (2.95)	59 (2.32)	59 (2.32)
Oct	41 (1.61)	2 (0.08)	2 (0.08)	42 (1.65)	2 (0.08)	2 (0.08)	42 (1.65)	2 (0.08)	2 (0.08)	43 (1.69)	3 (0.12)	3 (0.12)	44 (1.73)	3 (0.12)	3 (0.12)	45 (1.77)	13 (0.51)	13 (0.51)
Nov	17 (0.67)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	0 (0.00)	19 (0.75)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)
Season 586	(23.07)	186 (7.32)	186 (7.32)	596 (23.46)	223 (8.79)	223 (8.79)	604 (23.77)	261 (10.28)	261 (10.28)	615 (24.20)	315 (12.40)	315 (12.40)	626 (24.63)	364 (14.34)	364 (14.34)	639 (25.15)	415 (16.33)	415 (16.33)

REGION: 2 South Coast  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net IRR mm	ET crop in.	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop in.	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop in.	Net IRR in.	Net IRR mm
March	35 (1.38)	0 (0.00)	0 (0.00)	35 (1.38)	0 (0.00)	0 (0.00)	36 (1.42)	0 (0.00)	0 (0.00)	37 (1.46)	0 (0.00)	0 (0.00)	40 (1.57)	0 (0.00)	0 (0.00)	42 (1.65)	0 (0.00)	0 (0.00)
April	58 (2.28)	2 (0.08)	3 (0.12)	59 (2.32)	3 (0.12)	3 (0.12)	59 (2.32)	3 (0.12)	3 (0.12)	60 (2.36)	9 (0.35)	9 (0.35)	62 (2.44)	21 (0.83)	21 (0.83)	63 (2.48)	36 (1.42)	36 (1.42)
May	86 (3.39)	23 (0.91)	30 (1.18)	86 (3.39)	30 (1.18)	42 (1.65)	87 (3.43)	42 (1.65)	42 (1.65)	89 (3.50)	55 (2.17)	55 (2.17)	90 (3.54)	64 (2.52)	64 (2.52)	94 (3.70)	76 (2.99)	76 (2.99)
June	103 (4.06)	69 (2.72)	77 (3.03)	103 (4.06)	77 (3.03)	85 (3.35)	105 (4.13)	85 (3.35)	85 (3.35)	106 (4.17)	91 (3.58)	91 (3.58)	106 (4.17)	98 (3.86)	98 (3.86)	108 (4.25)	102 (4.02)	102 (4.02)
July	111 (4.37)	104 (4.09)	106 (4.17)	112 (4.41)	106 (4.17)	109 (4.29)	112 (4.41)	109 (4.29)	109 (4.29)	113 (4.45)	111 (4.37)	111 (4.37)	117 (4.61)	114 (4.49)	114 (4.49)	118 (4.65)	116 (4.57)	116 (4.57)
Aug	95 (3.74)	85 (3.35)	89 (3.50)	96 (3.78)	89 (3.50)	92 (3.62)	96 (3.78)	92 (3.62)	92 (3.62)	98 (3.86)	94 (3.70)	94 (3.70)	98 (3.86)	97 (3.82)	97 (3.82)	99 (3.90)	98 (3.86)	98 (3.86)
Sep	76 (2.99)	35 (1.38)	41 (1.61)	76 (2.99)	41 (1.61)	51 (2.01)	78 (3.07)	51 (2.01)	51 (2.01)	79 (3.11)	64 (2.52)	64 (2.52)	79 (3.11)	71 (2.80)	71 (2.80)	81 (3.19)	75 (2.95)	75 (2.95)
Oct	47 (1.85)	3 (0.12)	48 (1.89)	48 (1.89)	3 (0.12)	4 (0.16)	49 (1.93)	4 (0.16)	4 (0.16)	50 (1.97)	4 (0.16)	4 (0.16)	50 (1.97)	11 (0.43)	11 (0.43)	52 (2.05)	39 (1.54)	39 (1.54)
Nov	22 (0.87)	0 (0.00)	0 (0.00)	22 (0.87)	0 (0.00)	0 (0.00)	23 (0.91)	0 (0.00)	0 (0.00)	23 (0.91)	1 (0.04)	1 (0.04)	23 (0.91)	1 (0.04)	1 (0.04)	24 (0.94)	1 (0.04)	1 (0.04)
Season 633 (24.93)	321 (12.65)	637 (25.09)	349 (13.73)	645 (25.40)	387 (15.24)	655 (25.79)	429 (16.89)	665 (26.18)	477 (18.79)	681 (26.81)	543 (21.39)							

REGION: 2 South Coast  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net IRR mm	ET crop in.	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop in.	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop in.	Net IRR in.	Net IRR mm
March	35 (1.38)	0 (0.00)	0 (0.00)	35 (1.38)	0 (0.00)	0 (0.00)	36 (1.42)	0 (0.00)	0 (0.00)	37 (1.46)	0 (0.00)	0 (0.00)	40 (1.57)	0 (0.00)	0 (0.00)	42 (1.65)	0 (0.00)	0 (0.00)
April	58 (2.28)	2 (0.08)	3 (0.12)	59 (2.32)	3 (0.12)	3 (0.12)	59 (2.32)	3 (0.12)	3 (0.12)	60 (2.36)	9 (0.35)	9 (0.35)	62 (2.44)	21 (0.83)	21 (0.83)	63 (2.48)	36 (1.42)	36 (1.42)
May	86 (3.39)	23 (0.91)	30 (1.18)	86 (3.39)	30 (1.18)	42 (1.65)	87 (3.43)	42 (1.65)	42 (1.65)	89 (3.50)	55 (2.17)	55 (2.17)	90 (3.54)	64 (2.52)	64 (2.52)	94 (3.70)	76 (2.99)	76 (2.99)
June	103 (4.06)	69 (2.72)	77 (3.03)	103 (4.06)	77 (3.03)	85 (3.35)	105 (4.13)	85 (3.35)	85 (3.35)	106 (4.17)	91 (3.58)	91 (3.58)	106 (4.17)	98 (3.86)	98 (3.86)	108 (4.25)	102 (4.02)	102 (4.02)
July	111 (4.37)	104 (4.09)	106 (4.17)	112 (4.41)	106 (4.17)	109 (4.29)	112 (4.41)	109 (4.29)	109 (4.29)	113 (4.45)	111 (4.37)	111 (4.37)	117 (4.61)	114 (4.49)	114 (4.49)	118 (4.65)	116 (4.57)	116 (4.57)
Aug	95 (3.74)	85 (3.35)	89 (3.50)	96 (3.78)	89 (3.50)	92 (3.62)	96 (3.78)	92 (3.62)	92 (3.62)	98 (3.86)	94 (3.70)	94 (3.70)	98 (3.86)	97 (3.82)	97 (3.82)	99 (3.90)	98 (3.86)	98 (3.86)
Sep	76 (2.99)	35 (1.38)	41 (1.61)	76 (2.99)	41 (1.61)	51 (2.01)	78 (3.07)	51 (2.01)	51 (2.01)	79 (3.11)	64 (2.52)	64 (2.52)	79 (3.11)	71 (2.80)	71 (2.80)	81 (3.19)	75 (2.95)	75 (2.95)
Oct	47 (1.85)	3 (0.12)	48 (1.89)	48 (1.89)	3 (0.12)	4 (0.16)	49 (1.93)	4 (0.16)	4 (0.16)	50 (1.97)	4 (0.16)	4 (0.16)	50 (1.97)	11 (0.43)	11 (0.43)	52 (2.05)	39 (1.54)	39 (1.54)
Nov	22 (0.87)	0 (0.00)	0 (0.00)	22 (0.87)	0 (0.00)	0 (0.00)	23 (0.91)	0 (0.00)	0 (0.00)	23 (0.91)	1 (0.04)	1 (0.04)	23 (0.91)	1 (0.04)	1 (0.04)	24 (0.94)	1 (0.04)	1 (0.04)
Season 633 (24.93)	321 (12.65)	637 (25.09)	349 (13.73)	645 (25.40)	387 (15.24)	655 (25.79)	429 (16.89)	665 (26.18)	477 (18.79)	681 (26.81)	543 (21.39)							

REGION: 2 South Coast  
CROP: Corn (Silage)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years						
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.						
May	17 (0.67)	1 (0.04)	18 (0.71)	2 (0.08)	18 (0.71)	3 (0.12)	18 (0.71)	9 (0.35)	18 (0.71)	12 (0.47)	19 (0.75)	15 (0.59)	59 (2.32)	28 (1.10)	59 (2.32)	37 (1.46)	60 (2.36)	60 (2.36)	60 (2.36)	61 (2.40)	58 (2.28)	
June	94 (3.70)	88 (3.46)	91 (3.58)	91 (3.58)	96 (3.78)	93 (3.56)	96 (3.78)	95 (3.74)	98 (3.86)	97 (3.82)	99 (3.90)	98 (3.86)	91 (3.58)	91 (3.58)	96 (3.78)	93 (3.56)	96 (3.78)	96 (3.78)	98 (3.86)	99 (3.90)	98 (3.86)	
July	91 (3.58)	81 (3.19)	92 (3.62)	85 (3.35)	92 (3.62)	88 (3.46)	94 (3.70)	90 (3.54)	94 (3.70)	93 (3.70)	95 (3.74)	94 (3.70)	92 (3.62)	85 (3.35)	92 (3.62)	88 (3.46)	94 (3.70)	94 (3.70)	95 (3.74)	94 (3.70)	94 (3.70)	
Aug	72 (2.83)	32 (1.26)	72 (2.83)	36 (1.42)	74 (2.91)	45 (1.77)	75 (2.95)	61 (2.40)	75 (2.95)	68 (2.68)	77 (3.03)	71 (2.80)	72 (2.83)	32 (1.26)	72 (2.83)	36 (1.42)	74 (2.91)	45 (1.77)	75 (2.95)	61 (2.40)	68 (2.68)	
Sep	333 (13.10)	230 (9.05)	336 (13.22)	251 (9.89)	340 (13.38)	271 (10.66)	343 (13.50)	302 (11.88)	345 (13.58)	325 (12.80)	351 (13.82)	336 (13.23)	333 (13.10)	230 (9.05)	336 (13.22)	251 (9.89)	340 (13.38)	271 (10.66)	343 (13.50)	302 (11.88)	345 (13.58)	325 (12.80)

REGION: 2 South Coast  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years							
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.							
March	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	19 (0.75)	0 (0.00)	61 (2.40)	3 (0.12)	62 (2.44)	3 (0.12)	63 (2.48)	4 (0.16)	63 (2.48)	11 (0.43)	24 (0.94)	39 (1.54)	
April	81 (3.19)	19 (0.75)	83 (3.27)	28 (1.10)	84 (3.31)	39 (1.54)	85 (3.35)	51 (2.01)	87 (3.43)	60 (2.36)	90 (3.54)	71 (2.80)	81 (3.19)	19 (0.75)	83 (3.27)	28 (1.10)	84 (3.31)	39 (1.54)	85 (3.35)	51 (2.01)	60 (2.36)	71 (2.80)	
May	89 (3.50)	55 (2.17)	89 (3.50)	65 (2.56)	91 (3.58)	70 (2.76)	91 (3.58)	77 (3.03)	92 (3.62)	84 (3.31)	93 (3.66)	88 (3.46)	89 (3.50)	55 (2.17)	89 (3.50)	65 (2.56)	91 (3.58)	70 (2.76)	91 (3.58)	77 (3.03)	84 (3.31)	88 (3.46)	
June	94 (3.70)	89 (3.50)	96 (3.78)	92 (3.62)	96 (3.78)	94 (3.70)	97 (3.82)	96 (3.78)	99 (3.90)	98 (3.86)	100 (3.94)	99 (3.90)	94 (3.70)	89 (3.50)	96 (3.78)	92 (3.62)	96 (3.78)	94 (3.70)	97 (3.82)	96 (3.78)	98 (3.86)	99 (3.90)	
July	82 (3.23)	72 (2.83)	83 (3.27)	76 (2.99)	83 (3.27)	79 (3.11)	85 (3.35)	81 (3.19)	85 (3.35)	84 (3.31)	86 (3.39)	85 (3.35)	82 (3.23)	72 (2.83)	83 (3.27)	76 (2.99)	83 (3.27)	79 (3.11)	85 (3.35)	81 (3.19)	86 (3.39)	85 (3.35)	
Aug	69 (2.72)	29 (1.14)	70 (2.76)	34 (1.34)	70 (2.76)	42 (1.65)	71 (2.80)	56 (2.20)	71 (2.80)	64 (2.52)	73 (2.87)	68 (2.68)	69 (2.72)	29 (1.14)	70 (2.76)	34 (1.34)	70 (2.76)	42 (1.65)	71 (2.80)	56 (2.20)	64 (2.52)	73 (2.87)	
Sep	51 (2.01)	3 (0.12)	51 (2.01)	4 (0.16)	53 (2.09)	4 (0.16)	54 (2.13)	5 (0.20)	54 (2.13)	17 (0.67)	56 (2.20)	43 (1.69)	51 (2.01)	3 (0.12)	51 (2.01)	4 (0.16)	53 (2.09)	4 (0.16)	54 (2.13)	5 (0.20)	17 (0.67)	56 (2.20)	
Oct	543 (21.38)	270 (10.63)	550 (21.66)	302 (11.89)	557 (21.94)	332 (13.08)	563 (22.18)	377 (14.84)	572 (22.54)	431 (16.97)	584 (22.99)	493 (19.42)	543 (21.38)	270 (10.63)	550 (21.66)	302 (11.89)	557 (21.94)	332 (13.08)	563 (22.18)	377 (14.84)	572 (22.54)	431 (16.97)	584 (22.99)

REGION: 2 South Coast  
CROP: Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	35 (1.38)	0 (0.00)	35 (1.38)	0 (0.00)	36 (1.42)	0 (0.00)	37 (1.46)	0 (0.00)	40 (1.57)	0 (0.00)	42 (1.65)	0 (0.00)	42 (1.65)	0 (0.00)	42 (1.65)	0 (0.00)		
April	55 (2.17)	2 (0.08)	55 (2.17)	3 (0.12)	56 (2.20)	3 (0.12)	56 (2.20)	6 (0.24)	59 (2.32)	18 (0.71)	59 (2.32)	18 (0.71)	59 (2.32)	18 (0.71)	59 (2.32)	32 (1.26)		
May	77 (3.03)	17 (0.67)	79 (3.11)	24 (0.94)	80 (3.15)	35 (1.38)	81 (3.19)	49 (1.93)	83 (3.27)	57 (2.24)	84 (3.31)	68 (2.68)	84 (3.31)	68 (2.68)	84 (3.31)	68 (2.68)		
June	94 (3.70)	61 (2.40)	94 (3.70)	68 (2.68)	95 (3.74)	74 (2.91)	96 (3.78)	81 (3.19)	96 (3.78)	88 (3.46)	98 (3.86)	92 (3.62)	98 (3.86)	92 (3.62)	98 (3.86)	92 (3.62)		
July	101 (3.98)	94 (3.70)	103 (4.06)	96 (3.78)	104 (4.09)	99 (3.90)	104 (4.09)	101 (3.98)	106 (4.17)	104 (4.09)	107 (4.21)	106 (4.17)	107 (4.21)	106 (4.17)	107 (4.21)	106 (4.17)		
Aug	86 (3.39)	78 (3.07)	87 (3.43)	81 (3.19)	87 (3.43)	84 (3.31)	89 (3.50)	86 (3.39)	89 (3.50)	88 (3.46)	90 (3.54)	89 (3.50)	90 (3.54)	89 (3.50)	90 (3.54)	89 (3.50)		
Sep	70 (2.76)	30 (1.18)	70 (2.76)	34 (1.34)	72 (2.83)	42 (1.65)	73 (2.87)	55 (2.17)	73 (2.87)	65 (2.56)	75 (2.95)	69 (2.72)	75 (2.95)	69 (2.72)	75 (2.95)	69 (2.72)		
Oct	46 (1.81)	2 (0.08)	46 (1.81)	3 (0.12)	46 (1.81)	3 (0.12)	47 (1.85)	4 (0.16)	47 (1.85)	10 (0.39)	49 (1.93)	37 (1.46)	49 (1.93)	37 (1.46)	49 (1.93)	37 (1.46)		
Nov	22 (0.87)	0 (0.00)	22 (0.87)	0 (0.00)	23 (0.91)	1 (0.04)	23 (0.91)	1 (0.04)	23 (0.91)	1 (0.04)	24 (0.94)	1 (0.04)	24 (0.94)	1 (0.04)	24 (0.94)	1 (0.04)		
Season	586 (23.09)	284 (11.18)	591 (23.29)	309 (12.17)	599 (23.58)	341 (13.43)	606 (23.85)	383 (15.10)	616 (24.24)	431 (16.95)	628 (24.71)	494 (19.45)	628 (24.71)	494 (19.45)	628 (24.71)	494 (19.45)		

REGION: 2 South Coast  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	35 (1.38)	0 (0.00)	35 (1.38)	0 (0.00)	36 (1.42)	0 (0.00)	37 (1.46)	0 (0.00)	40 (1.57)	0 (0.00)	42 (1.65)	0 (0.00)	42 (1.65)	0 (0.00)	42 (1.65)	0 (0.00)		
April	55 (2.17)	2 (0.08)	55 (2.17)	3 (0.12)	56 (2.20)	3 (0.12)	56 (2.20)	6 (0.24)	59 (2.32)	18 (0.71)	59 (2.32)	18 (0.71)	59 (2.32)	18 (0.71)	59 (2.32)	32 (1.26)		
May	77 (3.03)	17 (0.67)	79 (3.11)	24 (0.94)	80 (3.15)	35 (1.38)	81 (3.19)	49 (1.93)	83 (3.27)	57 (2.24)	84 (3.31)	68 (2.68)	84 (3.31)	68 (2.68)	84 (3.31)	68 (2.68)		
June	94 (3.70)	61 (2.40)	94 (3.70)	68 (2.68)	95 (3.74)	74 (2.91)	96 (3.78)	81 (3.19)	96 (3.78)	88 (3.46)	98 (3.86)	92 (3.62)	98 (3.86)	92 (3.62)	98 (3.86)	92 (3.62)		
July	101 (3.98)	94 (3.70)	103 (4.06)	96 (3.78)	104 (4.09)	99 (3.90)	104 (4.09)	101 (3.98)	106 (4.17)	104 (4.09)	107 (4.21)	106 (4.17)	107 (4.21)	106 (4.17)	107 (4.21)	106 (4.17)		
Aug	86 (3.39)	78 (3.07)	87 (3.43)	81 (3.19)	87 (3.43)	84 (3.31)	89 (3.50)	86 (3.39)	89 (3.50)	88 (3.46)	90 (3.54)	89 (3.50)	90 (3.54)	89 (3.50)	90 (3.54)	89 (3.50)		
Sep	70 (2.76)	30 (1.18)	70 (2.76)	34 (1.34)	72 (2.83)	42 (1.65)	73 (2.87)	55 (2.17)	73 (2.87)	65 (2.56)	75 (2.95)	69 (2.72)	75 (2.95)	69 (2.72)	75 (2.95)	69 (2.72)		
Oct	46 (1.81)	2 (0.08)	46 (1.81)	3 (0.12)	46 (1.81)	3 (0.12)	47 (1.85)	4 (0.16)	47 (1.85)	10 (0.39)	49 (1.93)	37 (1.46)	49 (1.93)	37 (1.46)	49 (1.93)	37 (1.46)		
Nov	22 (0.87)	0 (0.00)	22 (0.87)	0 (0.00)	23 (0.91)	1 (0.04)	23 (0.91)	1 (0.04)	23 (0.91)	1 (0.04)	24 (0.94)	1 (0.04)	24 (0.94)	1 (0.04)	24 (0.94)	1 (0.04)		
Season	586 (23.09)	284 (11.18)	591 (23.29)	309 (12.17)	599 (23.58)	341 (13.43)	606 (23.85)	383 (15.10)	616 (24.24)	431 (16.95)	628 (24.71)	494 (19.45)	628 (24.71)	494 (19.45)	628 (24.71)	494 (19.45)		

REGION: 3 Columbia River below Hood River  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	52 (2.05)	3 (0.12)	53 (2.09)	3 (0.12)	55 (2.17)	4 (0.16)	57 (2.24)	7 (0.28)	58 (2.28)	25 (0.98)	60 (2.36)	32 (1.26)						
May	106 (4.17)	35 (1.38)	107 (4.21)	40 (1.57)	110 (4.33)	45 (1.77)	113 (4.45)	51 (2.01)	115 (4.53)	66 (2.60)	118 (4.65)	72 (2.83)						
June	116 (4.57)	56 (2.20)	118 (4.65)	71 (2.80)	120 (4.72)	83 (3.27)	122 (4.80)	90 (3.54)	125 (4.92)	102 (4.02)	126 (4.96)	110 (4.33)						
July	134 (5.28)	118 (4.65)	135 (5.31)	124 (4.88)	137 (5.39)	128 (5.04)	138 (5.43)	133 (5.24)	140 (5.51)	140 (5.51)	143 (5.63)	143 (5.63)						
Aug	115 (4.53)	90 (3.54)	116 (4.57)	98 (3.86)	117 (4.61)	105 (4.13)	118 (4.65)	110 (4.33)	124 (4.88)	116 (4.57)	126 (4.96)	123 (4.84)						
Sep	87 (3.43)	29 (1.14)	88 (3.46)	36 (1.42)	90 (3.54)	47 (1.85)	91 (3.58)	61 (2.40)	93 (3.66)	79 (3.11)	94 (3.70)	87 (3.43)						
Oct	54 (2.13)	3 (0.12)	54 (2.13)	4 (0.16)	54 (2.13)	5 (0.20)	55 (2.17)	5 (0.20)	58 (2.28)	20 (0.79)	59 (2.32)	38 (1.50)						
Nov	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)						
Season	669 (26.36)	334 (13.15)	676 (26.62)	376 (14.81)	688 (27.09)	417 (16.42)	700 (27.56)	457 (18.00)	719 (28.30)	548 (21.58)	732 (28.82)	605 (23.82)						

REGION: 3 Columbia River below Hood River  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	43 (1.69)	0 (0.00)	44 (1.73)	0 (0.00)	45 (1.77)	0 (0.00)	48 (1.89)	1 (0.04)	50 (1.97)	1 (0.04)	53 (2.09)	3 (0.12)						
April	78 (3.07)	4 (0.16)	80 (3.15)	5 (0.20)	83 (3.27)	5 (0.20)	85 (3.35)	11 (0.43)	88 (3.46)	38 (1.50)	90 (3.54)	49 (1.93)						
May	125 (4.92)	52 (2.05)	127 (5.00)	59 (2.32)	130 (5.12)	64 (2.52)	134 (5.28)	69 (2.72)	137 (5.39)	82 (3.23)	140 (5.51)	94 (3.70)						
June	151 (5.94)	85 (3.35)	153 (6.02)	101 (3.98)	156 (6.14)	113 (4.45)	159 (6.26)	122 (4.80)	165 (6.50)	137 (5.39)	167 (6.57)	145 (5.71)						
July	175 (6.89)	158 (6.22)	176 (6.93)	167 (6.57)	178 (7.01)	171 (6.73)	179 (7.05)	176 (6.93)	186 (7.32)	180 (7.09)	190 (7.48)	187 (7.36)						
Aug	148 (5.85)	126 (4.96)	150 (5.91)	133 (5.24)	151 (5.94)	141 (5.55)	155 (6.10)	147 (5.79)	161 (6.34)	154 (6.06)	164 (6.46)	161 (6.34)						
Sep	107 (4.21)	48 (1.89)	108 (4.25)	58 (2.28)	110 (4.33)	59 (2.72)	115 (4.53)	84 (3.31)	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)						
Oct	53 (2.09)	3 (0.12)	54 (2.13)	4 (0.16)	55 (2.17)	5 (0.20)	55 (2.17)	5 (0.20)	57 (2.24)	19 (0.75)	57 (2.24)	37 (1.46)						
Nov	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	19 (0.75)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)						
Season	896 (35.27)	476 (18.75)	908 (35.75)	527 (20.75)	925 (36.42)	568 (22.37)	949 (37.38)	615 (24.22)	982 (38.66)	712 (28.04)	1000 (39.37)	786 (30.95)						





REGION: 3 Columbia River below Hood River  
Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	43 (1.69)	0 (0.00)	44 (1.73)	0 (0.00)	45 (1.77)	0 (0.00)	48 (1.89)	1 (0.04)	50 (1.97)	1 (0.04)	53 (2.09)	3 (0.12)	53 (2.09)	3 (0.12)	53 (2.09)	3 (0.12)		
April	78 (3.07)	4 (0.16)	80 (3.15)	5 (0.20)	83 (3.27)	5 (0.20)	85 (3.35)	11 (0.43)	88 (3.46)	38 (1.50)	90 (3.54)	49 (1.93)	90 (3.54)	49 (1.93)	90 (3.54)	49 (1.93)		
May	125 (4.92)	52 (2.05)	127 (5.00)	59 (2.32)	130 (5.12)	64 (2.52)	134 (5.28)	69 (2.72)	137 (5.39)	82 (3.23)	140 (5.51)	94 (3.70)	140 (5.51)	94 (3.70)	140 (5.51)	94 (3.70)		
June	151 (5.94)	85 (3.35)	153 (6.02)	101 (3.98)	156 (6.14)	113 (4.45)	159 (6.26)	122 (4.80)	165 (6.50)	137 (5.39)	167 (6.57)	145 (5.71)	167 (6.57)	145 (5.71)	167 (6.57)	145 (5.71)		
July	175 (6.89)	158 (6.22)	176 (6.93)	167 (6.57)	178 (7.01)	171 (6.73)	179 (7.05)	176 (6.93)	186 (7.32)	180 (7.09)	190 (7.48)	187 (7.36)	190 (7.48)	187 (7.36)	190 (7.48)	187 (7.36)		
Aug	148 (5.83)	126 (4.96)	150 (5.91)	133 (5.24)	151 (5.94)	141 (5.55)	155 (6.10)	147 (5.79)	161 (6.34)	154 (6.06)	164 (6.46)	161 (6.34)	164 (6.46)	161 (6.34)	164 (6.46)	161 (6.34)		
Sep	107 (4.21)	48 (1.89)	108 (4.25)	58 (2.28)	110 (4.33)	69 (2.72)	115 (4.53)	84 (3.31)	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)	119 (4.69)	110 (4.33)	119 (4.69)	110 (4.33)		
Oct	53 (2.09)	3 (0.12)	54 (2.13)	4 (0.16)	55 (2.17)	5 (0.20)	55 (2.17)	5 (0.20)	57 (2.24)	19 (0.75)	57 (2.24)	37 (1.46)	57 (2.24)	37 (1.46)	57 (2.24)	37 (1.46)		
Nov	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	19 (0.75)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)		
Season	896 (35.27)	476 (18.75)	908 (35.75)	527 (20.75)	925 (36.42)	568 (22.37)	949 (37.38)	615 (24.22)	982 (38.66)	712 (28.04)	1000 (39.37)	786 (30.95)	982 (38.66)	712 (28.04)	1000 (39.37)	786 (30.95)		

REGION: 3 Columbia River below Hood River  
Corn (Field)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	23 (0.91)	0 (0.00)	23 (0.91)	0 (0.00)	23 (0.91)	1 (0.04)	24 (0.94)	1 (0.04)	24 (0.94)	1 (0.04)	24 (0.94)	1 (0.04)	24 (0.94)	1 (0.04)	24 (0.94)	1 (0.04)		
June	67 (2.64)	14 (0.55)	68 (2.68)	25 (0.98)	70 (2.76)	36 (1.42)	70 (2.76)	42 (1.65)	71 (2.80)	52 (2.05)	73 (2.87)	57 (2.24)	73 (2.87)	57 (2.24)	73 (2.87)	57 (2.24)		
July	154 (6.06)	136 (5.35)	155 (6.10)	144 (5.67)	157 (6.18)	149 (5.87)	158 (6.22)	154 (6.06)	161 (6.34)	161 (6.34)	167 (6.57)	165 (6.50)	167 (6.57)	165 (6.50)	167 (6.57)	165 (6.50)		
Aug	136 (5.35)	114 (4.49)	137 (5.39)	121 (4.76)	142 (5.59)	128 (5.04)	144 (5.67)	135 (5.31)	149 (5.87)	141 (5.55)	151 (5.94)	148 (5.83)	151 (5.94)	148 (5.83)	151 (5.94)	148 (5.83)		
Sep	49 (1.93)	12 (0.47)	50 (1.97)	18 (0.71)	50 (1.97)	25 (0.98)	52 (2.05)	35 (1.38)	53 (2.09)	45 (1.77)	54 (2.13)	49 (1.93)	54 (2.13)	49 (1.93)	54 (2.13)	49 (1.93)		
Season	429 (16.89)	276 (10.86)	433 (17.05)	308 (12.12)	442 (17.41)	339 (13.35)	448 (17.64)	367 (14.44)	458 (18.04)	400 (15.75)	469 (18.45)	420 (16.54)	458 (18.04)	400 (15.75)	469 (18.45)	420 (16.54)		

REGION: 3 Columbia River below Hood River  
CROP: Corn (Silage)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.
May	31 (1.22)	1 (0.04)	31 (1.22)	1 (0.04)	32 (1.26)	1 (0.04)	32 (1.26)	1 (0.04)	33 (1.30)	2 (0.08)	33 (1.30)	2 (0.08)	33 (1.30)	2 (0.08)	33 (1.30)	7 (0.28)	33 (1.30)	7 (0.28)
June	98 (3.86)	41 (1.61)	100 (3.94)	55 (2.17)	102 (4.02)	64 (2.52)	105 (4.13)	73 (2.87)	107 (4.21)	83 (3.27)	107 (4.21)	83 (3.27)	108 (4.25)	83 (3.27)	108 (4.25)	92 (3.62)	108 (4.25)	92 (3.62)
July	165 (6.50)	147 (5.79)	167 (6.57)	155 (6.10)	168 (6.61)	160 (6.30)	170 (6.69)	166 (6.54)	173 (6.81)	173 (6.81)	173 (6.81)	173 (6.81)	179 (7.05)	173 (6.81)	179 (7.05)	177 (6.97)	179 (7.05)	177 (6.97)
Aug	139 (5.47)	114 (4.49)	140 (5.51)	120 (4.72)	141 (5.55)	127 (5.00)	143 (5.63)	134 (5.28)	148 (5.83)	140 (5.51)	148 (5.83)	140 (5.51)	150 (5.91)	140 (5.51)	150 (5.91)	147 (5.79)	150 (5.91)	147 (5.79)
Sep	26 (1.02)	12 (0.47)	27 (1.06)	15 (0.59)	27 (1.06)	17 (0.67)	28 (1.10)	22 (0.87)	28 (1.10)	25 (0.98)	28 (1.10)	25 (0.98)	28 (1.10)	25 (0.98)	28 (1.10)	27 (1.06)	28 (1.10)	27 (1.06)
Season	459 (18.07)	315 (12.40)	465 (18.30)	346 (13.62)	470 (18.50)	369 (14.53)	478 (18.81)	396 (15.60)	489 (19.25)	423 (16.65)	489 (19.25)	423 (16.65)	498 (19.61)	423 (16.65)	498 (19.61)	450 (17.72)	498 (19.61)	450 (17.72)

REGION: 3 Columbia River below Hood River  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.
May	38 (1.50)	2 (0.08)	38 (1.50)	3 (0.12)	39 (1.54)	6 (0.24)	40 (1.57)	8 (0.31)	40 (1.57)	18 (0.71)	40 (1.57)	18 (0.71)	41 (1.61)	18 (0.71)	41 (1.61)	21 (0.83)	41 (1.61)	21 (0.83)
June	99 (3.90)	41 (1.61)	101 (3.98)	56 (2.20)	103 (4.06)	66 (2.60)	105 (4.13)	74 (2.91)	107 (4.21)	83 (3.27)	107 (4.21)	83 (3.27)	109 (4.29)	83 (3.27)	109 (4.29)	92 (3.62)	109 (4.29)	92 (3.62)
July	164 (6.46)	147 (5.79)	165 (6.50)	155 (6.10)	166 (6.54)	160 (6.30)	167 (6.57)	166 (6.54)	173 (6.81)	173 (6.81)	173 (6.81)	173 (6.81)	176 (6.93)	173 (6.81)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)
Aug	142 (5.59)	118 (4.65)	143 (5.63)	124 (4.88)	144 (5.67)	131 (5.16)	146 (5.75)	137 (5.39)	151 (5.94)	143 (5.63)	151 (5.94)	143 (5.63)	153 (6.02)	143 (5.63)	153 (6.02)	149 (5.87)	153 (6.02)	149 (5.87)
Sep	33 (1.30)	15 (0.59)	33 (1.30)	19 (0.75)	34 (1.34)	23 (0.91)	36 (1.42)	28 (1.10)	36 (1.42)	33 (1.30)	36 (1.42)	33 (1.30)	37 (1.46)	33 (1.30)	37 (1.46)	35 (1.38)	37 (1.46)	35 (1.38)
Season	476 (18.75)	323 (12.72)	480 (18.91)	357 (14.05)	486 (19.15)	386 (15.21)	494 (19.44)	413 (16.25)	507 (19.95)	450 (17.72)	507 (19.95)	450 (17.72)	516 (20.31)	450 (17.72)	516 (20.31)	473 (18.63)	516 (20.31)	473 (18.63)

REGION: 3 Columbia River below Hood River  
CROP: Filberts

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years											
	ET mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.											
March	43 (1.69)	0 (0.00)	44 (1.73)	0 (0.00)	45 (1.77)	0 (0.00)	48 (1.89)	1 (0.04)	50 (1.97)	1 (0.04)	53 (2.09)	3 (0.12)	78 (3.07)	4 (0.16)	80 (3.15)	5 (0.20)	83 (3.27)	5 (0.20)	85 (3.35)	11 (0.43)	88 (3.46)	38 (1.50)	90 (3.54)	49 (1.93)			
April	78 (3.07)	4 (0.16)	80 (3.15)	5 (0.20)	83 (3.27)	5 (0.20)	85 (3.35)	11 (0.43)	88 (3.46)	13 (0.45)	90 (3.54)	14 (0.47)	94 (1.93)	125 (4.92)	52 (2.05)	127 (5.00)	59 (2.32)	130 (5.12)	64 (2.52)	134 (5.28)	69 (2.72)	137 (5.39)	82 (3.23)	140 (5.51)	94 (3.70)		
May	125 (4.92)	52 (2.05)	127 (5.00)	59 (2.32)	130 (5.12)	64 (2.52)	134 (5.28)	69 (2.72)	137 (5.39)	140 (5.51)	145 (2.05)	148 (5.83)	151 (5.94)	151 (5.94)	85 (3.35)	153 (6.02)	101 (3.98)	156 (6.14)	113 (4.45)	159 (6.26)	122 (4.80)	165 (6.50)	137 (5.39)	167 (6.57)	145 (5.71)		
June	151 (5.94)	85 (3.35)	153 (6.02)	101 (3.98)	156 (6.14)	113 (4.45)	159 (6.26)	122 (4.80)	165 (6.50)	167 (6.57)	175 (6.89)	158 (6.22)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)
July	175 (6.89)	158 (6.22)	176 (6.93)	167 (6.57)	178 (7.01)	171 (6.73)	179 (7.05)	176 (6.93)	186 (7.32)	180 (7.09)	190 (7.48)	187 (7.36)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	190 (7.48)	
Aug	148 (5.83)	126 (4.96)	150 (5.91)	133 (5.24)	151 (5.94)	141 (5.55)	155 (6.10)	147 (5.79)	161 (6.34)	154 (6.06)	164 (6.46)	161 (6.34)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	164 (6.46)	
Sep	107 (4.21)	48 (1.89)	108 (4.25)	58 (2.28)	110 (4.33)	69 (2.72)	115 (4.53)	84 (3.31)	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	119 (4.69)	
Oct	53 (2.09)	3 (0.12)	54 (2.13)	4 (0.16)	55 (2.17)	5 (0.20)	55 (2.17)	5 (0.20)	57 (2.24)	19 (0.75)	57 (2.24)	19 (0.75)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	57 (2.24)	
Nov	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	19 (0.75)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	
Season	896 (35.27)	476 (18.75)	908 (35.75)	527 (20.75)	925 (36.42)	568 (22.37)	949 (37.38)	615 (24.22)	982 (38.66)	712 (28.04)	1000 (39.37)	786 (30.95)															

REGION: 3 Columbia River below Hood River  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years										
	ET mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.										
March	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	19 (0.75)	0 (0.00)	20 (0.79)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)										
April	55 (2.17)	2 (0.08)	56 (2.20)	2 (0.08)	58 (2.28)	3 (0.12)	60 (2.36)	3 (0.12)	60 (2.36)	3 (0.12)	62 (2.44)	28 (1.10)	109 (4.29)	37 (1.46)	110 (4.33)	43 (1.69)	113 (4.45)	49 (1.93)	115 (4.53)	54 (2.13)	118 (4.65)	68 (2.68)	120 (4.72)	75 (2.95)		
May	109 (4.29)	37 (1.46)	110 (4.33)	43 (1.69)	113 (4.45)	49 (1.93)	115 (4.53)	54 (2.13)	118 (4.65)	68 (2.68)	120 (4.72)	75 (2.95)	142 (5.59)	77 (3.03)	144 (5.67)	94 (3.70)	147 (5.79)	105 (4.13)	150 (5.91)	114 (4.49)	153 (6.02)	128 (5.04)	154 (6.06)	136 (5.35)		
June	142 (5.59)	77 (3.03)	144 (5.67)	94 (3.70)	147 (5.79)	105 (4.13)	150 (5.91)	114 (4.49)	153 (6.02)	128 (5.04)	154 (6.06)	136 (5.35)	144 (5.67)	128 (5.04)	146 (5.75)	134 (5.28)	147 (5.79)	139 (5.47)	148 (5.83)	144 (5.67)	149 (5.87)	154 (6.06)	154 (6.06)	154 (6.06)	154 (6.06)	
July	144 (5.67)	128 (5.04)	146 (5.75)	134 (5.28)	147 (5.79)	139 (5.47)	148 (5.83)	144 (5.67)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)
Aug	16 (0.63)	11 (0.43)	16 (0.63)	13 (0.51)	16 (0.63)	14 (0.55)	16 (0.63)	15 (0.59)	17 (0.67)	16 (0.63)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	
Season	483 (19.02)	255 (10.04)	489 (19.25)	286 (11.26)	499 (19.65)	310 (12.20)	507 (19.97)	330 (13.00)	516 (20.32)	377 (14.85)	527 (20.74)	410 (16.13)														

REGION: 3 Columbia River below Hood River  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
March	28 (1.10)	0 (0.00)	0 (0.00)	28 (1.10)	0 (0.00)	0 (0.00)	29 (1.14)	0 (0.00)	0 (0.00)	31 (1.22)	0 (0.00)	0 (0.00)	32 (1.26)	0 (0.00)	0 (0.00)	33 (1.30)	0 (0.00)	0 (0.00)
April	58 (2.28)	2 (0.08)	3 (0.12)	60 (2.36)	3 (0.12)	3 (0.12)	61 (2.40)	3 (0.12)	3 (0.12)	63 (2.48)	3 (0.12)	3 (0.12)	64 (2.52)	17 (0.67)	17 (0.67)	65 (2.56)	30 (1.18)	30 (1.18)
May	111 (4.37)	40 (1.57)	46 (1.81)	113 (4.45)	46 (1.81)	51 (2.01)	116 (4.57)	51 (2.01)	56 (2.20)	118 (4.65)	56 (2.20)	121 (4.76)	121 (4.76)	70 (2.76)	70 (2.76)	122 (4.80)	77 (3.03)	77 (3.03)
June	142 (5.59)	77 (3.03)	94 (3.70)	144 (5.67)	94 (3.70)	105 (4.13)	147 (5.79)	105 (4.13)	114 (4.49)	150 (5.91)	114 (4.49)	153 (6.02)	153 (6.02)	128 (5.04)	128 (5.04)	154 (6.06)	136 (5.35)	136 (5.35)
July	137 (5.39)	123 (4.84)	138 (5.08)	138 (5.43)	129 (5.08)	134 (5.28)	139 (5.47)	134 (5.28)	141 (5.55)	139 (5.47)	143 (5.63)	143 (5.63)	143 (5.63)	143 (5.63)	143 (5.63)	149 (5.87)	149 (5.87)	149 (5.87)
Aug	4 (0.16)	4 (0.16)	5 (0.20)	5 (0.20)	5 (0.20)	5 (0.20)	5 (0.20)	5 (0.20)	7 (0.28)	7 (0.28)	6 (0.24)	7 (0.28)	7 (0.28)	6 (0.24)	6 (0.24)	7 (0.28)	7 (0.28)	7 (0.28)
Season	480 (18.89)	246 (9.68)	277 (10.91)	488 (19.21)	277 (10.91)	298 (11.74)	497 (19.57)	298 (11.74)	318 (12.52)	510 (20.09)	318 (12.52)	520 (20.47)	364 (14.34)	530 (20.87)	399 (15.71)			

REGION: 3 Columbia River below Hood River  
CROP: Grapes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
April	40 (1.57)	1 (0.04)	1 (0.04)	41 (1.61)	1 (0.04)	1 (0.04)	42 (1.65)	1 (0.04)	1 (0.04)	43 (1.69)	1 (0.04)	1 (0.04)	44 (1.73)	2 (0.08)	2 (0.08)	46 (1.81)	11 (0.43)	11 (0.43)
May	68 (2.68)	5 (0.20)	7 (0.28)	68 (2.68)	7 (0.28)	11 (0.43)	70 (2.76)	11 (0.43)	11 (0.43)	72 (2.83)	17 (0.67)	17 (0.67)	73 (2.87)	32 (1.26)	32 (1.26)	74 (2.91)	38 (1.50)	38 (1.50)
June	84 (3.31)	26 (1.02)	40 (1.57)	85 (3.35)	40 (1.57)	52 (2.05)	86 (3.39)	52 (2.05)	58 (2.28)	88 (3.46)	58 (2.28)	90 (3.54)	90 (3.54)	68 (2.68)	68 (2.68)	91 (3.58)	77 (3.03)	77 (3.03)
July	98 (3.86)	84 (3.31)	89 (3.50)	100 (3.94)	89 (3.50)	93 (3.66)	100 (3.94)	93 (3.66)	101 (3.98)	101 (3.98)	97 (3.82)	103 (4.06)	103 (4.06)	102 (4.02)	102 (4.02)	107 (4.21)	105 (4.13)	105 (4.13)
Aug	82 (3.23)	64 (2.52)	70 (2.76)	83 (3.27)	70 (2.76)	76 (2.99)	84 (3.31)	76 (2.99)	80 (3.15)	86 (3.39)	80 (3.15)	89 (3.50)	89 (3.50)	85 (3.35)	85 (3.35)	93 (3.66)	89 (3.50)	89 (3.50)
Sep	62 (2.44)	7 (0.28)	14 (0.55)	64 (2.52)	14 (0.55)	26 (1.02)	65 (2.56)	26 (1.02)	39 (1.54)	66 (2.60)	39 (1.54)	67 (2.64)	67 (2.64)	52 (2.05)	52 (2.05)	68 (2.68)	61 (2.40)	61 (2.40)
Oct	32 (1.26)	2 (0.08)	2 (0.08)	32 (1.26)	2 (0.08)	2 (0.08)	33 (1.30)	2 (0.08)	3 (0.12)	34 (1.34)	3 (0.12)	34 (1.34)	34 (1.34)	3 (0.12)	3 (0.12)	35 (1.38)	13 (0.51)	13 (0.51)
Nov	7 (0.28)	0 (0.00)	0 (0.00)	8 (0.31)	0 (0.00)	0 (0.00)	8 (0.31)	0 (0.00)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	9 (0.35)	0 (0.00)	0 (0.00)	9 (0.35)	0 (0.00)	0 (0.00)
Season	473 (18.63)	189 (7.45)	223 (8.78)	481 (18.94)	223 (8.78)	261 (10.27)	488 (19.22)	261 (10.27)	295 (11.62)	499 (19.64)	295 (11.62)	509 (20.03)	344 (13.56)	523 (20.58)	394 (15.50)			

REGION: 3 Columbia River below Hood River  
CROP: Grass Seed (Fall)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.		
Jan	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)		
Feb	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	19 (0.75)	0 (0.00)	19 (0.75)	0 (0.00)	19 (0.75)	0 (0.00)	21 (0.83)	0 (0.00)	21 (0.83)	0 (0.00)	23 (0.91)	0 (0.00)		
March	43 (1.69)	0 (0.00)	44 (1.73)	0 (0.00)	45 (1.77)	0 (0.00)	47 (1.85)	0 (0.00)	47 (1.85)	1 (0.04)	49 (1.93)	1 (0.04)	49 (1.93)	1 (0.04)	51 (2.01)	3 (0.12)		
April	83 (3.27)	4 (0.16)	85 (3.35)	5 (0.20)	88 (3.46)	6 (0.24)	90 (3.54)	16 (0.63)	90 (3.54)	16 (0.63)	93 (3.66)	43 (1.69)	93 (3.66)	43 (1.69)	96 (3.78)	53 (2.09)		
May	130 (5.12)	56 (2.20)	131 (5.16)	63 (2.48)	135 (5.31)	67 (2.64)	139 (5.47)	72 (2.83)	139 (5.47)	72 (2.83)	142 (5.59)	84 (3.31)	142 (5.59)	84 (3.31)	145 (5.71)	93 (3.66)		
June	142 (5.59)	78 (3.07)	144 (5.67)	95 (3.74)	147 (5.79)	106 (4.17)	150 (5.91)	115 (4.53)	150 (5.91)	115 (4.53)	153 (6.02)	129 (5.08)	153 (6.02)	129 (5.08)	154 (6.06)	137 (5.39)		
July	164 (6.46)	146 (5.75)	165 (6.50)	155 (6.10)	166 (6.54)	160 (6.30)	167 (6.57)	166 (6.54)	167 (6.57)	166 (6.54)	173 (6.81)	173 (6.81)	173 (6.81)	173 (6.81)	176 (6.93)	176 (6.93)		
Aug	126 (4.96)	103 (4.06)	127 (5.00)	110 (4.33)	129 (5.08)	116 (4.57)	132 (5.20)	122 (4.80)	132 (5.20)	122 (4.80)	137 (5.39)	128 (5.04)	137 (5.39)	128 (5.04)	139 (5.47)	134 (5.28)		
Sep	50 (1.97)	4 (0.16)	50 (1.97)	5 (0.20)	51 (2.01)	14 (0.55)	52 (2.05)	26 (1.02)	52 (2.05)	26 (1.02)	54 (2.13)	41 (1.61)	54 (2.13)	41 (1.61)	55 (2.17)	49 (1.93)		
Oct	41 (1.61)	2 (0.08)	42 (1.65)	3 (0.12)	43 (1.69)	3 (0.12)	44 (1.73)	4 (0.16)	44 (1.73)	4 (0.16)	45 (1.77)	11 (0.43)	45 (1.77)	11 (0.43)	45 (1.77)	27 (1.06)		
Nov	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)		
Dec	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)		
Season	824 (32.45)	393 (15.48)	835 (32.89)	436 (17.17)	854 (33.62)	472 (18.59)	875 (34.44)	522 (20.55)	903 (35.54)	610 (24.01)	922 (36.30)	672 (26.46)	922 (36.30)	672 (26.46)	922 (36.30)	672 (26.46)		

REGION: 3 Columbia River below Hood River  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.		
Jan	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	12 (0.47)	0 (0.00)	12 (0.47)	0 (0.00)	13 (0.51)	0 (0.00)		
Feb	13 (0.51)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	19 (0.75)	0 (0.00)		
March	21 (0.83)	0 (0.00)	21 (0.83)	0 (0.00)	22 (0.87)	0 (0.00)	23 (0.91)	0 (0.00)	23 (0.91)	0 (0.00)	23 (0.91)	0 (0.00)	23 (0.91)	0 (0.00)	24 (0.94)	0 (0.00)		
April	46 (1.81)	1 (0.04)	47 (1.85)	2 (0.08)	47 (1.85)	2 (0.08)	49 (1.93)	2 (0.08)	49 (1.93)	2 (0.08)	50 (1.97)	6 (0.24)	50 (1.97)	6 (0.24)	50 (1.97)	17 (0.67)		
May	71 (2.80)	5 (0.20)	71 (2.80)	10 (0.39)	72 (2.83)	14 (0.55)	73 (2.87)	19 (0.75)	73 (2.87)	19 (0.75)	74 (2.91)	33 (1.30)	74 (2.91)	33 (1.30)	75 (2.95)	39 (1.54)		
June	99 (3.90)	41 (1.61)	101 (3.98)	56 (2.20)	104 (4.09)	67 (2.64)	105 (4.13)	75 (2.95)	105 (4.13)	75 (2.95)	109 (4.29)	87 (3.43)	109 (4.29)	87 (3.43)	110 (4.33)	93 (3.66)		
July	145 (5.71)	129 (5.08)	147 (5.79)	135 (5.31)	148 (5.83)	140 (5.51)	150 (5.91)	145 (5.71)	150 (5.91)	145 (5.71)	153 (6.02)	152 (5.98)	153 (6.02)	152 (5.98)	157 (6.18)	156 (6.14)		
Aug	137 (5.39)	114 (4.49)	137 (5.39)	121 (4.76)	139 (5.47)	128 (5.04)	145 (5.71)	134 (5.28)	145 (5.71)	134 (5.28)	148 (5.83)	140 (5.51)	148 (5.83)	140 (5.51)	150 (5.91)	147 (5.79)		
Sep	105 (4.13)	43 (1.69)	107 (4.21)	53 (2.09)	108 (4.25)	64 (2.52)	110 (4.33)	79 (3.11)	110 (4.33)	79 (3.11)	113 (4.45)	98 (3.86)	113 (4.45)	98 (3.86)	114 (4.49)	106 (4.17)		
Oct	65 (2.56)	4 (0.16)	66 (2.60)	5 (0.20)	67 (2.64)	6 (0.24)	69 (2.72)	7 (0.28)	69 (2.72)	7 (0.28)	70 (2.76)	29 (1.14)	70 (2.76)	29 (1.14)	71 (2.80)	50 (1.97)		
Nov	21 (0.83)	0 (0.00)	22 (0.87)	0 (0.00)	23 (0.91)	0 (0.00)	25 (0.98)	0 (0.00)	25 (0.98)	0 (0.00)	26 (1.02)	0 (0.00)	26 (1.02)	0 (0.00)	27 (1.06)	0 (0.00)		
Dec	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	13 (0.51)	0 (0.00)	13 (0.51)	0 (0.00)	13 (0.51)	0 (0.00)		
Season	739 (29.10)	337 (13.27)	752 (29.61)	382 (15.03)	764 (30.07)	421 (16.58)	784 (30.86)	461 (18.16)	808 (31.81)	545 (21.46)	823 (32.40)	608 (23.94)	823 (32.40)	608 (23.94)	823 (32.40)	608 (23.94)		

REGION: 3 Columbia River below Hood River  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm
April	25 (0.98)	1 (0.04)	25 (0.98)	25 (0.98)	1 (0.04)	25 (0.98)	26 (1.02)	1 (0.04)	26 (1.02)	27 (1.06)	1 (0.04)	27 (1.06)	27 (1.06)	8 (0.31)	27 (1.06)	27 (1.06)	13 (0.51)	13 (0.51)
May	101 (3.98)	43 (1.69)	102 (4.02)	105 (4.13)	48 (1.89)	105 (4.13)	107 (4.21)	51 (2.01)	107 (4.21)	107 (4.21)	55 (2.17)	110 (4.33)	110 (4.33)	65 (2.56)	111 (4.37)	111 (4.37)	75 (2.95)	75 (2.95)
June	129 (5.08)	74 (2.91)	131 (5.16)	134 (5.28)	88 (3.46)	134 (5.28)	137 (5.39)	98 (3.86)	137 (5.39)	137 (5.39)	107 (4.21)	139 (5.47)	139 (5.47)	117 (4.61)	140 (5.51)	140 (5.51)	124 (4.88)	124 (4.88)
July	146 (5.75)	133 (5.24)	148 (5.83)	140 (5.51)	140 (5.51)	152 (5.98)	154 (6.06)	144 (5.67)	154 (6.06)	148 (5.83)	156 (6.14)	156 (6.14)	156 (6.14)	152 (5.98)	162 (6.38)	162 (6.38)	157 (6.18)	157 (6.18)
Aug	111 (4.37)	91 (3.58)	112 (4.41)	113 (4.45)	97 (3.82)	113 (4.45)	114 (4.49)	102 (4.02)	114 (4.49)	107 (4.21)	119 (4.69)	119 (4.69)	119 (4.69)	113 (4.45)	121 (4.76)	121 (4.76)	118 (4.65)	118 (4.65)
Season	512 (20.16)	342 (13.46)	518 (20.40)	529 (20.82)	374 (14.72)	529 (20.82)	538 (21.17)	418 (16.46)	538 (21.17)	455 (17.91)	551 (21.69)	551 (21.69)	551 (21.69)	487 (19.17)	561 (22.08)	561 (22.08)	487 (19.17)	487 (19.17)

REGION: 3 Columbia River below Hood River  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm
March	34 (1.34)	1 (0.04)	36 (1.42)	37 (1.46)	1 (0.04)	37 (1.46)	41 (1.61)	1 (0.04)	41 (1.61)	42 (1.65)	1 (0.04)	42 (1.65)	45 (1.77)	1 (0.04)	45 (1.77)	45 (1.77)	10 (0.39)	10 (0.39)
April	81 (3.19)	4 (0.16)	83 (3.27)	86 (3.39)	5 (0.20)	86 (3.39)	88 (3.46)	6 (0.24)	88 (3.46)	90 (3.54)	14 (0.55)	90 (3.54)	93 (3.66)	39 (1.54)	93 (3.66)	93 (3.66)	50 (1.97)	50 (1.97)
May	114 (4.49)	42 (1.65)	115 (4.53)	119 (4.69)	48 (1.89)	119 (4.69)	122 (4.80)	61 (2.40)	122 (4.80)	124 (4.88)	73 (2.87)	124 (4.88)	127 (5.00)	73 (2.87)	127 (5.00)	127 (5.00)	80 (3.15)	80 (3.15)
June	126 (4.96)	65 (2.56)	128 (5.04)	130 (5.12)	82 (3.23)	130 (5.12)	133 (5.24)	99 (3.90)	133 (5.24)	135 (5.31)	112 (4.41)	135 (5.31)	136 (5.35)	112 (4.41)	136 (5.35)	136 (5.35)	120 (4.72)	120 (4.72)
July	145 (5.71)	127 (5.00)	147 (5.79)	148 (5.83)	135 (5.31)	148 (5.83)	150 (5.91)	145 (5.71)	150 (5.91)	152 (5.98)	152 (5.98)	152 (5.98)	158 (6.22)	152 (5.98)	158 (6.22)	158 (6.22)	156 (6.14)	156 (6.14)
Aug	121 (4.76)	101 (3.98)	122 (4.80)	124 (4.88)	108 (4.25)	124 (4.88)	127 (5.00)	120 (4.72)	127 (5.00)	126 (4.96)	132 (5.20)	132 (5.20)	137 (5.39)	126 (4.96)	137 (5.39)	137 (5.39)	132 (5.20)	132 (5.20)
Sep	92 (3.62)	33 (1.30)	96 (3.78)	97 (3.82)	44 (1.73)	97 (3.82)	99 (3.90)	68 (2.68)	99 (3.90)	101 (3.98)	87 (3.43)	101 (3.98)	102 (4.02)	87 (3.43)	102 (4.02)	102 (4.02)	95 (3.74)	95 (3.74)
Oct	58 (2.28)	4 (0.16)	60 (2.36)	60 (2.36)	5 (0.20)	60 (2.36)	61 (2.40)	6 (0.24)	61 (2.40)	63 (2.48)	22 (0.87)	63 (2.48)	64 (2.52)	22 (0.87)	64 (2.52)	64 (2.52)	41 (1.61)	41 (1.61)
Nov	9 (0.35)	0 (0.00)	10 (0.39)	10 (0.39)	0 (0.00)	10 (0.39)	11 (0.43)	0 (0.00)	11 (0.43)	12 (0.47)	0 (0.00)	12 (0.47)	12 (0.47)	0 (0.00)	12 (0.47)	12 (0.47)	0 (0.00)	0 (0.00)
Season	780 (30.70)	377 (14.85)	797 (31.38)	811 (31.94)	428 (16.85)	811 (31.94)	832 (32.75)	514 (20.24)	832 (32.75)	612 (24.10)	851 (33.49)	851 (33.49)	874 (34.40)	612 (24.10)	874 (34.40)	874 (34.40)	684 (26.92)	684 (26.92)

REGION: 3 Columbia River below Hood River  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	mm	ET crop in.	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm
March	43 (1.69)	0 (0.00)	44 (1.73)	45 (1.77)	0 (0.00)	48 (1.89)	50 (1.97)	1 (0.04)	53 (2.09)	3 (0.12)								
April	74 (2.91)	3 (0.12)	76 (2.99)	79 (3.11)	4 (0.16)	81 (3.19)	83 (3.27)	7 (0.28)	85 (3.35)	35 (1.38)								
May	114 (4.49)	41 (1.61)	115 (4.53)	119 (4.69)	49 (1.93)	122 (4.80)	124 (4.88)	60 (2.36)	127 (5.00)	72 (2.83)								
June	138 (5.43)	76 (2.99)	140 (5.51)	143 (5.63)	92 (3.62)	146 (5.75)	149 (5.87)	112 (4.41)	150 (5.91)	125 (4.92)								
July	162 (6.38)	143 (5.63)	164 (6.46)	165 (6.50)	152 (5.98)	167 (6.57)	168 (6.61)	163 (6.42)	176 (6.93)	174 (6.85)								
Aug	139 (5.47)	114 (4.49)	140 (5.51)	141 (5.55)	120 (4.72)	143 (5.63)	148 (5.83)	134 (5.28)	150 (5.91)	147 (5.79)								
Sep	100 (3.94)	38 (1.50)	101 (3.98)	103 (4.06)	47 (1.85)	104 (4.09)	107 (4.21)	74 (2.91)	108 (4.25)	100 (3.94)								
Oct	50 (1.97)	3 (0.12)	51 (2.01)	52 (2.05)	4 (0.16)	52 (2.05)	54 (2.13)	5 (0.20)	54 (2.13)	17 (0.67)								
Nov	16 (0.63)	0 (0.00)	16 (0.63)	17 (0.67)	0 (0.00)	19 (0.75)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)								
Season	836 (32.91)	418 (16.46)	847 (33.35)	864 (34.03)	468 (18.42)	882 (34.72)	903 (35.56)	512 (20.17)	923 (36.36)	651 (25.62)								

REGION: 3 Columbia River below Hood River  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	mm	ET crop in.	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm	ET crop mm	Net IRR in.	mm
March	34 (1.34)	0 (0.00)	35 (1.38)	36 (1.42)	0 (0.00)	36 (1.42)	37 (1.46)	0 (0.00)	41 (1.61)	0 (0.00)								
April	81 (3.19)	4 (0.16)	83 (3.27)	86 (3.39)	5 (0.20)	88 (3.46)	91 (3.58)	14 (0.55)	93 (3.66)	40 (1.57)								
May	129 (5.08)	56 (2.20)	130 (5.12)	134 (5.28)	62 (2.44)	138 (5.43)	141 (5.55)	72 (2.83)	143 (5.65)	83 (3.27)								
June	53 (2.09)	31 (1.22)	54 (2.13)	55 (2.17)	36 (1.42)	57 (2.24)	58 (2.28)	45 (1.77)	59 (2.32)	50 (1.97)								
Season	297 (11.70)	91 (3.58)	302 (11.90)	311 (12.26)	103 (4.06)	319 (12.55)	327 (12.87)	131 (5.15)	336 (13.22)	173 (6.81)								

REGION: 3 Columbia River below Hood River  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	
March	43 (1.69)	0 (0.00)	44 (1.73)	0 (0.00)	45 (1.77)	0 (0.00)	48 (1.89)	1 (0.04)	50 (1.97)	1 (0.04)	53 (2.09)	3 (0.12)	53 (2.09)	3 (0.12)	53 (2.09)	3 (0.12)	53 (2.09)	3 (0.12)	53 (2.09)
April	74 (2.91)	3 (0.12)	76 (2.99)	4 (0.16)	79 (3.11)	5 (0.20)	81 (3.19)	7 (0.28)	83 (3.27)	7 (0.28)	85 (3.35)	46 (1.81)	85 (3.35)	46 (1.81)	85 (3.35)	46 (1.81)	85 (3.35)	46 (1.81)	85 (3.35)
May	114 (4.49)	41 (1.61)	115 (4.53)	49 (1.93)	119 (4.69)	55 (2.17)	122 (4.80)	60 (2.36)	124 (4.88)	60 (2.36)	127 (5.00)	79 (3.11)	127 (5.00)	79 (3.11)	127 (5.00)	79 (3.11)	127 (5.00)	79 (3.11)	127 (5.00)
June	138 (5.43)	76 (2.99)	140 (5.51)	92 (3.62)	143 (5.63)	103 (4.06)	146 (5.75)	112 (4.41)	149 (5.87)	125 (4.92)	150 (5.91)	133 (5.24)	150 (5.91)	133 (5.24)	150 (5.91)	133 (5.24)	150 (5.91)	133 (5.24)	150 (5.91)
July	162 (6.38)	143 (5.63)	164 (6.46)	152 (5.98)	165 (6.50)	157 (6.18)	167 (6.57)	163 (6.42)	168 (6.61)	168 (6.61)	176 (6.93)	174 (6.85)	176 (6.93)	174 (6.85)	176 (6.93)	174 (6.85)	176 (6.93)	174 (6.85)	176 (6.93)
Aug	139 (5.47)	114 (4.49)	140 (5.51)	120 (4.72)	141 (5.55)	127 (5.00)	143 (5.63)	134 (5.28)	148 (5.83)	140 (5.51)	150 (5.91)	147 (5.79)	150 (5.91)	147 (5.79)	150 (5.91)	147 (5.79)	150 (5.91)	147 (5.79)	150 (5.91)
Sep	100 (3.94)	38 (1.50)	101 (3.98)	47 (1.85)	103 (4.06)	61 (2.40)	104 (4.09)	74 (2.91)	107 (4.21)	93 (3.66)	108 (4.25)	100 (3.94)	108 (4.25)	100 (3.94)	108 (4.25)	100 (3.94)	108 (4.25)	100 (3.94)	108 (4.25)
Oct	50 (1.97)	3 (0.12)	51 (2.01)	4 (0.16)	52 (2.05)	4 (0.16)	52 (2.05)	5 (0.20)	54 (2.13)	17 (0.67)	54 (2.13)	32 (1.26)	54 (2.13)	32 (1.26)	54 (2.13)	32 (1.26)	54 (2.13)	32 (1.26)	54 (2.13)
Nov	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	19 (0.75)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)
Season	836 (32.91)	418 (16.46)	847 (33.35)	468 (18.42)	864 (34.03)	512 (20.17)	882 (34.72)	556 (21.90)	903 (35.56)	651 (25.62)	923 (36.36)	714 (28.12)	923 (36.36)	714 (28.12)	923 (36.36)	714 (28.12)	923 (36.36)	714 (28.12)	923 (36.36)

REGION: 3 Columbia River below Hood River  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	
April	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	7 (0.28)	3 (0.12)	7 (0.28)	3 (0.12)	7 (0.28)	3 (0.12)	7 (0.28)	3 (0.12)	7 (0.28)
May	52 (2.05)	3 (0.12)	53 (2.09)	3 (0.12)	54 (2.13)	4 (0.16)	54 (2.13)	7 (0.28)	55 (2.17)	7 (0.28)	55 (2.17)	26 (1.02)	55 (2.17)	26 (1.02)	55 (2.17)	26 (1.02)	55 (2.17)	26 (1.02)	55 (2.17)
June	95 (3.74)	41 (1.61)	97 (3.82)	55 (2.17)	99 (3.90)	66 (2.60)	101 (3.98)	73 (2.87)	103 (4.06)	84 (3.31)	104 (4.09)	90 (3.54)	104 (4.09)	90 (3.54)	104 (4.09)	90 (3.54)	104 (4.09)	90 (3.54)	104 (4.09)
July	160 (6.30)	144 (5.67)	161 (6.34)	152 (5.98)	162 (6.38)	156 (6.14)	163 (6.42)	160 (6.30)	169 (6.65)	163 (6.42)	172 (6.77)	170 (6.69)	172 (6.77)	170 (6.69)	172 (6.77)	170 (6.69)	172 (6.77)	170 (6.69)	172 (6.77)
Aug	142 (5.59)	119 (4.69)	143 (5.63)	125 (4.92)	144 (5.67)	132 (5.20)	146 (5.75)	138 (5.43)	151 (5.94)	144 (5.67)	153 (6.02)	150 (5.91)	153 (6.02)	150 (5.91)	153 (6.02)	150 (5.91)	153 (6.02)	150 (5.91)	153 (6.02)
Sep	96 (3.78)	42 (1.65)	97 (3.82)	51 (2.01)	99 (3.90)	60 (2.36)	101 (3.98)	74 (2.91)	103 (4.06)	89 (3.50)	104 (4.09)	97 (3.82)	104 (4.09)	97 (3.82)	104 (4.09)	97 (3.82)	104 (4.09)	97 (3.82)	104 (4.09)
Oct	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	15 (0.59)	2 (0.08)	16 (0.63)	6 (0.24)	16 (0.63)	12 (0.47)	16 (0.63)	12 (0.47)	16 (0.63)	12 (0.47)	16 (0.63)	12 (0.47)	16 (0.63)
Season	566 (22.29)	350 (13.78)	572 (22.53)	387 (15.24)	579 (22.81)	419 (16.50)	586 (23.09)	454 (17.87)	604 (23.79)	506 (19.93)	611 (24.05)	548 (21.57)	611 (24.05)	548 (21.57)	611 (24.05)	548 (21.57)	611 (24.05)	548 (21.57)	611 (24.05)



REGION: 3 Columbia River below Hood River  
CROP: Tomatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
May	51 (2.01)	2 (0.08)	51 (2.01)	2 (0.08)	51 (2.01)	3 (0.12)	52 (2.05)	3 (0.12)	53 (2.09)	17 (0.67)	53 (2.09)	17 (0.67)	53 (2.09)	17 (0.67)	53 (2.09)	21 (0.83)	53 (2.09)	21 (0.83)
June	118 (4.65)	57 (2.24)	120 (4.72)	74 (2.91)	122 (4.80)	84 (3.31)	125 (4.92)	92 (3.62)	127 (5.00)	105 (4.13)	128 (5.04)	105 (4.13)	128 (5.04)	105 (4.13)	128 (5.04)	112 (4.41)	128 (5.04)	112 (4.41)
July	167 (6.57)	150 (5.91)	168 (6.61)	159 (6.26)	173 (6.81)	164 (6.46)	174 (6.85)	170 (6.69)	175 (6.89)	175 (6.89)	181 (7.13)	175 (6.89)	181 (7.13)	175 (6.89)	181 (7.13)	181 (7.13)	181 (7.13)	181 (7.13)
Aug	72 (2.83)	60 (2.36)	73 (2.87)	64 (2.52)	75 (2.95)	68 (2.68)	77 (3.03)	71 (2.80)	78 (3.07)	75 (2.95)	79 (3.11)	75 (2.95)	79 (3.11)	75 (2.95)	79 (3.11)	79 (3.11)	79 (3.11)	79 (3.11)
Season	408 (16.06)	269 (10.59)	412 (16.21)	299 (11.77)	421 (16.57)	319 (12.57)	428 (16.85)	336 (13.23)	433 (17.05)	372 (14.64)	441 (17.37)	372 (14.64)	441 (17.37)	372 (14.64)	441 (17.37)	393 (15.48)	441 (17.37)	393 (15.48)

REGION: 4 Tualatin Valley  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
April	52 (2.05)	13 (0.51)	53 (2.09)	18 (0.71)	54 (2.13)	23 (0.91)	55 (2.17)	28 (1.10)	56 (2.20)	40 (1.57)	57 (2.24)	40 (1.57)	57 (2.24)	40 (1.57)	57 (2.24)	45 (1.77)	57 (2.24)	45 (1.77)
May	102 (4.02)	59 (2.32)	104 (4.09)	67 (2.64)	106 (4.17)	71 (2.80)	108 (4.25)	75 (2.95)	110 (4.33)	84 (3.31)	112 (4.41)	84 (3.31)	112 (4.41)	84 (3.31)	112 (4.41)	91 (3.58)	112 (4.41)	91 (3.58)
June	110 (4.33)	77 (3.03)	112 (4.41)	87 (3.43)	115 (4.53)	93 (3.66)	118 (4.65)	99 (3.90)	119 (4.69)	110 (4.53)	121 (4.76)	110 (4.53)	121 (4.76)	110 (4.53)	121 (4.76)	114 (4.49)	121 (4.76)	114 (4.49)
July	126 (4.96)	116 (4.57)	127 (5.00)	121 (4.76)	128 (5.04)	124 (4.88)	129 (5.08)	127 (5.00)	131 (5.16)	129 (5.08)	134 (5.28)	129 (5.08)	134 (5.28)	129 (5.08)	134 (5.28)	133 (5.24)	134 (5.28)	133 (5.24)
Aug	108 (4.25)	99 (3.90)	112 (4.41)	102 (4.02)	113 (4.45)	106 (4.17)	114 (4.49)	109 (4.29)	117 (4.61)	114 (4.49)	119 (4.69)	114 (4.49)	119 (4.69)	114 (4.49)	119 (4.69)	118 (4.65)	119 (4.69)	118 (4.65)
Sep	83 (3.27)	47 (1.85)	83 (3.27)	53 (2.09)	86 (3.39)	60 (2.36)	87 (3.43)	70 (2.76)	89 (3.50)	82 (3.23)	89 (3.50)	82 (3.23)	89 (3.50)	82 (3.23)	89 (3.50)	87 (3.43)	89 (3.50)	87 (3.43)
Oct	49 (1.93)	3 (0.12)	49 (1.93)	4 (0.16)	50 (1.97)	4 (0.16)	50 (1.97)	5 (0.20)	53 (2.09)	19 (0.75)	54 (2.13)	19 (0.75)	54 (2.13)	19 (0.75)	54 (2.13)	36 (1.42)	54 (2.13)	36 (1.42)
Nov	4 (0.16)	0 (0.00)	4 (0.16)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)
Season	634 (24.97)	414 (16.30)	644 (25.36)	452 (17.81)	657 (25.88)	481 (18.94)	666 (26.24)	513 (20.20)	680 (26.78)	578 (22.76)	691 (27.21)	578 (22.76)	691 (27.21)	578 (22.76)	691 (27.21)	624 (24.58)	691 (27.21)	624 (24.58)

REGION: 4 Tualatin Valley  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	41 (1.61)	2 (0.08)	43 (1.69)	2 (0.08)	44 (1.73)	2 (0.08)	47 (1.85)	3 (0.12)	48 (1.89)	3 (0.12)	51 (2.01)	7 (0.28)	51 (2.01)	7 (0.28)	51 (2.01)	7 (0.28)		
April	78 (3.07)	20 (0.79)	79 (3.11)	27 (1.06)	80 (3.15)	35 (1.38)	82 (3.23)	43 (1.69)	83 (3.27)	60 (2.36)	85 (3.35)	67 (2.64)	85 (3.35)	67 (2.64)	85 (3.35)	67 (2.64)		
May	122 (4.80)	77 (3.03)	123 (4.84)	83 (3.27)	125 (4.92)	89 (3.50)	128 (5.04)	97 (3.82)	130 (5.12)	107 (4.21)	136 (5.35)	113 (4.45)	136 (5.35)	113 (4.45)	136 (5.35)	113 (4.45)		
June	144 (5.67)	108 (4.25)	147 (5.79)	119 (4.69)	150 (5.91)	126 (4.96)	154 (6.06)	132 (5.20)	156 (6.14)	146 (5.75)	158 (6.22)	150 (5.91)	158 (6.22)	150 (5.91)	158 (6.22)	150 (5.91)		
July	166 (6.54)	155 (6.10)	168 (6.61)	159 (6.26)	170 (6.69)	164 (6.46)	171 (6.73)	168 (6.61)	174 (6.85)	173 (6.81)	178 (7.01)	177 (6.97)	178 (7.01)	177 (6.97)	178 (7.01)	177 (6.97)		
Aug	143 (5.63)	131 (5.16)	148 (5.83)	137 (5.39)	150 (5.91)	141 (5.55)	152 (5.98)	145 (5.71)	155 (6.10)	150 (5.91)	158 (6.22)	156 (6.14)	158 (6.22)	156 (6.14)	158 (6.22)	156 (6.14)		
Sep	104 (4.09)	62 (2.44)	105 (4.13)	69 (2.72)	109 (4.29)	77 (3.03)	110 (4.33)	93 (3.66)	112 (4.41)	103 (4.06)	113 (4.45)	109 (4.29)	113 (4.45)	109 (4.29)	113 (4.45)	109 (4.29)		
Oct	48 (1.89)	3 (0.12)	48 (1.89)	4 (0.16)	49 (1.93)	4 (0.16)	49 (1.93)	5 (0.20)	52 (2.05)	18 (0.71)	53 (2.09)	35 (1.38)	53 (2.09)	35 (1.38)	53 (2.09)	35 (1.38)		
Nov	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)		
Season	860 (33.85)	558 (21.97)	876 (34.48)	600 (23.63)	893 (35.16)	638 (25.12)	910 (35.82)	686 (27.01)	927 (36.50)	760 (29.93)	950 (37.41)	814 (32.06)	950 (37.41)	814 (32.06)	950 (37.41)	814 (32.06)		

REGION: 4 Tualatin Valley  
CROP: Beans (Dry Field)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	59 (2.32)	24 (0.94)	60 (2.36)	27 (1.06)	61 (2.40)	30 (1.18)	62 (2.44)	36 (1.42)	63 (2.48)	42 (1.65)	64 (2.52)	47 (1.85)	64 (2.52)	47 (1.85)	64 (2.52)	47 (1.85)		
June	119 (4.69)	85 (3.35)	120 (4.72)	95 (3.74)	123 (4.84)	101 (3.98)	126 (4.96)	108 (4.25)	128 (5.04)	119 (4.69)	129 (5.08)	123 (4.84)	129 (5.08)	123 (4.84)	129 (5.08)	123 (4.84)		
July	104 (4.09)	96 (3.78)	105 (4.13)	99 (3.90)	106 (4.17)	102 (4.02)	107 (4.21)	105 (4.13)	108 (4.25)	107 (4.21)	113 (4.45)	110 (4.33)	113 (4.45)	110 (4.33)	113 (4.45)	110 (4.33)		
Season	282 (11.10)	205 (8.07)	285 (11.21)	221 (8.70)	290 (11.41)	233 (9.18)	295 (11.61)	249 (9.80)	299 (11.77)	268 (10.55)	306 (12.05)	280 (11.02)	306 (12.05)	280 (11.02)	306 (12.05)	280 (11.02)		

REGION: 4 Tuatatin Valley  
CROP: Berries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.
May	63 (2.48)	26 (1.02)	30 (1.18)	63 (2.48)	30 (1.18)	34 (1.34)	64 (2.52)	34 (1.34)	38 (1.50)	65 (2.56)	38 (1.50)	67 (2.64)	67 (2.64)	45 (1.77)	68 (2.68)	45 (1.77)	68 (2.68)	50 (1.97)
June	78 (3.07)	44 (1.73)	52 (2.05)	79 (3.11)	52 (2.05)	61 (2.40)	81 (3.19)	61 (2.40)	67 (2.64)	83 (3.27)	67 (2.64)	84 (3.31)	84 (3.31)	76 (2.99)	85 (3.35)	76 (2.99)	85 (3.35)	80 (3.15)
July	98 (3.86)	89 (3.50)	94 (3.70)	99 (3.90)	94 (3.70)	97 (3.82)	100 (3.94)	97 (3.82)	100 (3.94)	101 (3.98)	100 (3.94)	103 (4.06)	103 (4.06)	103 (4.06)	107 (4.21)	103 (4.06)	107 (4.21)	106 (4.17)
Aug	86 (3.39)	78 (3.07)	80 (3.15)	88 (3.46)	80 (3.15)	83 (3.27)	90 (3.54)	83 (3.27)	86 (3.39)	91 (3.58)	86 (3.39)	93 (3.66)	93 (3.66)	90 (3.54)	94 (3.70)	90 (3.54)	94 (3.70)	94 (3.70)
Sep	65 (2.56)	31 (1.22)	36 (1.42)	66 (2.60)	36 (1.42)	41 (1.61)	68 (2.68)	41 (1.61)	51 (2.01)	69 (2.72)	51 (2.01)	70 (2.76)	70 (2.76)	65 (2.56)	71 (2.80)	65 (2.56)	71 (2.80)	69 (2.72)
Oct	39 (1.54)	2 (0.08)	3 (0.12)	39 (1.54)	3 (0.12)	3 (0.12)	39 (1.54)	3 (0.12)	4 (0.16)	40 (1.57)	4 (0.16)	42 (1.65)	42 (1.65)	11 (0.43)	43 (1.69)	11 (0.43)	43 (1.69)	28 (1.10)
Nov	9 (0.35)	0 (0.00)	0 (0.00)	9 (0.35)	0 (0.00)	0 (0.00)	9 (0.35)	0 (0.00)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)
Season	438 (17.25)	270 (10.62)	295 (11.62)	443 (17.44)	295 (11.62)	319 (12.56)	452 (17.80)	319 (12.56)	346 (13.64)	460 (18.11)	346 (13.64)	470 (18.51)	470 (18.51)	390 (15.35)	479 (18.86)	390 (15.35)	479 (18.86)	427 (16.81)

REGION: 4 Tuatatin Valley  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.
March	41 (1.61)	2 (0.08)	2 (0.08)	43 (1.69)	2 (0.08)	2 (0.08)	44 (1.73)	2 (0.08)	3 (0.12)	47 (1.85)	3 (0.12)	48 (1.89)	48 (1.89)	3 (0.12)	51 (2.01)	3 (0.12)	51 (2.01)	7 (0.28)
April	78 (3.07)	20 (0.79)	27 (1.06)	79 (3.11)	27 (1.06)	35 (1.38)	80 (3.15)	35 (1.38)	43 (1.69)	82 (3.23)	43 (1.69)	83 (3.27)	83 (3.27)	60 (2.36)	85 (3.35)	60 (2.36)	85 (3.35)	67 (2.64)
May	122 (4.80)	77 (3.03)	83 (3.27)	123 (4.84)	83 (3.27)	89 (3.50)	125 (4.92)	89 (3.50)	97 (3.82)	128 (5.04)	97 (3.82)	130 (5.12)	130 (5.12)	107 (4.21)	136 (5.35)	107 (4.21)	136 (5.35)	113 (4.45)
June	144 (5.67)	108 (4.25)	119 (4.69)	147 (5.79)	119 (4.69)	126 (4.96)	150 (5.91)	126 (4.96)	132 (5.20)	154 (6.06)	132 (5.20)	156 (6.14)	156 (6.14)	146 (5.75)	158 (6.22)	146 (5.75)	158 (6.22)	150 (5.91)
July	166 (6.54)	155 (6.10)	168 (6.26)	168 (6.61)	159 (6.26)	164 (6.46)	170 (6.69)	164 (6.46)	171 (6.73)	171 (6.73)	168 (6.61)	174 (6.85)	174 (6.85)	173 (6.81)	178 (7.01)	173 (6.81)	178 (7.01)	177 (6.97)
Aug	143 (5.63)	131 (5.16)	148 (5.39)	148 (5.83)	137 (5.39)	141 (5.55)	150 (5.91)	141 (5.55)	145 (5.71)	152 (5.98)	145 (5.71)	155 (6.10)	155 (6.10)	150 (5.91)	158 (6.22)	150 (5.91)	158 (6.22)	156 (6.14)
Sep	104 (4.09)	62 (2.44)	69 (2.72)	105 (4.13)	69 (2.72)	77 (3.03)	109 (4.29)	77 (3.03)	93 (3.66)	110 (4.33)	93 (3.66)	112 (4.41)	112 (4.41)	103 (4.06)	113 (4.45)	103 (4.06)	113 (4.45)	109 (4.29)
Oct	48 (1.89)	3 (0.12)	4 (0.16)	48 (1.89)	4 (0.16)	4 (0.16)	49 (1.93)	4 (0.16)	5 (0.20)	49 (1.93)	5 (0.20)	52 (2.05)	52 (2.05)	18 (0.71)	53 (2.09)	18 (0.71)	53 (2.09)	35 (1.38)
Nov	14 (0.55)	0 (0.00)	0 (0.00)	15 (0.59)	0 (0.00)	0 (0.00)	16 (0.63)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)
Season	860 (33.85)	558 (21.97)	600 (23.63)	876 (34.48)	600 (23.63)	638 (25.12)	893 (35.16)	638 (25.12)	686 (27.01)	910 (35.82)	686 (27.01)	927 (36.50)	927 (36.50)	760 (29.93)	950 (37.41)	760 (29.93)	950 (37.41)	814 (32.06)

REGION: 4 Tualatin Valley  
CROP: Corn (Field)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	23 (0.91)	1 (0.04)	23 (0.91)	2 (0.08)	23 (0.91)	2 (0.08)	23 (0.91)	3 (0.91)	24 (0.94)	8 (0.31)	24 (0.94)	8 (0.31)	24 (0.94)	8 (0.31)	24 (0.94)	12 (0.47)		
June	63 (2.48)	36 (1.42)	65 (2.56)	42 (1.65)	66 (2.60)	47 (1.85)	68 (2.68)	53 (2.09)	70 (2.76)	59 (2.32)	70 (2.76)	59 (2.32)	70 (2.76)	59 (2.32)	70 (2.76)	63 (2.48)		
July	144 (5.67)	134 (5.28)	146 (5.75)	138 (5.43)	147 (5.79)	142 (5.59)	149 (5.87)	146 (5.75)	151 (5.94)	150 (5.91)	151 (5.94)	150 (5.91)	155 (6.10)	150 (5.91)	155 (6.10)	155 (6.10)		
Aug	132 (5.20)	121 (4.76)	133 (5.24)	126 (4.96)	135 (5.31)	130 (5.12)	137 (5.39)	133 (5.24)	143 (5.63)	137 (5.39)	143 (5.63)	137 (5.39)	145 (5.71)	137 (5.39)	145 (5.71)	143 (5.63)		
Sep	47 (1.85)	24 (0.94)	47 (1.85)	29 (1.14)	49 (1.93)	33 (1.30)	50 (1.97)	39 (1.54)	50 (1.97)	47 (1.85)	50 (1.97)	47 (1.85)	51 (2.01)	47 (1.85)	51 (2.01)	49 (1.93)		
Season	409 (16.11)	316 (12.44)	414 (16.31)	337 (13.26)	420 (16.54)	354 (13.94)	427 (16.82)	374 (14.74)	438 (17.24)	401 (15.78)	445 (17.52)	422 (16.61)	445 (17.52)	401 (15.78)	445 (17.52)	422 (16.61)		

REGION: 4 Tualatin Valley  
CROP: Corn (Silage)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	31 (1.22)	3 (0.12)	31 (1.22)	4 (0.16)	31 (1.22)	7 (0.28)	32 (1.26)	11 (0.43)	32 (1.26)	17 (0.67)	32 (1.26)	17 (0.67)	33 (1.30)	17 (0.67)	33 (1.30)	20 (0.79)		
June	94 (3.70)	64 (2.52)	96 (3.78)	71 (2.80)	99 (3.90)	77 (3.03)	102 (4.02)	83 (3.27)	103 (4.06)	93 (3.66)	104 (4.09)	97 (3.82)	104 (4.09)	93 (3.66)	104 (4.09)	97 (3.82)		
July	154 (6.06)	144 (5.67)	156 (6.14)	149 (5.87)	157 (6.18)	153 (6.02)	159 (6.26)	157 (6.18)	161 (6.34)	160 (6.30)	168 (6.61)	164 (6.46)	168 (6.61)	160 (6.30)	168 (6.61)	164 (6.46)		
Aug	131 (5.16)	120 (4.72)	132 (5.20)	126 (4.96)	134 (5.28)	129 (5.08)	139 (5.47)	133 (5.24)	142 (5.59)	138 (5.43)	144 (5.67)	143 (5.63)	144 (5.67)	138 (5.43)	144 (5.67)	143 (5.63)		
Sep	25 (0.98)	17 (0.67)	25 (0.98)	19 (0.75)	26 (1.02)	21 (0.83)	27 (1.06)	23 (0.91)	27 (1.06)	26 (1.02)	27 (1.06)	26 (1.02)	27 (1.06)	26 (1.02)	27 (1.06)	27 (1.06)		
Season	435 (17.12)	348 (13.70)	440 (17.32)	369 (14.54)	447 (17.60)	387 (15.24)	459 (18.07)	407 (16.03)	465 (18.31)	434 (17.08)	476 (18.73)	451 (17.76)	476 (18.73)	434 (17.08)	476 (18.73)	451 (17.76)		

REGION: 4 Tualatin Valley  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET mm	ET crop in.	Net IRR in.	ET mm	ET crop in.	Net IRR in.	ET mm	ET crop in.	Net IRR in.	ET mm	ET crop in.	Net IRR in.	ET mm	ET crop in.	Net IRR in.	ET mm	ET crop in.	Net IRR in.						
May	37	( 1.46)	16	( 0.63)	38	( 1.50)	18	( 0.71)	38	( 1.50)	21	( 0.83)	39	( 1.54)	23	( 0.91)	39	( 1.54)	27	( 1.06)	40	( 1.57)	30	( 1.18)
June	95	( 3.74)	64	( 2.52)	96	( 3.78)	72	( 2.83)	99	( 3.90)	77	( 3.03)	101	( 3.98)	83	( 3.27)	103	( 4.06)	93	( 3.66)	104	( 4.09)	97	( 3.82)
July	154	( 6.06)	144	( 5.67)	156	( 6.14)	148	( 5.83)	157	( 6.18)	152	( 5.98)	159	( 6.26)	156	( 6.14)	161	( 6.34)	160	( 6.30)	165	( 6.50)	164	( 6.46)
Aug	134	( 5.28)	123	( 4.84)	135	( 5.31)	128	( 5.04)	137	( 5.39)	132	( 5.20)	142	( 5.59)	136	( 5.35)	145	( 5.71)	141	( 5.55)	147	( 5.79)	146	( 5.75)
Sep	32	( 1.26)	22	( 0.87)	33	( 1.30)	24	( 0.94)	33	( 1.30)	25	( 0.98)	34	( 1.34)	30	( 1.18)	34	( 1.34)	33	( 1.30)	35	( 1.38)	34	( 1.34)
Season	452	( 17.80)	369	( 14.53)	458	( 18.03)	390	( 15.35)	464	( 18.27)	407	( 16.02)	475	( 18.71)	428	( 16.85)	482	( 18.99)	454	( 17.87)	491	( 19.33)	471	( 18.55)

REGION: 4 Tualatin Valley  
CROP: Filberts

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET mm	ET crop in.	Net IRR in.	ET mm	ET crop in.	Net IRR in.	ET mm	ET crop in.	Net IRR in.	ET mm	ET crop in.	Net IRR in.	ET mm	ET crop in.	Net IRR in.	ET mm	ET crop in.	Net IRR in.						
March	41	( 1.61)	2	( 0.08)	43	( 1.69)	2	( 0.08)	44	( 1.73)	2	( 0.08)	47	( 1.85)	3	( 0.12)	48	( 1.89)	3	( 0.12)	51	( 2.01)	7	( 0.28)
April	78	( 3.07)	20	( 0.79)	79	( 3.11)	27	( 1.06)	80	( 3.15)	35	( 1.38)	82	( 3.23)	43	( 1.69)	83	( 3.27)	60	( 2.36)	85	( 3.35)	67	( 2.84)
May	122	( 4.80)	77	( 3.03)	123	( 4.84)	83	( 3.27)	125	( 4.92)	89	( 3.50)	128	( 5.04)	97	( 3.82)	130	( 5.12)	107	( 4.21)	136	( 5.35)	113	( 4.45)
June	144	( 5.67)	108	( 4.25)	147	( 5.79)	119	( 4.69)	150	( 5.91)	126	( 4.96)	154	( 6.06)	132	( 5.20)	156	( 6.14)	146	( 5.75)	158	( 6.22)	150	( 5.91)
July	166	( 6.54)	155	( 6.10)	168	( 6.61)	159	( 6.26)	170	( 6.69)	164	( 6.46)	171	( 6.73)	168	( 6.61)	174	( 6.85)	173	( 6.81)	178	( 7.01)	177	( 6.97)
Aug	143	( 5.63)	131	( 5.16)	148	( 5.83)	137	( 5.39)	150	( 5.91)	141	( 5.55)	152	( 5.98)	145	( 5.71)	155	( 6.10)	150	( 5.91)	158	( 6.22)	156	( 6.14)
Sep	104	( 4.09)	62	( 2.44)	105	( 4.13)	69	( 2.72)	109	( 4.29)	77	( 3.03)	110	( 4.33)	93	( 3.66)	112	( 4.41)	103	( 4.06)	113	( 4.45)	109	( 4.29)
Oct	48	( 1.89)	3	( 0.12)	48	( 1.89)	4	( 0.16)	49	( 1.93)	4	( 0.20)	49	( 1.93)	5	( 0.20)	52	( 2.05)	18	( 0.71)	53	( 2.09)	35	( 1.38)
Nov	14	( 0.55)	0	( 0.00)	15	( 0.59)	0	( 0.00)	16	( 0.63)	0	( 0.00)	17	( 0.67)	0	( 0.00)	17	( 0.67)	0	( 0.00)	18	( 0.71)	0	( 0.00)
Season	860	( 33.85)	558	( 21.97)	876	( 34.48)	600	( 23.63)	893	( 35.16)	638	( 25.12)	910	( 35.82)	686	( 27.01)	927	( 36.50)	760	( 29.93)	950	( 37.41)	814	( 32.06)

REGION: 4 Tualatin Valley  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	
March	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	19 (0.75)	1 (0.04)	19 (0.75)	1 (0.04)	19 (0.75)	1 (0.04)	19 (0.75)	1 (0.04)	1 (0.04)
April	54 (2.13)	4 (0.16)	56 (2.20)	8 (0.31)	57 (2.24)	13 (0.51)	58 (2.28)	18 (0.71)	59 (2.32)	38 (1.50)	59 (2.32)	38 (1.50)	59 (2.32)	38 (1.50)	59 (2.32)	38 (1.50)	59 (2.32)	38 (1.50)	45 (1.77)
May	105 (4.13)	64 (2.52)	106 (4.17)	70 (2.76)	108 (4.25)	74 (2.91)	110 (4.33)	77 (3.03)	112 (4.41)	88 (3.46)	112 (4.41)	88 (3.46)	112 (4.41)	88 (3.46)	112 (4.41)	88 (3.46)	112 (4.41)	88 (3.46)	96 (3.78)
June	136 (5.35)	99 (3.90)	138 (5.43)	111 (4.37)	141 (5.55)	118 (4.65)	144 (5.67)	123 (4.84)	147 (5.79)	136 (5.35)	147 (5.79)	136 (5.35)	147 (5.79)	136 (5.35)	147 (5.79)	136 (5.35)	147 (5.79)	136 (5.35)	141 (5.55)
July	136 (5.35)	126 (4.96)	137 (5.39)	131 (5.16)	138 (5.43)	135 (5.31)	140 (5.51)	139 (5.47)	142 (5.59)	142 (5.59)	142 (5.59)	142 (5.59)	142 (5.59)	142 (5.59)	142 (5.59)	142 (5.59)	142 (5.59)	142 (5.59)	145 (5.71)
Aug	15 (0.59)	14 (0.55)	15 (0.59)	14 (0.55)	15 (0.59)	15 (0.59)	16 (0.63)	15 (0.59)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)
Season	462 (18.18)	308 (12.13)	469 (18.45)	335 (13.19)	477 (18.77)	356 (14.01)	486 (19.13)	373 (14.68)	495 (19.49)	421 (16.57)	495 (19.49)	421 (16.57)	495 (19.49)	421 (16.57)	495 (19.49)	421 (16.57)	495 (19.49)	421 (16.57)	444 (17.48)

REGION: 4 Tualatin Valley  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years				
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.
March	28 (1.10)	1 (0.04)	28 (1.10)	1 (0.04)	29 (1.14)	1 (0.04)	30 (1.18)	1 (0.04)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	2 (0.08)	2 (0.08)
April	57 (2.24)	5 (0.20)	58 (2.28)	9 (0.35)	60 (2.36)	15 (0.59)	61 (2.40)	20 (0.79)	63 (2.48)	40 (1.57)	63 (2.48)	40 (1.57)	63 (2.48)	40 (1.57)	63 (2.48)	40 (1.57)	63 (2.48)	40 (1.57)	48 (1.89)	
May	108 (4.25)	67 (2.64)	109 (4.29)	72 (2.83)	111 (4.37)	75 (2.95)	113 (4.45)	79 (3.11)	115 (4.53)	90 (3.54)	115 (4.53)	90 (3.54)	115 (4.53)	90 (3.54)	115 (4.53)	90 (3.54)	115 (4.53)	90 (3.54)	97 (3.82)	
June	136 (5.35)	99 (3.90)	138 (5.43)	111 (4.37)	141 (5.55)	118 (4.65)	144 (5.67)	123 (4.84)	147 (5.79)	136 (5.35)	147 (5.79)	136 (5.35)	147 (5.79)	136 (5.35)	147 (5.79)	136 (5.35)	147 (5.79)	136 (5.35)	141 (5.55)	
July	130 (5.12)	121 (4.76)	131 (5.16)	126 (4.96)	133 (5.24)	129 (5.08)	134 (5.28)	133 (5.24)	136 (5.35)	136 (5.35)	136 (5.35)	136 (5.35)	136 (5.35)	136 (5.35)	136 (5.35)	136 (5.35)	136 (5.35)	136 (5.35)	139 (5.47)	
Aug	3 (0.12)	3 (0.12)	4 (0.16)	4 (0.16)	5 (0.20)	5 (0.20)	5 (0.20)	5 (0.20)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)	
Season	462 (18.18)	296 (11.66)	468 (18.42)	323 (12.71)	479 (18.86)	343 (13.51)	487 (19.18)	361 (14.22)	498 (19.61)	410 (16.13)	498 (19.61)	410 (16.13)	498 (19.61)	410 (16.13)	498 (19.61)	410 (16.13)	498 (19.61)	410 (16.13)	433 (17.05)	

REGION: 4 Tualatin Valley  
CROP: Grapes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	39 (1.54)	2 (0.08)	40 (1.57)	2 (0.08)	40 (1.57)	3 (0.12)	41 (1.61)	3 (0.12)	43 (1.69)	20 (0.79)	44 (1.73)	28 (1.10)	44 (1.73)	20 (0.79)	44 (1.73)	28 (1.10)		
May	66 (2.60)	27 (1.06)	66 (2.60)	31 (1.22)	68 (2.68)	36 (1.42)	69 (2.72)	40 (1.57)	70 (2.76)	47 (1.85)	72 (2.83)	53 (2.09)	72 (2.83)	47 (1.85)	72 (2.83)	53 (2.09)		
June	80 (3.15)	48 (1.89)	81 (3.19)	56 (2.20)	83 (3.27)	62 (2.44)	85 (3.35)	69 (2.72)	86 (3.39)	79 (3.11)	87 (3.43)	82 (3.23)	87 (3.43)	79 (3.11)	87 (3.43)	82 (3.23)		
July	92 (3.62)	83 (3.27)	93 (3.66)	88 (3.46)	94 (3.70)	90 (3.54)	95 (3.74)	93 (3.66)	96 (3.78)	96 (3.78)	99 (3.90)	99 (3.90)	99 (3.90)	96 (3.78)	99 (3.90)	99 (3.90)		
Aug	79 (3.11)	72 (2.83)	80 (3.15)	75 (2.95)	81 (3.19)	77 (3.03)	82 (3.23)	79 (3.11)	86 (3.39)	84 (3.31)	87 (3.43)	87 (3.43)	87 (3.43)	84 (3.31)	87 (3.43)	87 (3.43)		
Sep	61 (2.40)	25 (0.98)	62 (2.44)	31 (1.22)	62 (2.44)	37 (1.46)	63 (2.48)	47 (1.85)	64 (2.52)	60 (2.36)	65 (2.56)	63 (2.48)	65 (2.56)	60 (2.36)	65 (2.56)	63 (2.48)		
Oct	28 (1.10)	1 (0.04)	29 (1.14)	2 (0.08)	29 (1.14)	2 (0.08)	29 (1.14)	2 (0.08)	31 (1.22)	3 (0.12)	33 (1.30)	17 (0.67)	33 (1.30)	3 (0.12)	33 (1.30)	17 (0.67)		
Nov	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)		
Season	452 (17.80)	258 (10.15)	458 (18.03)	285 (11.21)	465 (18.30)	307 (12.09)	472 (18.58)	333 (13.11)	484 (19.06)	389 (15.32)	495 (19.49)	429 (16.90)	495 (19.49)	389 (15.32)	495 (19.49)	429 (16.90)		

REGION: 4 Tualatin Valley  
CROP: Grass Seed (Fall)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
Jan	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)		
Feb	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	19 (0.75)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)	20 (0.79)	0 (0.00)		
March	41 (1.61)	2 (0.08)	42 (1.65)	2 (0.08)	44 (1.73)	2 (0.08)	46 (1.81)	3 (0.12)	48 (1.89)	3 (0.12)	51 (2.01)	7 (0.28)	51 (2.01)	3 (0.12)	51 (2.01)	7 (0.28)		
April	83 (3.27)	22 (0.87)	85 (3.35)	30 (1.18)	86 (3.39)	38 (1.50)	87 (3.43)	45 (1.77)	89 (3.50)	64 (2.52)	91 (3.58)	71 (2.80)	91 (3.58)	64 (2.52)	91 (3.58)	71 (2.80)		
May	126 (4.96)	80 (3.15)	127 (5.00)	86 (3.39)	129 (5.08)	92 (3.62)	132 (5.20)	101 (3.98)	134 (5.28)	110 (4.33)	140 (5.51)	116 (4.57)	140 (5.51)	110 (4.33)	140 (5.51)	116 (4.57)		
June	136 (5.35)	99 (3.90)	138 (5.43)	111 (4.37)	141 (5.55)	118 (4.65)	144 (5.67)	123 (4.84)	149 (5.87)	136 (5.35)	151 (5.94)	141 (5.55)	151 (5.94)	136 (5.35)	151 (5.94)	141 (5.55)		
July	154 (6.06)	143 (5.63)	156 (6.14)	148 (5.83)	157 (6.18)	152 (5.98)	159 (6.26)	156 (6.14)	161 (6.34)	160 (6.30)	165 (6.50)	164 (6.46)	165 (6.50)	160 (6.30)	165 (6.50)	164 (6.46)		
Aug	119 (4.69)	110 (4.33)	123 (4.84)	114 (4.49)	125 (4.92)	117 (4.61)	126 (4.96)	120 (4.72)	129 (5.08)	125 (4.92)	131 (5.16)	130 (5.12)	131 (5.16)	125 (4.92)	131 (5.16)	130 (5.12)		
Sep	48 (1.89)	14 (0.55)	49 (1.93)	19 (0.75)	49 (1.93)	25 (0.98)	51 (2.01)	34 (1.34)	51 (2.01)	45 (1.77)	52 (2.05)	49 (1.93)	52 (2.05)	45 (1.77)	52 (2.05)	49 (1.93)		
Oct	38 (1.50)	2 (0.08)	38 (1.50)	3 (0.12)	39 (1.54)	3 (0.12)	39 (1.54)	4 (0.16)	41 (1.61)	10 (0.39)	42 (1.65)	27 (1.06)	42 (1.65)	10 (0.39)	42 (1.65)	27 (1.06)		
Nov	12 (0.47)	0 (0.00)	13 (0.51)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)		
Dec	4 (0.16)	0 (0.00)	6 (0.24)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)		
Season	785 (30.91)	472 (18.59)	801 (31.54)	513 (20.21)	817 (32.18)	547 (21.54)	834 (32.85)	586 (23.07)	854 (33.63)	653 (25.70)	877 (34.52)	705 (27.77)	877 (34.52)	653 (25.70)	877 (34.52)	705 (27.77)		

REGION: 4 Tualatin Valley  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
Jan	6 (0.24)	0 (0.00)	0 (0.00)	6 (0.24)	0 (0.00)	0 (0.00)	7 (0.28)	0 (0.00)	0 (0.00)	10 (0.39)	0 (0.00)	0 (0.00)	10 (0.39)	0 (0.00)	0 (0.00)	11 (0.43)	0 (0.00)	
Feb	14 (0.55)	0 (0.00)	0 (0.00)	14 (0.55)	0 (0.00)	0 (0.00)	15 (0.59)	0 (0.00)	0 (0.00)	15 (0.59)	0 (0.00)	0 (0.00)	16 (0.63)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	
March	19 (0.75)	0 (0.00)	0 (0.00)	21 (0.83)	0 (0.00)	0 (0.00)	21 (0.83)	0 (0.00)	0 (0.00)	22 (0.87)	1 (0.04)	1 (0.04)	23 (0.91)	1 (0.04)	1 (0.04)	26 (1.02)	1 (0.04)	
April	45 (1.77)	3 (0.12)	4 (0.16)	46 (1.81)	4 (0.16)	5 (0.20)	47 (1.85)	5 (0.20)	11 (0.43)	47 (1.85)	11 (0.43)	11 (0.43)	48 (1.89)	28 (1.10)	28 (1.10)	49 (1.93)	35 (1.38)	
May	68 (2.68)	29 (1.14)	36 (1.42)	69 (2.72)	36 (1.42)	39 (1.54)	70 (2.76)	39 (1.54)	42 (1.65)	71 (2.80)	42 (1.65)	42 (1.65)	73 (2.87)	53 (2.09)	53 (2.09)	73 (2.87)	56 (2.20)	
June	95 (3.74)	64 (2.52)	73 (2.87)	97 (3.82)	73 (2.87)	78 (3.07)	98 (3.86)	78 (3.07)	84 (3.31)	102 (4.02)	84 (3.31)	84 (3.31)	105 (4.13)	94 (3.70)	94 (3.70)	106 (4.17)	98 (3.86)	
July	138 (5.43)	127 (5.00)	139 (5.47)	139 (5.47)	132 (5.20)	136 (5.35)	140 (5.51)	136 (5.35)	140 (5.51)	142 (5.59)	140 (5.51)	140 (5.51)	144 (5.67)	144 (5.67)	144 (5.67)	147 (5.79)	147 (5.79)	
Aug	131 (5.16)	120 (4.72)	135 (5.31)	135 (5.31)	126 (4.96)	129 (5.08)	137 (5.39)	129 (5.08)	133 (5.24)	139 (5.47)	133 (5.24)	133 (5.24)	142 (5.59)	138 (5.43)	138 (5.43)	144 (5.67)	143 (5.63)	
Sep	100 (3.94)	60 (2.36)	101 (3.98)	101 (3.98)	67 (2.64)	74 (2.91)	103 (4.06)	74 (2.91)	89 (3.50)	106 (4.17)	89 (3.50)	89 (3.50)	108 (4.25)	101 (3.98)	101 (3.98)	109 (4.29)	105 (4.13)	
Oct	59 (2.32)	4 (0.16)	60 (2.36)	60 (2.36)	5 (0.20)	6 (0.24)	61 (2.40)	6 (0.24)	16 (0.63)	61 (2.40)	16 (0.63)	16 (0.63)	65 (2.56)	29 (1.14)	29 (1.14)	66 (2.60)	50 (1.97)	
Nov	19 (0.75)	0 (0.00)	20 (0.79)	20 (0.79)	0 (0.00)	0 (0.00)	23 (0.91)	0 (0.00)	0 (0.00)	23 (0.91)	0 (0.00)	0 (0.00)	24 (0.94)	1 (0.04)	1 (0.04)	24 (0.94)	1 (0.04)	
Dec	7 (0.28)	0 (0.00)	8 (0.31)	8 (0.31)	0 (0.00)	0 (0.00)	9 (0.35)	0 (0.00)	0 (0.00)	9 (0.35)	0 (0.00)	0 (0.00)	9 (0.35)	0 (0.00)	0 (0.00)	11 (0.43)	0 (0.00)	
Season	701 (27.61)	407 (16.02)	716 (28.19)	443 (17.45)	731 (28.79)	467 (18.39)	747 (29.41)	517 (20.35)	517 (20.35)	767 (30.18)	589 (23.19)	589 (23.19)	783 (30.81)	636 (25.04)	636 (25.04)			

REGION: 4 Tualatin Valley  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
April	24 (0.94)	2 (0.08)	5 (0.20)	25 (0.98)	7 (0.28)	7 (0.28)	25 (0.98)	7 (0.28)	9 (0.35)	25 (0.98)	9 (0.35)	9 (0.35)	26 (1.02)	17 (0.67)	17 (0.67)	26 (1.02)	21 (0.83)	
May	98 (3.86)	62 (2.44)	67 (2.64)	99 (3.90)	67 (2.64)	72 (2.83)	101 (3.98)	72 (2.83)	78 (3.07)	103 (4.06)	78 (3.07)	78 (3.07)	106 (4.17)	85 (3.35)	85 (3.35)	107 (4.21)	90 (3.54)	
June	123 (4.84)	93 (3.66)	103 (4.06)	125 (4.92)	103 (4.06)	109 (4.29)	128 (5.04)	109 (4.29)	113 (4.45)	131 (5.16)	113 (4.45)	113 (4.45)	133 (5.24)	125 (4.92)	125 (4.92)	134 (5.28)	128 (5.04)	
July	140 (5.51)	131 (5.16)	135 (5.31)	141 (5.55)	135 (5.31)	138 (5.43)	143 (5.63)	138 (5.43)	142 (5.59)	144 (5.67)	142 (5.59)	142 (5.59)	146 (5.75)	146 (5.75)	146 (5.75)	150 (5.91)	149 (5.87)	
Aug	105 (4.13)	96 (3.78)	101 (3.98)	109 (4.29)	101 (3.98)	104 (4.09)	110 (4.33)	104 (4.09)	106 (4.17)	111 (4.37)	106 (4.17)	106 (4.17)	114 (4.49)	111 (4.37)	111 (4.37)	116 (4.57)	115 (4.53)	
Season	490 (19.28)	384 (15.12)	499 (19.64)	411 (16.19)	507 (19.96)	430 (16.92)	514 (20.24)	448 (17.63)	448 (17.63)	525 (20.67)	484 (19.06)	484 (19.06)	533 (20.99)	503 (19.81)	503 (19.81)			



REGION: 4 Tualatin Valley  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.
March	35 (1.38)	1 (0.04)	36 (1.42)	2 (0.08)	37 (1.46)	2 (0.08)	39 (1.54)	2 (0.08)	41 (1.61)	3 (0.12)	43 (1.69)	12 (0.47)						
April	80 (3.15)	21 (0.83)	83 (3.27)	28 (1.10)	85 (3.35)	37 (1.46)	86 (3.39)	44 (1.73)	87 (3.43)	62 (2.44)	88 (3.46)	70 (2.76)						
May	110 (4.33)	70 (2.76)	112 (4.41)	74 (2.91)	114 (4.49)	78 (3.07)	116 (4.57)	82 (3.23)	118 (4.65)	93 (3.66)	121 (4.76)	101 (3.98)						
June	120 (4.72)	86 (3.39)	121 (4.76)	96 (3.78)	124 (4.88)	102 (4.02)	127 (5.00)	109 (4.29)	129 (5.08)	120 (4.72)	130 (5.12)	124 (4.88)						
July	136 (5.35)	127 (5.00)	137 (5.39)	132 (5.20)	139 (5.47)	136 (5.35)	140 (5.51)	140 (5.51)	142 (5.59)	142 (5.59)	146 (5.75)	146 (5.75)						
Aug	117 (4.61)	108 (4.25)	119 (4.69)	112 (4.41)	120 (4.72)	115 (4.53)	124 (4.88)	118 (4.65)	127 (5.00)	123 (4.84)	129 (5.08)	128 (5.04)						
Sep	90 (3.54)	52 (2.05)	90 (3.54)	59 (2.32)	94 (3.70)	66 (2.60)	95 (3.74)	79 (3.11)	96 (3.78)	89 (3.50)	97 (3.82)	93 (3.66)						
Oct	53 (2.09)	3 (0.12)	53 (2.09)	4 (0.16)	54 (2.13)	5 (0.20)	54 (2.13)	10 (0.39)	58 (2.28)	26 (1.02)	59 (2.32)	44 (1.73)						
Nov	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)	11 (0.43)	0 (0.00)						
Season	750 (29.52)	468 (18.44)	760 (29.92)	507 (19.96)	776 (30.55)	541 (21.31)	791 (31.15)	584 (22.99)	808 (31.81)	658 (25.89)	824 (32.43)	718 (28.27)						

REGION: 4 Tualatin Valley  
CROP: Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.
March	41 (1.61)	2 (0.08)	43 (1.69)	2 (0.08)	44 (1.73)	2 (0.08)	47 (1.85)	3 (0.12)	48 (1.89)	3 (0.12)	51 (2.01)	7 (0.28)						
April	74 (2.91)	13 (0.51)	75 (2.95)	23 (0.91)	76 (2.99)	28 (1.10)	77 (3.03)	39 (1.54)	79 (3.11)	57 (2.24)	81 (3.19)	63 (2.48)						
May	110 (4.33)	70 (2.76)	112 (4.41)	74 (2.91)	114 (4.49)	78 (3.07)	116 (4.57)	82 (3.23)	118 (4.65)	91 (3.58)	121 (4.76)	99 (3.90)						
June	132 (5.20)	97 (3.82)	134 (5.28)	106 (4.17)	137 (5.39)	114 (4.49)	141 (5.55)	121 (4.76)	143 (5.63)	132 (5.20)	144 (5.67)	137 (5.39)						
July	152 (5.98)	142 (5.59)	153 (6.02)	147 (5.79)	155 (6.10)	151 (5.94)	157 (6.18)	154 (6.06)	159 (6.26)	157 (6.18)	165 (6.50)	161 (6.34)						
Aug	131 (5.16)	120 (4.72)	132 (5.20)	126 (4.96)	134 (5.28)	129 (5.08)	139 (5.47)	133 (5.24)	142 (5.59)	138 (5.43)	144 (5.67)	143 (5.63)						
Sep	95 (3.74)	55 (2.17)	96 (3.78)	63 (2.48)	99 (3.90)	70 (2.76)	101 (3.98)	84 (3.31)	102 (4.02)	94 (3.70)	103 (4.06)	99 (3.90)						
Oct	45 (1.77)	3 (0.12)	46 (1.81)	3 (0.12)	46 (1.81)	4 (0.16)	47 (1.85)	4 (0.16)	50 (1.97)	17 (0.67)	50 (1.97)	33 (1.30)						
Nov	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)						
Season	794 (31.25)	502 (19.77)	806 (31.73)	544 (21.42)	821 (32.32)	576 (22.68)	842 (33.15)	620 (24.42)	858 (33.79)	689 (27.12)	877 (34.54)	742 (29.22)						

REGION: 4 Tualatin Valley  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years				
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.		
March	32 (1.26)	1 (0.04)	33 (1.30)	1 (0.04)	34 (1.34)	1 (0.04)	36 (1.42)	2 (0.08)	37 (1.46)	2 (0.08)	40 (1.57)	2 (0.08)	40 (1.57)	2 (0.08)	40 (1.57)	2 (0.08)	40 (1.57)	2 (0.08)	40 (1.57)	
April	81 (3.19)	21 (0.83)	83 (3.27)	29 (1.14)	85 (3.35)	37 (1.46)	87 (3.43)	45 (1.77)	88 (3.46)	63 (2.48)	89 (3.50)	70 (2.76)	89 (3.50)	70 (2.76)	89 (3.50)	70 (2.76)	89 (3.50)	70 (2.76)	89 (3.50)	70 (2.76)
May	125 (4.92)	79 (3.11)	126 (4.96)	85 (3.35)	128 (5.04)	91 (3.58)	131 (5.16)	99 (3.90)	133 (5.24)	109 (4.29)	139 (5.47)	115 (4.53)	139 (5.47)	115 (4.53)	139 (5.47)	115 (4.53)	139 (5.47)	115 (4.53)	139 (5.47)	115 (4.53)
June	50 (1.97)	40 (1.57)	52 (2.05)	43 (1.69)	53 (2.09)	45 (1.77)	54 (2.13)	48 (1.89)	55 (2.17)	52 (2.05)	55 (2.17)	53 (2.09)	55 (2.17)	53 (2.09)	55 (2.17)	53 (2.09)	55 (2.17)	53 (2.09)	55 (2.17)	53 (2.09)
Season	288 (11.34)	141 (5.55)	294 (11.58)	158 (6.22)	300 (11.82)	174 (6.85)	308 (12.14)	194 (7.64)	313 (12.33)	226 (8.90)	323 (12.71)	240 (9.46)	323 (12.71)	240 (9.46)	323 (12.71)	240 (9.46)	323 (12.71)	240 (9.46)	323 (12.71)	240 (9.46)

REGION: 4 Tualatin Valley  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years				
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.
March	41 (1.61)	2 (0.08)	43 (1.69)	2 (0.08)	44 (1.73)	2 (0.08)	47 (1.85)	3 (0.12)	48 (1.89)	3 (0.12)	51 (2.01)	7 (0.28)	51 (2.01)	7 (0.28)	51 (2.01)	7 (0.28)	51 (2.01)	7 (0.28)	51 (2.01)	7 (0.28)
April	74 (2.91)	13 (0.51)	75 (2.95)	23 (0.91)	76 (2.99)	28 (1.10)	77 (3.03)	39 (1.54)	79 (3.11)	57 (2.24)	81 (3.19)	63 (2.48)	81 (3.19)	63 (2.48)	81 (3.19)	63 (2.48)	81 (3.19)	63 (2.48)	81 (3.19)	63 (2.48)
May	110 (4.33)	70 (2.76)	112 (4.41)	74 (2.91)	114 (4.49)	78 (3.07)	116 (4.57)	82 (3.23)	118 (4.65)	91 (3.58)	121 (4.76)	99 (3.90)	121 (4.76)	99 (3.90)	121 (4.76)	99 (3.90)	121 (4.76)	99 (3.90)	121 (4.76)	99 (3.90)
June	132 (5.20)	97 (3.82)	134 (5.28)	106 (4.17)	137 (5.39)	114 (4.49)	141 (5.55)	121 (4.76)	143 (5.63)	132 (5.20)	144 (5.67)	137 (5.39)	144 (5.67)	137 (5.39)	144 (5.67)	137 (5.39)	144 (5.67)	137 (5.39)	144 (5.67)	137 (5.39)
July	152 (5.98)	142 (5.59)	153 (6.02)	147 (5.79)	155 (6.10)	151 (5.94)	157 (6.18)	154 (6.06)	159 (6.26)	157 (6.18)	165 (6.50)	161 (6.34)	165 (6.50)	161 (6.34)	165 (6.50)	161 (6.34)	165 (6.50)	161 (6.34)	165 (6.50)	161 (6.34)
Aug	131 (5.16)	120 (4.72)	132 (5.20)	126 (4.96)	134 (5.28)	129 (5.08)	139 (5.47)	133 (5.24)	142 (5.59)	138 (5.43)	144 (5.67)	143 (5.63)	144 (5.67)	143 (5.63)	144 (5.67)	143 (5.63)	144 (5.67)	143 (5.63)	144 (5.67)	143 (5.63)
Sep	95 (3.74)	55 (2.17)	96 (3.78)	63 (2.48)	99 (3.90)	70 (2.76)	101 (3.98)	84 (3.31)	102 (4.02)	94 (3.70)	103 (4.06)	99 (3.90)	103 (4.06)	99 (3.90)	103 (4.06)	99 (3.90)	103 (4.06)	99 (3.90)	103 (4.06)	99 (3.90)
Oct	45 (1.77)	3 (0.12)	46 (1.81)	3 (0.12)	46 (1.81)	4 (0.16)	47 (1.85)	4 (0.16)	50 (1.97)	17 (0.67)	50 (1.97)	33 (1.30)	50 (1.97)	33 (1.30)	50 (1.97)	33 (1.30)	50 (1.97)	33 (1.30)	50 (1.97)	33 (1.30)
Nov	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)
Season	794 (31.25)	502 (19.77)	806 (31.73)	544 (21.42)	821 (32.32)	576 (22.68)	842 (33.15)	620 (24.42)	858 (33.79)	689 (27.12)	877 (34.54)	742 (29.22)	877 (34.54)	742 (29.22)	877 (34.54)	742 (29.22)	877 (34.54)	742 (29.22)	877 (34.54)	742 (29.22)

REGION: 4 Tualatin Valley  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET mm	Net IRR in.	ET crop in.	ET mm	Net IRR in.	ET crop in.	ET mm	Net IRR in.	ET crop in.	ET mm	Net IRR in.	ET crop in.	ET mm	Net IRR in.	ET crop in.	ET mm	Net IRR in.	ET crop in.	
April	6 (0.24)	0 (0.00)	6 (0.24)	6 (0.24)	0 (0.00)	6 (0.24)	6 (0.24)	1 (0.04)	6 (0.24)	2 (0.08)	6 (0.24)	6 (0.24)	6 (0.24)	5 (0.20)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)
May	51 (2.01)	16 (0.63)	51 (2.01)	52 (2.05)	22 (0.87)	52 (2.05)	53 (2.09)	25 (0.98)	53 (2.09)	29 (1.14)	53 (2.09)	53 (2.09)	53 (2.09)	35 (1.38)	54 (2.13)	54 (2.13)	54 (2.13)	54 (2.13)	39 (1.54)
June	91 (3.58)	63 (2.48)	92 (3.62)	94 (3.70)	70 (2.76)	94 (3.70)	97 (3.82)	75 (2.95)	97 (3.82)	81 (3.19)	98 (3.86)	98 (3.86)	98 (3.86)	90 (3.54)	100 (3.94)	100 (3.94)	100 (3.94)	93 (3.66)	93 (3.66)
July	151 (5.94)	141 (5.55)	152 (5.98)	154 (6.06)	149 (5.87)	154 (6.06)	156 (6.14)	153 (6.02)	156 (6.14)	153 (6.02)	158 (6.22)	158 (6.22)	158 (6.22)	157 (6.18)	164 (6.46)	164 (6.46)	164 (6.46)	161 (6.34)	161 (6.34)
Aug	133 (5.24)	120 (4.72)	138 (5.43)	140 (5.51)	131 (5.16)	140 (5.51)	141 (5.55)	135 (5.31)	141 (5.55)	135 (5.31)	145 (5.71)	145 (5.71)	145 (5.71)	140 (5.51)	147 (5.79)	147 (5.79)	147 (5.79)	145 (5.71)	145 (5.71)
Sep	91 (3.58)	54 (2.13)	92 (3.62)	92 (3.62)	61 (2.40)	95 (3.74)	97 (3.82)	68 (2.68)	97 (3.82)	82 (3.23)	98 (3.86)	98 (3.86)	98 (3.86)	91 (3.58)	99 (3.90)	99 (3.90)	99 (3.90)	96 (3.78)	96 (3.78)
Oct	14 (0.55)	1 (0.04)	14 (0.55)	14 (0.55)	1 (0.04)	14 (0.55)	14 (0.55)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	15 (0.59)	15 (0.59)	7 (0.28)	15 (0.59)	15 (0.59)	15 (0.59)	12 (0.47)	12 (0.47)
Season	537 (21.14)	395 (15.55)	545 (21.45)	545 (21.45)	425 (16.74)	555 (21.85)	555 (21.85)	450 (17.72)	564 (22.21)	483 (19.01)	573 (22.57)	573 (22.57)	573 (22.57)	525 (20.67)	585 (23.05)	585 (23.05)	585 (23.05)	552 (21.74)	552 (21.74)

REGION: 4 Tualatin Valley  
CROP: Tomatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET mm	Net IRR in.	ET crop in.	ET mm	Net IRR in.	ET crop in.	ET mm	Net IRR in.	ET crop in.	ET mm	Net IRR in.	ET crop in.	ET mm	Net IRR in.	ET crop in.	ET mm	Net IRR in.	ET crop in.	
May	50 (1.97)	15 (0.59)	50 (1.97)	51 (2.01)	18 (0.71)	51 (2.01)	51 (2.01)	22 (0.87)	51 (2.01)	26 (1.02)	52 (2.05)	52 (2.05)	52 (2.05)	33 (1.30)	52 (2.05)	52 (2.05)	52 (2.05)	38 (1.50)	38 (1.50)
June	112 (4.41)	79 (3.11)	114 (4.49)	118 (4.65)	89 (3.50)	118 (4.65)	121 (4.76)	102 (4.02)	121 (4.76)	102 (4.02)	122 (4.80)	122 (4.80)	122 (4.80)	113 (4.45)	123 (4.84)	123 (4.84)	123 (4.84)	117 (4.61)	117 (4.61)
July	158 (6.22)	148 (5.83)	160 (6.30)	161 (6.34)	156 (6.14)	163 (6.42)	163 (6.42)	160 (6.30)	163 (6.42)	160 (6.30)	165 (6.50)	165 (6.50)	165 (6.50)	164 (6.46)	172 (6.77)	172 (6.77)	172 (6.77)	168 (6.61)	168 (6.61)
Aug	69 (2.72)	64 (2.52)	71 (2.80)	72 (2.83)	66 (2.60)	72 (2.83)	73 (2.87)	71 (2.80)	73 (2.87)	71 (2.80)	75 (2.95)	75 (2.95)	75 (2.95)	74 (2.91)	77 (3.03)	77 (3.03)	77 (3.03)	76 (2.99)	76 (2.99)
Season	389 (15.32)	306 (12.05)	395 (15.56)	402 (15.83)	325 (12.79)	402 (15.83)	408 (16.06)	342 (13.47)	408 (16.06)	359 (14.14)	414 (16.30)	414 (16.30)	414 (16.30)	384 (15.12)	424 (16.69)	424 (16.69)	424 (16.69)	399 (15.71)	399 (15.71)

REGION: 5 Willamette Valley  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.
April	49 (1.93)	3 (0.12)	50 (1.97)	4 (0.16)	51 (2.01)	11 (0.43)	52 (2.05)	16 (0.63)	54 (2.13)	25 (0.98)	55 (2.17)	29 (1.14)						
May	98 (3.86)	36 (1.42)	99 (3.90)	44 (1.73)	102 (4.02)	51 (2.01)	103 (4.06)	58 (2.28)	106 (4.17)	72 (2.83)	109 (4.29)	78 (3.07)						
June	115 (4.53)	70 (2.76)	118 (4.65)	78 (3.07)	120 (4.72)	89 (3.50)	122 (4.80)	100 (3.94)	123 (4.84)	108 (4.25)	123 (4.84)	112 (4.41)						
July	139 (5.47)	131 (5.16)	140 (5.51)	135 (5.31)	142 (5.59)	138 (5.43)	143 (5.63)	141 (5.53)	148 (5.83)	147 (5.79)	151 (5.94)	150 (5.91)						
Aug	114 (4.49)	103 (4.06)	117 (4.61)	106 (4.17)	119 (4.69)	110 (4.33)	121 (4.76)	114 (4.49)	123 (4.84)	121 (4.76)	127 (5.00)	124 (4.88)						
Sep	87 (3.43)	47 (1.85)	88 (3.46)	52 (2.05)	89 (3.50)	58 (2.28)	92 (3.62)	65 (2.56)	94 (3.70)	81 (3.19)	95 (3.74)	89 (3.50)						
Oct	54 (2.13)	3 (0.12)	55 (2.17)	4 (0.16)	55 (2.17)	5 (0.20)	56 (2.20)	6 (0.24)	59 (2.32)	20 (0.79)	59 (2.32)	46 (1.81)						
Nov	4 (0.16)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)						
Season	660 (26.00)	393 (15.49)	672 (26.47)	423 (16.65)	683 (26.90)	462 (18.18)	694 (27.32)	500 (19.69)	713 (28.07)	574 (22.59)	725 (28.54)	628 (24.72)						

REGION: 5 Willamette Valley  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.
March	38 (1.50)	1 (0.04)	39 (1.54)	1 (0.04)	40 (1.57)	1 (0.04)	42 (1.65)	1 (0.04)	43 (1.69)	2 (0.08)	45 (1.77)	2 (0.08)						
April	73 (2.87)	5 (0.20)	75 (2.95)	6 (0.24)	76 (2.99)	17 (0.67)	78 (3.07)	24 (0.94)	82 (3.23)	37 (1.46)	84 (3.31)	44 (1.73)						
May	116 (4.57)	51 (2.01)	117 (4.61)	59 (2.32)	120 (4.72)	66 (2.60)	122 (4.80)	75 (2.95)	125 (4.92)	89 (3.50)	128 (5.04)	100 (3.94)						
June	152 (5.98)	103 (4.06)	155 (6.10)	114 (4.49)	158 (6.22)	123 (4.84)	160 (6.30)	132 (5.20)	162 (6.38)	142 (5.59)	162 (6.38)	148 (5.83)						
July	186 (7.32)	175 (6.89)	188 (7.40)	181 (7.13)	190 (7.48)	186 (7.32)	192 (7.56)	191 (7.52)	195 (7.68)	195 (7.68)	203 (7.99)	201 (7.91)						
Aug	132 (5.98)	140 (5.51)	137 (6.18)	144 (5.67)	139 (6.26)	149 (5.87)	161 (6.34)	154 (6.06)	164 (6.46)	163 (6.42)	167 (6.57)	167 (6.57)						
Sep	111 (4.37)	65 (2.56)	112 (4.41)	72 (2.83)	113 (4.45)	80 (3.15)	117 (4.61)	89 (3.50)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)						
Oct	53 (2.09)	3 (0.12)	53 (2.09)	4 (0.16)	54 (2.13)	5 (0.20)	55 (2.17)	6 (0.24)	58 (2.28)	18 (0.71)	58 (2.28)	45 (1.77)						
Nov	14 (0.55)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)						
Season	895 (35.23)	543 (21.39)	913 (35.95)	581 (22.88)	927 (36.49)	627 (24.69)	944 (37.17)	672 (26.45)	966 (38.04)	751 (29.57)	985 (38.77)	820 (32.28)						

REGION: 5 Willamette Valley  
CROP: Beans (Dry Field)

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
May	57 (2.24)	5 (0.20)	57 (2.24)	9 (0.35)	58 (2.28)	15 (0.59)	60 (2.36)	22 (0.87)	61 (2.40)	32 (1.26)	62 (2.44)	42 (1.65)
June	125 (4.92)	77 (3.03)	128 (5.04)	87 (3.43)	130 (5.12)	99 (3.90)	132 (5.20)	108 (4.25)	133 (5.24)	116 (4.57)	133 (5.24)	121 (4.76)
July	116 (4.57)	109 (4.29)	117 (4.61)	112 (4.41)	119 (4.69)	115 (4.53)	120 (4.72)	118 (4.65)	122 (4.80)	122 (4.80)	125 (4.92)	125 (4.92)
Season	298 (11.73)	191 (7.52)	302 (11.89)	208 (8.19)	307 (12.09)	229 (9.02)	312 (12.28)	248 (9.77)	316 (12.44)	270 (10.63)	320 (12.60)	288 (11.33)

REGION: 5 Willamette Valley  
CROP: Berries

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
May	61 (2.40)	5 (0.20)	61 (2.40)	11 (0.43)	62 (2.44)	18 (0.71)	63 (2.48)	25 (0.98)	64 (2.52)	39 (1.54)	65 (2.56)	44 (1.73)
June	82 (3.23)	37 (1.46)	82 (3.23)	47 (1.85)	84 (3.31)	56 (2.20)	85 (3.35)	64 (2.52)	87 (3.43)	70 (2.76)	87 (3.43)	79 (3.11)
July	109 (4.29)	100 (3.94)	110 (4.33)	103 (4.06)	111 (4.37)	107 (4.21)	112 (4.41)	110 (4.33)	114 (4.49)	114 (4.49)	117 (4.61)	117 (4.61)
Aug	90 (3.54)	78 (3.07)	91 (3.58)	83 (3.27)	94 (3.70)	86 (3.39)	95 (3.74)	90 (3.54)	97 (3.82)	95 (3.74)	98 (3.86)	98 (3.86)
Sep	69 (2.72)	30 (1.18)	70 (2.76)	35 (1.38)	71 (2.80)	42 (1.65)	72 (2.83)	49 (1.93)	74 (2.91)	64 (2.52)	75 (2.95)	70 (2.76)
Oct	42 (1.65)	2 (0.08)	43 (1.69)	3 (0.12)	43 (1.69)	3 (0.12)	44 (1.73)	4 (0.16)	46 (1.81)	7 (0.28)	47 (1.85)	31 (1.22)
Nov	9 (0.35)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)	12 (0.47)	0 (0.00)
Season	462 (18.18)	252 (9.93)	468 (18.42)	282 (11.11)	476 (18.74)	312 (12.28)	482 (18.97)	342 (13.46)	493 (19.41)	389 (15.33)	501 (19.73)	439 (17.29)

REGION: 5 Willamette Valley  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years				
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.		
March	38 (1.50)	1 (0.04)	39 (1.54)	1 (0.04)	40 (1.57)	1 (0.04)	42 (1.65)	1 (0.04)	43 (1.69)	2 (0.08)	45 (1.77)	2 (0.08)	84 (3.31)	44 (1.75)	128 (5.04)	100 (3.94)	162 (6.38)	148 (5.85)	203 (7.99)	201 (7.91)
April	73 (2.87)	5 (0.20)	75 (2.95)	6 (0.24)	76 (2.99)	17 (0.67)	78 (3.07)	24 (0.94)	82 (3.23)	37 (1.46)	84 (3.31)	37 (1.46)	125 (4.92)	89 (3.50)	128 (5.04)	100 (3.94)	162 (6.38)	148 (5.85)	203 (7.99)	201 (7.91)
May	116 (4.57)	51 (2.01)	117 (4.61)	59 (2.32)	120 (4.72)	66 (2.60)	122 (4.80)	75 (2.95)	125 (4.92)	89 (3.50)	128 (5.04)	89 (3.50)	162 (6.38)	142 (5.59)	203 (7.99)	201 (7.91)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)
June	152 (5.98)	103 (4.06)	155 (6.10)	114 (4.49)	158 (6.22)	123 (4.84)	160 (6.30)	132 (5.20)	162 (6.38)	142 (5.59)	162 (6.38)	142 (5.59)	195 (7.68)	195 (7.68)	164 (6.46)	163 (6.42)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)
July	186 (7.32)	175 (6.89)	188 (7.40)	181 (7.13)	190 (7.48)	186 (7.32)	192 (7.56)	191 (7.52)	195 (7.68)	195 (7.68)	164 (6.46)	163 (6.42)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)
Aug	152 (5.98)	140 (5.51)	157 (6.18)	144 (5.67)	159 (6.26)	149 (5.87)	161 (6.34)	154 (6.06)	164 (6.46)	163 (6.42)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)	119 (4.69)	105 (4.13)
Sep	111 (4.37)	65 (2.56)	112 (4.41)	72 (2.83)	113 (4.45)	80 (3.15)	117 (4.61)	89 (3.50)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)
Oct	53 (2.09)	3 (0.12)	53 (2.09)	4 (0.16)	54 (2.13)	5 (0.20)	55 (2.17)	6 (0.24)	58 (2.28)	18 (0.71)	58 (2.28)	18 (0.71)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)
Nov	14 (0.55)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)
Season	895 (35.23)	543 (21.39)	913 (35.95)	581 (22.88)	927 (36.49)	627 (24.69)	944 (37.17)	672 (26.45)	966 (38.04)	751 (29.57)	985 (38.77)	820 (32.28)								

REGION: 5 Willamette Valley  
CROP: Corn (Field)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years				
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.		
May	22 (0.87)	1 (0.04)	23 (0.91)	1 (0.04)	23 (0.91)	1 (0.04)	23 (0.91)	1 (0.04)	23 (0.91)	5 (0.20)	23 (0.91)	5 (0.20)	73 (2.87)	65 (2.56)	172 (6.77)	172 (6.77)	153 (6.02)	153 (6.02)	55 (2.17)	52 (0.85)
June	68 (2.68)	26 (1.02)	68 (2.68)	36 (1.42)	70 (2.76)	43 (1.69)	71 (2.80)	52 (2.05)	72 (2.83)	57 (2.24)	73 (2.87)	57 (2.24)	169 (6.65)	169 (6.65)	151 (5.94)	149 (5.87)	153 (6.02)	153 (6.02)	55 (2.17)	52 (0.85)
July	161 (6.34)	150 (5.91)	163 (6.42)	155 (6.10)	164 (6.46)	159 (6.28)	166 (6.54)	164 (6.46)	169 (6.65)	169 (6.65)	151 (5.94)	149 (5.87)	153 (6.02)	153 (6.02)	55 (2.17)	52 (0.85)	153 (6.02)	153 (6.02)	55 (2.17)	52 (0.85)
Aug	140 (5.51)	127 (5.00)	141 (5.55)	132 (5.20)	146 (5.75)	136 (5.35)	148 (5.83)	141 (5.55)	151 (5.94)	149 (5.87)	153 (6.02)	149 (5.87)	153 (6.02)	153 (6.02)	55 (2.17)	52 (0.85)	153 (6.02)	153 (6.02)	55 (2.17)	52 (0.85)
Sep	50 (1.97)	24 (0.94)	51 (2.01)	27 (1.06)	52 (2.05)	32 (1.26)	52 (2.05)	32 (1.26)	52 (2.05)	37 (1.46)	54 (2.13)	47 (1.85)	55 (2.17)	52 (0.85)	153 (6.02)	153 (6.02)	55 (2.17)	52 (0.85)	153 (6.02)	153 (6.02)
Season	441 (17.37)	328 (12.91)	446 (17.57)	351 (13.82)	455 (17.93)	371 (14.60)	460 (18.13)	395 (15.56)	469 (18.46)	427 (16.81)	476 (18.74)	452 (17.79)								

REGION: 5 Willamette Valley  
CROP: Corn (Silage)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	
May	30 (1.18)	1 (0.04)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	31 (1.22)	2 (0.08)	31 (1.22)
June	99 (3.90)	54 (2.13)	100 (3.94)	64 (2.52)	103 (4.06)	75 (2.87)	105 (4.13)	83 (3.27)	106 (4.17)	83 (3.27)	106 (4.17)	83 (3.27)	106 (4.17)	83 (3.27)	106 (4.17)	83 (3.27)	106 (4.17)	83 (3.27)	106 (4.17)
July	173 (6.81)	162 (6.38)	174 (6.85)	167 (6.57)	176 (6.93)	172 (6.77)	178 (7.01)	177 (6.97)	181 (7.13)	181 (7.13)	181 (7.13)	181 (7.13)	188 (7.40)	186 (7.32)	188 (7.40)	186 (7.32)	188 (7.40)	186 (7.32)	188 (7.40)
Aug	139 (5.47)	127 (5.00)	143 (5.63)	132 (5.20)	145 (5.71)	136 (5.35)	147 (5.79)	140 (5.51)	150 (5.91)	148 (5.83)	150 (5.91)	148 (5.83)	152 (5.98)	152 (5.98)	152 (5.98)	152 (5.98)	152 (5.98)	152 (5.98)	152 (5.98)
Sep	26 (1.02)	18 (0.71)	27 (1.06)	20 (0.79)	27 (1.06)	21 (0.83)	28 (1.10)	23 (0.91)	29 (1.14)	27 (1.06)	29 (1.14)	27 (1.06)	29 (1.14)	29 (1.14)	29 (1.14)	29 (1.14)	29 (1.14)	29 (1.14)	29 (1.14)
Season	467 (18.38)	362 (14.26)	475 (18.70)	385 (15.16)	482 (18.98)	404 (15.90)	489 (19.25)	425 (16.74)	497 (19.57)	460 (18.11)	507 (19.95)	481 (18.93)	507 (19.95)	481 (18.93)	507 (19.95)	481 (18.93)	507 (19.95)	481 (18.93)	507 (19.95)

REGION: 5 Willamette Valley  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	
May	36 (1.42)	3 (0.12)	37 (1.46)	7 (0.28)	37 (1.46)	10 (0.39)	38 (1.50)	15 (0.59)	38 (1.50)	15 (0.59)	38 (1.50)	15 (0.59)	38 (1.50)	15 (0.59)	38 (1.50)	15 (0.59)	38 (1.50)	15 (0.59)	38 (1.50)
June	100 (3.94)	54 (2.13)	101 (3.98)	66 (2.60)	104 (4.09)	76 (2.99)	105 (4.13)	84 (3.31)	107 (4.21)	84 (3.31)	107 (4.21)	84 (3.31)	107 (4.21)	84 (3.31)	107 (4.21)	84 (3.31)	107 (4.21)	84 (3.31)	107 (4.21)
July	173 (6.81)	162 (6.38)	174 (6.85)	167 (6.57)	176 (6.93)	172 (6.77)	178 (7.01)	177 (6.97)	181 (7.13)	181 (7.13)	181 (7.13)	181 (7.13)	188 (7.40)	186 (7.32)	188 (7.40)	186 (7.32)	188 (7.40)	186 (7.32)	188 (7.40)
Aug	142 (5.59)	129 (5.08)	143 (5.63)	134 (5.28)	148 (5.83)	138 (5.43)	150 (5.91)	143 (5.63)	153 (6.02)	151 (5.94)	153 (6.02)	151 (5.94)	155 (6.10)	155 (6.10)	155 (6.10)	155 (6.10)	155 (6.10)	155 (6.10)	155 (6.10)
Sep	34 (1.34)	22 (0.87)	35 (1.38)	24 (0.94)	35 (1.38)	26 (1.02)	36 (1.42)	29 (1.14)	37 (1.46)	33 (1.30)	37 (1.46)	33 (1.30)	37 (1.46)	37 (1.46)	37 (1.46)	37 (1.46)	37 (1.46)	37 (1.46)	37 (1.46)
Season	485 (19.10)	370 (14.58)	490 (19.30)	398 (15.67)	500 (19.69)	422 (16.60)	507 (19.97)	448 (17.64)	516 (20.32)	481 (18.93)	523 (20.59)	499 (19.64)	523 (20.59)	499 (19.64)	523 (20.59)	499 (19.64)	523 (20.59)	499 (19.64)	523 (20.59)

REGION: 5 Willamette Valley  
CROP: Filberts

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.		
March	38 (1.50)	1 (0.04)	39 (1.54)	1 (0.04)	40 (1.57)	1 (0.04)	42 (1.65)	1 (0.04)	43 (1.69)	2 (0.08)	45 (1.77)	2 (0.08)	45 (1.77)	2 (0.08)	45 (1.77)	2 (0.08)		
April	73 (2.87)	5 (0.20)	75 (2.95)	6 (0.24)	76 (2.99)	7 (0.27)	78 (3.07)	24 (0.94)	82 (3.23)	37 (1.46)	84 (3.31)	44 (1.73)	84 (3.31)	44 (1.73)	84 (3.31)	44 (1.73)		
May	116 (4.57)	51 (2.01)	117 (4.61)	59 (2.32)	120 (4.72)	66 (2.60)	122 (4.80)	75 (2.95)	125 (4.92)	89 (3.50)	128 (5.04)	100 (3.94)	128 (5.04)	100 (3.94)	128 (5.04)	100 (3.94)		
June	152 (5.98)	103 (4.06)	155 (6.10)	114 (4.49)	158 (6.22)	123 (4.84)	160 (6.30)	132 (5.20)	162 (6.38)	142 (5.59)	162 (6.38)	148 (5.83)	162 (6.38)	148 (5.83)	162 (6.38)	148 (5.83)		
July	186 (7.32)	175 (6.89)	188 (7.40)	181 (7.13)	190 (7.48)	186 (7.32)	192 (7.56)	191 (7.52)	195 (7.68)	195 (7.68)	203 (7.99)	201 (7.91)	203 (7.99)	201 (7.91)	203 (7.99)	201 (7.91)		
Aug	152 (5.98)	140 (5.51)	157 (6.18)	144 (5.67)	159 (6.26)	149 (5.87)	161 (6.34)	154 (6.06)	164 (6.46)	163 (6.42)	167 (6.57)	167 (6.57)	167 (6.57)	167 (6.57)	167 (6.57)	167 (6.57)		
Sep	111 (4.37)	65 (2.56)	112 (4.41)	72 (2.83)	113 (4.45)	80 (3.15)	117 (4.61)	89 (3.50)	119 (4.69)	105 (4.13)	120 (4.72)	113 (4.45)	120 (4.72)	113 (4.45)	120 (4.72)	113 (4.45)		
Oct	53 (2.09)	3 (0.12)	53 (2.09)	4 (0.16)	54 (2.13)	5 (0.20)	55 (2.17)	6 (0.24)	58 (2.28)	18 (0.71)	58 (2.28)	45 (1.77)	58 (2.28)	45 (1.77)	58 (2.28)	45 (1.77)		
Nov	14 (0.55)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)		
Season	895 (35.23)	543 (21.39)	913 (35.95)	581 (22.88)	927 (36.49)	627 (24.69)	944 (37.17)	672 (26.45)	966 (38.04)	751 (29.57)	985 (38.77)	820 (32.28)	985 (38.77)	820 (32.28)	985 (38.77)	820 (32.28)		

REGION: 5 Willamette Valley  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.		
March	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)		
April	53 (2.09)	2 (0.08)	54 (2.13)	2 (0.08)	54 (2.13)	3 (0.12)	56 (2.20)	3 (0.12)	57 (2.24)	20 (0.79)	58 (2.28)	23 (0.91)	58 (2.28)	23 (0.91)	58 (2.28)	23 (0.91)		
May	102 (4.02)	38 (1.50)	103 (4.06)	46 (1.81)	105 (4.13)	53 (2.09)	107 (4.21)	60 (2.36)	110 (4.33)	76 (2.99)	113 (4.45)	85 (3.35)	113 (4.45)	85 (3.35)	113 (4.45)	85 (3.35)		
June	143 (5.63)	93 (3.66)	144 (5.67)	104 (4.09)	146 (5.75)	114 (4.49)	150 (5.91)	123 (4.84)	152 (5.98)	133 (5.24)	152 (5.98)	138 (5.43)	152 (5.98)	138 (5.43)	152 (5.98)	138 (5.43)		
July	150 (5.91)	140 (5.51)	152 (5.98)	144 (5.67)	153 (6.02)	149 (5.87)	155 (6.10)	153 (6.02)	158 (6.22)	158 (6.22)	161 (6.34)	161 (6.34)	161 (6.34)	161 (6.34)	161 (6.34)	161 (6.34)		
Aug	15 (0.59)	13 (0.51)	16 (0.63)	14 (0.55)	16 (0.63)	15 (0.59)	16 (0.63)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)		
Season	478 (18.83)	286 (11.26)	484 (19.06)	310 (12.20)	490 (19.29)	334 (13.16)	501 (19.72)	355 (13.97)	511 (20.11)	403 (15.87)	519 (20.43)	424 (16.70)	519 (20.43)	424 (16.70)	519 (20.43)	424 (16.70)		



REGION: 5 Willamette Valley  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm
March	25 (0.98)	0 (0.00)	25 (0.98)	0 (0.00)	27 (1.06)	1 (0.04)	28 (1.10)	1 (0.04)	29 (1.14)	1 (0.04)	29 (1.14)	1 (0.04)	29 (1.14)	1 (0.04)	29 (1.14)	1 (0.04)	29 (1.14)	1 (0.04)
April	56 (2.20)	2 (0.08)	57 (2.24)	3 (0.12)	58 (2.28)	3 (0.12)	59 (2.32)	3 (0.12)	61 (2.40)	6 (0.24)	61 (2.40)	6 (0.24)	61 (2.40)	6 (0.24)	63 (2.48)	25 (0.98)	63 (2.48)	25 (0.98)
May	104 (4.09)	39 (1.54)	105 (4.13)	47 (1.85)	107 (4.21)	56 (2.20)	109 (4.29)	65 (2.56)	112 (4.41)	78 (3.07)	112 (4.41)	78 (3.07)	112 (4.41)	78 (3.07)	115 (4.53)	88 (3.46)	115 (4.53)	88 (3.46)
June	143 (5.63)	93 (3.56)	144 (5.67)	104 (4.09)	146 (5.75)	114 (4.49)	150 (5.91)	123 (4.84)	152 (5.98)	133 (5.24)	152 (5.98)	133 (5.24)	152 (5.98)	133 (5.24)	152 (5.98)	138 (5.43)	152 (5.98)	138 (5.43)
July	145 (5.71)	135 (5.31)	147 (5.79)	139 (5.47)	148 (5.83)	143 (5.63)	150 (5.91)	148 (5.83)	152 (5.98)	152 (5.98)	152 (5.98)	152 (5.98)	152 (5.98)	152 (5.98)	156 (6.14)	156 (6.14)	156 (6.14)	156 (6.14)
Aug	4 (0.16)	4 (0.16)	5 (0.20)	5 (0.20)	7 (0.28)	6 (0.24)	7 (0.28)	6 (0.24)	7 (0.28)	6 (0.24)	7 (0.28)	6 (0.24)	7 (0.28)	6 (0.24)	7 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)
Season	477 (18.77)	273 (10.75)	483 (19.01)	298 (11.73)	493 (19.41)	323 (12.72)	503 (19.81)	349 (13.75)	513 (20.19)	392 (15.44)	522 (20.55)	415 (16.33)	522 (20.55)	415 (16.33)	522 (20.55)	415 (16.33)	522 (20.55)	415 (16.33)

REGION: 5 Willamette Valley  
CROP: Grapes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm
April	37 (1.46)	1 (0.04)	38 (1.50)	1 (0.04)	39 (1.54)	2 (0.08)	40 (1.57)	2 (0.08)	41 (1.61)	5 (0.20)	42 (1.65)	7 (0.28)	42 (1.65)	7 (0.28)	42 (1.65)	7 (0.28)	42 (1.65)	7 (0.28)
May	62 (2.44)	6 (0.24)	63 (2.48)	12 (0.47)	64 (2.52)	18 (0.71)	65 (2.56)	25 (0.98)	67 (2.64)	36 (1.42)	69 (2.72)	48 (1.89)	69 (2.72)	48 (1.89)	69 (2.72)	48 (1.89)	69 (2.72)	48 (1.89)
June	84 (3.31)	40 (1.57)	86 (3.39)	50 (1.97)	87 (3.43)	59 (2.32)	88 (3.46)	66 (2.60)	89 (3.50)	73 (2.87)	90 (3.54)	81 (3.19)	90 (3.54)	81 (3.19)	90 (3.54)	81 (3.19)	90 (3.54)	81 (3.19)
July	103 (4.06)	96 (3.78)	104 (4.09)	99 (3.90)	105 (4.13)	102 (4.02)	107 (4.21)	105 (4.13)	108 (4.25)	108 (4.25)	111 (4.37)	111 (4.37)	111 (4.37)	111 (4.37)	111 (4.37)	111 (4.37)	111 (4.37)	111 (4.37)
Aug	86 (3.39)	73 (2.87)	87 (3.43)	78 (3.07)	88 (3.46)	81 (3.19)	89 (3.50)	84 (3.31)	91 (3.58)	89 (3.50)	92 (3.62)	92 (3.62)	92 (3.62)	92 (3.62)	92 (3.62)	92 (3.62)	92 (3.62)	92 (3.62)
Sep	64 (2.52)	24 (0.94)	64 (2.52)	29 (1.14)	65 (2.56)	36 (1.42)	67 (2.64)	44 (1.73)	69 (2.72)	60 (2.36)	69 (2.72)	65 (2.56)	69 (2.72)	65 (2.56)	69 (2.72)	65 (2.56)	69 (2.72)	65 (2.56)
Oct	32 (1.26)	2 (0.08)	33 (1.30)	2 (0.08)	33 (1.30)	2 (0.08)	34 (1.34)	3 (0.12)	35 (1.38)	3 (0.12)	35 (1.38)	3 (0.12)	35 (1.38)	3 (0.12)	35 (1.38)	3 (0.12)	35 (1.38)	3 (0.12)
Nov	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)
Season	475 (18.72)	242 (9.52)	483 (19.02)	271 (10.67)	489 (19.25)	300 (11.82)	498 (19.59)	329 (12.95)	509 (20.03)	374 (14.72)	518 (20.39)	424 (16.70)	518 (20.39)	424 (16.70)	518 (20.39)	424 (16.70)	518 (20.39)	424 (16.70)

REGION: 5 Willamette Valley  
CROP: Grass Seed (Fall)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	mm in.	ET crop mm in.	Net IRR mm in.	mm in.	ET crop mm in.	Net IRR mm in.	mm in.	ET crop mm in.	Net IRR mm in.	mm in.	ET crop mm in.	Net IRR mm in.	mm in.	ET crop mm in.	Net IRR mm in.	mm in.
Jan	4 (0.16)	0 (0.00)	0 (0.00)	7 (0.28)	0 (0.00)	0 (0.00)	9 (0.35)	0 (0.00)	0 (0.00)	9 (0.35)	0 (0.00)	0 (0.00)	10 (0.39)	0 (0.00)	0 (0.00)	10 (0.39)	0 (0.00)	0 (0.00)
Feb	15 (0.59)	0 (0.00)	0 (0.00)	16 (0.63)	0 (0.00)	0 (0.00)	18 (0.71)	0 (0.00)	0 (0.00)	18 (0.71)	0 (0.00)	0 (0.00)	19 (0.75)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)
March	37 (1.46)	1 (0.04)	1 (0.04)	38 (1.50)	1 (0.04)	1 (0.04)	41 (1.61)	1 (0.04)	1 (0.04)	41 (1.61)	1 (0.04)	1 (0.04)	43 (1.69)	2 (0.08)	2 (0.08)	45 (1.77)	2 (0.08)	2 (0.08)
April	77 (3.03)	5 (0.20)	7 (0.28)	79 (3.11)	7 (0.28)	21 (0.83)	81 (3.19)	21 (0.83)	31 (1.22)	83 (3.27)	31 (1.22)	86 (3.39)	42 (1.65)	42 (1.65)	89 (3.50)	49 (1.93)	49 (1.93)	49 (1.93)
May	120 (4.72)	55 (2.17)	64 (2.52)	122 (4.80)	64 (2.52)	71 (2.80)	124 (4.88)	71 (2.80)	79 (3.11)	126 (4.96)	79 (3.11)	130 (5.12)	92 (3.62)	92 (3.62)	135 (5.31)	105 (4.13)	105 (4.13)	105 (4.13)
June	143 (5.63)	93 (3.66)	104 (4.09)	144 (5.67)	104 (4.09)	114 (4.49)	146 (5.75)	114 (4.49)	123 (4.84)	150 (5.91)	123 (4.84)	152 (5.98)	133 (5.24)	133 (5.24)	152 (5.98)	138 (5.43)	138 (5.43)	138 (5.43)
July	172 (6.77)	161 (6.34)	173 (6.81)	175 (6.89)	171 (6.73)	177 (6.97)	177 (6.97)	176 (6.93)	180 (7.09)	180 (7.09)	180 (7.09)	184 (7.24)	184 (7.24)	184 (7.24)	184 (7.24)	184 (7.24)	184 (7.24)	184 (7.24)
Aug	126 (4.96)	115 (4.53)	127 (5.00)	127 (5.00)	119 (4.69)	132 (5.20)	132 (5.20)	123 (4.84)	134 (5.28)	127 (5.00)	136 (5.35)	135 (5.31)	138 (5.43)	138 (5.43)	138 (5.43)	138 (5.43)	138 (5.43)	138 (5.43)
Sep	50 (1.97)	11 (0.43)	51 (2.01)	51 (2.01)	15 (0.59)	52 (2.05)	52 (2.05)	30 (1.18)	54 (2.13)	46 (1.81)	55 (2.17)	50 (1.97)	55 (2.17)	50 (1.97)	55 (2.17)	50 (1.97)	50 (1.97)	50 (1.97)
Oct	42 (1.65)	2 (0.08)	42 (1.65)	42 (1.65)	3 (0.12)	43 (1.69)	43 (1.69)	4 (0.16)	45 (1.77)	7 (0.28)	46 (1.81)	31 (1.22)	46 (1.81)	31 (1.22)	46 (1.81)	31 (1.22)	31 (1.22)	31 (1.22)
Nov	13 (0.51)	0 (0.00)	15 (0.59)	15 (0.59)	0 (0.00)	15 (0.59)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	0 (0.00)	0 (0.00)
Dec	4 (0.16)	0 (0.00)	4 (0.16)	4 (0.16)	0 (0.00)	4 (0.16)	4 (0.16)	0 (0.00)	4 (0.16)	0 (0.00)	4 (0.16)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	0 (0.00)	0 (0.00)
Season 803	(31.61)	443 (17.45)	818 (32.21)	479 (18.87)	834 (32.85)	527 (20.76)	852 (33.55)	571 (22.48)	877 (34.53)	637 (25.08)	897 (35.30)	697 (27.43)						

REGION: 5 Willamette Valley  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	mm in.	ET crop mm in.	Net IRR mm in.	mm in.	ET crop mm in.	Net IRR mm in.	mm in.	ET crop mm in.	Net IRR mm in.	mm in.	ET crop mm in.	Net IRR mm in.	mm in.	ET crop mm in.	Net IRR mm in.	mm in.
Jan	6 (0.24)	0 (0.00)	0 (0.00)	6 (0.24)	0 (0.00)	0 (0.00)	7 (0.28)	0 (0.00)	0 (0.00)	10 (0.39)	0 (0.00)	0 (0.00)	10 (0.39)	0 (0.00)	0 (0.00)	11 (0.43)	0 (0.00)	0 (0.00)
Feb	12 (0.47)	0 (0.00)	0 (0.00)	13 (0.51)	0 (0.00)	0 (0.00)	15 (0.59)	0 (0.00)	0 (0.00)	15 (0.59)	0 (0.00)	0 (0.00)	16 (0.63)	0 (0.00)	0 (0.00)	16 (0.63)	0 (0.00)	0 (0.00)
March	18 (0.71)	0 (0.00)	0 (0.00)	18 (0.71)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)	20 (0.79)	0 (0.00)	0 (0.00)	21 (0.83)	0 (0.00)	0 (0.00)	22 (0.87)	0 (0.00)	0 (0.00)
April	44 (1.73)	1 (0.04)	2 (0.08)	45 (1.77)	2 (0.08)	2 (0.08)	46 (1.81)	2 (0.08)	2 (0.08)	46 (1.81)	2 (0.08)	2 (0.08)	47 (1.85)	11 (0.43)	11 (0.43)	48 (1.89)	15 (0.59)	15 (0.59)
May	66 (2.60)	7 (0.28)	15 (0.59)	67 (2.64)	15 (0.59)	22 (0.87)	69 (2.72)	30 (1.18)	30 (1.18)	69 (2.72)	30 (1.18)	70 (2.76)	44 (1.73)	44 (1.73)	72 (2.83)	51 (2.01)	51 (2.01)	51 (2.01)
June	101 (3.98)	54 (2.13)	102 (4.02)	102 (4.02)	66 (2.60)	104 (4.09)	106 (4.17)	85 (3.35)	107 (4.21)	93 (3.66)	107 (4.21)	93 (3.66)	108 (4.25)	97 (3.82)	97 (3.82)	108 (4.25)	97 (3.82)	97 (3.82)
July	152 (5.98)	142 (5.59)	153 (6.02)	147 (5.79)	151 (5.94)	157 (6.18)	157 (6.18)	155 (6.10)	161 (6.34)	160 (6.30)	161 (6.34)	160 (6.30)	163 (6.42)	163 (6.42)	163 (6.42)	163 (6.42)	163 (6.42)	163 (6.42)
Aug	138 (5.43)	126 (4.96)	142 (5.59)	142 (5.59)	131 (5.16)	144 (5.67)	144 (5.67)	135 (5.31)	146 (5.75)	139 (5.47)	149 (5.87)	147 (5.79)	151 (5.94)	151 (5.94)	151 (5.94)	151 (5.94)	151 (5.94)	151 (5.94)
Sep	106 (4.17)	61 (2.40)	107 (4.21)	107 (4.21)	68 (2.68)	108 (4.25)	110 (4.33)	85 (3.55)	114 (4.49)	101 (3.98)	115 (4.53)	108 (4.25)	115 (4.53)	108 (4.25)	115 (4.53)	108 (4.25)	108 (4.25)	108 (4.25)
Oct	65 (2.56)	4 (0.16)	66 (2.60)	66 (2.60)	5 (0.20)	67 (2.64)	68 (2.68)	15 (0.59)	71 (2.80)	29 (1.14)	72 (2.83)	55 (2.17)	72 (2.83)	55 (2.17)	72 (2.83)	55 (2.17)	55 (2.17)	55 (2.17)
Nov	21 (0.83)	0 (0.00)	23 (0.91)	23 (0.91)	1 (0.04)	24 (0.94)	24 (0.94)	1 (0.04)	24 (0.94)	1 (0.04)	24 (0.94)	1 (0.04)	25 (0.98)	1 (0.04)	25 (0.98)	1 (0.04)	1 (0.04)	1 (0.04)
Dec	6 (0.24)	0 (0.00)	6 (0.24)	6 (0.24)	0 (0.00)	7 (0.28)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	0 (0.00)	0 (0.00)
Season 735	(28.94)	395 (15.56)	748 (29.46)	434 (17.10)	761 (29.97)	469 (18.46)	778 (30.63)	512 (20.16)	799 (31.46)	586 (23.07)	812 (31.95)	641 (25.24)						

REGION: 5 Willamette Valley  
CROP: Mint

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
March	13 (0.51)	0 (0.00)	0 (0.00)	13 (0.51)	0 (0.00)	0 (0.00)	14 (0.55)	0 (0.00)	0 (0.00)	14 (0.55)	0 (0.00)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	0 (0.00)	0 (0.00)
April	51 (2.01)	2 (0.08)	2 (0.08)	52 (2.05)	2 (0.08)	3 (0.12)	54 (2.13)	3 (0.12)	3 (0.12)	55 (2.17)	3 (0.12)	17 (0.67)	57 (2.24)	22 (0.87)	57 (2.24)	22 (0.87)	22 (0.87)	22 (0.87)
May	117 (4.61)	51 (2.01)	59 (2.32)	118 (4.65)	59 (2.32)	66 (2.60)	121 (4.76)	66 (2.60)	75 (2.95)	123 (4.84)	75 (2.95)	89 (3.50)	129 (5.08)	100 (3.94)	129 (5.08)	100 (3.94)	100 (3.94)	100 (3.94)
June	144 (5.67)	94 (3.70)	107 (4.21)	148 (5.83)	107 (4.21)	150 (5.91)	150 (5.91)	116 (4.57)	152 (5.98)	125 (4.92)	154 (6.06)	135 (5.31)	154 (6.06)	140 (5.51)	154 (6.06)	140 (5.51)	140 (5.51)	140 (5.51)
July	120 (4.72)	111 (4.37)	121 (4.76)	121 (4.76)	115 (4.53)	122 (4.80)	122 (4.80)	118 (4.65)	124 (4.88)	122 (4.80)	126 (4.96)	126 (4.96)	128 (5.04)	128 (5.04)	128 (5.04)	128 (5.04)	128 (5.04)	128 (5.04)
Season	445 (17.52)	258 (10.16)	283 (11.14)	452 (17.80)	283 (11.14)	303 (11.94)	467 (18.38)	325 (12.79)	475 (18.70)	367 (14.44)	483 (19.01)	390 (15.36)	483 (19.01)	390 (15.36)	483 (19.01)	390 (15.36)	390 (15.36)	390 (15.36)

REGION: 5 Willamette Valley  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
April	23 (0.91)	1 (0.04)	1 (0.04)	23 (0.91)	1 (0.04)	2 (0.08)	24 (0.94)	2 (0.08)	3 (0.12)	25 (0.98)	3 (0.12)	10 (0.39)	25 (0.98)	11 (0.43)	25 (0.98)	11 (0.43)	11 (0.43)	11 (0.43)
May	94 (3.70)	42 (1.65)	48 (1.89)	95 (3.74)	48 (1.89)	54 (2.13)	98 (3.86)	54 (2.13)	62 (2.44)	99 (3.90)	62 (2.44)	72 (2.83)	103 (4.06)	81 (3.19)	103 (4.06)	81 (3.19)	81 (3.19)	81 (3.19)
June	129 (5.08)	89 (3.50)	99 (3.90)	133 (5.24)	99 (3.90)	106 (4.17)	134 (5.28)	106 (4.17)	114 (4.49)	136 (5.35)	114 (4.49)	122 (4.80)	138 (5.43)	127 (5.00)	138 (5.43)	127 (5.00)	127 (5.00)	127 (5.00)
July	155 (6.10)	147 (5.79)	151 (5.94)	157 (6.18)	151 (5.94)	155 (6.10)	158 (6.22)	155 (6.10)	160 (6.30)	160 (6.30)	163 (6.42)	166 (6.54)	166 (6.54)	166 (6.54)	166 (6.54)	166 (6.54)	166 (6.54)	166 (6.54)
Aug	111 (4.37)	102 (4.02)	114 (4.49)	114 (4.49)	105 (4.13)	109 (4.29)	116 (4.57)	109 (4.29)	112 (4.41)	118 (4.65)	112 (4.41)	118 (4.65)	122 (4.80)	122 (4.80)	122 (4.80)	122 (4.80)	122 (4.80)	122 (4.80)
Season	512 (20.16)	381 (15.00)	404 (15.90)	522 (20.56)	404 (15.90)	426 (16.77)	530 (20.87)	426 (16.77)	451 (17.76)	538 (21.18)	451 (17.76)	485 (19.09)	556 (21.88)	507 (19.96)	556 (21.88)	507 (19.96)	507 (19.96)	507 (19.96)

REGION: 5 Willamette Valley  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.
March	32 (1.26)	1 (0.04)	1 (0.04)	33 (1.30)	1 (0.04)	1 (0.04)	34 (1.34)	1 (0.04)	1 (0.04)	36 (1.42)	2 (0.08)	2 (0.08)	37 (1.46)	2 (0.08)	2 (0.08)	39 (1.54)	2 (0.08)	2 (0.08)
April	75 (2.95)	5 (0.20)	6 (0.24)	77 (3.03)	6 (0.24)	78 (3.07)	78 (3.07)	18 (0.71)	18 (0.71)	80 (3.15)	27 (1.06)	27 (1.06)	84 (3.31)	40 (1.57)	40 (1.57)	86 (3.39)	47 (1.85)	47 (1.85)
May	106 (4.17)	40 (1.57)	107 (4.21)	107 (4.21)	50 (1.97)	50 (1.97)	110 (4.33)	57 (2.24)	57 (2.24)	112 (4.41)	65 (2.56)	65 (2.56)	115 (4.53)	80 (3.15)	80 (3.15)	117 (4.61)	91 (3.58)	91 (3.58)
June	127 (5.00)	78 (3.07)	128 (5.04)	128 (5.04)	88 (3.46)	88 (3.46)	130 (5.12)	99 (3.90)	99 (3.90)	131 (5.16)	108 (4.25)	108 (4.25)	133 (5.24)	116 (4.57)	116 (4.57)	133 (5.24)	121 (4.76)	121 (4.76)
July	151 (5.94)	141 (5.55)	152 (5.98)	152 (5.98)	145 (5.71)	145 (5.71)	154 (6.06)	149 (5.87)	149 (5.87)	156 (6.14)	153 (6.02)	153 (6.02)	158 (6.22)	158 (6.22)	158 (6.22)	162 (6.38)	162 (6.38)	162 (6.38)
Aug	124 (4.88)	112 (4.41)	127 (5.00)	127 (5.00)	116 (4.57)	116 (4.57)	130 (5.12)	120 (4.72)	120 (4.72)	131 (5.16)	123 (4.84)	123 (4.84)	134 (5.28)	130 (5.12)	130 (5.12)	135 (5.31)	135 (5.31)	135 (5.31)
Sep	95 (3.74)	53 (2.09)	96 (3.78)	96 (3.78)	59 (2.32)	59 (2.32)	96 (3.78)	66 (2.60)	66 (2.60)	100 (3.94)	74 (2.91)	74 (2.91)	102 (4.02)	88 (3.46)	88 (3.46)	103 (4.06)	96 (3.78)	96 (3.78)
Oct	58 (2.28)	4 (0.16)	59 (2.32)	59 (2.32)	5 (0.20)	5 (0.20)	60 (2.36)	5 (0.20)	5 (0.20)	60 (2.36)	13 (0.51)	13 (0.51)	63 (2.48)	22 (0.87)	22 (0.87)	64 (2.52)	50 (1.97)	50 (1.97)
Nov	9 (0.35)	0 (0.00)	10 (0.39)	10 (0.39)	0 (0.00)	0 (0.00)	10 (0.39)	0 (0.00)	0 (0.00)	10 (0.39)	0 (0.00)	0 (0.00)	11 (0.43)	0 (0.00)	0 (0.00)	12 (0.47)	0 (0.00)	0 (0.00)
Season	777 (30.57)	434 (17.09)	789 (31.05)	470 (18.51)	802 (31.57)	515 (20.28)	816 (32.13)	565 (22.23)	565 (22.23)	837 (32.97)	636 (25.04)	636 (25.04)	851 (33.52)	704 (27.71)	704 (27.71)			

REGION: 5 Willamette Valley  
CROP: Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.
March	38 (1.50)	1 (0.04)	1 (0.04)	39 (1.54)	1 (0.04)	1 (0.04)	40 (1.57)	1 (0.04)	1 (0.04)	42 (1.65)	1 (0.04)	1 (0.04)	43 (1.69)	2 (0.08)	2 (0.08)	45 (1.77)	2 (0.08)	2 (0.08)
April	69 (2.72)	4 (0.16)	5 (0.20)	71 (2.80)	5 (0.20)	5 (0.20)	72 (2.83)	12 (0.47)	12 (0.47)	74 (2.91)	21 (0.83)	21 (0.83)	77 (3.03)	35 (1.38)	35 (1.38)	79 (3.11)	41 (1.61)	41 (1.61)
May	105 (4.13)	41 (1.61)	106 (4.17)	106 (4.17)	49 (1.93)	49 (1.93)	109 (4.29)	57 (2.24)	57 (2.24)	111 (4.37)	66 (2.60)	66 (2.60)	114 (4.49)	79 (3.11)	79 (3.11)	116 (4.57)	90 (3.54)	90 (3.54)
June	139 (5.47)	90 (3.54)	142 (5.59)	142 (5.59)	101 (3.98)	101 (3.98)	144 (5.67)	111 (4.37)	111 (4.37)	146 (5.75)	120 (4.72)	120 (4.72)	148 (5.83)	130 (5.12)	130 (5.12)	148 (5.83)	135 (5.31)	135 (5.31)
July	171 (6.73)	160 (6.30)	172 (6.77)	172 (6.77)	165 (6.50)	165 (6.50)	174 (6.85)	170 (6.69)	170 (6.69)	176 (6.93)	175 (6.89)	175 (6.89)	179 (7.05)	179 (7.05)	179 (7.05)	186 (7.32)	184 (7.24)	184 (7.24)
Aug	139 (5.47)	127 (5.00)	143 (5.63)	143 (5.63)	132 (5.20)	132 (5.20)	146 (5.75)	136 (5.35)	136 (5.35)	148 (5.83)	141 (5.55)	141 (5.55)	151 (5.94)	149 (5.87)	149 (5.87)	153 (6.02)	153 (6.02)	153 (6.02)
Sep	101 (3.98)	58 (2.28)	102 (4.02)	102 (4.02)	64 (2.52)	64 (2.52)	103 (4.06)	71 (2.80)	71 (2.80)	106 (4.17)	80 (3.15)	80 (3.15)	108 (4.25)	95 (3.74)	95 (3.74)	109 (4.29)	103 (4.06)	103 (4.06)
Oct	49 (1.93)	3 (0.12)	50 (1.97)	50 (1.97)	4 (0.16)	4 (0.16)	51 (2.01)	4 (0.16)	4 (0.16)	51 (2.01)	5 (0.20)	5 (0.20)	54 (2.13)	13 (0.51)	13 (0.51)	54 (2.13)	36 (1.42)	36 (1.42)
Nov	14 (0.55)	0 (0.00)	17 (0.67)	17 (0.67)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	0 (0.00)	18 (0.71)	0 (0.00)	0 (0.00)	18 (0.71)	0 (0.00)	0 (0.00)
Season	825 (32.48)	484 (19.05)	842 (33.16)	521 (20.53)	856 (33.70)	562 (22.12)	871 (34.29)	609 (23.98)	609 (23.98)	892 (35.12)	682 (26.86)	682 (26.86)	908 (35.75)	744 (29.28)	744 (29.28)			

REGION: 5 Willamette Valley  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	
March	30 (1.18)	1 (0.04)	1 (0.04)	31 (1.22)	1 (0.04)	1 (0.04)	32 (1.26)	1 (0.04)	1 (0.04)	33 (1.30)	1 (0.04)	1 (0.04)	34 (1.34)	1 (0.04)	1 (0.04)	36 (1.42)	1 (0.04)	1 (0.04)	
April	76 (2.99)	5 (0.20)	6 (0.24)	78 (3.07)	6 (0.24)	6 (0.24)	79 (3.11)	18 (0.71)	30 (1.18)	81 (3.19)	30 (1.18)	85 (3.35)	41 (1.61)	87 (3.43)	48 (1.89)	119 (4.69)	54 (2.13)	63 (2.48)	
May	119 (4.69)	54 (2.13)	63 (2.48)	120 (4.72)	63 (2.48)	63 (2.48)	123 (4.84)	70 (2.76)	79 (3.11)	125 (4.92)	79 (3.11)	131 (5.16)	91 (3.58)	133 (5.24)	103 (4.06)	53 (2.09)	37 (1.46)	41 (1.61)	53 (2.09)
June	53 (2.09)	37 (1.46)	41 (1.61)	53 (2.09)	41 (1.61)	41 (1.61)	54 (2.13)	45 (1.77)	48 (1.89)	56 (2.20)	48 (1.89)	56 (2.20)	51 (2.01)	57 (2.24)	53 (2.09)	278 (10.95)	97 (3.83)	282 (11.10)	111 (4.37)
Season	278 (10.95)	97 (3.83)	282 (11.10)	282 (11.10)	111 (4.37)	111 (4.37)	288 (11.34)	134 (5.28)	295 (11.61)	158 (6.22)	306 (12.05)	184 (7.24)	313 (12.33)	205 (8.08)					

REGION: 5 Willamette Valley  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	
March	38 (1.50)	1 (0.04)	1 (0.04)	39 (1.54)	1 (0.04)	1 (0.04)	40 (1.57)	1 (0.04)	1 (0.04)	42 (1.65)	1 (0.04)	1 (0.04)	43 (1.69)	2 (0.08)	2 (0.08)	45 (1.77)	2 (0.08)	2 (0.08)	
April	69 (2.72)	4 (0.16)	5 (0.20)	71 (2.80)	5 (0.20)	5 (0.20)	72 (2.83)	12 (0.47)	21 (0.83)	74 (2.91)	21 (0.83)	77 (3.03)	35 (1.38)	79 (3.11)	41 (1.61)	105 (4.13)	41 (1.61)	41 (1.61)	
May	105 (4.13)	41 (1.61)	49 (1.93)	106 (4.17)	49 (1.93)	49 (1.93)	109 (4.29)	57 (2.24)	66 (2.60)	111 (4.37)	66 (2.60)	114 (4.49)	79 (3.11)	116 (4.57)	90 (3.54)	139 (5.47)	90 (3.54)	90 (3.54)	
June	139 (5.47)	90 (3.54)	90 (3.54)	142 (5.59)	101 (3.98)	101 (3.98)	144 (5.67)	111 (4.37)	120 (4.72)	146 (5.75)	120 (4.72)	148 (5.83)	130 (5.12)	148 (5.83)	135 (5.31)	171 (6.73)	160 (6.30)	165 (6.50)	172 (6.77)
July	171 (6.73)	160 (6.30)	165 (6.50)	172 (6.77)	165 (6.50)	165 (6.50)	174 (6.85)	170 (6.69)	175 (6.89)	176 (6.93)	175 (6.89)	179 (7.05)	179 (7.05)	186 (7.32)	184 (7.24)	139 (5.47)	127 (5.00)	143 (5.63)	146 (5.75)
Aug	139 (5.47)	127 (5.00)	143 (5.63)	143 (5.63)	132 (5.20)	132 (5.20)	146 (5.75)	136 (5.35)	141 (5.55)	148 (5.83)	141 (5.55)	151 (5.94)	149 (5.87)	153 (6.02)	153 (6.02)	101 (3.98)	58 (2.28)	64 (2.52)	102 (4.02)
Sep	101 (3.98)	58 (2.28)	64 (2.52)	102 (4.02)	64 (2.52)	64 (2.52)	103 (4.06)	71 (2.80)	80 (3.15)	106 (4.17)	80 (3.15)	108 (4.25)	95 (3.74)	109 (4.29)	103 (4.06)	49 (1.93)	3 (0.12)	4 (0.16)	51 (2.01)
Oct	49 (1.93)	3 (0.12)	4 (0.16)	50 (1.97)	4 (0.16)	4 (0.16)	51 (2.01)	5 (0.20)	5 (0.20)	51 (2.01)	5 (0.20)	54 (2.13)	13 (0.51)	54 (2.13)	36 (1.42)	14 (0.55)	0 (0.00)	17 (0.67)	17 (0.67)
Nov	14 (0.55)	0 (0.00)	17 (0.67)	17 (0.67)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	18 (0.71)	0 (0.00)	825 (32.48)	484 (19.05)	842 (33.16)	521 (20.53)
Season	825 (32.48)	484 (19.05)	842 (33.16)	842 (33.16)	521 (20.53)	521 (20.53)	856 (33.70)	562 (22.12)	871 (34.29)	609 (23.98)	892 (35.12)	682 (26.86)	908 (35.75)	744 (29.28)					

REGION: 5 Willamette Valley  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)		
May	49 (1.93)	4 (0.16)	50 (1.97)	4 (0.16)	50 (1.97)	10 (0.39)	51 (2.01)	17 (0.67)	51 (2.01)	17 (0.67)	52 (2.05)	26 (1.02)	52 (2.05)	26 (1.02)	52 (2.05)	26 (1.02)		
June	96 (3.78)	55 (2.17)	97 (3.82)	63 (2.48)	100 (3.94)	73 (2.87)	101 (3.98)	82 (3.23)	102 (4.02)	89 (3.50)	102 (4.02)	89 (3.50)	102 (4.02)	89 (3.50)	102 (4.02)	89 (3.50)		
July	168 (6.61)	159 (6.26)	170 (6.69)	163 (6.42)	172 (6.77)	168 (6.61)	174 (6.85)	172 (6.77)	177 (6.97)	177 (6.97)	183 (7.20)	182 (7.17)	183 (7.20)	182 (7.17)	183 (7.20)	182 (7.17)		
Aug	142 (5.59)	131 (5.16)	143 (5.63)	135 (5.31)	148 (5.83)	139 (5.47)	150 (5.91)	144 (5.67)	153 (6.02)	151 (5.94)	155 (6.10)	155 (6.10)	155 (6.10)	155 (6.10)	155 (6.10)	155 (6.10)		
Sep	97 (3.82)	57 (2.24)	98 (3.86)	63 (2.48)	99 (3.90)	70 (2.76)	103 (4.06)	79 (3.11)	105 (4.13)	93 (3.66)	106 (4.17)	100 (3.94)	106 (4.17)	100 (3.94)	106 (4.17)	100 (3.94)		
Oct	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	2 (0.08)	16 (0.63)	2 (0.08)	16 (0.63)	2 (0.08)	16 (0.63)	2 (0.08)	16 (0.63)	2 (0.08)		
Season	573 (22.56)	407 (16.03)	580 (22.84)	429 (16.89)	591 (23.28)	461 (18.14)	601 (23.68)	496 (19.53)	611 (24.06)	544 (21.41)	620 (24.41)	577 (22.72)	620 (24.41)	577 (22.72)	620 (24.41)	577 (22.72)		

REGION: 5 Willamette Valley  
CROP: Tomatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	48 (1.89)	3 (0.12)	49 (1.93)	4 (0.16)	49 (1.93)	6 (0.24)	50 (1.97)	13 (0.51)	50 (1.97)	13 (0.51)	51 (2.01)	26 (1.02)	51 (2.01)	26 (1.02)	51 (2.01)	26 (1.02)		
June	120 (4.72)	72 (2.83)	122 (4.80)	81 (3.19)	124 (4.88)	91 (3.58)	126 (4.96)	103 (4.06)	127 (5.00)	111 (4.37)	127 (5.00)	116 (4.57)	127 (5.00)	116 (4.57)	127 (5.00)	116 (4.57)		
July	178 (7.01)	167 (6.57)	180 (7.09)	172 (6.77)	182 (7.17)	177 (6.97)	184 (7.24)	182 (7.17)	187 (7.36)	187 (7.36)	191 (7.52)	191 (7.52)	191 (7.52)	191 (7.52)	191 (7.52)	191 (7.52)		
Aug	75 (2.95)	67 (2.64)	76 (2.99)	70 (2.76)	77 (3.03)	73 (2.87)	78 (3.07)	76 (2.99)	80 (3.15)	79 (3.11)	81 (3.19)	81 (3.19)	81 (3.19)	81 (3.19)	81 (3.19)	81 (3.19)		
Season	421 (16.57)	309 (12.16)	427 (16.81)	327 (12.88)	432 (17.01)	347 (13.66)	438 (17.24)	374 (14.73)	445 (17.52)	403 (15.86)	450 (17.72)	420 (16.54)	450 (17.72)	420 (16.54)	450 (17.72)	420 (16.54)		

REGION: 6 Umqua River  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
March	23 (0.91)	1 (0.04)	2 (0.08)	23 (0.91)	2 (0.08)	2 (0.08)	24 (0.94)	2 (0.08)	2 (0.08)	25 (0.98)	2 (0.08)	2 (0.08)	26 (1.02)	8 (0.31)	8 (0.31)	27 (1.06)	15 (0.59)	
April	70 (2.76)	18 (0.71)	24 (0.94)	71 (2.80)	24 (0.94)	33 (1.30)	73 (2.87)	33 (1.30)	42 (1.65)	75 (2.95)	42 (1.65)	77 (3.03)	77 (3.03)	50 (1.97)	50 (1.97)	78 (3.07)	57 (2.24)	
May	98 (3.86)	59 (2.32)	64 (2.52)	99 (3.90)	64 (2.52)	101 (3.98)	101 (3.98)	72 (2.83)	103 (4.06)	103 (4.06)	80 (3.15)	106 (4.17)	106 (4.17)	86 (3.39)	86 (3.39)	108 (4.25)	93 (3.66)	
June	116 (4.57)	94 (3.70)	117 (4.61)	117 (4.61)	99 (3.90)	104 (4.09)	119 (4.69)	104 (4.09)	122 (4.80)	122 (4.80)	110 (4.33)	124 (4.88)	124 (4.88)	116 (4.57)	116 (4.57)	127 (5.00)	120 (4.72)	
July	150 (5.91)	146 (5.75)	151 (5.94)	149 (5.87)	151 (5.94)	152 (5.98)	152 (5.98)	151 (5.94)	154 (6.06)	154 (6.06)	154 (6.06)	156 (6.14)	156 (6.14)	156 (6.14)	156 (6.14)	159 (6.26)	159 (6.26)	
Aug	123 (4.84)	117 (4.61)	125 (4.92)	120 (4.72)	127 (5.00)	124 (4.88)	127 (5.00)	127 (5.00)	128 (5.04)	128 (5.04)	127 (5.00)	132 (5.20)	132 (5.20)	132 (5.20)	132 (5.20)	134 (5.28)	134 (5.28)	
Sep	93 (3.66)	70 (2.76)	75 (2.95)	94 (3.70)	75 (2.95)	79 (3.11)	95 (3.74)	79 (3.11)	97 (3.82)	97 (3.82)	85 (3.35)	102 (4.02)	102 (4.02)	91 (3.58)	91 (3.58)	104 (4.09)	95 (3.74)	
Season	673 (26.51)	505 (19.89)	680 (26.78)	533 (20.98)	691 (27.20)	565 (22.23)	704 (27.71)	600 (23.62)	723 (28.46)	639 (25.16)	737 (29.01)	673 (26.49)						

REGION: 6 Umqua River  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
March	37 (1.46)	2 (0.08)	3 (0.12)	38 (1.50)	3 (0.12)	3 (0.12)	39 (1.54)	3 (0.12)	4 (0.16)	40 (1.57)	4 (0.16)	42 (1.65)	10 (0.39)	10 (0.39)	43 (1.69)	18 (0.71)		
April	72 (2.83)	22 (0.87)	27 (1.06)	74 (2.91)	27 (1.06)	35 (1.38)	75 (2.95)	35 (1.38)	45 (1.77)	77 (3.03)	45 (1.77)	79 (3.11)	52 (2.05)	52 (2.05)	80 (3.15)	59 (2.32)		
May	115 (4.53)	74 (2.91)	82 (3.23)	117 (4.61)	82 (3.23)	119 (4.69)	119 (4.69)	90 (3.54)	122 (4.80)	122 (4.80)	96 (3.78)	125 (4.92)	102 (4.02)	102 (4.02)	127 (5.00)	111 (4.37)		
June	152 (5.98)	129 (5.08)	153 (6.02)	134 (5.28)	154 (6.06)	139 (5.47)	158 (6.22)	144 (5.67)	161 (6.34)	161 (6.34)	153 (6.02)	164 (6.46)	158 (6.22)	153 (6.02)	153 (6.02)	164 (6.46)	158 (6.22)	
July	200 (7.87)	192 (7.56)	201 (7.91)	195 (7.68)	203 (7.99)	199 (7.83)	205 (8.07)	203 (7.99)	209 (8.23)	209 (8.23)	208 (8.19)	212 (8.35)	212 (8.35)	208 (8.19)	208 (8.19)	212 (8.35)	212 (8.35)	
Aug	163 (6.42)	156 (6.14)	166 (6.54)	161 (6.34)	168 (6.61)	166 (6.54)	170 (6.69)	170 (6.69)	175 (6.89)	175 (6.89)	175 (6.89)	178 (7.01)	178 (7.01)	175 (6.89)	175 (6.89)	178 (7.01)	178 (7.01)	
Sep	119 (4.69)	92 (3.62)	121 (4.76)	98 (3.86)	123 (4.84)	104 (4.09)	125 (4.92)	109 (4.29)	128 (5.04)	128 (5.04)	115 (4.53)	129 (5.08)	129 (5.08)	129 (5.08)	129 (5.08)	134 (5.28)	134 (5.28)	
Oct	57 (2.24)	5 (0.20)	12 (0.47)	59 (2.32)	12 (0.47)	18 (0.71)	60 (2.36)	18 (0.71)	62 (2.44)	62 (2.44)	28 (1.10)	65 (2.56)	45 (1.77)	45 (1.77)	67 (2.64)	54 (2.13)		
Nov	18 (0.71)	1 (0.04)	1 (0.04)	19 (0.75)	1 (0.04)	1 (0.04)	22 (0.87)	1 (0.04)	23 (0.91)	23 (0.91)	1 (0.04)	25 (0.98)	2 (0.08)	2 (0.08)	26 (1.02)	2 (0.08)		
Season	933 (36.73)	673 (26.50)	948 (37.32)	713 (28.08)	963 (37.91)	755 (29.72)	982 (38.65)	800 (31.49)	1009 (39.72)	862 (33.94)	1026 (40.40)	913 (35.95)						

REGION: 6 Umqua River  
CROP: Beans (Dry Field)

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
May	57 (2.24)	23 (0.91)	57 (2.24)	29 (1.14)	58 (2.28)	33 (1.30)	60 (2.36)	38 (1.50)	61 (2.40)	44 (1.73)	62 (2.44)	52 (2.05)
June	125 (4.92)	102 (4.02)	126 (4.96)	107 (4.21)	128 (4.45)	113 (4.45)	131 (5.16)	118 (4.65)	134 (5.28)	125 (4.92)	136 (5.35)	129 (5.08)
July	124 (4.88)	121 (4.76)	125 (4.92)	123 (4.84)	126 (4.96)	125 (4.92)	128 (5.04)	127 (5.00)	130 (5.12)	129 (5.08)	132 (5.20)	132 (5.20)
Season	306 (12.04)	246 (9.69)	308 (12.12)	259 (10.19)	312 (12.28)	271 (10.67)	319 (12.56)	283 (11.15)	325 (12.80)	298 (11.73)	330 (12.99)	313 (12.33)

REGION: 6 Umqua River  
CROP: Cherries

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
March	37 (1.46)	2 (0.08)	38 (1.50)	3 (0.12)	39 (1.54)	3 (0.12)	40 (1.57)	4 (0.16)	42 (1.65)	10 (0.39)	43 (1.69)	18 (0.71)
April	72 (2.83)	22 (0.87)	74 (2.91)	27 (1.06)	75 (2.95)	35 (1.38)	77 (3.03)	45 (1.77)	79 (3.11)	52 (2.05)	80 (3.15)	59 (2.32)
May	115 (4.53)	74 (2.91)	117 (4.61)	82 (3.23)	119 (4.69)	90 (3.54)	122 (4.80)	96 (3.78)	125 (4.92)	102 (4.02)	127 (5.00)	111 (4.37)
June	152 (5.98)	129 (5.08)	153 (6.02)	134 (5.28)	154 (6.06)	139 (5.47)	158 (6.22)	144 (5.67)	161 (6.34)	153 (6.02)	164 (6.46)	158 (6.22)
July	200 (7.87)	192 (7.56)	201 (7.91)	195 (7.68)	203 (7.99)	199 (7.83)	205 (8.07)	203 (7.99)	209 (8.23)	208 (8.19)	212 (8.35)	212 (8.35)
Aug	163 (6.42)	156 (6.14)	166 (6.54)	161 (6.34)	168 (6.61)	166 (6.54)	170 (6.69)	170 (6.69)	175 (6.89)	175 (6.89)	178 (7.01)	178 (7.01)
Sep	119 (4.69)	92 (3.62)	121 (4.76)	98 (3.86)	123 (4.84)	104 (4.09)	125 (4.92)	109 (4.29)	128 (5.04)	115 (4.53)	129 (5.08)	121 (4.76)
Oct	57 (2.24)	5 (0.20)	59 (2.32)	12 (0.47)	60 (2.36)	18 (0.71)	62 (2.44)	28 (1.10)	65 (2.56)	45 (1.77)	67 (2.64)	54 (2.13)
Nov	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	22 (0.87)	1 (0.04)	23 (0.91)	1 (0.04)	25 (0.98)	2 (0.08)	26 (1.02)	2 (0.08)
Season	933 (36.73)	673 (26.50)	948 (37.32)	713 (28.08)	963 (37.91)	755 (29.72)	982 (38.65)	800 (31.49)	1009 (39.72)	862 (33.94)	1026 (40.40)	913 (35.95)



REGION: 6 Umqua River  
CROP: Corn (Silage)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
May	30 ( 1.18)	3 ( 0.12)	30 ( 1.18)	6 ( 0.24)	30 ( 1.18)	10 ( 0.39)	31 ( 1.22)	15 ( 0.59)	31 ( 1.22)	21 ( 0.83)	32 ( 1.26)	25 ( 0.98)	100 ( 3.94)	81 ( 3.19)	101 ( 3.98)	103 ( 4.06)	89 ( 3.50)	105 ( 4.13)	94 ( 3.70)	107 ( 4.21)	100 ( 3.94)	109 ( 4.29)	104 ( 4.09)	
June	184 ( 7.24)	181 ( 7.13)	185 ( 7.28)	184 ( 7.24)	186 ( 7.32)	190 ( 7.48)	190 ( 7.48)	190 ( 7.48)	194 ( 7.64)	193 ( 7.60)	197 ( 7.76)	197 ( 7.76)	149 ( 5.87)	142 ( 5.59)	151 ( 5.94)	153 ( 6.02)	150 ( 5.91)	155 ( 6.10)	159 ( 6.26)	159 ( 6.26)	164 ( 6.46)	163 ( 6.42)	29 ( 1.14)	25 ( 0.98)
Aug	29 ( 1.14)	25 ( 0.98)	29 ( 1.14)	26 ( 1.02)	30 ( 1.18)	27 ( 1.06)	30 ( 1.18)	28 ( 1.10)	30 ( 1.18)	29 ( 1.14)	31 ( 1.22)	30 ( 1.18)	492 ( 19.37)	432 ( 17.01)	496 ( 19.52)	447 ( 17.60)	502 ( 19.76)	462 ( 18.18)	511 ( 20.11)	482 ( 18.97)	521 ( 20.51)	502 ( 19.77)	533 ( 20.99)	519 ( 20.43)
Sep																								

REGION: 6 Umqua River  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
May	59 ( 2.32)	24 ( 0.94)	60 ( 2.36)	31 ( 1.22)	61 ( 2.40)	35 ( 1.38)	61 ( 2.40)	39 ( 1.54)	63 ( 2.48)	47 ( 1.85)	63 ( 2.48)	54 ( 2.13)	113 ( 4.45)	94 ( 3.70)	115 ( 4.53)	117 ( 4.61)	102 ( 4.02)	119 ( 4.69)	107 ( 4.21)	122 ( 4.80)	113 ( 4.45)	124 ( 4.88)	118 ( 4.65)	
June	185 ( 7.28)	179 ( 7.05)	187 ( 7.36)	181 ( 7.13)	189 ( 7.44)	184 ( 7.24)	190 ( 7.48)	189 ( 7.44)	194 ( 7.64)	193 ( 7.60)	197 ( 7.76)	197 ( 7.76)	150 ( 5.91)	143 ( 5.63)	153 ( 6.02)	147 ( 5.79)	155 ( 6.10)	157 ( 6.14)	164 ( 6.46)	165 ( 6.50)	165 ( 6.50)	164 ( 6.46)	54 ( 2.13)	
July	54 ( 2.13)	43 ( 1.69)	54 ( 2.13)	46 ( 1.81)	56 ( 2.20)	49 ( 1.93)	57 ( 2.24)	51 ( 2.01)	57 ( 2.24)	54 ( 2.13)	60 ( 2.36)	56 ( 2.20)	561 ( 22.09)	483 ( 19.01)	569 ( 22.40)	503 ( 19.81)	578 ( 22.75)	521 ( 20.51)	584 ( 22.99)	542 ( 21.34)	600 ( 23.62)	569 ( 22.41)	609 ( 23.98)	589 ( 23.20)
Aug																								
Sep																								

REGION: 6 Umqua River  
CROP: Filberts

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
March	37 (1.46)	2 (0.08)	38 (1.50)	3 (0.12)	39 (1.54)	3 (0.12)	40 (1.57)	4 (0.16)	42 (1.65)	10 (0.39)	43 (1.69)	18 (0.71)
April	72 (2.83)	22 (0.87)	74 (2.91)	27 (1.06)	75 (2.95)	35 (1.38)	77 (3.03)	45 (1.77)	79 (3.11)	52 (2.05)	80 (3.15)	59 (2.32)
May	115 (4.53)	74 (2.91)	117 (4.61)	82 (3.23)	119 (4.69)	90 (3.54)	122 (4.80)	96 (3.78)	125 (4.92)	102 (4.02)	127 (5.00)	111 (4.37)
June	152 (5.98)	129 (5.08)	153 (6.02)	134 (5.28)	154 (6.06)	139 (5.47)	158 (6.22)	144 (5.67)	161 (6.34)	153 (6.02)	164 (6.46)	158 (6.22)
July	200 (7.87)	192 (7.56)	201 (7.91)	195 (7.68)	203 (7.99)	199 (7.83)	205 (8.07)	203 (7.99)	209 (8.23)	208 (8.19)	212 (8.35)	212 (8.35)
Aug	163 (6.42)	156 (6.14)	166 (6.54)	161 (6.34)	168 (6.61)	166 (6.54)	170 (6.69)	170 (6.69)	175 (6.89)	175 (6.89)	178 (7.01)	178 (7.01)
Sep	119 (4.69)	92 (3.62)	121 (4.76)	98 (3.86)	123 (4.84)	104 (4.09)	125 (4.92)	109 (4.29)	128 (5.04)	115 (4.53)	129 (5.08)	121 (4.76)
Oct	57 (2.24)	5 (0.20)	59 (2.32)	12 (0.47)	60 (2.36)	18 (0.71)	62 (2.44)	28 (1.10)	65 (2.56)	45 (1.77)	67 (2.64)	54 (2.13)
Nov	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	22 (0.87)	1 (0.04)	23 (0.91)	1 (0.04)	25 (0.98)	2 (0.08)	26 (1.02)	2 (0.08)
Season	933 (36.73)	673 (26.50)	948 (37.32)	713 (28.08)	963 (37.91)	755 (29.72)	982 (38.65)	800 (31.49)	1009 (39.72)	862 (33.94)	1026 (40.40)	913 (35.95)

REGION: 6 Umqua River  
CROP: Grain (Spring)

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
March	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	2 (0.08)	18 (0.71)	7 (0.28)
April	58 (2.28)	8 (0.31)	59 (2.32)	13 (0.51)	60 (2.36)	21 (0.83)	62 (2.44)	30 (1.18)	63 (2.48)	39 (1.54)	64 (2.52)	44 (1.73)
May	116 (4.57)	76 (2.99)	118 (4.65)	83 (3.27)	120 (4.72)	91 (3.58)	123 (4.84)	98 (3.86)	129 (5.08)	105 (4.13)	131 (5.16)	113 (4.45)
June	144 (5.67)	119 (4.69)	145 (5.71)	124 (4.88)	147 (5.79)	129 (5.08)	148 (5.83)	134 (5.28)	154 (6.06)	142 (5.59)	156 (6.14)	147 (5.79)
July	143 (5.63)	139 (5.47)	144 (5.67)	141 (5.55)	146 (5.75)	144 (5.67)	147 (5.79)	146 (5.75)	150 (5.91)	150 (5.91)	152 (5.98)	152 (5.98)
Aug	11 (0.43)	1 (0.43)	12 (0.47)	11 (0.43)	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)
Season	487 (19.17)	354 (13.93)	493 (19.41)	373 (14.68)	501 (19.72)	398 (15.67)	508 (20.00)	421 (16.58)	525 (20.67)	450 (17.72)	533 (20.98)	475 (18.70)

REGION: 6 Umqua River  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years				
	ET crop mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.		
March	24 (0.94)	1 (0.04)	25 (0.98)	2 (0.08)	26 (1.02)	2 (0.08)	27 (1.06)	2 (0.08)	28 (1.10)	3 (0.12)	29 (1.14)	3 (0.12)	30 (1.18)	3 (0.12)	31 (1.22)	3 (0.12)	32 (1.26)	3 (0.12)	33 (1.30)	
April	57 (2.24)	7 (0.28)	58 (2.28)	12 (0.47)	59 (2.32)	21 (0.83)	60 (2.36)	28 (1.10)	62 (2.44)	36 (1.42)	62 (2.44)	43 (1.69)	62 (2.44)	36 (1.42)	62 (2.44)	43 (1.69)	62 (2.44)	43 (1.69)	62 (2.44)	43 (1.69)
May	112 (4.41)	71 (2.80)	113 (4.45)	79 (3.11)	115 (4.53)	87 (3.43)	117 (4.61)	93 (3.66)	120 (4.72)	99 (3.90)	122 (4.80)	107 (4.21)	122 (4.80)	99 (3.90)	122 (4.80)	107 (4.21)	122 (4.80)	107 (4.21)	122 (4.80)	107 (4.21)
June	144 (5.67)	119 (4.69)	145 (5.71)	124 (4.88)	147 (5.79)	129 (5.08)	148 (5.83)	135 (5.31)	154 (6.06)	143 (5.63)	156 (6.14)	147 (5.79)	154 (6.06)	143 (5.63)	156 (6.14)	147 (5.79)	154 (6.06)	143 (5.63)	156 (6.14)	147 (5.79)
July	133 (5.24)	130 (5.12)	135 (5.31)	132 (5.20)	137 (5.39)	134 (5.28)	138 (5.43)	136 (5.35)	140 (5.51)	139 (5.47)	142 (5.59)	142 (5.59)	140 (5.51)	139 (5.47)	142 (5.59)	142 (5.59)	140 (5.51)	139 (5.47)	142 (5.59)	142 (5.59)
Season	470 (18.50)	328 (12.93)	476 (18.73)	349 (13.74)	484 (19.05)	373 (14.70)	490 (19.29)	394 (15.50)	504 (19.83)	420 (16.54)	511 (20.11)	448 (17.63)	504 (19.83)	420 (16.54)	511 (20.11)	448 (17.63)	504 (19.83)	420 (16.54)	511 (20.11)	448 (17.63)

REGION: 6 Umqua River  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years				
	ET crop mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
Jan	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)	11 (0.43)	0 (0.00)	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)
Feb	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)	18 (0.71)	0 (0.00)
March	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	18 (0.71)	1 (0.04)	20 (0.79)	2 (0.08)	21 (0.83)	2 (0.08)	22 (0.87)	2 (0.08)	21 (0.83)	2 (0.08)	22 (0.87)	2 (0.08)	22 (0.87)	2 (0.08)	22 (0.87)	2 (0.08)
April	44 (1.73)	3 (0.12)	44 (1.73)	4 (0.16)	45 (1.77)	8 (0.31)	45 (1.77)	16 (0.63)	47 (1.85)	23 (0.91)	48 (1.89)	27 (1.06)	47 (1.85)	23 (0.91)	48 (1.89)	27 (1.06)	47 (1.85)	23 (0.91)	48 (1.89)	27 (1.06)
May	66 (2.60)	28 (1.10)	67 (2.64)	36 (1.42)	68 (2.68)	41 (1.61)	69 (2.72)	46 (1.81)	70 (2.76)	52 (2.05)	72 (2.83)	61 (2.40)	70 (2.76)	52 (2.05)	72 (2.83)	61 (2.40)	72 (2.83)	61 (2.40)	72 (2.83)	61 (2.40)
June	101 (3.98)	82 (3.23)	103 (4.06)	86 (3.39)	104 (4.09)	90 (3.54)	106 (4.17)	95 (3.74)	108 (4.25)	101 (3.98)	110 (4.33)	105 (4.13)	108 (4.25)	101 (3.98)	110 (4.33)	105 (4.13)	108 (4.25)	101 (3.98)	110 (4.33)	105 (4.13)
July	163 (6.42)	158 (6.22)	164 (6.46)	161 (6.34)	166 (6.54)	164 (6.46)	168 (6.57)	171 (6.73)	171 (6.73)	171 (6.73)	173 (6.81)	173 (6.81)	171 (6.73)	171 (6.73)	173 (6.81)	173 (6.81)	173 (6.81)	173 (6.81)	173 (6.81)	173 (6.81)
Aug	148 (5.83)	141 (5.55)	151 (5.94)	145 (5.71)	153 (6.02)	149 (5.87)	155 (6.10)	154 (6.06)	159 (6.26)	159 (6.26)	163 (6.42)	162 (6.38)	159 (6.26)	159 (6.26)	163 (6.42)	162 (6.38)	163 (6.42)	162 (6.38)	163 (6.42)	162 (6.38)
Sep	114 (4.49)	87 (3.43)	115 (4.53)	93 (3.66)	116 (4.57)	99 (3.90)	117 (4.61)	105 (4.13)	123 (4.84)	111 (4.37)	126 (4.96)	116 (4.57)	123 (4.84)	111 (4.37)	126 (4.96)	116 (4.57)	126 (4.96)	116 (4.57)	126 (4.96)	116 (4.57)
Oct	71 (2.80)	15 (0.59)	73 (2.87)	23 (0.91)	75 (2.95)	32 (1.26)	77 (3.03)	43 (1.69)	80 (3.15)	58 (2.28)	83 (3.27)	67 (2.64)	80 (3.15)	58 (2.28)	83 (3.27)	67 (2.64)	83 (3.27)	67 (2.64)	83 (3.27)	67 (2.64)
Nov	27 (1.06)	1 (0.04)	28 (1.10)	2 (0.08)	29 (1.14)	2 (0.08)	30 (1.18)	2 (0.08)	33 (1.30)	2 (0.08)	35 (1.38)	3 (0.12)	33 (1.30)	2 (0.08)	35 (1.38)	3 (0.12)	35 (1.38)	3 (0.12)	35 (1.38)	3 (0.12)
Dec	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)	12 (0.47)	0 (0.00)	13 (0.51)	0 (0.00)	13 (0.51)	0 (0.00)	16 (0.63)	0 (0.00)	13 (0.51)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)	16 (0.63)	0 (0.00)
Season	783 (30.83)	516 (20.32)	798 (31.41)	551 (21.71)	810 (31.88)	586 (23.07)	829 (32.63)	630 (24.79)	858 (33.78)	679 (26.74)	882 (34.73)	716 (28.19)	858 (33.78)	679 (26.74)	882 (34.73)	716 (28.19)	882 (34.73)	679 (26.74)	882 (34.73)	716 (28.19)

REGION: 6 Umqua River  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm
March	44 (1.73)	3 (0.12)	3 (1.77)	45 (1.77)	4 (0.16)	4 (1.81)	46 (1.81)	4 (0.16)	4 (1.89)	48 (1.89)	5 (0.20)	5 (1.97)	50 (1.97)	16 (0.63)	16 (2.05)	52 (2.05)	27 (1.06)	27 (1.06)
April	75 (2.95)	24 (0.94)	76 (2.99)	76 (2.99)	29 (1.14)	29 (3.07)	78 (3.07)	29 (1.14)	80 (3.15)	80 (3.15)	46 (1.81)	82 (3.23)	82 (3.23)	54 (2.13)	83 (3.27)	83 (3.27)	64 (2.52)	64 (2.52)
May	105 (4.13)	65 (2.56)	106 (4.17)	106 (4.17)	70 (2.76)	108 (4.25)	108 (4.25)	82 (3.23)	111 (4.37)	111 (4.37)	88 (3.46)	114 (4.49)	114 (4.49)	93 (3.66)	115 (4.53)	115 (4.53)	101 (3.98)	101 (3.98)
June	125 (4.92)	103 (4.06)	126 (4.96)	126 (4.96)	107 (4.21)	128 (5.04)	128 (5.04)	113 (4.45)	131 (5.16)	131 (5.16)	119 (4.69)	134 (5.28)	134 (5.28)	126 (4.96)	136 (5.35)	136 (5.35)	129 (5.08)	129 (5.08)
July	162 (6.38)	157 (6.18)	163 (6.42)	163 (6.42)	160 (6.30)	165 (6.50)	165 (6.50)	166 (6.54)	169 (6.65)	169 (6.65)	166 (6.54)	172 (6.77)	172 (6.77)	169 (6.65)	172 (6.77)	172 (6.77)	145 (5.71)	145 (5.71)
Aug	132 (5.20)	125 (4.92)	134 (5.28)	134 (5.28)	129 (5.08)	137 (5.39)	137 (5.39)	133 (5.24)	138 (5.43)	138 (5.43)	138 (5.43)	142 (5.59)	142 (5.59)	142 (5.59)	145 (5.71)	145 (5.71)	103 (4.06)	103 (4.06)
Sep	102 (4.02)	76 (2.99)	104 (4.09)	104 (4.09)	81 (3.19)	105 (4.13)	105 (4.13)	86 (3.39)	108 (4.25)	108 (4.25)	92 (3.62)	110 (4.33)	110 (4.33)	98 (3.86)	113 (4.45)	113 (4.45)	59 (2.32)	59 (2.32)
Oct	63 (2.48)	8 (0.31)	65 (2.56)	65 (2.56)	15 (0.59)	66 (2.60)	66 (2.60)	26 (1.02)	68 (2.68)	68 (2.68)	36 (1.42)	71 (2.80)	71 (2.80)	50 (1.97)	73 (2.87)	73 (2.87)	1 (0.04)	1 (0.04)
Nov	12 (0.47)	1 (0.04)	12 (0.47)	12 (0.47)	1 (0.04)	13 (0.51)	13 (0.51)	1 (0.04)	13 (0.51)	13 (0.51)	1 (0.04)	16 (0.63)	16 (0.63)	1 (0.04)	16 (0.63)	16 (0.63)	1 (0.04)	1 (0.04)
Season	820 (32.28)	562 (22.12)	831 (32.71)	831 (32.71)	596 (23.47)	846 (33.30)	846 (33.30)	646 (25.45)	863 (33.98)	863 (33.98)	691 (27.21)	888 (34.97)	888 (34.97)	749 (29.49)	905 (35.63)	905 (35.63)	801 (31.54)	801 (31.54)

REGION: 6 Umqua River  
CROP: Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm
March	37 (1.46)	2 (0.08)	38 (1.50)	38 (1.50)	3 (0.12)	39 (1.54)	39 (1.54)	3 (0.12)	40 (1.57)	40 (1.57)	4 (0.16)	42 (1.65)	42 (1.65)	10 (0.39)	43 (1.69)	43 (1.69)	18 (0.71)	18 (0.71)
April	69 (2.72)	18 (0.71)	70 (2.76)	70 (2.76)	23 (0.91)	72 (2.83)	72 (2.83)	30 (1.18)	74 (2.91)	74 (2.91)	41 (1.61)	76 (2.99)	76 (2.99)	48 (1.89)	77 (3.03)	77 (3.03)	54 (2.13)	54 (2.13)
May	104 (4.09)	64 (2.52)	105 (4.13)	105 (4.13)	70 (2.76)	107 (4.21)	107 (4.21)	79 (3.11)	110 (4.33)	110 (4.33)	86 (3.39)	113 (4.45)	113 (4.45)	92 (3.62)	114 (4.49)	114 (4.49)	100 (3.94)	100 (3.94)
June	139 (5.47)	115 (4.53)	140 (5.51)	140 (5.51)	120 (4.72)	141 (5.55)	141 (5.55)	126 (4.96)	144 (5.67)	144 (5.67)	132 (5.20)	150 (5.91)	150 (5.91)	139 (5.47)	152 (5.98)	152 (5.98)	143 (5.63)	143 (5.63)
July	182 (7.17)	179 (7.05)	183 (7.20)	183 (7.20)	182 (7.17)	184 (7.24)	184 (7.24)	184 (7.24)	188 (7.40)	188 (7.40)	188 (7.40)	192 (7.56)	192 (7.56)	191 (7.52)	195 (7.68)	195 (7.68)	195 (7.68)	195 (7.68)
Aug	149 (5.87)	142 (5.59)	152 (5.98)	152 (5.98)	146 (5.75)	154 (6.06)	154 (6.06)	150 (5.91)	156 (6.14)	156 (6.14)	155 (6.10)	163 (6.42)	163 (6.42)	160 (6.30)	164 (6.46)	164 (6.46)	163 (6.42)	163 (6.42)
Sep	109 (4.29)	82 (3.23)	110 (4.33)	110 (4.33)	88 (3.46)	112 (4.41)	112 (4.41)	94 (3.70)	114 (4.49)	114 (4.49)	99 (3.90)	117 (4.61)	117 (4.61)	105 (4.13)	120 (4.72)	120 (4.72)	110 (4.33)	110 (4.33)
Oct	53 (2.09)	5 (0.20)	55 (2.17)	55 (2.17)	8 (0.31)	56 (2.20)	56 (2.20)	17 (0.67)	58 (2.28)	58 (2.28)	26 (1.02)	60 (2.36)	60 (2.36)	43 (1.69)	64 (2.52)	64 (2.52)	50 (1.97)	50 (1.97)
Nov	18 (0.71)	1 (0.04)	19 (0.75)	19 (0.75)	1 (0.04)	22 (0.87)	22 (0.87)	1 (0.04)	23 (0.91)	23 (0.91)	1 (0.04)	25 (0.98)	25 (0.98)	2 (0.08)	26 (1.02)	26 (1.02)	2 (0.08)	2 (0.08)
Season	860 (33.87)	608 (23.95)	872 (34.33)	872 (34.33)	641 (25.24)	887 (34.91)	887 (34.91)	684 (26.93)	907 (35.70)	907 (35.70)	732 (28.82)	938 (36.93)	938 (36.93)	790 (31.09)	955 (37.59)	955 (37.59)	835 (32.89)	835 (32.89)

REGION: 6 Umqua River  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	17 (0.67)	2 (0.08)	18 (0.71)	2 (0.08)	18 (0.71)	2 (0.08)	18 (0.71)	2 (0.08)	18 (0.71)	8 (0.31)		
April	73 (2.87)	22 (0.87)	75 (2.95)	28 (1.10)	76 (2.99)	37 (1.46)	78 (3.07)	45 (1.77)	80 (3.15)	53 (2.09)	81 (3.19)	60 (2.36)	81 (3.19)	53 (2.09)	81 (3.19)	60 (2.36)		
May	118 (4.65)	77 (3.03)	120 (4.72)	85 (3.35)	122 (4.80)	93 (3.66)	125 (4.92)	99 (3.90)	131 (5.16)	105 (4.13)	133 (5.24)	114 (4.49)	131 (5.16)	105 (4.13)	133 (5.24)	114 (4.49)		
June	136 (5.35)	114 (4.49)	140 (5.51)	118 (4.65)	142 (5.59)	124 (4.88)	146 (5.75)	131 (5.16)	148 (5.83)	137 (5.39)	150 (5.91)	141 (5.55)	148 (5.83)	137 (5.39)	150 (5.91)	141 (5.55)		
Season	343 (13.50)	214 (8.43)	351 (13.81)	232 (9.14)	357 (14.05)	255 (10.04)	366 (14.41)	277 (10.91)	377 (14.85)	297 (11.69)	382 (15.05)	323 (12.71)	377 (14.85)	297 (11.69)	382 (15.05)	323 (12.71)		

REGION: 6 Umqua River  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	37 (1.46)	2 (0.08)	38 (1.50)	3 (0.12)	39 (1.54)	3 (0.12)	40 (1.57)	4 (0.16)	42 (1.65)	10 (0.39)	43 (1.69)	18 (0.71)	42 (1.65)	10 (0.39)	43 (1.69)	18 (0.71)		
April	69 (2.72)	18 (0.71)	70 (2.76)	23 (0.91)	72 (2.83)	30 (1.18)	74 (2.91)	41 (1.61)	76 (2.99)	48 (1.89)	77 (3.03)	54 (2.13)	76 (2.99)	48 (1.89)	77 (3.03)	54 (2.13)		
May	104 (4.09)	64 (2.52)	105 (4.13)	70 (2.76)	107 (4.21)	79 (3.11)	110 (4.33)	86 (3.39)	113 (4.45)	92 (3.62)	114 (4.49)	100 (3.94)	113 (4.45)	92 (3.62)	114 (4.49)	100 (3.94)		
June	139 (5.47)	115 (4.53)	140 (5.51)	120 (4.72)	141 (5.55)	126 (4.96)	144 (5.67)	132 (5.20)	150 (5.91)	139 (5.47)	152 (5.98)	143 (5.63)	150 (5.91)	139 (5.47)	152 (5.98)	143 (5.63)		
July	182 (7.17)	179 (7.05)	183 (7.20)	182 (7.17)	184 (7.24)	184 (7.24)	188 (7.40)	188 (7.40)	192 (7.56)	191 (7.52)	195 (7.68)	195 (7.68)	192 (7.56)	191 (7.52)	195 (7.68)	195 (7.68)		
Aug	149 (5.87)	142 (5.59)	152 (5.98)	146 (5.75)	154 (6.06)	150 (5.91)	156 (6.14)	155 (6.10)	163 (6.42)	160 (6.30)	164 (6.46)	163 (6.42)	163 (6.42)	160 (6.30)	164 (6.46)	163 (6.42)		
Sep	109 (4.29)	82 (3.23)	110 (4.33)	88 (3.46)	112 (4.41)	94 (3.70)	114 (4.49)	99 (3.90)	117 (4.61)	105 (4.13)	120 (4.72)	110 (4.33)	117 (4.61)	105 (4.13)	120 (4.72)	110 (4.33)		
Oct	53 (2.09)	5 (0.20)	55 (2.17)	8 (0.31)	56 (2.20)	17 (0.67)	58 (2.28)	26 (1.02)	60 (2.36)	43 (1.69)	64 (2.52)	50 (1.97)	60 (2.36)	43 (1.69)	64 (2.52)	50 (1.97)		
Nov	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	22 (0.87)	1 (0.04)	23 (0.91)	1 (0.04)	25 (0.98)	2 (0.08)	26 (1.02)	2 (0.08)	25 (0.98)	2 (0.08)	26 (1.02)	2 (0.08)		
Season	860 (33.87)	608 (23.95)	872 (34.33)	641 (25.24)	887 (34.91)	684 (26.93)	907 (35.70)	732 (28.82)	938 (36.93)	790 (31.09)	955 (37.59)	835 (32.89)	938 (36.93)	790 (31.09)	955 (37.59)	835 (32.89)		

REGION: 6 Umqua River  
CROP: Tomatoes

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.
May	48 ( 1.89)	14 ( 0.55)	49 ( 1.93)	20 ( 0.79)	49 ( 1.93)	24 ( 0.94)	50 ( 1.97)	29 ( 1.14)	51 ( 2.01)	37 ( 1.46)	51 ( 2.01)	44 ( 1.73)
June	119 ( 4.69)	100 ( 3.94)	120 ( 4.72)	104 ( 4.09)	122 ( 4.80)	108 ( 4.25)	126 ( 4.96)	113 ( 4.45)	129 ( 5.08)	120 ( 4.72)	130 ( 5.12)	125 ( 4.92)
July	189 ( 7.44)	183 ( 7.20)	190 ( 7.48)	186 ( 7.32)	191 ( 7.52)	189 ( 7.44)	195 ( 7.68)	194 ( 7.64)	199 ( 7.83)	198 ( 7.80)	202 ( 7.95)	202 ( 7.95)
Aug	79 ( 3.11)	75 ( 2.95)	80 ( 3.15)	77 ( 3.03)	81 ( 3.19)	80 ( 3.15)	83 ( 3.27)	83 ( 3.27)	84 ( 3.31)	84 ( 3.31)	86 ( 3.39)	86 ( 3.39)
Season	435 ( 17.13)	372 ( 14.64)	439 ( 17.28)	387 ( 15.23)	443 ( 17.44)	401 ( 15.78)	454 ( 17.88)	419 ( 16.50)	463 ( 18.23)	439 ( 17.29)	469 ( 18.47)	457 ( 17.99)

REGION: 7 Medford-Grants Pass  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
March	5 (0.20)	2 (0.08)	2 (0.08)	5 (0.20)	2 (0.08)	3 (0.12)	5 (0.20)	3 (0.12)	4 (0.16)	6 (0.24)	5 (0.20)	5 (0.20)	6 (0.24)	5 (0.20)	6 (0.24)	6 (0.24)	5 (0.20)	5 (0.20)
April	85 (3.35)	52 (2.05)	57 (2.24)	87 (3.43)	57 (2.24)	62 (2.44)	89 (3.50)	62 (2.44)	69 (2.72)	91 (3.58)	69 (2.72)	94 (3.70)	78 (3.07)	97 (3.82)	82 (3.23)	97 (3.82)	82 (3.23)	82 (3.23)
May	119 (4.69)	89 (3.50)	122 (4.80)	122 (4.80)	95 (3.74)	101 (3.98)	125 (4.92)	101 (3.98)	110 (4.33)	128 (5.04)	110 (4.33)	132 (5.20)	120 (4.72)	137 (5.39)	126 (4.96)	137 (5.39)	126 (4.96)	126 (4.96)
June	143 (5.63)	123 (4.84)	144 (5.67)	144 (5.67)	129 (5.08)	134 (5.28)	146 (5.75)	134 (5.28)	140 (5.51)	150 (5.91)	140 (5.51)	155 (6.10)	149 (5.87)	158 (6.22)	154 (6.06)	158 (6.22)	154 (6.06)	154 (6.06)
July	174 (6.85)	171 (6.73)	176 (6.93)	176 (6.93)	174 (6.85)	178 (7.01)	178 (7.01)	176 (6.93)	179 (7.05)	180 (7.09)	179 (7.05)	185 (7.28)	183 (7.20)	187 (7.36)	186 (7.32)	187 (7.36)	186 (7.32)	186 (7.32)
Aug	146 (5.75)	142 (5.59)	147 (5.79)	147 (5.79)	145 (5.71)	150 (5.91)	150 (5.91)	149 (5.87)	152 (5.98)	152 (5.98)	152 (5.98)	156 (6.14)	156 (6.14)	159 (6.26)	159 (6.26)	159 (6.26)	159 (6.26)	159 (6.26)
Sep	107 (4.21)	88 (3.46)	108 (4.25)	108 (4.25)	93 (3.66)	98 (3.86)	109 (4.29)	98 (3.86)	103 (4.06)	112 (4.41)	103 (4.06)	116 (4.57)	108 (4.25)	118 (4.65)	113 (4.45)	118 (4.65)	113 (4.45)	113 (4.45)
Season	779 (30.68)	667 (26.25)	789 (31.07)	695 (27.36)	802 (31.58)	723 (28.48)	818 (32.21)	757 (29.81)	844 (33.23)	799 (31.45)	862 (33.94)	825 (32.48)	862 (33.94)	825 (32.48)	862 (33.94)	825 (32.48)	825 (32.48)	825 (32.48)

REGION: 7 Medford-Grants Pass  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
March	44 (1.73)	4 (0.16)	5 (0.20)	44 (1.73)	5 (0.20)	7 (0.28)	45 (1.77)	7 (0.28)	15 (0.59)	49 (1.93)	15 (0.59)	52 (2.05)	28 (1.10)	57 (2.24)	36 (1.42)	57 (2.24)	36 (1.42)	36 (1.42)
April	88 (3.46)	55 (2.17)	90 (3.54)	90 (3.54)	60 (2.36)	65 (2.56)	93 (3.66)	65 (2.56)	72 (2.83)	95 (3.74)	72 (2.83)	98 (3.86)	82 (3.23)	101 (3.98)	86 (3.39)	101 (3.98)	86 (3.39)	86 (3.39)
May	141 (5.55)	108 (4.25)	145 (5.71)	145 (5.71)	115 (4.53)	121 (4.76)	148 (5.83)	121 (4.76)	151 (5.94)	151 (5.94)	130 (5.12)	156 (6.14)	141 (5.55)	162 (6.38)	150 (5.91)	162 (6.38)	150 (5.91)	150 (5.91)
June	186 (7.32)	162 (6.38)	189 (7.44)	189 (7.44)	168 (6.61)	176 (6.93)	191 (7.52)	176 (6.93)	186 (7.32)	196 (7.72)	186 (7.32)	202 (7.95)	193 (7.60)	207 (8.15)	201 (7.91)	207 (8.15)	201 (7.91)	201 (7.91)
July	231 (9.09)	226 (8.90)	235 (9.25)	235 (9.25)	232 (9.13)	238 (9.37)	238 (9.37)	235 (9.25)	238 (9.37)	240 (9.45)	238 (9.37)	247 (9.72)	242 (9.53)	250 (9.84)	247 (9.72)	250 (9.84)	247 (9.72)	247 (9.72)
Aug	191 (7.52)	188 (7.40)	195 (7.68)	195 (7.68)	192 (7.56)	199 (7.83)	199 (7.83)	197 (7.76)	201 (7.91)	202 (7.95)	201 (7.91)	207 (8.15)	207 (8.15)	211 (8.31)	211 (8.31)	211 (8.31)	211 (8.31)	211 (8.31)
Sep	135 (5.31)	115 (4.53)	136 (5.35)	136 (5.35)	119 (4.69)	138 (5.43)	138 (5.43)	123 (4.84)	129 (5.08)	141 (5.55)	129 (5.08)	146 (5.75)	136 (5.55)	149 (5.87)	141 (5.55)	149 (5.87)	141 (5.55)	141 (5.55)
Oct	64 (2.52)	25 (0.98)	66 (2.60)	66 (2.60)	32 (1.26)	37 (1.54)	67 (2.64)	39 (1.54)	48 (1.89)	68 (2.68)	48 (1.89)	72 (2.83)	57 (2.24)	73 (2.87)	67 (2.64)	73 (2.87)	67 (2.64)	67 (2.64)
Nov	18 (0.71)	1 (0.04)	18 (0.71)	18 (0.71)	1 (0.04)	1 (0.04)	19 (0.75)	1 (0.04)	1 (0.04)	19 (0.75)	1 (0.04)	22 (0.87)	2 (0.08)	22 (0.87)	13 (0.51)	22 (0.87)	13 (0.51)	13 (0.51)
Season	1098 (43.21)	884 (34.81)	1118 (44.01)	924 (36.38)	1138 (44.80)	964 (37.96)	1161 (45.71)	1020 (40.15)	1202 (47.32)	1088 (42.83)	1232 (48.51)	1152 (45.36)	1232 (48.51)	1152 (45.36)	1232 (48.51)	1152 (45.36)	1152 (45.36)	1152 (45.36)

REGION: 7 Medford-Grants Pass  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	44 (1.73)	4 (0.16)	44 (1.73)	5 (0.20)	45 (1.77)	7 (0.28)	49 (1.93)	15 (0.59)	52 (2.05)	28 (1.10)	57 (2.24)	36 (1.42)						
April	88 (3.46)	55 (2.17)	90 (3.54)	60 (2.36)	93 (3.66)	65 (2.56)	95 (3.74)	72 (2.83)	98 (3.86)	82 (3.23)	101 (3.98)	86 (3.39)						
May	141 (5.55)	108 (4.25)	145 (5.71)	115 (4.53)	148 (5.83)	121 (4.76)	151 (5.94)	130 (5.12)	156 (6.14)	141 (5.55)	162 (6.38)	150 (5.91)						
June	186 (7.32)	162 (6.38)	189 (7.44)	168 (6.61)	191 (7.52)	176 (6.93)	196 (7.72)	186 (7.32)	202 (7.95)	193 (7.60)	207 (8.15)	201 (7.91)						
July	231 (9.09)	226 (8.90)	235 (9.25)	232 (9.13)	238 (9.37)	235 (9.25)	240 (9.45)	238 (9.37)	247 (9.72)	242 (9.53)	250 (9.84)	247 (9.72)						
Aug	191 (7.52)	188 (7.40)	195 (7.68)	192 (7.56)	199 (7.83)	197 (7.76)	202 (7.95)	201 (7.91)	207 (8.15)	207 (8.15)	211 (8.31)	211 (8.31)						
Sep	135 (5.31)	115 (4.53)	136 (5.35)	119 (4.69)	138 (5.43)	123 (4.84)	141 (5.55)	129 (5.08)	146 (5.75)	136 (5.35)	149 (5.87)	141 (5.55)						
Oct	64 (2.52)	25 (0.98)	66 (2.60)	32 (1.26)	67 (2.64)	39 (1.54)	68 (2.68)	48 (1.89)	72 (2.83)	57 (2.24)	73 (2.87)	67 (2.64)						
Nov	18 (0.71)	1 (0.04)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	19 (0.75)	1 (0.04)	22 (0.87)	2 (0.08)	22 (0.87)	13 (0.51)						
Season1098	(43.21)	884 (34.81)	1118 (44.01)	924 (36.38)	1138 (44.80)	964 (37.96)	1161 (45.71)	1020 (40.15)	1202 (47.32)	1088 (42.83)	1232 (48.51)	1152 (45.36)						

REGION: 7 Medford-Grants Pass  
CROP: Filberts

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	44 (1.73)	4 (0.16)	44 (1.73)	5 (0.20)	45 (1.77)	7 (0.28)	49 (1.93)	15 (0.59)	52 (2.05)	28 (1.10)	57 (2.24)	36 (1.42)						
April	88 (3.46)	55 (2.17)	90 (3.54)	60 (2.36)	93 (3.66)	65 (2.56)	95 (3.74)	72 (2.83)	98 (3.86)	82 (3.23)	101 (3.98)	86 (3.39)						
May	141 (5.55)	108 (4.25)	145 (5.71)	115 (4.53)	148 (5.83)	121 (4.76)	151 (5.94)	130 (5.12)	156 (6.14)	141 (5.55)	162 (6.38)	150 (5.91)						
June	186 (7.32)	162 (6.38)	189 (7.44)	168 (6.61)	191 (7.52)	176 (6.93)	196 (7.72)	186 (7.32)	202 (7.95)	193 (7.60)	207 (8.15)	201 (7.91)						
July	231 (9.09)	226 (8.90)	235 (9.25)	232 (9.13)	238 (9.37)	235 (9.25)	240 (9.45)	238 (9.37)	247 (9.72)	242 (9.53)	250 (9.84)	247 (9.72)						
Aug	191 (7.52)	188 (7.40)	195 (7.68)	192 (7.56)	199 (7.83)	197 (7.76)	202 (7.95)	201 (7.91)	207 (8.15)	207 (8.15)	211 (8.31)	211 (8.31)						
Sep	135 (5.31)	115 (4.53)	136 (5.35)	119 (4.69)	138 (5.43)	123 (4.84)	141 (5.55)	129 (5.08)	146 (5.75)	136 (5.35)	149 (5.87)	141 (5.55)						
Oct	64 (2.52)	25 (0.98)	66 (2.60)	32 (1.26)	67 (2.64)	39 (1.54)	68 (2.68)	48 (1.89)	72 (2.83)	57 (2.24)	73 (2.87)	67 (2.64)						
Nov	18 (0.71)	1 (0.04)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	19 (0.75)	1 (0.04)	22 (0.87)	2 (0.08)	22 (0.87)	13 (0.51)						
Season1098	(43.21)	884 (34.81)	1118 (44.01)	924 (36.38)	1138 (44.80)	964 (37.96)	1161 (45.71)	1020 (40.15)	1202 (47.32)	1088 (42.83)	1232 (48.51)	1152 (45.36)						



REGION: 7 Medford-Grants Pass  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
March	17 (0.67)	1 (0.04)	2 (0.08)	18 (0.71)	2 (0.08)	2 (0.08)	19 (0.75)	2 (0.08)	2 (0.08)	19 (0.75)	3 (0.12)	3 (0.12)	20 (0.79)	10 (0.39)	10 (0.39)	21 (0.83)	14 (0.55)	
April	68 (2.68)	36 (1.42)	42 (1.65)	70 (2.76)	42 (1.65)	47 (1.85)	72 (2.83)	47 (1.85)	47 (1.85)	74 (2.91)	53 (2.09)	53 (2.09)	76 (2.99)	60 (2.36)	60 (2.36)	79 (3.11)	65 (2.56)	
May	142 (5.59)	109 (4.29)	116 (4.57)	146 (5.75)	116 (4.57)	122 (4.80)	149 (5.87)	122 (4.80)	122 (4.80)	153 (6.02)	131 (5.16)	131 (5.16)	157 (6.18)	142 (5.59)	142 (5.59)	164 (6.46)	151 (5.94)	
June	173 (6.81)	151 (5.94)	156 (6.14)	175 (6.89)	156 (6.14)	164 (6.46)	178 (7.01)	164 (6.46)	164 (6.46)	182 (7.17)	172 (6.77)	172 (6.77)	188 (7.40)	179 (7.05)	179 (7.05)	192 (7.56)	187 (7.36)	
July	165 (6.50)	162 (6.38)	165 (6.50)	168 (6.61)	165 (6.50)	167 (6.57)	170 (6.69)	167 (6.57)	167 (6.57)	171 (6.73)	170 (6.69)	170 (6.69)	177 (6.97)	174 (6.85)	174 (6.85)	178 (7.01)	177 (6.97)	
Aug	13 (0.51)	13 (0.51)	13 (0.51)	13 (0.51)	13 (0.51)	13 (0.51)	13 (0.51)	13 (0.51)	13 (0.51)	14 (0.55)	13 (0.51)	13 (0.51)	14 (0.55)	14 (0.55)	14 (0.55)	14 (0.55)	14 (0.55)	
Season	578 (22.76)	472 (18.58)	494 (19.45)	590 (23.23)	494 (19.45)	515 (20.27)	601 (23.66)	515 (20.27)	515 (20.27)	613 (24.13)	542 (21.34)	542 (21.34)	632 (24.88)	579 (22.79)	579 (22.79)	648 (25.52)	608 (23.93)	

REGION: 7 Medford-Grants Pass  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
March	28 (1.10)	2 (0.08)	3 (0.12)	29 (1.14)	3 (0.12)	3 (0.12)	30 (1.18)	3 (0.12)	3 (0.12)	31 (1.22)	6 (0.24)	6 (0.24)	33 (1.30)	14 (0.55)	14 (0.55)	34 (1.34)	20 (0.79)	
April	67 (2.54)	35 (1.38)	42 (1.65)	68 (2.68)	42 (1.65)	46 (1.81)	70 (2.76)	46 (1.81)	46 (1.81)	72 (2.83)	52 (2.05)	52 (2.05)	75 (2.95)	59 (2.32)	59 (2.32)	76 (2.99)	63 (2.48)	
May	135 (5.31)	103 (4.06)	109 (4.29)	136 (5.35)	109 (4.29)	116 (4.57)	138 (5.43)	116 (4.57)	116 (4.57)	146 (5.75)	125 (4.92)	125 (4.92)	150 (5.91)	135 (5.31)	135 (5.31)	156 (6.14)	144 (5.67)	
June	174 (6.85)	150 (5.91)	156 (6.14)	176 (6.93)	156 (6.14)	165 (6.50)	178 (7.01)	165 (6.50)	165 (6.50)	183 (7.20)	173 (6.81)	173 (6.81)	189 (7.44)	181 (7.13)	181 (7.13)	193 (7.60)	188 (7.40)	
July	154 (6.06)	151 (5.94)	153 (6.02)	157 (6.18)	153 (6.02)	156 (6.14)	159 (6.26)	156 (6.14)	156 (6.14)	160 (6.30)	158 (6.22)	158 (6.22)	165 (6.50)	162 (6.38)	162 (6.38)	166 (6.54)	165 (6.50)	
Season	558 (21.96)	441 (17.37)	463 (18.22)	566 (22.28)	463 (18.22)	486 (19.14)	575 (22.64)	486 (19.14)	486 (19.14)	592 (23.30)	514 (20.24)	514 (20.24)	612 (24.10)	551 (21.69)	551 (21.69)	625 (24.61)	580 (22.84)	

REGION: 7 Medford-Grants Pass  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
Jan	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)		
Feb	15 (0.59)	1 (0.04)	17 (0.67)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	18 (0.71)	1 (0.04)	20 (0.79)	1 (0.04)	20 (0.79)	1 (0.04)	21 (0.83)	1 (0.04)		
March	21 (0.83)	2 (0.08)	22 (0.87)	2 (0.08)	23 (0.91)	2 (0.08)	24 (0.94)	2 (0.08)	24 (0.94)	2 (0.08)	26 (1.02)	4 (0.16)	27 (1.06)	9 (0.35)	27 (1.06)	9 (0.35)		
April	49 (1.93)	18 (0.71)	49 (1.93)	24 (0.94)	50 (1.97)	29 (1.14)	51 (2.01)	33 (1.30)	53 (2.09)	39 (1.54)	54 (2.13)	54 (2.13)	54 (2.13)	42 (1.65)	54 (2.13)	42 (1.65)		
May	76 (2.99)	47 (1.85)	77 (3.03)	52 (2.05)	78 (3.07)	58 (2.28)	79 (3.11)	64 (2.52)	81 (3.19)	72 (2.83)	83 (3.27)	76 (2.99)	83 (3.27)	76 (2.99)	83 (3.27)	76 (2.99)		
June	120 (4.72)	103 (4.06)	122 (4.80)	106 (4.17)	124 (4.88)	110 (4.33)	126 (4.96)	116 (4.57)	129 (5.08)	124 (4.88)	132 (5.20)	128 (5.04)	132 (5.20)	128 (5.04)	132 (5.20)	128 (5.04)		
July	187 (7.36)	182 (7.17)	190 (7.48)	187 (7.36)	193 (7.60)	190 (7.48)	195 (7.68)	192 (7.56)	200 (7.87)	196 (7.72)	202 (7.95)	200 (7.87)	202 (7.95)	200 (7.87)	202 (7.95)	200 (7.87)		
Aug	175 (6.89)	170 (6.69)	177 (6.97)	174 (6.85)	180 (7.09)	178 (7.01)	183 (7.20)	182 (7.17)	188 (7.40)	188 (7.40)	191 (7.52)	191 (7.52)	191 (7.52)	191 (7.52)	191 (7.52)	191 (7.52)		
Sep	127 (5.00)	109 (4.29)	129 (5.08)	113 (4.45)	131 (5.16)	118 (4.65)	135 (5.31)	123 (4.84)	139 (5.47)	130 (5.12)	142 (5.59)	134 (5.28)	142 (5.59)	134 (5.28)	142 (5.59)	134 (5.28)		
Oct	78 (3.07)	39 (1.54)	82 (3.23)	46 (1.81)	83 (3.27)	53 (2.09)	85 (3.35)	62 (2.44)	87 (3.43)	71 (2.80)	89 (3.50)	84 (3.31)	89 (3.50)	84 (3.31)	89 (3.50)	84 (3.31)		
Nov	24 (0.94)	1 (0.04)	25 (0.98)	2 (0.08)	26 (1.02)	2 (0.08)	27 (1.06)	2 (0.08)	30 (1.18)	2 (0.08)	30 (1.18)	2 (0.08)	30 (1.18)	2 (0.08)	30 (1.18)	2 (0.08)		
Dec	6 (0.24)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)		
Season	885 (34.84)	672 (26.47)	904 (35.60)	707 (27.83)	922 (36.31)	741 (29.18)	942 (37.07)	777 (30.60)	973 (38.30)	827 (32.57)	991 (39.01)	884 (34.80)	991 (39.01)	884 (34.80)	991 (39.01)	884 (34.80)		

REGION: 7 Medford-Grants Pass  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	17 (0.67)	2 (0.08)	18 (0.71)	2 (0.08)	18 (0.71)	2 (0.08)	20 (0.79)	6 (0.24)	21 (0.83)	11 (0.43)	21 (0.83)	14 (0.55)	21 (0.83)	14 (0.55)	21 (0.83)	14 (0.55)		
April	72 (2.85)	45 (1.77)	73 (2.87)	49 (1.93)	75 (2.95)	52 (2.05)	77 (3.03)	59 (2.32)	80 (3.15)	65 (2.56)	82 (3.23)	69 (2.72)	82 (3.23)	69 (2.72)	82 (3.23)	69 (2.72)		
May	132 (5.20)	103 (4.06)	135 (5.31)	109 (4.29)	138 (5.43)	116 (4.57)	141 (5.55)	122 (4.80)	145 (5.71)	129 (5.08)	152 (5.98)	137 (5.39)	152 (5.98)	137 (5.39)	152 (5.98)	137 (5.39)		
June	158 (6.22)	139 (5.47)	160 (6.30)	143 (5.63)	162 (6.38)	151 (5.94)	166 (6.54)	158 (6.22)	171 (6.73)	164 (6.46)	175 (6.89)	170 (6.69)	175 (6.89)	170 (6.69)	175 (6.89)	170 (6.69)		
July	188 (7.40)	184 (7.24)	190 (7.48)	189 (7.44)	191 (7.52)	191 (7.52)	194 (7.64)	194 (7.64)	201 (7.91)	197 (7.76)	203 (7.99)	201 (7.91)	203 (7.99)	201 (7.91)	203 (7.99)	201 (7.91)		
Aug	136 (5.35)	132 (5.20)	138 (5.43)	135 (5.31)	140 (5.51)	138 (5.43)	143 (5.63)	141 (5.55)	146 (5.75)	146 (5.75)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)	149 (5.87)		
Season	703 (27.67)	605 (23.82)	714 (28.10)	627 (24.68)	724 (28.50)	650 (25.59)	741 (29.18)	680 (26.77)	764 (30.08)	712 (28.04)	782 (30.79)	740 (29.13)	782 (30.79)	740 (29.13)	782 (30.79)	740 (29.13)		

REGION: 7 Medford-Grants Pass  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	Net IRR in.	ET crop in.	Net IRR mm	Net IRR in.	ET crop mm	Net IRR mm	Net IRR in.	ET crop mm	Net IRR mm	Net IRR in.	ET crop mm	Net IRR mm	Net IRR in.	ET crop mm	Net IRR mm	Net IRR in.
March	50 (1.97)	6 (0.24)	8 (0.31)	52 (2.05)	8 (0.31)	54 (2.13)	15 (0.59)	61 (2.40)	24 (0.94)	65 (2.56)	39 (1.54)	68 (2.68)	47 (1.85)					
April	91 (3.58)	58 (2.28)	63 (2.48)	93 (3.66)	63 (2.48)	95 (3.74)	68 (2.68)	98 (3.86)	76 (2.99)	101 (3.98)	84 (3.31)	104 (4.09)	89 (3.50)					
May	128 (5.04)	96 (3.78)	131 (5.16)	131 (5.16)	102 (4.02)	134 (5.28)	109 (4.29)	137 (5.39)	117 (4.61)	141 (5.55)	126 (4.96)	147 (5.79)	135 (5.31)					
June	153 (6.02)	131 (5.16)	155 (6.10)	155 (6.10)	137 (5.39)	157 (6.18)	144 (5.67)	161 (6.34)	151 (5.94)	166 (6.54)	159 (6.26)	169 (6.65)	165 (6.50)					
July	186 (7.32)	183 (7.20)	189 (7.44)	189 (7.44)	187 (7.36)	191 (7.52)	190 (7.48)	193 (7.60)	192 (7.56)	199 (7.83)	197 (7.76)	201 (7.91)	200 (7.87)					
Aug	154 (6.06)	150 (5.91)	157 (6.18)	157 (6.18)	154 (6.06)	161 (6.34)	158 (6.22)	163 (6.42)	161 (6.34)	167 (6.57)	167 (6.57)	169 (6.65)	169 (6.65)					
Sep	113 (4.45)	95 (3.74)	115 (4.53)	115 (4.53)	99 (3.90)	117 (4.61)	103 (4.06)	120 (4.72)	108 (4.25)	124 (4.88)	115 (4.53)	127 (5.00)	119 (4.69)					
Oct	72 (2.83)	31 (1.22)	73 (2.87)	73 (2.87)	39 (1.54)	74 (2.91)	46 (1.81)	76 (2.99)	54 (2.13)	77 (3.03)	63 (2.48)	79 (3.11)	75 (2.95)					
Nov	10 (0.39)	1 (0.04)	11 (0.43)	11 (0.43)	1 (0.04)	12 (0.47)	1 (0.04)	12 (0.47)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	9 (0.35)					
Season	957 (37.66)	751 (29.57)	976 (38.42)	790 (31.10)	995 (39.18)	834 (32.84)	1021 (40.19)	884 (34.80)	1053 (41.45)	951 (37.45)	1077 (42.39)	1008 (39.67)						

REGION: 7 Medford-Grants Pass  
CROP: Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	Net IRR in.	ET crop in.	Net IRR mm	Net IRR in.	ET crop mm	Net IRR mm	Net IRR in.	ET crop mm	Net IRR mm	Net IRR in.	ET crop mm	Net IRR mm	Net IRR in.	ET crop mm	Net IRR mm	Net IRR in.
March	44 (1.73)	4 (0.16)	5 (0.20)	44 (1.73)	5 (0.20)	45 (1.77)	7 (0.28)	49 (1.93)	15 (0.59)	52 (2.05)	28 (1.10)	57 (2.24)	36 (1.42)					
April	81 (3.19)	51 (2.01)	83 (3.27)	83 (3.27)	56 (2.20)	88 (3.46)	61 (2.40)	90 (3.54)	68 (2.68)	93 (3.66)	77 (3.03)	96 (3.78)	81 (3.19)					
May	128 (5.04)	96 (3.78)	131 (5.16)	131 (5.16)	102 (4.02)	134 (5.28)	109 (4.29)	137 (5.39)	117 (4.61)	141 (5.55)	126 (4.96)	147 (5.79)	135 (5.31)					
June	170 (6.69)	148 (5.83)	172 (6.77)	172 (6.77)	153 (6.02)	175 (6.89)	169 (6.45)	185 (7.28)	176 (6.93)	189 (7.44)	184 (7.24)	193 (7.60)	184 (7.24)					
July	212 (8.35)	207 (8.15)	216 (8.50)	216 (8.50)	212 (8.35)	218 (8.58)	215 (8.46)	220 (8.66)	218 (8.58)	227 (8.94)	222 (8.74)	229 (9.02)	226 (8.90)					
Aug	177 (6.97)	172 (6.77)	179 (7.05)	179 (7.05)	176 (6.93)	182 (7.17)	180 (7.09)	185 (7.28)	184 (7.24)	190 (7.48)	190 (7.48)	193 (7.60)	193 (7.60)					
Sep	123 (4.84)	104 (4.09)	125 (4.92)	125 (4.92)	108 (4.25)	126 (4.96)	112 (4.41)	129 (5.08)	117 (4.61)	133 (5.24)	123 (4.84)	136 (5.35)	128 (5.04)					
Oct	61 (2.40)	22 (0.87)	62 (2.44)	62 (2.44)	29 (1.14)	63 (2.48)	34 (1.34)	64 (2.52)	45 (1.77)	68 (2.68)	53 (2.09)	69 (2.72)	64 (2.52)					
Nov	18 (0.71)	1 (0.04)	18 (0.71)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	19 (0.75)	1 (0.04)	22 (0.87)	2 (0.08)	22 (0.87)	13 (0.51)					
Season	1014 (39.92)	805 (31.70)	1030 (40.55)	842 (33.15)	1050 (41.34)	880 (34.65)	1072 (42.20)	934 (36.77)	1111 (43.75)	997 (39.25)	1138 (44.81)	1060 (41.75)						

REGION: 7 Medford-Grants Pass  
CROP: PLUMS

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
March	44 (1.73)	4 (0.16)	44 (1.73)	5 (0.20)	45 (1.77)	7 (0.28)	49 (1.93)	15 (0.59)	52 (2.05)	28 (1.10)	57 (2.24)	36 (1.42)
April	81 (3.19)	51 (2.01)	83 (3.27)	56 (2.20)	88 (3.46)	61 (2.40)	90 (3.54)	68 (2.68)	93 (3.66)	77 (3.03)	96 (3.78)	81 (3.19)
May	128 (5.04)	96 (3.78)	131 (5.16)	102 (4.02)	134 (5.28)	109 (4.29)	137 (5.39)	117 (4.61)	141 (5.55)	126 (4.96)	147 (5.79)	135 (5.31)
June	170 (6.69)	148 (5.83)	172 (6.77)	153 (6.02)	175 (6.89)	161 (6.34)	179 (7.05)	169 (6.65)	185 (7.28)	176 (6.93)	189 (7.44)	184 (7.24)
July	212 (8.35)	207 (8.15)	216 (8.50)	212 (8.35)	218 (8.58)	215 (8.46)	220 (8.66)	218 (8.58)	227 (8.94)	222 (8.74)	229 (9.02)	226 (8.90)
Aug	177 (6.97)	172 (6.77)	179 (7.05)	176 (6.93)	182 (7.17)	180 (7.09)	185 (7.28)	184 (7.24)	190 (7.48)	190 (7.48)	193 (7.60)	193 (7.60)
Sep	123 (4.84)	104 (4.09)	125 (4.92)	108 (4.25)	126 (4.96)	112 (4.41)	129 (5.08)	117 (4.61)	133 (5.24)	123 (4.84)	136 (5.35)	128 (5.04)
Oct	61 (2.40)	22 (0.87)	62 (2.44)	29 (1.14)	63 (2.48)	34 (1.34)	64 (2.52)	45 (1.77)	68 (2.68)	53 (2.09)	69 (2.72)	64 (2.52)
Nov	18 (0.71)	1 (0.04)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	19 (0.75)	1 (0.04)	22 (0.87)	2 (0.08)	22 (0.87)	13 (0.51)
Season1014	(39.92)	805 (31.70)	1030 (40.55)	842 (33.15)	1050 (41.34)	880 (34.65)	1072 (42.20)	934 (36.77)	1111 (43.75)	997 (39.25)	1138 (44.81)	1060 (41.73)

REGION: 7 Medford-Grants Pass  
CROP: Potatoes

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
May	26 (1.02)	14 (0.55)	26 (1.02)	16 (0.63)	27 (1.06)	19 (0.75)	27 (1.06)	22 (0.87)	28 (1.10)	24 (0.94)	28 (1.10)	26 (1.02)
June	89 (3.50)	74 (2.91)	90 (3.54)	77 (3.03)	91 (3.58)	82 (3.23)	93 (3.66)	88 (3.46)	95 (3.74)	92 (3.62)	97 (3.82)	94 (3.70)
July	207 (8.15)	203 (7.99)	211 (8.31)	208 (8.19)	213 (8.39)	211 (8.31)	215 (8.46)	214 (8.43)	222 (8.74)	217 (8.54)	224 (8.82)	222 (8.74)
Aug	180 (7.09)	173 (6.81)	182 (7.17)	177 (6.97)	185 (7.28)	182 (7.17)	188 (7.40)	187 (7.36)	193 (7.60)	193 (7.60)	196 (7.72)	196 (7.72)
Sep	122 (4.80)	104 (4.09)	124 (4.88)	108 (4.25)	125 (4.92)	112 (4.41)	128 (5.04)	117 (4.61)	132 (5.20)	124 (4.88)	135 (5.31)	128 (5.04)
Oct	29 (1.14)	12 (0.47)	29 (1.14)	15 (0.59)	30 (1.18)	19 (0.75)	30 (1.18)	22 (0.87)	31 (1.22)	25 (0.98)	32 (1.26)	30 (1.18)
Season	653 (25.70)	580 (22.82)	662 (26.06)	601 (23.66)	671 (26.41)	625 (24.62)	681 (26.80)	650 (25.60)	701 (27.60)	675 (26.56)	712 (28.03)	696 (27.40)

REGION: 8 Lake Creek-Little Butte Creek  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	Net IRR in.	ET mm	Net IRR in.	Net IRR in.	ET mm	Net IRR in.	Net IRR in.	ET mm	Net IRR in.	Net IRR in.	ET mm	Net IRR in.	Net IRR in.	ET mm	Net IRR in.	Net IRR in.
March	4 (0.16)	0 (0.00)	0 (0.00)	5 (0.20)	0 (0.00)	0 (0.00)	5 (0.20)	0 (0.00)	0 (0.00)	5 (0.20)	2 (0.08)	2 (0.08)	6 (0.24)	4 (0.16)	4 (0.16)	6 (0.24)	6 (0.24)	5 (0.20)
April	80 (3.15)	27 (1.06)	36 (1.42)	82 (3.23)	36 (1.42)	46 (1.81)	86 (3.39)	46 (1.81)	46 (1.81)	89 (3.50)	55 (2.17)	55 (2.17)	92 (3.62)	67 (2.64)	67 (2.64)	94 (3.70)	94 (3.70)	72 (2.85)
May	116 (4.57)	70 (2.76)	118 (4.65)	118 (4.65)	79 (3.11)	86 (3.39)	119 (4.69)	86 (3.39)	86 (3.39)	122 (4.80)	94 (3.70)	94 (3.70)	126 (4.96)	108 (4.25)	108 (4.25)	130 (5.12)	130 (5.12)	117 (4.61)
June	136 (5.35)	110 (4.33)	139 (5.47)	139 (5.47)	119 (4.69)	127 (5.00)	142 (5.59)	127 (5.00)	127 (5.00)	145 (5.71)	135 (5.31)	135 (5.31)	151 (5.94)	145 (5.71)	145 (5.71)	154 (6.06)	154 (6.06)	153 (6.02)
July	169 (6.65)	165 (6.50)	171 (6.73)	171 (6.73)	167 (6.57)	173 (6.81)	170 (6.69)	173 (6.81)	170 (6.69)	175 (6.89)	172 (6.97)	172 (6.97)	178 (7.01)	177 (6.97)	177 (6.97)	182 (7.17)	182 (7.17)	181 (7.13)
Aug	139 (5.47)	132 (5.20)	142 (5.59)	142 (5.59)	136 (5.35)	145 (5.71)	139 (5.47)	145 (5.71)	139 (5.47)	147 (5.79)	144 (5.67)	144 (5.67)	150 (5.91)	149 (5.87)	149 (5.87)	153 (6.02)	153 (6.02)	152 (5.98)
Sep	102 (4.02)	78 (3.07)	104 (4.09)	104 (4.09)	83 (3.27)	107 (4.21)	107 (4.21)	88 (3.46)	88 (3.46)	109 (4.29)	95 (3.74)	95 (3.74)	113 (4.45)	104 (4.09)	104 (4.09)	115 (4.53)	115 (4.53)	108 (4.25)
Season	746 (29.37)	582 (22.92)	761 (29.96)	761 (29.96)	620 (24.41)	777 (30.60)	656 (25.82)	792 (27.44)	697 (27.44)	816 (32.13)	754 (29.69)	754 (29.69)	834 (32.84)	788 (31.02)	788 (31.02)			

REGION: 8 Lake Creek-Little Butte Creek  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	Net IRR in.	ET mm	Net IRR in.	Net IRR in.	ET mm	Net IRR in.	Net IRR in.	ET mm	Net IRR in.	Net IRR in.	ET mm	Net IRR in.	Net IRR in.	ET mm	Net IRR in.	Net IRR in.
March	40 (1.57)	2 (0.08)	3 (0.12)	44 (1.73)	3 (0.12)	3 (0.12)	45 (1.77)	3 (0.12)	3 (0.12)	47 (1.85)	4 (0.16)	4 (0.16)	50 (1.97)	11 (0.43)	11 (0.43)	51 (2.01)	26 (1.02)	
April	83 (3.27)	30 (1.18)	39 (1.54)	85 (3.35)	39 (1.54)	49 (1.95)	89 (3.50)	49 (1.95)	49 (1.95)	93 (3.66)	58 (2.28)	58 (2.28)	96 (3.78)	70 (2.76)	70 (2.76)	98 (3.86)	76 (2.99)	
May	137 (5.39)	88 (3.46)	139 (5.47)	139 (5.47)	95 (3.74)	104 (4.09)	141 (5.55)	104 (4.09)	104 (4.09)	144 (5.67)	114 (4.49)	114 (4.49)	149 (5.87)	128 (5.04)	128 (5.04)	154 (6.06)	138 (5.43)	
June	178 (7.01)	148 (5.83)	181 (7.13)	181 (7.13)	158 (6.22)	185 (7.28)	167 (6.57)	185 (7.28)	167 (6.57)	190 (7.48)	177 (6.97)	177 (6.97)	197 (7.76)	190 (7.48)	190 (7.48)	201 (7.91)	199 (7.83)	
July	223 (8.78)	221 (8.70)	225 (8.86)	225 (8.86)	224 (8.82)	227 (8.94)	227 (8.94)	227 (8.94)	227 (8.94)	232 (9.13)	231 (9.09)	231 (9.09)	237 (9.33)	237 (9.33)	237 (9.33)	242 (9.53)	241 (9.49)	
Aug	184 (7.24)	178 (7.01)	188 (7.40)	188 (7.40)	182 (7.17)	192 (7.56)	187 (7.36)	194 (7.64)	192 (7.56)	194 (7.64)	192 (7.56)	192 (7.56)	198 (7.80)	198 (7.80)	198 (7.80)	203 (7.99)	201 (7.91)	
Sep	128 (5.04)	104 (4.09)	131 (5.16)	131 (5.16)	109 (4.29)	135 (5.31)	115 (4.53)	138 (5.43)	122 (4.80)	143 (5.63)	131 (5.16)	131 (5.16)	146 (5.75)	136 (5.35)	136 (5.35)	153 (6.02)	152 (5.98)	
Oct	61 (2.40)	7 (0.28)	63 (2.48)	63 (2.48)	11 (0.43)	64 (2.52)	19 (0.75)	66 (2.60)	33 (1.30)	70 (2.76)	46 (1.81)	46 (1.81)	75 (2.95)	64 (2.52)	64 (2.52)			
Nov	16 (0.63)	1 (0.04)	17 (0.67)	17 (0.67)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	1 (0.04)	20 (0.79)	2 (0.08)	2 (0.08)	21 (0.83)	3 (0.12)	3 (0.12)			
Season	1050 (41.33)	779 (30.67)	1073 (42.25)	1073 (42.25)	822 (32.37)	1097 (43.18)	872 (34.33)	1124 (44.25)	932 (36.69)	1160 (45.69)	1013 (39.89)	1191 (46.89)	1084 (42.66)					

REGION: 8 Lake Creek-Little Butte Creek  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
March	40 (1.57)	2 (0.08)	44 (1.73)	3 (0.12)	45 (1.77)	3 (0.12)	47 (1.85)	4 (0.16)	50 (1.97)	11 (0.43)	51 (2.01)	26 (1.02)						
April	83 (3.27)	30 (1.18)	85 (3.35)	39 (1.54)	89 (3.50)	49 (1.93)	93 (3.66)	58 (2.28)	96 (3.78)	70 (2.76)	98 (3.86)	76 (2.99)						
May	137 (5.39)	88 (3.46)	139 (5.47)	95 (3.74)	141 (5.55)	104 (4.09)	144 (5.67)	114 (4.49)	149 (5.87)	128 (5.04)	154 (6.06)	138 (5.43)						
June	178 (7.01)	148 (5.83)	181 (7.13)	158 (6.22)	185 (7.28)	167 (6.57)	190 (7.48)	177 (6.97)	197 (7.76)	190 (7.48)	201 (7.91)	199 (7.83)						
July	223 (8.78)	221 (8.70)	225 (8.86)	224 (8.82)	227 (8.94)	227 (8.94)	232 (9.13)	231 (9.09)	237 (9.33)	237 (9.33)	242 (9.53)	241 (9.49)						
Aug	184 (7.24)	178 (7.01)	188 (7.40)	182 (7.17)	192 (7.56)	187 (7.36)	194 (7.64)	192 (7.56)	198 (7.80)	198 (7.80)	203 (7.99)	201 (7.91)						
Sep	128 (5.04)	104 (4.09)	131 (5.16)	109 (4.29)	135 (5.31)	115 (4.53)	138 (5.43)	122 (4.80)	143 (5.63)	131 (5.16)	146 (5.75)	136 (5.35)						
Oct	61 (2.40)	7 (0.28)	63 (2.48)	11 (0.43)	64 (2.52)	19 (0.75)	66 (2.60)	33 (1.30)	70 (2.76)	46 (1.81)	75 (2.95)	64 (2.52)						
Nov	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	1 (0.04)	20 (0.79)	2 (0.08)	21 (0.83)	3 (0.12)						
Season1050	(41.33)	779 (30.67)	1073 (42.25)	822 (32.37)	1097 (43.18)	872 (34.33)	1124 (44.25)	932 (36.69)	1160 (45.69)	1013 (39.89)	1191 (46.89)	1084 (42.66)						

REGION: 8 Lake Creek-Little Butte Creek  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
May	65 (2.56)	23 (0.91)	65 (2.56)	31 (1.22)	66 (2.60)	37 (1.46)	67 (2.64)	44 (1.73)	69 (2.72)	54 (2.13)	70 (2.76)	60 (2.36)						
June	131 (5.16)	102 (4.02)	133 (5.24)	110 (4.33)	135 (5.31)	119 (4.69)	138 (5.43)	128 (5.04)	143 (5.63)	138 (5.43)	146 (5.75)	144 (5.67)						
July	206 (8.11)	203 (7.99)	208 (8.19)	206 (8.11)	210 (8.27)	210 (8.27)	215 (8.46)	213 (8.59)	221 (8.70)	218 (8.58)	225 (8.86)	223 (8.78)						
Aug	169 (6.65)	163 (6.42)	173 (6.81)	167 (6.57)	176 (6.93)	172 (6.77)	179 (7.05)	177 (6.97)	182 (7.17)	182 (7.17)	186 (7.32)	184 (7.24)						
Sep	59 (2.32)	48 (1.89)	59 (2.32)	52 (2.05)	60 (2.36)	54 (2.13)	61 (2.40)	57 (2.24)	65 (2.56)	60 (2.36)	66 (2.60)	62 (2.44)						
Season 630	(24.80)	539 (21.23)	638 (25.12)	566 (22.28)	647 (25.47)	592 (23.32)	660 (25.98)	619 (24.37)	680 (26.78)	652 (25.67)	693 (27.29)	673 (26.49)						

REGION: 8 Lake Creek-Little Butte Creek  
 CROP: Filberts

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	40 (1.57)	2 (0.08)	44 (1.73)	3 (0.12)	45 (1.77)	3 (0.12)	47 (1.85)	4 (0.16)	50 (1.97)	11 (0.43)	51 (2.01)	26 (1.02)						
April	83 (3.27)	30 (1.18)	85 (3.35)	39 (1.54)	89 (3.50)	49 (1.93)	93 (3.66)	58 (2.28)	96 (3.78)	70 (2.76)	98 (3.86)	76 (2.99)						
May	137 (5.39)	88 (3.46)	139 (5.47)	95 (3.74)	141 (5.55)	104 (4.09)	144 (5.67)	114 (4.49)	149 (5.87)	128 (5.04)	154 (6.06)	138 (5.43)						
June	178 (7.01)	148 (5.83)	181 (7.13)	158 (6.22)	185 (7.28)	167 (6.57)	190 (7.48)	177 (6.97)	197 (7.76)	190 (7.48)	201 (7.91)	199 (7.83)						
July	223 (8.78)	221 (8.70)	225 (8.86)	224 (8.82)	227 (8.94)	227 (8.94)	232 (9.13)	231 (9.09)	237 (9.33)	237 (9.33)	242 (9.53)	241 (9.49)						
Aug	184 (7.24)	178 (7.01)	188 (7.40)	182 (7.17)	192 (7.56)	187 (7.36)	194 (7.64)	192 (7.56)	198 (7.80)	198 (7.80)	203 (7.99)	201 (7.91)						
Sep	128 (5.04)	104 (4.09)	131 (5.16)	109 (4.29)	135 (5.31)	115 (4.53)	138 (5.43)	122 (4.80)	143 (5.63)	131 (5.16)	146 (5.75)	136 (5.35)						
Oct	61 (2.40)	7 (0.28)	63 (2.48)	11 (0.43)	64 (2.52)	19 (0.75)	66 (2.60)	33 (1.30)	70 (2.76)	46 (1.81)	75 (2.95)	64 (2.52)						
Nov	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	1 (0.04)	20 (0.79)	2 (0.08)	21 (0.85)	3 (0.12)						
Season1050	(41.33)	779 (30.67)	1073 (42.25)	822 (32.37)	1097 (43.18)	872 (34.33)	1124 (44.25)	932 (36.69)	1160 (45.69)	1013 (39.89)	1191 (46.89)	1084 (42.66)						

REGION: 8 Lake Creek-Little Butte Creek  
 CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	16 (0.63)	1 (0.04)	18 (0.71)	1 (0.04)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	2 (0.08)	20 (0.79)	8 (0.31)						
April	64 (2.52)	14 (0.55)	66 (2.60)	22 (0.87)	69 (2.72)	32 (1.26)	72 (2.83)	39 (1.54)	75 (2.95)	51 (2.01)	76 (2.99)	55 (2.17)						
May	138 (5.43)	89 (3.50)	140 (5.51)	96 (3.78)	142 (5.59)	104 (4.09)	145 (5.71)	114 (4.49)	150 (5.91)	130 (5.12)	155 (6.10)	140 (5.51)						
June	168 (6.61)	138 (5.43)	172 (6.77)	146 (5.75)	174 (6.85)	155 (6.10)	176 (6.93)	163 (6.42)	183 (7.20)	176 (6.93)	187 (7.36)	184 (7.24)						
July	160 (6.50)	156 (6.14)	162 (6.38)	159 (6.26)	164 (6.46)	162 (6.38)	165 (6.50)	165 (6.50)	170 (6.69)	170 (6.69)	173 (6.81)	172 (6.77)						
Aug	12 (0.47)	12 (0.47)	13 (0.51)	12 (0.47)	13 (0.51)	13 (0.51)	13 (0.51)	13 (0.51)	13 (0.51)	13 (0.51)	14 (0.55)	14 (0.55)						
Season 558	(21.96)	410 (16.13)	571 (22.48)	436 (17.17)	580 (22.84)	467 (18.38)	590 (23.23)	495 (19.50)	611 (24.05)	542 (21.34)	625 (24.60)	573 (22.55)						

REGION: 8 Lake Creek-Little Butte Creek  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	27 (1.06)	1 (0.04)	28 (1.10)	2 (0.08)	30 (1.18)	2 (0.08)	30 (1.18)	2 (0.08)	30 (1.18)	2 (0.08)	32 (1.26)	2 (0.08)	32 (1.26)	2 (0.08)	32 (1.26)	13 (0.51)		
April	63 (2.48)	13 (0.51)	65 (2.56)	20 (0.79)	68 (2.58)	31 (1.22)	70 (2.76)	37 (1.46)	74 (2.91)	49 (1.93)	74 (2.91)	74 (2.91)	74 (2.91)	75 (2.95)	75 (2.95)	55 (2.17)		
May	131 (5.16)	84 (3.31)	133 (5.24)	92 (3.62)	135 (5.31)	99 (3.90)	139 (5.47)	108 (4.25)	143 (5.63)	124 (4.88)	143 (5.63)	143 (5.63)	143 (5.63)	149 (5.87)	149 (5.87)	134 (5.28)		
June	168 (6.61)	138 (5.43)	173 (6.81)	146 (5.75)	175 (6.89)	155 (6.10)	177 (6.97)	164 (6.46)	184 (7.24)	177 (6.97)	184 (7.24)	184 (7.24)	184 (7.24)	187 (7.36)	187 (7.36)	185 (7.28)		
July	149 (5.87)	145 (5.71)	151 (5.94)	147 (5.79)	153 (6.02)	150 (5.91)	154 (6.06)	153 (6.02)	157 (6.18)	157 (6.18)	157 (6.18)	157 (6.18)	157 (6.18)	161 (6.34)	161 (6.34)	161 (6.34)		
Season	538 (21.18)	381 (15.00)	550 (21.65)	407 (16.03)	561 (22.08)	437 (17.21)	570 (22.44)	464 (18.27)	590 (23.22)	509 (20.04)	604 (23.78)	548 (21.58)						

REGION: 8 Lake Creek-Little Butte Creek  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
Jan	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)		
Feb	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	17 (0.67)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	18 (0.71)	1 (0.04)	20 (0.79)	1 (0.04)		
March	19 (0.75)	1 (0.04)	21 (0.83)	1 (0.04)	22 (0.87)	1 (0.04)	23 (0.91)	1 (0.04)	23 (0.91)	1 (0.04)	23 (0.91)	2 (0.08)	23 (0.91)	2 (0.08)	24 (0.94)	2 (0.08)		
April	46 (1.81)	4 (0.16)	48 (1.89)	6 (0.24)	49 (1.93)	14 (0.55)	51 (2.01)	21 (0.83)	53 (2.09)	30 (1.18)	54 (2.13)	30 (1.18)	54 (2.13)	36 (1.42)	54 (2.13)	36 (1.42)		
May	74 (2.91)	30 (1.18)	75 (2.95)	37 (1.46)	77 (3.03)	47 (1.85)	78 (3.07)	54 (2.13)	80 (3.15)	62 (2.44)	80 (3.15)	62 (2.44)	83 (3.27)	69 (2.72)	83 (3.27)	69 (2.72)		
June	117 (4.61)	92 (3.62)	118 (4.65)	99 (3.90)	120 (4.72)	105 (4.13)	123 (4.84)	112 (4.41)	126 (4.96)	122 (4.80)	126 (4.96)	122 (4.80)	129 (5.08)	129 (5.08)	129 (5.08)	129 (5.08)		
July	181 (7.13)	177 (6.97)	183 (7.20)	180 (7.09)	186 (7.32)	184 (7.24)	189 (7.44)	187 (7.36)	192 (7.56)	192 (7.56)	192 (7.56)	192 (7.56)	196 (7.72)	195 (7.68)	196 (7.72)	195 (7.68)		
Aug	167 (6.57)	160 (6.30)	170 (6.69)	164 (6.46)	174 (6.85)	168 (6.61)	177 (6.97)	173 (6.81)	180 (7.09)	179 (7.05)	180 (7.09)	179 (7.05)	184 (7.24)	181 (7.13)	184 (7.24)	181 (7.13)		
Sep	122 (4.80)	97 (3.82)	125 (4.92)	103 (4.06)	128 (5.04)	110 (4.53)	132 (5.20)	116 (4.57)	136 (5.35)	124 (4.88)	139 (5.47)	130 (5.12)	139 (5.47)	130 (5.12)	139 (5.47)	130 (5.12)		
Oct	76 (2.99)	11 (0.43)	78 (3.07)	23 (0.91)	80 (3.15)	33 (1.30)	82 (3.23)	42 (1.65)	87 (3.43)	62 (2.44)	87 (3.43)	62 (2.44)	90 (3.54)	80 (3.15)	90 (3.54)	80 (3.15)		
Nov	22 (0.87)	1 (0.04)	23 (0.91)	1 (0.04)	26 (1.02)	2 (0.08)	27 (1.06)	2 (0.08)	28 (1.10)	2 (0.08)	28 (1.10)	2 (0.08)	29 (1.14)	9 (0.35)	29 (1.14)	9 (0.35)		
Dec	3 (0.12)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	9 (0.35)	0 (0.00)		
Season	847 (33.35)	574 (22.60)	868 (34.18)	615 (24.24)	890 (35.04)	665 (26.17)	913 (35.96)	709 (27.92)	941 (37.05)	776 (30.55)	967 (38.06)	832 (32.77)						



REGION: 8 Lake Creek-Little Butte Creek  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
March	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	18 (0.71)	2 (0.08)	19 (0.75)	4 (0.16)	20 (0.79)	11 (0.43)	20 (0.79)	4 (0.16)	20 (0.79)	11 (0.43)	20 (0.79)	4 (0.16)	20 (0.79)
April	68 (2.68)	23 (0.91)	70 (2.76)	30 (1.18)	72 (2.83)	39 (1.54)	75 (2.95)	47 (1.85)	78 (3.07)	57 (2.24)	80 (3.15)	61 (2.40)	80 (3.15)	57 (2.24)	80 (3.15)	61 (2.40)	80 (3.15)	57 (2.24)	80 (3.15)
May	128 (5.04)	84 (3.31)	130 (5.12)	91 (3.58)	132 (5.20)	98 (3.86)	135 (5.31)	108 (4.25)	139 (5.47)	121 (4.76)	144 (5.67)	130 (5.12)	144 (5.67)	121 (4.76)	144 (5.67)	130 (5.12)	144 (5.67)	121 (4.76)	144 (5.67)
June	151 (5.94)	127 (5.00)	154 (6.06)	135 (5.31)	157 (6.18)	142 (5.59)	161 (6.34)	150 (5.91)	167 (6.57)	161 (6.34)	170 (6.69)	169 (6.65)	170 (6.69)	161 (6.34)	170 (6.69)	169 (6.65)	170 (6.69)	161 (6.34)	170 (6.69)
July	182 (7.17)	179 (7.05)	184 (7.24)	182 (7.17)	186 (7.32)	184 (7.24)	188 (7.40)	187 (7.36)	193 (7.60)	192 (7.56)	197 (7.76)	195 (7.68)	197 (7.76)	192 (7.56)	197 (7.76)	195 (7.68)	197 (7.76)	192 (7.56)	197 (7.76)
Aug	131 (5.16)	125 (4.92)	133 (5.24)	128 (5.04)	135 (5.31)	131 (5.16)	137 (5.39)	135 (5.31)	140 (5.51)	140 (5.51)	143 (5.63)	142 (5.59)	143 (5.63)	140 (5.51)	143 (5.63)	142 (5.59)	143 (5.63)	140 (5.51)	143 (5.63)
Season	676 (26.62)	539 (21.23)	688 (27.09)	567 (22.32)	700 (27.55)	595 (23.43)	714 (28.10)	629 (24.76)	736 (28.97)	675 (26.57)	754 (29.69)	708 (27.87)	754 (29.69)	675 (26.57)	754 (29.69)	708 (27.87)	754 (29.69)	675 (26.57)	754 (29.69)

REGION: 8 Lake Creek-Little Butte Creek  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
March	48 (1.89)	3 (0.12)	53 (2.09)	4 (0.16)	55 (2.17)	4 (0.16)	57 (2.24)	5 (0.20)	61 (2.40)	21 (0.83)	62 (2.44)	31 (1.22)	62 (2.44)	21 (0.83)	62 (2.44)	31 (1.22)	62 (2.44)	21 (0.83)	62 (2.44)
April	84 (3.31)	32 (1.26)	86 (3.39)	40 (1.57)	90 (3.54)	50 (1.97)	93 (3.66)	59 (2.32)	98 (3.86)	73 (2.87)	101 (3.98)	77 (3.03)	101 (3.98)	73 (2.87)	101 (3.98)	77 (3.03)	101 (3.98)	73 (2.87)	101 (3.98)
May	124 (4.88)	76 (2.99)	126 (4.96)	84 (3.31)	128 (5.04)	92 (3.62)	131 (5.16)	101 (3.98)	134 (5.28)	116 (4.57)	139 (5.47)	125 (4.92)	139 (5.47)	116 (4.57)	139 (5.47)	125 (4.92)	139 (5.47)	116 (4.57)	139 (5.47)
June	147 (5.79)	118 (4.65)	151 (5.94)	126 (4.96)	153 (6.02)	135 (5.31)	155 (6.10)	144 (5.67)	161 (6.34)	154 (6.06)	164 (6.46)	161 (6.34)	164 (6.46)	154 (6.06)	164 (6.46)	161 (6.34)	164 (6.46)	154 (6.06)	164 (6.46)
July	180 (7.09)	175 (6.89)	183 (7.20)	178 (7.01)	184 (7.24)	181 (7.13)	186 (7.32)	184 (7.24)	192 (7.56)	189 (7.44)	195 (7.68)	193 (7.60)	195 (7.68)	189 (7.44)	195 (7.68)	193 (7.60)	195 (7.68)	189 (7.44)	195 (7.68)
Aug	149 (5.87)	142 (5.59)	151 (5.94)	146 (5.75)	155 (6.10)	149 (5.87)	157 (6.18)	154 (6.06)	160 (6.30)	159 (6.26)	163 (6.42)	162 (6.38)	163 (6.42)	159 (6.26)	163 (6.42)	162 (6.38)	163 (6.42)	159 (6.26)	163 (6.42)
Sep	108 (4.25)	85 (3.35)	111 (4.37)	90 (3.54)	114 (4.49)	95 (3.74)	117 (4.61)	102 (4.02)	121 (4.76)	110 (4.33)	123 (4.84)	115 (4.53)	123 (4.84)	110 (4.33)	123 (4.84)	115 (4.53)	123 (4.84)	110 (4.33)	123 (4.84)
Oct	68 (2.68)	8 (0.31)	69 (2.72)	19 (0.75)	71 (2.80)	27 (1.06)	73 (2.87)	37 (1.46)	77 (3.03)	55 (2.17)	82 (3.23)	71 (2.80)	82 (3.23)	55 (2.17)	82 (3.23)	71 (2.80)	82 (3.23)	55 (2.17)	82 (3.23)
Nov	9 (0.35)	0 (0.00)	10 (0.39)	1 (0.04)	11 (0.43)	1 (0.04)	12 (0.47)	1 (0.04)	12 (0.47)	1 (0.04)	12 (0.47)	5 (0.20)	12 (0.47)	1 (0.04)	12 (0.47)	5 (0.20)	12 (0.47)	1 (0.04)	12 (0.47)
Season	917 (36.11)	639 (25.16)	940 (37.00)	688 (27.09)	961 (37.83)	734 (28.90)	981 (38.61)	787 (30.99)	1016 (40.00)	878 (34.57)	1041 (40.99)	940 (37.02)	1041 (40.99)	878 (34.57)	1041 (40.99)	940 (37.02)	1041 (40.99)	878 (34.57)	1041 (40.99)

REGION: 8 Lake Creek-Little Butte Creek  
 Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	40 (1.57)	2 (0.08)	44 (1.73)	3 (0.12)	45 (1.77)	3 (0.12)	47 (1.85)	4 (0.16)	50 (1.97)	11 (0.43)	51 (2.01)	26 (1.02)						
April	78 (3.07)	25 (0.98)	81 (3.19)	33 (1.30)	85 (3.35)	44 (1.73)	88 (3.46)	53 (2.09)	91 (3.58)	66 (2.60)	93 (3.66)	71 (2.80)						
May	125 (4.92)	77 (3.03)	127 (5.00)	85 (3.35)	129 (5.08)	92 (3.62)	132 (5.20)	101 (3.98)	136 (5.35)	117 (4.61)	140 (5.51)	126 (4.96)						
June	167 (6.57)	136 (5.35)	170 (6.69)	144 (5.67)	172 (6.77)	153 (6.02)	174 (6.85)	162 (6.38)	181 (7.13)	174 (6.85)	184 (7.24)	183 (7.20)						
July	204 (8.03)	202 (7.95)	206 (8.11)	205 (8.07)	208 (8.19)	208 (8.19)	213 (8.39)	211 (8.31)	219 (8.62)	217 (8.54)	223 (8.78)	221 (8.70)						
Aug	169 (6.65)	163 (6.42)	173 (6.81)	167 (6.57)	176 (6.93)	172 (6.77)	179 (7.05)	177 (6.97)	182 (7.17)	182 (7.17)	186 (7.32)	184 (7.24)						
Sep	117 (4.61)	94 (3.70)	120 (4.72)	99 (3.90)	123 (4.84)	105 (4.13)	126 (4.96)	112 (4.41)	130 (5.12)	120 (4.72)	133 (5.24)	125 (4.92)						
Oct	58 (2.28)	6 (0.24)	59 (2.32)	10 (0.39)	61 (2.40)	17 (0.67)	63 (2.48)	25 (0.98)	66 (2.60)	42 (1.65)	71 (2.80)	61 (2.40)						
Nov	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	1 (0.04)	20 (0.79)	2 (0.08)	21 (0.83)	3 (0.12)						
Season	974 (38.33)	706 (27.79)	997 (39.24)	747 (29.41)	1018 (40.08)	795 (31.29)	1042 (41.03)	846 (33.32)	1075 (42.33)	931 (36.65)	1102 (43.39)	1000 (39.36)						

REGION: 8 Lake Creek-Little Butte Creek  
 Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	17 (0.67)	1 (0.04)	19 (0.75)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	2 (0.08)	20 (0.79)	2 (0.08)	21 (0.83)	9 (0.35)						
April	83 (3.27)	29 (1.14)	85 (3.35)	38 (1.50)	88 (3.46)	49 (1.93)	91 (3.58)	58 (2.28)	97 (3.82)	71 (2.80)	99 (3.90)	76 (2.99)						
May	140 (5.51)	90 (3.54)	142 (5.59)	98 (3.86)	144 (5.67)	106 (4.17)	148 (5.83)	117 (4.61)	152 (5.98)	132 (5.20)	157 (6.18)	142 (5.59)						
June	162 (6.38)	133 (5.24)	165 (6.50)	140 (5.51)	168 (6.61)	148 (5.83)	170 (6.69)	157 (6.18)	176 (6.93)	170 (6.69)	180 (7.09)	178 (7.01)						
Season	402 (15.83)	253 (9.96)	411 (16.19)	277 (10.91)	419 (16.49)	304 (11.97)	429 (16.89)	334 (13.15)	445 (17.52)	375 (14.77)	457 (18.00)	405 (15.94)						

REGION: 8 Lake Creek-Little Butte Creek  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET mm	Net IRR in.	Net crop in.	ET mm	Net IRR in.	Net crop in.	ET mm	Net IRR in.	Net crop in.	ET mm	Net IRR in.	Net crop in.	ET mm	Net IRR in.	Net crop in.	ET mm	Net IRR in.	Net crop in.						
March	40 (1.57)	2 (0.08)	44 (1.73)	3 (0.12)	45 (1.77)	3 (0.12)	47 (1.85)	4 (0.16)	50 (1.97)	11 (0.43)	51 (2.01)	26 (1.02)	78 (3.07)	25 (0.98)	81 (3.19)	33 (1.30)	85 (3.35)	44 (1.73)	88 (3.46)	53 (2.09)	91 (3.58)	66 (2.60)	93 (3.66)	71 (2.80)
April	125 (4.92)	77 (3.03)	127 (5.00)	85 (3.35)	129 (5.08)	92 (3.62)	132 (5.20)	101 (3.98)	136 (5.35)	117 (4.61)	140 (5.51)	126 (4.96)	167 (6.57)	136 (5.35)	170 (6.69)	144 (5.67)	172 (6.77)	153 (6.02)	174 (6.85)	162 (6.38)	181 (7.13)	174 (6.85)	184 (7.24)	183 (7.20)
May	204 (8.03)	202 (7.95)	206 (8.11)	205 (8.07)	208 (8.19)	208 (8.19)	213 (8.39)	211 (8.31)	219 (8.62)	217 (8.54)	223 (8.78)	221 (8.70)	169 (6.65)	163 (6.42)	173 (6.81)	167 (6.57)	176 (6.93)	172 (6.77)	179 (7.05)	177 (6.97)	182 (7.17)	186 (7.32)	184 (7.24)	
June	117 (4.61)	94 (3.70)	120 (4.72)	99 (3.90)	123 (4.84)	105 (4.13)	126 (4.96)	112 (4.41)	130 (5.12)	120 (4.72)	133 (5.24)	125 (4.92)	58 (2.28)	6 (0.24)	59 (2.32)	10 (0.39)	61 (2.40)	17 (0.67)	63 (2.48)	25 (0.98)	66 (2.60)	42 (1.65)	71 (2.80)	61 (2.40)
July	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	1 (0.04)	20 (0.79)	1 (0.04)	20 (0.79)	2 (0.08)	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	2 (0.08)	20 (0.79)	2 (0.08)	21 (0.83)	3 (0.12)
Season	974 (38.33)	706 (27.79)	997 (39.24)	747 (29.41)	1018 (40.08)	795 (31.29)	1042 (41.03)	846 (33.32)	1075 (42.33)	931 (36.65)	1102 (43.39)	1000 (39.36)												

REGION: 9 Hood River Valley  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET mm	Net IRR in.	Net crop in.	ET mm	Net IRR in.	Net crop in.	ET mm	Net IRR in.	Net crop in.	ET mm	Net IRR in.	Net crop in.	ET mm	Net IRR in.	Net crop in.	ET mm	Net IRR in.	Net crop in.						
April	60 (2.36)	27 (1.06)	61 (2.40)	32 (1.26)	63 (2.48)	40 (1.57)	65 (2.56)	45 (1.77)	66 (2.60)	50 (1.97)	67 (2.64)	57 (2.24)	124 (4.88)	90 (3.54)	126 (4.96)	97 (3.82)	128 (5.04)	104 (4.09)	132 (5.20)	111 (4.37)	136 (5.35)	118 (4.65)	138 (5.43)	124 (4.88)
May	141 (5.55)	121 (4.76)	142 (5.59)	127 (5.00)	143 (5.63)	132 (5.20)	148 (5.83)	137 (5.39)	152 (5.98)	144 (5.67)	153 (6.02)	149 (5.87)	171 (6.73)	166 (6.54)	172 (6.77)	169 (6.65)	173 (6.81)	172 (6.77)	174 (6.85)	174 (6.85)	179 (7.05)	178 (7.01)	181 (7.13)	181 (7.13)
June	142 (5.59)	134 (5.28)	144 (5.67)	137 (5.39)	145 (5.71)	140 (5.51)	147 (5.79)	143 (5.63)	152 (5.98)	150 (5.91)	154 (6.06)	154 (6.06)	99 (3.90)	75 (2.95)	101 (3.98)	81 (3.19)	103 (4.06)	88 (3.46)	104 (4.09)	95 (3.74)	106 (4.17)	101 (3.98)	108 (4.25)	104 (4.09)
Season	737 (29.01)	613 (24.13)	746 (29.37)	643 (25.31)	755 (29.73)	676 (26.60)	770 (30.32)	705 (27.75)	791 (31.13)	741 (29.19)	801 (31.53)	769 (30.27)												

REGION: 9 Hood River Valley  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years											
	ET crop mm	Net IRR in.	in.	ET crop mm	Net IRR in.	in.	ET crop mm	Net IRR in.	in.	ET crop mm	Net IRR in.	in.	ET crop mm	Net IRR in.	in.	ET crop mm	Net IRR in.	in.									
March	41 (1.61)	2 (0.08)	42 (1.65)	2 (0.08)	43 (1.69)	2 (0.08)	45 (1.77)	3 (0.12)	48 (1.89)	12 (0.47)	51 (2.01)	23 (0.91)	87 (3.27)	40 (1.57)	91 (3.58)	48 (1.89)	95 (3.74)	58 (2.28)	97 (3.82)	66 (2.60)	98 (3.86)	73 (2.87)	101 (3.98)	83 (3.27)			
April	87 (3.43)	40 (1.57)	91 (3.58)	48 (1.89)	95 (3.74)	58 (2.28)	153 (6.02)	125 (4.92)	158 (6.22)	132 (5.20)	161 (6.34)	142 (5.59)	163 (6.42)	149 (5.87)	148 (5.83)	112 (4.41)	150 (5.91)	119 (4.69)	153 (6.22)	132 (5.20)	158 (6.34)	142 (5.59)	163 (6.42)	149 (5.87)	158 (6.22)	132 (5.20)	
May	148 (7.20)	158 (6.22)	186 (7.32)	164 (6.46)	188 (7.40)	171 (6.73)	190 (7.48)	178 (7.01)	198 (7.80)	187 (7.36)	200 (7.87)	194 (7.64)	226 (8.90)	219 (8.62)	228 (8.98)	222 (8.74)	229 (9.02)	226 (8.90)	230 (9.06)	237 (9.33)	237 (9.33)	237 (9.33)	240 (9.45)	240 (9.45)	240 (9.45)	240 (9.45)	
June	226 (8.90)	219 (8.62)	228 (8.98)	222 (8.74)	229 (9.02)	226 (8.90)	230 (9.06)	237 (9.33)	237 (9.33)	237 (9.33)	240 (9.45)	240 (9.45)	240 (9.45)	240 (9.45)	188 (7.40)	177 (6.97)	190 (7.48)	183 (7.20)	192 (7.56)	187 (7.36)	195 (7.68)	191 (7.52)	201 (7.91)	200 (7.87)	204 (8.03)	204 (8.03)	
July	188 (7.40)	177 (6.97)	190 (7.48)	183 (7.20)	192 (7.56)	187 (7.36)	195 (7.68)	191 (7.52)	201 (7.91)	200 (7.87)	204 (8.03)	204 (8.03)	204 (8.03)	204 (8.03)	125 (4.92)	97 (3.82)	127 (5.00)	104 (4.09)	131 (5.16)	120 (4.72)	134 (5.28)	128 (5.04)	139 (5.47)	131 (5.16)	139 (5.47)	131 (5.16)	
Aug	125 (4.92)	97 (3.82)	127 (5.00)	104 (4.09)	131 (5.16)	120 (4.72)	134 (5.28)	128 (5.04)	139 (5.47)	131 (5.16)	139 (5.47)	131 (5.16)	139 (5.47)	131 (5.16)	56 (2.20)	5 (0.20)	57 (2.24)	6 (0.24)	60 (2.36)	32 (1.26)	62 (2.44)	39 (1.54)	63 (2.48)	57 (2.24)	63 (2.48)	57 (2.24)	
Sep	56 (2.20)	5 (0.20)	57 (2.24)	6 (0.24)	60 (2.36)	32 (1.26)	62 (2.44)	39 (1.54)	63 (2.48)	57 (2.24)	63 (2.48)	57 (2.24)	63 (2.48)	57 (2.24)	11 (0.43)	0 (0.00)	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	
Oct	11 (0.43)	0 (0.00)	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	11 (0.43)	0 (0.00)	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	
Nov	11 (0.43)	0 (0.00)	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	11 (0.43)	0 (0.00)	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	
Season	1065 (41.92)	810 (31.89)	1085 (42.71)	848 (33.39)	1103 (43.42)	892 (35.11)	1121 (44.14)	952 (37.49)	1155 (45.48)	1018 (40.07)	1178 (46.38)	1081 (42.57)															

REGION: 9 Hood River Valley  
CROP: Berries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years										
	ET crop mm	Net IRR in.	in.	ET crop mm	Net IRR in.	in.	ET crop mm	Net IRR in.	in.	ET crop mm	Net IRR in.	in.	ET crop mm	Net IRR in.	in.	ET crop mm	Net IRR in.	in.								
May	21 (0.83)	14 (0.55)	22 (0.87)	15 (0.59)	22 (0.87)	17 (0.67)	22 (0.87)	19 (0.75)	23 (0.91)	21 (0.83)	23 (0.91)	22 (0.87)	83 (3.27)	65 (2.56)	84 (3.31)	85 (3.35)	75 (2.95)	87 (3.43)	79 (3.11)	88 (3.46)	84 (3.31)	89 (3.50)	87 (3.43)	89 (3.50)	87 (3.43)	
June	83 (3.27)	65 (2.56)	84 (3.31)	71 (2.80)	85 (3.35)	75 (2.95)	87 (3.43)	79 (3.11)	88 (3.46)	84 (3.31)	89 (3.50)	87 (3.43)	123 (4.84)	120 (4.72)	124 (4.88)	122 (4.80)	126 (4.96)	124 (4.88)	128 (5.04)	126 (4.96)	130 (5.12)	130 (5.12)	132 (5.20)	132 (5.20)	132 (5.20)	
July	123 (4.84)	120 (4.72)	124 (4.88)	122 (4.80)	126 (4.96)	124 (4.88)	128 (5.04)	126 (4.96)	130 (5.12)	130 (5.12)	132 (5.20)	132 (5.20)	110 (4.33)	102 (4.02)	111 (4.37)	106 (4.17)	112 (4.41)	109 (4.29)	113 (4.45)	112 (4.41)	117 (4.61)	115 (4.53)	119 (4.69)	119 (4.69)	119 (4.69)	
Aug	110 (4.33)	102 (4.02)	111 (4.37)	106 (4.17)	112 (4.41)	109 (4.29)	113 (4.45)	112 (4.41)	117 (4.61)	115 (4.53)	119 (4.69)	119 (4.69)	77 (3.03)	51 (2.01)	78 (3.07)	59 (2.32)	79 (3.11)	64 (2.52)	80 (3.15)	71 (2.80)	82 (3.23)	78 (3.07)	83 (3.27)	80 (3.15)	83 (3.27)	
Sep	77 (3.03)	51 (2.01)	78 (3.07)	59 (2.32)	79 (3.11)	64 (2.52)	80 (3.15)	71 (2.80)	82 (3.23)	78 (3.07)	83 (3.27)	80 (3.15)	32 (1.26)	2 (0.08)	32 (1.26)	3 (0.12)	34 (1.34)	3 (0.12)	35 (1.38)	15 (0.59)	36 (1.42)	22 (0.87)	37 (1.46)	32 (1.26)	37 (1.46)	
Oct	32 (1.26)	2 (0.08)	32 (1.26)	3 (0.12)	34 (1.34)	3 (0.12)	35 (1.38)	15 (0.59)	36 (1.42)	22 (0.87)	37 (1.46)	32 (1.26)	446 (17.56)	354 (13.94)	451 (17.76)	376 (14.80)	458 (18.04)	392 (15.43)	465 (18.32)	422 (16.62)	476 (18.75)	450 (17.73)	483 (19.03)	472 (18.60)	483 (19.03)	472 (18.60)
Season	446 (17.56)	354 (13.94)	451 (17.76)	376 (14.80)	458 (18.04)	392 (15.43)	465 (18.32)	422 (16.62)	476 (18.75)	450 (17.73)	483 (19.03)	472 (18.60)														

REGION: 9 Hood River Valley  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm
March	41 (1.61)	2 (0.08)	2 (1.65)	42 (1.65)	2 (0.08)	2 (1.69)	43 (1.69)	2 (0.08)	2 (1.77)	45 (1.77)	3 (0.12)	3 (0.12)	48 (1.89)	12 (0.47)	12 (0.47)	51 (2.01)	23 (0.91)	23 (0.91)
April	87 (3.43)	40 (1.57)	91 (3.58)	91 (3.58)	48 (1.89)	58 (3.74)	95 (3.82)	58 (2.28)	97 (3.82)	97 (3.82)	66 (2.60)	66 (2.60)	98 (3.86)	73 (2.87)	73 (2.87)	101 (3.98)	83 (3.27)	83 (3.27)
May	148 (5.83)	112 (4.41)	150 (5.91)	150 (5.91)	119 (4.69)	125 (6.02)	153 (6.22)	125 (4.92)	158 (6.22)	158 (6.22)	132 (5.20)	132 (5.20)	161 (6.34)	142 (5.59)	142 (5.59)	163 (6.42)	149 (5.87)	149 (5.87)
June	183 (7.20)	158 (6.22)	186 (7.32)	186 (7.32)	164 (6.46)	171 (6.73)	188 (7.48)	171 (6.73)	190 (7.48)	190 (7.48)	178 (7.01)	178 (7.01)	198 (7.80)	187 (7.36)	187 (7.36)	200 (7.87)	194 (7.64)	194 (7.64)
July	226 (8.90)	219 (8.62)	228 (8.98)	228 (8.98)	222 (8.74)	229 (9.02)	229 (9.02)	226 (8.90)	230 (9.06)	230 (9.06)	230 (9.06)	230 (9.06)	237 (9.33)	237 (9.33)	237 (9.33)	240 (9.45)	240 (9.45)	240 (9.45)
Aug	188 (7.40)	177 (6.97)	190 (7.48)	190 (7.48)	183 (7.20)	192 (7.56)	192 (7.56)	187 (7.36)	195 (7.68)	195 (7.68)	191 (7.52)	191 (7.52)	201 (7.91)	200 (7.87)	200 (7.87)	204 (8.03)	204 (8.03)	204 (8.03)
Sep	125 (4.92)	97 (3.82)	127 (5.00)	127 (5.00)	104 (4.09)	130 (5.12)	131 (5.16)	112 (4.41)	131 (5.16)	131 (5.16)	120 (4.72)	120 (4.72)	134 (5.28)	128 (5.04)	128 (5.04)	139 (5.47)	131 (5.16)	131 (5.16)
Oct	56 (2.20)	5 (0.20)	57 (2.24)	57 (2.24)	6 (0.24)	58 (2.28)	58 (2.28)	11 (0.43)	60 (2.36)	60 (2.36)	32 (1.26)	32 (1.26)	62 (2.44)	39 (1.54)	39 (1.54)	63 (2.48)	57 (2.24)	57 (2.24)
Nov	11 (0.43)	0 (0.00)	14 (0.55)	14 (0.55)	0 (0.00)	15 (0.59)	15 (0.59)	0 (0.00)	15 (0.59)	15 (0.59)	0 (0.00)	0 (0.00)	16 (0.63)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)	0 (0.00)
Season	1065 (41.92)	810 (31.89)	1085 (42.71)	1085 (42.71)	848 (33.39)	1103 (43.42)	1103 (43.42)	892 (35.11)	1121 (44.14)	1121 (44.14)	952 (37.49)	952 (37.49)	1155 (45.48)	1018 (40.07)	1018 (40.07)	1178 (46.38)	1081 (42.57)	1081 (42.57)

REGION: 9 Hood River Valley  
CROP: Corn (Field)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm
May	60 (2.36)	36 (1.42)	61 (2.40)	61 (2.40)	40 (1.57)	45 (2.40)	61 (2.40)	45 (1.77)	62 (2.46)	62 (2.46)	51 (2.01)	51 (2.01)	63 (2.48)	57 (2.24)	57 (2.24)	64 (2.52)	59 (2.32)	59 (2.32)
June	125 (4.92)	106 (4.17)	127 (5.00)	127 (5.00)	112 (4.41)	129 (5.08)	129 (5.08)	116 (4.57)	133 (5.24)	133 (5.24)	121 (4.76)	121 (4.76)	135 (5.31)	127 (5.00)	127 (5.00)	136 (5.35)	132 (5.20)	132 (5.20)
July	204 (8.03)	198 (7.80)	206 (8.11)	206 (8.11)	202 (7.95)	207 (8.15)	207 (8.15)	207 (8.15)	209 (8.23)	209 (8.23)	209 (8.23)	209 (8.23)	215 (8.46)	214 (8.43)	214 (8.43)	218 (8.58)	217 (8.54)	217 (8.54)
Aug	175 (6.89)	164 (6.46)	176 (6.93)	176 (6.93)	169 (6.65)	178 (7.01)	178 (7.01)	173 (6.81)	180 (7.09)	180 (7.09)	177 (6.97)	177 (6.97)	187 (7.36)	184 (7.24)	184 (7.24)	190 (7.48)	187 (7.36)	187 (7.36)
Sep	90 (3.54)	65 (2.56)	91 (3.58)	91 (3.58)	73 (2.87)	93 (3.66)	93 (3.66)	78 (3.07)	94 (3.70)	94 (3.70)	85 (3.35)	85 (3.35)	96 (3.78)	91 (3.58)	91 (3.58)	100 (3.94)	94 (3.70)	94 (3.70)
Season	654 (25.74)	569 (22.41)	661 (26.02)	661 (26.02)	596 (23.45)	668 (26.30)	668 (26.30)	619 (24.37)	678 (26.70)	678 (26.70)	643 (25.32)	643 (25.32)	696 (27.39)	673 (26.49)	673 (26.49)	708 (27.87)	689 (27.12)	689 (27.12)

REGION: 9 Hood River Valley  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	35 (1.38)	21 (0.83)	35 (1.38)	24 (0.94)	36 (1.42)	26 (1.02)	36 (1.42)	30 (1.18)	37 (1.46)	32 (1.26)	37 (1.46)	32 (1.26)	37 (1.46)	34 (1.34)	37 (1.46)	34 (1.34)		
June	103 (4.06)	85 (3.35)	106 (4.17)	91 (3.58)	108 (4.25)	96 (3.78)	110 (4.33)	100 (3.94)	112 (4.41)	106 (4.17)	113 (4.45)	110 (4.33)	113 (4.45)	110 (4.33)	113 (4.45)	110 (4.33)		
July	192 (7.56)	187 (7.36)	194 (7.64)	191 (7.52)	195 (7.68)	194 (7.64)	197 (7.76)	197 (7.76)	202 (7.95)	201 (7.91)	205 (8.07)	205 (8.07)	205 (8.07)	205 (8.07)	205 (8.07)	205 (8.07)		
Aug	175 (6.89)	164 (6.46)	176 (6.93)	169 (6.65)	178 (7.01)	173 (6.81)	180 (7.09)	177 (6.97)	187 (7.36)	184 (7.24)	190 (7.48)	187 (7.36)	190 (7.48)	187 (7.36)	190 (7.48)	187 (7.36)		
Sep	19 (0.75)	16 (0.63)	19 (0.75)	18 (0.71)	20 (0.79)	18 (0.71)	20 (0.79)	19 (0.75)	20 (0.79)	20 (0.79)	21 (0.83)	20 (0.79)	21 (0.83)	20 (0.79)	21 (0.83)	20 (0.79)		
Season	524 (20.64)	473 (18.63)	530 (20.87)	493 (19.40)	537 (21.15)	507 (19.96)	543 (21.39)	523 (20.60)	558 (21.97)	543 (21.37)	566 (22.29)	556 (21.89)	566 (22.29)	556 (21.89)	566 (22.29)	556 (21.89)		

REGION: 9 Hood River Valley  
CROP: Filberts

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	41 (1.61)	2 (0.08)	42 (1.65)	2 (0.08)	43 (1.69)	2 (0.08)	45 (1.77)	3 (0.12)	48 (1.89)	12 (0.47)	51 (2.01)	23 (0.91)	51 (2.01)	23 (0.91)	51 (2.01)	23 (0.91)		
April	87 (3.43)	40 (1.57)	91 (3.58)	48 (1.89)	95 (3.74)	58 (2.28)	97 (3.82)	66 (2.60)	98 (3.86)	73 (2.87)	101 (3.98)	83 (3.27)	101 (3.98)	83 (3.27)	101 (3.98)	83 (3.27)		
May	148 (5.83)	112 (4.41)	150 (5.91)	119 (4.69)	153 (6.02)	125 (4.92)	158 (6.22)	132 (5.20)	161 (6.34)	142 (5.59)	163 (6.42)	149 (5.87)	163 (6.42)	149 (5.87)	163 (6.42)	149 (5.87)		
June	183 (7.20)	158 (6.22)	186 (7.32)	164 (6.46)	188 (7.40)	171 (6.73)	190 (7.48)	178 (7.01)	198 (7.80)	187 (7.36)	200 (7.87)	194 (7.64)	200 (7.87)	194 (7.64)	200 (7.87)	194 (7.64)		
July	226 (8.90)	219 (8.62)	228 (8.98)	222 (8.74)	229 (9.02)	226 (8.90)	230 (9.06)	230 (9.06)	237 (9.33)	237 (9.33)	240 (9.45)	240 (9.45)	240 (9.45)	240 (9.45)	240 (9.45)	240 (9.45)		
Aug	188 (7.40)	177 (6.97)	190 (7.48)	183 (7.20)	192 (7.56)	187 (7.36)	195 (7.68)	191 (7.52)	201 (7.91)	200 (7.87)	204 (8.03)	204 (8.03)	204 (8.03)	204 (8.03)	204 (8.03)	204 (8.03)		
Sep	125 (4.92)	97 (3.82)	127 (5.00)	104 (4.09)	130 (5.12)	112 (4.41)	131 (5.16)	120 (4.72)	134 (5.28)	128 (5.04)	139 (5.47)	131 (5.16)	139 (5.47)	131 (5.16)	139 (5.47)	131 (5.16)		
Oct	56 (2.20)	5 (0.20)	57 (2.24)	6 (0.24)	58 (2.28)	11 (0.43)	60 (2.36)	32 (1.26)	62 (2.44)	39 (1.54)	63 (2.48)	57 (2.24)	63 (2.48)	57 (2.24)	63 (2.48)	57 (2.24)		
Nov	11 (0.43)	0 (0.00)	14 (0.55)	0 (0.00)	15 (0.59)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)	17 (0.67)	0 (0.00)		
Season	1065 (41.92)	810 (31.89)	1085 (42.71)	848 (33.39)	1103 (43.42)	892 (35.11)	1121 (44.14)	952 (37.49)	1155 (45.48)	1018 (40.07)	1178 (46.38)	1081 (42.57)	1178 (46.38)	1081 (42.57)	1178 (46.38)	1081 (42.57)		



REGION: 9 Hood River Valley  
CROP: Grapes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
April	43 (1.69)	4 (0.16)	8 (0.31)	45 (1.77)	8 (0.31)	15 (0.59)	46 (1.81)	15 (0.59)	21 (0.83)	47 (1.85)	21 (0.83)	28 (1.10)	48 (1.89)	28 (1.10)	49 (1.93)	36 (1.42)		
May	78 (3.07)	48 (1.89)	53 (2.09)	79 (3.11)	53 (2.09)	80 (3.15)	80 (3.15)	59 (2.32)	64 (2.52)	84 (3.31)	64 (2.52)	73 (2.87)	86 (3.39)	73 (2.87)	87 (3.43)	77 (3.03)		
June	102 (4.02)	83 (3.27)	89 (3.50)	104 (4.09)	89 (3.50)	106 (4.17)	106 (4.17)	93 (3.66)	98 (3.86)	107 (4.21)	98 (3.86)	104 (4.09)	111 (4.37)	104 (4.09)	111 (4.37)	108 (4.25)		
July	125 (4.92)	122 (4.80)	124 (4.88)	126 (4.96)	124 (4.88)	127 (5.00)	127 (5.00)	126 (4.96)	128 (5.04)	128 (5.04)	128 (5.04)	131 (5.16)	132 (5.20)	131 (5.16)	134 (5.28)	134 (5.28)		
Aug	105 (4.13)	96 (3.78)	100 (3.94)	106 (4.17)	100 (3.94)	107 (4.21)	107 (4.21)	103 (4.06)	106 (4.17)	108 (4.25)	106 (4.17)	109 (4.29)	112 (4.41)	109 (4.29)	113 (4.45)	113 (4.45)		
Sep	72 (2.83)	47 (1.85)	56 (2.20)	73 (2.87)	56 (2.20)	75 (2.95)	75 (2.95)	60 (2.36)	66 (2.60)	76 (2.99)	66 (2.60)	72 (2.83)	77 (3.03)	72 (2.83)	78 (3.07)	75 (2.95)		
Oct	33 (1.30)	2 (0.08)	3 (0.12)	34 (1.34)	3 (0.12)	34 (1.34)	34 (1.34)	3 (0.12)	11 (0.43)	37 (1.46)	11 (0.43)	22 (0.87)	38 (1.50)	22 (0.87)	39 (1.54)	32 (1.26)		
Nov	6 (0.24)	0 (0.00)	0 (0.00)	7 (0.28)	0 (0.00)	7 (0.28)	7 (0.28)	0 (0.00)	0 (0.00)	7 (0.28)	0 (0.00)	0 (0.00)	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)		
Season	564 (22.20)	402 (15.83)	433 (17.04)	574 (22.59)	433 (17.04)	582 (22.91)	582 (22.91)	459 (18.07)	494 (19.45)	594 (23.39)	494 (19.45)	539 (21.21)	611 (24.07)	539 (21.21)	619 (24.38)	575 (22.64)		

REGION: 9 Hood River Valley  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
April	17 (0.67)	5 (0.20)	7 (0.28)	17 (0.67)	7 (0.28)	10 (0.39)	18 (0.71)	10 (0.39)	12 (0.47)	18 (0.71)	12 (0.47)	14 (0.55)	18 (0.71)	14 (0.55)	18 (0.71)	16 (0.63)		
May	86 (3.39)	59 (2.32)	64 (2.52)	86 (3.39)	64 (2.52)	87 (3.43)	87 (3.43)	69 (2.72)	75 (2.95)	89 (3.50)	75 (2.95)	81 (3.19)	90 (3.54)	81 (3.19)	92 (3.62)	84 (3.31)		
June	128 (5.04)	112 (4.41)	118 (4.65)	130 (5.12)	118 (4.65)	132 (5.20)	132 (5.20)	122 (4.80)	126 (4.96)	136 (5.35)	126 (4.96)	132 (5.20)	139 (5.47)	132 (5.20)	140 (5.51)	137 (5.39)		
July	188 (7.40)	182 (7.17)	189 (7.28)	189 (7.44)	185 (7.28)	190 (7.48)	190 (7.48)	188 (7.40)	191 (7.52)	191 (7.52)	191 (7.52)	197 (7.76)	197 (7.76)	197 (7.76)	200 (7.87)	199 (7.83)		
Aug	158 (6.22)	149 (5.87)	153 (6.02)	160 (6.30)	153 (6.02)	161 (6.34)	161 (6.34)	156 (6.14)	163 (6.42)	163 (6.42)	159 (6.26)	169 (6.65)	169 (6.65)	171 (6.73)	171 (6.73)	169 (6.65)		
Sep	47 (1.85)	36 (1.42)	41 (1.61)	48 (1.89)	41 (1.61)	48 (1.89)	48 (1.89)	43 (1.69)	46 (1.81)	49 (1.93)	46 (1.81)	48 (1.89)	50 (1.97)	48 (1.89)	52 (2.05)	49 (1.93)		
Season	624 (24.57)	543 (21.39)	568 (22.36)	630 (24.81)	568 (22.36)	636 (25.05)	636 (25.05)	588 (23.14)	609 (23.97)	646 (25.43)	609 (23.97)	634 (24.97)	663 (26.10)	634 (24.97)	673 (26.49)	654 (25.74)		



REGION: 9 Hood River Valley  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
March	19 (0.75)	1 (0.04)	1 (0.04)	19 (0.75)	1 (0.04)	1 (0.04)	20 (0.79)	1 (0.04)	1 (0.04)	21 (0.83)	1 (0.04)	1 (0.04)	22 (0.87)	9 (0.35)	9 (0.35)	24 (0.94)	13 (0.51)	
April	89 (3.50)	41 (1.61)	50 (1.97)	93 (3.66)	50 (1.97)	61 (2.40)	95 (3.74)	61 (2.40)	68 (2.68)	96 (3.78)	68 (2.68)	99 (3.90)	75 (2.95)	75 (2.95)	103 (4.06)	86 (3.39)		
May	133 (5.24)	98 (3.86)	103 (4.06)	135 (5.31)	103 (4.06)	110 (4.33)	137 (5.39)	110 (4.33)	118 (4.65)	142 (5.59)	118 (4.65)	145 (5.71)	126 (4.96)	126 (4.96)	146 (5.75)	132 (5.20)		
June	150 (5.91)	131 (5.16)	137 (5.39)	153 (6.02)	137 (5.39)	142 (5.59)	155 (6.10)	142 (5.59)	147 (5.79)	158 (6.22)	147 (5.79)	163 (6.42)	154 (6.06)	154 (6.06)	164 (6.46)	159 (6.26)		
July	182 (7.17)	177 (6.97)	183 (7.24)	183 (7.24)	181 (7.13)	184 (7.24)	184 (7.24)	184 (7.24)	185 (7.28)	185 (7.28)	185 (7.28)	185 (7.28)	191 (7.52)	191 (7.52)	194 (7.64)	194 (7.64)		
Aug	152 (5.98)	144 (5.67)	147 (5.79)	154 (6.06)	147 (5.79)	150 (5.91)	155 (6.10)	150 (5.91)	154 (6.06)	157 (6.18)	154 (6.06)	162 (6.38)	161 (6.34)	161 (6.34)	165 (6.50)	165 (6.50)		
Sep	106 (4.17)	81 (3.19)	88 (3.46)	108 (4.25)	88 (3.46)	95 (3.74)	110 (4.33)	95 (3.74)	102 (4.02)	112 (4.41)	102 (4.02)	114 (4.49)	108 (4.25)	108 (4.25)	116 (4.57)	112 (4.41)		
Oct	58 (2.28)	5 (0.20)	6 (0.24)	59 (2.32)	6 (0.24)	18 (0.71)	62 (2.44)	18 (0.71)	36 (1.42)	65 (2.56)	36 (1.42)	66 (2.60)	45 (1.77)	45 (1.77)	68 (2.68)	54 (2.13)		
Season	889 (35.00)	678 (26.70)	713 (28.08)	904 (35.57)	713 (28.08)	761 (29.96)	918 (36.13)	761 (29.96)	811 (31.94)	936 (36.85)	811 (31.94)	962 (37.89)	869 (34.20)	869 (34.20)	980 (38.60)	915 (36.04)		

REGION: 9 Hood River Valley  
CROP: Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
March	41 (1.61)	2 (0.08)	2 (0.08)	42 (1.65)	2 (0.08)	2 (0.08)	43 (1.69)	2 (0.08)	3 (0.12)	45 (1.77)	3 (0.12)	3 (0.12)	48 (1.89)	12 (0.47)	12 (0.47)	51 (2.01)	23 (0.91)	
April	84 (3.31)	36 (1.42)	43 (1.69)	86 (3.39)	43 (1.69)	54 (2.13)	89 (3.50)	54 (2.13)	63 (2.48)	91 (3.58)	63 (2.48)	93 (3.66)	69 (3.66)	69 (3.66)	95 (3.74)	79 (3.11)		
May	133 (5.24)	99 (3.90)	105 (4.13)	134 (5.28)	105 (4.13)	112 (4.41)	137 (5.39)	112 (4.41)	119 (4.69)	143 (5.63)	119 (4.69)	147 (5.79)	128 (5.04)	128 (5.04)	148 (5.83)	134 (5.28)		
June	168 (6.61)	145 (5.71)	153 (6.02)	170 (6.69)	153 (6.02)	158 (6.22)	172 (6.77)	158 (6.22)	164 (6.46)	174 (6.85)	164 (6.46)	182 (7.17)	171 (6.73)	171 (6.73)	183 (7.20)	177 (6.97)		
July	208 (8.19)	200 (7.87)	204 (8.03)	209 (8.23)	204 (8.03)	210 (8.27)	210 (8.27)	207 (8.15)	211 (8.31)	211 (8.31)	211 (8.31)	218 (8.58)	217 (8.54)	217 (8.54)	221 (8.70)	220 (8.66)		
Aug	173 (6.81)	162 (6.38)	167 (6.57)	174 (6.85)	167 (6.57)	171 (6.73)	176 (6.93)	171 (6.73)	175 (6.89)	178 (7.01)	175 (6.89)	185 (7.28)	182 (7.17)	182 (7.17)	188 (7.40)	185 (7.28)		
Sep	114 (4.49)	87 (3.43)	96 (3.78)	116 (4.57)	96 (3.78)	103 (4.06)	119 (4.69)	103 (4.06)	109 (4.29)	120 (4.72)	109 (4.29)	122 (4.80)	116 (4.57)	116 (4.57)	124 (4.88)	119 (4.69)		
Oct	52 (2.05)	4 (0.16)	5 (0.20)	53 (2.09)	5 (0.20)	10 (0.39)	54 (2.13)	10 (0.39)	28 (1.10)	58 (2.28)	28 (1.10)	59 (2.32)	36 (1.42)	36 (1.42)	61 (2.40)	48 (1.89)		
Nov	11 (0.43)	0 (0.00)	0 (0.00)	14 (0.55)	0 (0.00)	0 (0.00)	15 (0.59)	0 (0.00)	0 (0.00)	15 (0.59)	0 (0.00)	16 (0.63)	0 (0.00)	0 (0.00)	17 (0.67)	0 (0.00)		
Season	984 (38.74)	735 (28.95)	775 (30.50)	998 (39.30)	775 (30.50)	817 (32.17)	1015 (39.96)	817 (32.17)	872 (34.34)	1035 (40.74)	872 (34.34)	1070 (42.12)	931 (36.66)	931 (36.66)	1088 (42.85)	985 (38.79)		

REGION: 9 Hood River Valley  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years							
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.							
April	38 ( 1.50)	9 ( 0.35)	39 ( 1.54)	14 ( 0.55)	39 ( 1.54)	20 ( 0.79)	40 ( 1.57)	23 ( 0.91)	41 ( 1.61)	28 ( 1.10)	42 ( 1.65)	36 ( 1.42)	135 ( 5.31)	99 ( 3.90)	137 ( 5.39)	104 ( 4.09)	139 ( 5.47)	121 ( 4.76)	146 ( 5.75)	128 ( 5.04)	148 ( 5.85)	134 ( 5.28)	
May	171 ( 6.73)	148 ( 5.83)	173 ( 6.81)	155 ( 6.10)	175 ( 6.89)	161 ( 6.34)	177 ( 6.97)	166 ( 6.54)	185 ( 7.28)	174 ( 6.85)	186 ( 7.32)	180 ( 7.09)	161 ( 6.34)	156 ( 6.14)	162 ( 6.38)	158 ( 6.22)	163 ( 6.42)	163 ( 6.42)	163 ( 6.42)	168 ( 6.61)	171 ( 6.73)	171 ( 6.73)	171 ( 6.73)
Season	505 ( 19.88)	412 ( 16.22)	511 ( 20.12)	431 ( 16.96)	516 ( 20.32)	455 ( 17.92)	522 ( 20.55)	473 ( 18.63)	540 ( 21.25)	498 ( 19.60)	547 ( 21.53)	521 ( 20.52)											

REGION: 9 Hood River Valley  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
March	41 ( 1.61)	2 ( 0.08)	42 ( 1.65)	2 ( 0.08)	43 ( 1.69)	2 ( 0.08)	45 ( 1.77)	3 ( 0.12)	48 ( 1.89)	12 ( 0.47)	51 ( 2.01)	23 ( 0.91)	84 ( 3.31)	36 ( 1.42)	86 ( 3.39)	43 ( 1.69)	89 ( 3.50)	54 ( 2.13)	91 ( 3.58)	63 ( 2.48)	93 ( 3.66)	69 ( 3.11)		
April	133 ( 5.24)	99 ( 3.90)	134 ( 5.28)	105 ( 4.13)	137 ( 5.39)	112 ( 4.41)	143 ( 5.63)	119 ( 4.69)	147 ( 5.79)	128 ( 5.04)	148 ( 5.85)	134 ( 5.28)	168 ( 6.61)	145 ( 5.71)	170 ( 6.69)	153 ( 6.02)	174 ( 6.85)	164 ( 6.46)	182 ( 7.17)	171 ( 6.73)	183 ( 7.20)	177 ( 6.97)		
May	208 ( 8.19)	200 ( 7.87)	209 ( 8.23)	204 ( 8.03)	210 ( 8.27)	207 ( 8.15)	211 ( 8.31)	211 ( 8.31)	218 ( 8.58)	217 ( 8.54)	221 ( 8.70)	220 ( 8.66)	173 ( 6.81)	162 ( 6.38)	174 ( 6.85)	167 ( 6.57)	176 ( 6.93)	171 ( 8.31)	185 ( 7.28)	182 ( 7.17)	188 ( 7.40)	185 ( 7.28)		
June	114 ( 4.49)	87 ( 3.43)	116 ( 4.57)	96 ( 3.78)	119 ( 4.69)	103 ( 4.06)	120 ( 4.72)	109 ( 4.29)	122 ( 4.80)	116 ( 4.57)	124 ( 4.88)	119 ( 4.69)	52 ( 2.05)	4 ( 0.16)	53 ( 2.09)	5 ( 0.20)	54 ( 2.13)	10 ( 0.39)	58 ( 2.28)	28 ( 1.10)	61 ( 2.40)	48 ( 1.89)		
July	11 ( 0.43)	0 ( 0.00)	14 ( 0.55)	0 ( 0.00)	15 ( 0.59)	0 ( 0.00)	15 ( 0.59)	0 ( 0.00)	16 ( 0.63)	0 ( 0.00)	17 ( 0.67)	0 ( 0.00)	984 ( 38.74)	735 ( 28.95)	998 ( 39.30)	775 ( 30.50)	1015 ( 39.96)	817 ( 32.17)	1035 ( 40.74)	872 ( 34.34)	1070 ( 42.12)	931 ( 36.66)	1088 ( 42.83)	985 ( 38.79)
Aug																								
Sep																								
Oct																								
Nov																								

REGION: 10 Columbia River above Hood River  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	72 (2.83)	64 (2.52)	73 (2.87)	67 (2.64)	74 (2.91)	70 (2.76)	75 (2.95)	73 (2.87)	79 (3.11)	75 (2.95)	80 (3.15)	77 (3.03)						
May	150 (5.91)	142 (5.59)	154 (6.06)	145 (5.71)	156 (6.14)	149 (5.87)	159 (6.26)	151 (5.94)	163 (6.42)	155 (6.10)	165 (6.50)	159 (6.26)						
June	170 (6.69)	157 (6.18)	172 (6.77)	162 (6.38)	175 (6.89)	167 (6.57)	180 (7.09)	173 (6.81)	185 (7.28)	181 (7.13)	189 (7.44)	184 (7.24)						
July	200 (7.87)	198 (7.80)	202 (7.95)	200 (7.87)	204 (8.03)	202 (7.95)	208 (8.19)	206 (8.11)	212 (8.35)	209 (8.23)	215 (8.46)	214 (8.43)						
Aug	169 (6.65)	166 (6.54)	172 (6.77)	170 (6.69)	174 (6.85)	174 (6.85)	180 (7.09)	179 (7.05)	187 (7.36)	185 (7.28)	190 (7.48)	188 (7.40)						
Sep	116 (4.57)	108 (4.25)	118 (4.65)	111 (4.37)	120 (4.72)	114 (4.49)	121 (4.76)	118 (4.65)	125 (4.92)	122 (4.80)	129 (5.08)	127 (5.00)						
Season	877 (34.52)	835 (32.88)	891 (35.07)	855 (33.66)	903 (35.54)	876 (34.49)	923 (36.34)	900 (35.43)	951 (37.44)	927 (36.49)	968 (38.11)	949 (37.36)						

REGION: 10 Columbia River above Hood River  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	50 (1.97)	32 (1.26)	51 (2.01)	35 (1.38)	54 (2.13)	37 (1.46)	56 (2.20)	41 (1.61)	57 (2.24)	48 (1.89)	58 (2.28)	52 (2.05)						
April	107 (4.21)	95 (3.74)	109 (4.29)	99 (3.90)	110 (4.33)	104 (4.09)	112 (4.41)	108 (4.25)	118 (4.65)	112 (4.41)	120 (4.72)	115 (4.53)						
May	178 (7.01)	171 (6.73)	183 (7.20)	175 (6.89)	186 (7.32)	179 (7.05)	189 (7.44)	181 (7.13)	194 (7.64)	185 (7.28)	197 (7.76)	189 (7.44)						
June	221 (8.70)	208 (8.19)	225 (8.86)	214 (8.43)	228 (8.98)	219 (8.62)	235 (9.25)	226 (8.90)	242 (9.53)	236 (9.29)	247 (9.72)	241 (9.49)						
July	264 (10.39)	262 (10.31)	267 (10.51)	265 (10.43)	270 (10.63)	269 (10.59)	275 (10.83)	273 (10.75)	278 (10.94)	278 (10.94)	284 (11.18)	284 (11.18)						
Aug	224 (8.82)	219 (8.62)	227 (8.94)	222 (8.74)	230 (9.06)	228 (8.98)	238 (9.37)	236 (9.29)	247 (9.72)	244 (9.61)	252 (9.92)	250 (9.84)						
Sep	146 (5.75)	138 (5.43)	148 (5.83)	142 (5.59)	150 (5.91)	145 (5.71)	151 (5.94)	149 (5.87)	156 (6.14)	155 (6.10)	161 (6.34)	160 (6.30)						
Oct	68 (2.68)	51 (2.01)	70 (2.76)	56 (2.20)	71 (2.80)	61 (2.40)	72 (2.83)	65 (2.56)	74 (2.91)	69 (2.72)	76 (2.99)	74 (2.91)						
Nov	15 (0.59)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	7 (0.28)	20 (0.79)	9 (0.35)						
Season	1273 (50.12)	1177 (46.33)	1297 (51.07)	1209 (47.60)	1317 (51.87)	1243 (48.94)	1347 (53.02)	1280 (50.40)	1386 (54.56)	1334 (52.52)	1415 (55.70)	1374 (54.09)						

REGION: 10 Columbia River above Hood River  
CROP: Berries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	41 (1.61)	38 (1.50)	42 (1.65)	39 (1.54)	42 (1.65)	40 (1.57)	43 (1.69)	41 (1.61)	43 (1.69)	43 (1.69)	43 (1.69)	43 (1.69)	43 (1.69)	43 (1.69)	43 (1.69)	43 (1.69)		
June	101 (3.98)	91 (3.58)	102 (4.02)	95 (3.74)	103 (4.06)	98 (3.86)	105 (4.13)	102 (4.02)	110 (4.33)	105 (4.13)	110 (4.33)	105 (4.13)	111 (4.37)	108 (4.25)	111 (4.37)	108 (4.25)		
July	147 (5.79)	146 (5.75)	148 (5.83)	148 (5.83)	150 (5.91)	149 (5.87)	152 (5.98)	151 (5.94)	154 (6.06)	154 (6.06)	154 (6.06)	154 (6.06)	158 (6.22)	157 (6.18)	158 (6.22)	157 (6.18)		
Aug	131 (5.16)	129 (5.08)	133 (5.24)	131 (5.16)	134 (5.28)	134 (5.28)	139 (5.47)	137 (5.39)	144 (5.67)	143 (5.63)	144 (5.67)	143 (5.63)	147 (5.79)	147 (5.79)	147 (5.79)	147 (5.79)		
Sep	90 (3.54)	83 (3.27)	92 (3.62)	85 (3.35)	93 (3.66)	87 (3.43)	94 (3.70)	90 (3.54)	97 (3.82)	95 (3.74)	97 (3.82)	95 (3.74)	99 (3.90)	98 (3.86)	99 (3.90)	98 (3.86)		
Oct	52 (2.05)	37 (1.46)	53 (2.09)	40 (1.57)	55 (2.17)	44 (1.73)	56 (2.20)	48 (1.89)	57 (2.24)	52 (2.05)	57 (2.24)	52 (2.05)	58 (2.28)	56 (2.20)	58 (2.28)	56 (2.20)		
Nov	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	4 (0.16)	1 (0.04)	4 (0.16)	3 (0.12)	4 (0.16)	3 (0.12)	4 (0.16)	3 (0.12)	4 (0.16)	3 (0.12)		
Season	565 (22.25)	524 (20.64)	573 (22.57)	538 (21.19)	580 (22.85)	552 (21.74)	593 (23.33)	570 (22.43)	609 (23.97)	595 (23.42)	609 (23.97)	595 (23.42)	620 (24.41)	612 (24.09)	620 (24.41)	612 (24.09)		

REGION: 10 Columbia River above Hood River  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	50 (1.97)	32 (1.26)	51 (2.01)	35 (1.38)	54 (2.13)	37 (1.46)	56 (2.20)	41 (1.61)	57 (2.24)	48 (1.89)	57 (2.24)	48 (1.89)	58 (2.28)	52 (2.05)	58 (2.28)	52 (2.05)		
April	107 (4.21)	95 (3.74)	109 (4.29)	99 (3.90)	110 (4.33)	104 (4.09)	112 (4.41)	108 (4.25)	118 (4.65)	112 (4.41)	118 (4.65)	112 (4.41)	120 (4.72)	115 (4.53)	120 (4.72)	115 (4.53)		
May	178 (7.01)	171 (6.73)	183 (7.20)	175 (6.89)	186 (7.32)	179 (7.05)	189 (7.44)	181 (7.13)	194 (7.64)	185 (7.28)	194 (7.64)	185 (7.28)	197 (7.76)	189 (7.44)	197 (7.76)	189 (7.44)		
June	221 (8.70)	208 (8.19)	225 (8.86)	214 (8.43)	228 (8.98)	219 (8.62)	235 (9.25)	226 (8.90)	242 (9.53)	236 (9.29)	242 (9.53)	236 (9.29)	247 (9.72)	241 (9.49)	247 (9.72)	241 (9.49)		
July	264 (10.39)	262 (10.31)	267 (10.51)	265 (10.43)	270 (10.63)	269 (10.59)	275 (10.83)	273 (10.75)	278 (10.94)	278 (10.94)	278 (10.94)	278 (10.94)	284 (11.18)	284 (11.18)	284 (11.18)	284 (11.18)		
Aug	224 (8.82)	219 (8.62)	227 (8.94)	222 (8.74)	230 (9.06)	228 (8.98)	238 (9.37)	236 (9.29)	247 (9.72)	244 (9.61)	247 (9.72)	244 (9.61)	252 (9.92)	250 (9.84)	252 (9.92)	250 (9.84)		
Sep	146 (5.75)	138 (5.43)	148 (5.83)	142 (5.59)	150 (5.91)	145 (5.71)	151 (5.94)	149 (5.87)	156 (6.14)	155 (6.10)	156 (6.14)	155 (6.10)	161 (6.34)	160 (6.30)	161 (6.34)	160 (6.30)		
Oct	68 (2.68)	51 (2.01)	70 (2.76)	56 (2.20)	71 (2.80)	61 (2.40)	72 (2.83)	65 (2.56)	74 (2.91)	69 (2.72)	74 (2.91)	69 (2.72)	76 (2.99)	74 (2.91)	76 (2.99)	74 (2.91)		
Nov	15 (0.59)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	7 (0.28)	20 (0.79)	7 (0.28)	20 (0.79)	9 (0.35)	20 (0.79)	9 (0.35)		
Season	1273 (50.12)	1177 (46.33)	1297 (51.07)	1209 (47.60)	1317 (51.87)	1243 (48.94)	1347 (53.02)	1280 (50.40)	1386 (54.56)	1334 (52.52)	1386 (54.56)	1334 (52.52)	1415 (55.70)	1374 (54.09)	1415 (55.70)	1374 (54.09)		

REGION: 10 Columbia River above Hood River  
CROP: Filberts

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	50 (1.97)	32 (1.26)	51 (2.01)	35 (1.38)	54 (2.13)	37 (1.46)	56 (2.20)	41 (1.61)	57 (2.24)	48 (1.89)	58 (2.28)	52 (2.05)						
April	107 (4.21)	95 (3.74)	109 (4.29)	99 (3.90)	110 (4.33)	104 (4.09)	112 (4.41)	108 (4.25)	118 (4.65)	112 (4.41)	120 (4.72)	115 (4.53)						
May	178 (7.01)	171 (6.73)	183 (7.20)	175 (6.89)	186 (7.32)	179 (7.05)	189 (7.44)	181 (7.13)	194 (7.54)	185 (7.28)	197 (7.76)	189 (7.44)						
June	221 (8.70)	208 (8.19)	225 (8.86)	214 (8.43)	228 (8.98)	219 (8.62)	235 (9.25)	226 (8.90)	242 (9.53)	236 (9.29)	247 (9.72)	241 (9.49)						
July	264 (10.39)	262 (10.31)	267 (10.51)	265 (10.43)	270 (10.63)	269 (10.59)	275 (10.83)	273 (10.75)	278 (10.94)	278 (10.94)	284 (11.18)	284 (11.18)						
Aug	224 (8.82)	219 (8.62)	227 (8.94)	222 (8.74)	230 (9.06)	228 (8.98)	238 (9.37)	236 (9.29)	247 (9.72)	244 (9.61)	252 (9.92)	250 (9.84)						
Sep	146 (5.75)	138 (5.43)	148 (5.83)	142 (5.59)	150 (5.91)	145 (5.71)	151 (5.94)	149 (5.87)	156 (6.14)	155 (6.10)	161 (6.34)	160 (6.30)						
Oct	68 (2.68)	51 (2.01)	70 (2.76)	56 (2.20)	71 (2.80)	61 (2.40)	72 (2.83)	65 (2.56)	74 (2.91)	69 (2.72)	76 (2.99)	74 (2.91)						
Nov	15 (0.59)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	7 (0.28)	20 (0.79)	9 (0.35)						
Season	1273 (50.12)	1177 (46.33)	1297 (51.07)	1209 (47.60)	1317 (51.87)	1243 (48.94)	1347 (53.02)	1280 (50.40)	1386 (54.56)	1334 (52.52)	1415 (55.70)	1374 (54.09)						

REGION: 10 Columbia River above Hood River  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	67 (2.64)	58 (2.28)	69 (2.72)	61 (2.40)	70 (2.76)	64 (2.52)	70 (2.76)	67 (2.64)	72 (2.83)	69 (2.72)	73 (2.87)	72 (2.83)						
May	170 (6.69)	162 (6.38)	174 (6.85)	166 (6.54)	177 (6.97)	169 (6.65)	180 (7.09)	173 (6.81)	185 (7.28)	177 (6.97)	188 (7.40)	180 (7.09)						
June	206 (8.11)	193 (7.60)	210 (8.27)	199 (7.83)	212 (8.35)	204 (8.03)	219 (8.62)	210 (8.27)	225 (8.86)	219 (8.62)	230 (9.06)	224 (8.82)						
July	219 (8.62)	215 (8.46)	221 (8.70)	218 (8.58)	224 (8.82)	221 (8.70)	227 (8.94)	225 (8.86)	232 (9.13)	230 (9.06)	235 (9.25)	235 (9.25)						
Aug	41 (1.61)	41 (1.61)	42 (1.65)	41 (1.61)	42 (1.65)	42 (1.65)	43 (1.69)	43 (1.69)	45 (1.77)	45 (1.77)	46 (1.81)	46 (1.81)						
Season	703 (27.67)	669 (26.33)	716 (28.19)	685 (26.96)	725 (28.55)	700 (27.55)	739 (29.10)	718 (28.27)	759 (29.87)	740 (29.14)	772 (30.39)	757 (29.80)						

REGION: 10 Columbia River above Hood River  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	33 (1.30)	17 (0.67)	33 (1.30)	20 (0.79)	34 (1.34)	22 (0.87)	36 (1.42)	26 (1.02)	37 (1.46)	31 (1.22)	37 (1.46)	33 (1.30)	37 (1.46)	31 (1.22)	37 (1.46)	33 (1.30)		
April	91 (3.58)	80 (3.15)	92 (3.62)	83 (3.27)	93 (3.66)	87 (3.43)	95 (3.74)	91 (3.58)	99 (3.90)	95 (3.74)	101 (3.98)	97 (3.82)	101 (3.98)	95 (3.74)	101 (3.98)	97 (3.82)		
May	178 (7.01)	170 (6.69)	183 (7.20)	174 (6.85)	186 (7.32)	177 (6.97)	189 (7.44)	181 (7.13)	194 (7.64)	185 (7.28)	197 (7.76)	189 (7.44)	197 (7.76)	185 (7.28)	197 (7.76)	189 (7.44)		
June	206 (8.11)	193 (7.60)	210 (8.27)	198 (7.80)	212 (8.35)	203 (7.99)	219 (8.62)	211 (8.31)	225 (8.86)	218 (8.58)	230 (9.06)	223 (8.78)	230 (9.06)	218 (8.58)	230 (9.06)	223 (8.78)		
July	90 (3.54)	90 (3.54)	91 (3.58)	91 (3.58)	92 (3.62)	92 (3.62)	93 (3.66)	93 (3.66)	95 (3.74)	95 (3.74)	97 (3.82)	97 (3.82)	97 (3.82)	95 (3.74)	97 (3.82)	97 (3.82)		
Season	598 (23.54)	550 (21.65)	609 (23.97)	566 (22.29)	617 (24.29)	581 (22.88)	632 (24.88)	602 (23.70)	650 (25.60)	624 (24.56)	662 (26.08)	639 (25.16)	662 (26.08)	624 (24.56)	662 (26.08)	639 (25.16)		

REGION: 10 Columbia River above Hood River  
CROP: Grapes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	52 (2.05)	43 (1.69)	53 (2.09)	46 (1.81)	54 (2.13)	48 (1.89)	55 (2.17)	51 (2.01)	58 (2.28)	54 (2.13)	59 (2.32)	57 (2.24)	59 (2.32)	54 (2.13)	59 (2.32)	57 (2.24)		
May	95 (3.74)	87 (3.43)	97 (3.82)	90 (3.54)	98 (3.86)	92 (3.62)	100 (3.94)	94 (3.70)	103 (4.06)	98 (3.86)	104 (4.09)	100 (3.94)	104 (4.09)	98 (3.86)	104 (4.09)	100 (3.94)		
June	123 (4.84)	113 (4.45)	125 (4.92)	118 (4.65)	127 (5.00)	121 (4.76)	130 (5.12)	125 (4.92)	134 (5.28)	130 (5.12)	137 (5.39)	133 (5.24)	137 (5.39)	130 (5.12)	137 (5.39)	133 (5.24)		
July	147 (5.79)	147 (5.79)	149 (5.87)	149 (5.87)	151 (5.94)	150 (5.91)	152 (5.98)	152 (5.98)	154 (6.06)	154 (6.06)	159 (6.26)	159 (6.26)	159 (6.26)	154 (6.06)	159 (6.26)	159 (6.26)		
Aug	124 (4.88)	122 (4.80)	126 (4.96)	124 (4.88)	128 (5.04)	127 (5.00)	132 (5.20)	131 (5.16)	137 (5.39)	136 (5.35)	140 (5.51)	140 (5.51)	140 (5.51)	136 (5.35)	140 (5.51)	140 (5.51)		
Sep	84 (3.31)	79 (3.11)	86 (3.39)	81 (3.19)	88 (3.46)	83 (3.27)	89 (3.50)	85 (3.35)	91 (3.58)	88 (3.46)	93 (3.66)	91 (3.58)	93 (3.66)	88 (3.46)	93 (3.66)	91 (3.58)		
Oct	41 (1.61)	28 (1.10)	42 (1.65)	30 (1.18)	43 (1.69)	34 (1.34)	44 (1.73)	38 (1.50)	45 (1.77)	42 (1.65)	46 (1.81)	45 (1.77)	46 (1.81)	42 (1.65)	46 (1.81)	45 (1.77)		
Nov	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	8 (0.31)	1 (0.04)	9 (0.35)	1 (0.04)	9 (0.35)	4 (0.16)	9 (0.35)	1 (0.04)	9 (0.35)	4 (0.16)		
Season	673 (26.50)	619 (24.37)	686 (27.01)	638 (25.12)	697 (27.43)	655 (25.79)	710 (27.95)	677 (26.66)	731 (28.77)	703 (27.67)	747 (29.39)	729 (28.70)	747 (29.39)	703 (27.67)	747 (29.39)	729 (28.70)		

REGION: 10 Columbia River above Hood River  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.
Jan	5 (0.20)	0 (0.00)	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)	12 (0.47)	0 (0.00)	12 (0.47)	0 (0.00)	12 (0.47)	0 (0.00)	12 (0.47)	0 (0.00)
Feb	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	15 (0.59)	2 (0.08)	16 (0.63)	4 (0.16)	16 (0.63)	4 (0.16)	17 (0.67)	13 (0.51)	17 (0.67)	13 (0.51)	17 (0.67)	13 (0.51)	17 (0.67)	13 (0.51)
March	23 (0.91)	5 (0.20)	24 (0.94)	8 (0.31)	25 (0.98)	10 (0.39)	27 (1.06)	16 (0.63)	27 (1.06)	16 (0.63)	28 (1.10)	23 (0.91)	28 (1.10)	23 (0.91)	28 (1.10)	23 (0.91)	28 (1.10)	23 (0.91)
April	55 (2.17)	45 (1.77)	55 (2.17)	48 (1.89)	56 (2.20)	51 (2.01)	56 (2.20)	53 (2.09)	58 (2.28)	56 (2.20)	58 (2.28)	58 (2.28)	58 (2.28)	58 (2.28)	58 (2.28)	58 (2.28)	58 (2.28)	58 (2.28)
May	88 (3.46)	78 (3.07)	89 (3.50)	83 (3.27)	90 (3.54)	85 (3.35)	91 (3.58)	87 (3.43)	93 (3.66)	90 (3.54)	94 (3.70)	92 (3.62)	94 (3.70)	92 (3.62)	94 (3.70)	92 (3.62)	94 (3.70)	92 (3.62)
June	138 (5.43)	126 (4.96)	140 (5.51)	131 (5.16)	142 (5.59)	135 (5.31)	145 (5.71)	140 (5.51)	150 (5.91)	145 (5.71)	153 (6.02)	149 (5.87)	153 (6.02)	149 (5.87)	153 (6.02)	149 (5.87)	153 (6.02)	149 (5.87)
July	213 (8.39)	211 (8.31)	215 (8.46)	215 (8.46)	217 (8.54)	217 (8.54)	221 (8.70)	220 (8.66)	224 (8.82)	223 (8.78)	228 (8.98)	228 (8.98)	228 (8.98)	228 (8.98)	228 (8.98)	228 (8.98)	228 (8.98)	228 (8.98)
Aug	203 (7.99)	201 (7.91)	206 (8.11)	205 (8.07)	209 (8.23)	209 (8.23)	214 (8.43)	214 (8.43)	224 (8.82)	223 (8.78)	229 (9.02)	227 (8.94)	229 (9.02)	227 (8.94)	229 (9.02)	227 (8.94)	229 (9.02)	227 (8.94)
Sep	140 (5.51)	131 (5.16)	142 (5.59)	135 (5.31)	145 (5.71)	138 (5.43)	147 (5.79)	141 (5.55)	150 (5.91)	148 (5.85)	154 (6.06)	153 (6.02)	154 (6.06)	153 (6.02)	154 (6.06)	153 (6.02)	154 (6.06)	153 (6.02)
Oct	82 (3.23)	66 (2.60)	83 (3.27)	71 (2.80)	84 (3.31)	76 (2.99)	86 (3.39)	80 (3.15)	90 (3.54)	84 (3.31)	93 (3.66)	89 (3.50)	93 (3.66)	89 (3.50)	93 (3.66)	89 (3.50)	93 (3.66)	89 (3.50)
Nov	20 (0.79)	1 (0.04)	21 (0.83)	1 (0.04)	22 (0.87)	2 (0.08)	25 (0.98)	5 (0.20)	27 (1.06)	13 (0.51)	27 (1.06)	15 (0.59)	27 (1.06)	15 (0.59)	27 (1.06)	15 (0.59)	27 (1.06)	15 (0.59)
Dec	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)
Season	984 (38.75)	865 (34.06)	1000 (39.37)	898 (35.35)	1019 (40.11)	925 (36.41)	1043 (41.06)	960 (37.81)	1075 (42.32)	1010 (39.77)	1099 (43.26)	1047 (41.22)	1099 (43.26)	1047 (41.22)	1099 (43.26)	1047 (41.22)	1099 (43.26)	1047 (41.22)

REGION: 10 Columbia River above Hood River  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop in.	Net IRR mm in.
March	24 (0.94)	17 (0.67)	24 (0.94)	19 (0.75)	25 (0.98)	20 (0.79)	26 (1.02)	22 (0.87)	26 (1.02)	24 (0.94)	27 (1.06)	25 (0.98)	27 (1.06)	25 (0.98)	27 (1.06)	25 (0.98)	27 (1.06)	25 (0.98)
April	109 (4.29)	98 (3.86)	111 (4.37)	102 (4.02)	113 (4.45)	106 (4.17)	115 (4.53)	111 (4.37)	121 (4.76)	115 (4.53)	123 (4.84)	118 (4.65)	123 (4.84)	118 (4.65)	123 (4.84)	118 (4.65)	123 (4.84)	118 (4.65)
May	160 (6.30)	152 (5.98)	165 (6.50)	156 (6.14)	167 (6.57)	160 (6.30)	170 (6.85)	162 (6.38)	174 (6.85)	166 (6.54)	177 (6.97)	170 (6.69)	177 (6.97)	170 (6.69)	177 (6.97)	170 (6.69)	177 (6.97)	170 (6.69)
June	181 (7.13)	169 (6.65)	184 (7.24)	173 (6.81)	188 (7.40)	178 (7.01)	194 (7.64)	185 (7.28)	198 (7.80)	192 (7.56)	202 (7.95)	196 (7.72)	202 (7.95)	196 (7.72)	202 (7.95)	196 (7.72)	202 (7.95)	196 (7.72)
July	214 (8.43)	210 (8.27)	216 (8.50)	213 (8.39)	219 (8.62)	216 (8.50)	222 (8.74)	220 (8.66)	225 (8.86)	224 (8.82)	230 (9.06)	228 (8.98)	230 (9.06)	228 (8.98)	230 (9.06)	228 (8.98)	230 (9.06)	228 (8.98)
Aug	181 (7.13)	178 (7.01)	187 (7.36)	182 (7.17)	189 (7.44)	187 (7.36)	192 (7.56)	192 (7.56)	199 (7.83)	198 (7.80)	203 (7.99)	201 (7.91)	203 (7.99)	201 (7.91)	203 (7.99)	201 (7.91)	203 (7.99)	201 (7.91)
Sep	124 (4.88)	116 (4.57)	126 (4.96)	119 (4.69)	129 (5.08)	121 (4.76)	131 (5.16)	124 (4.88)	133 (5.24)	130 (5.12)	137 (5.39)	135 (5.31)	137 (5.39)	135 (5.31)	137 (5.39)	135 (5.31)	137 (5.39)	135 (5.31)
Oct	71 (2.80)	56 (2.20)	75 (2.87)	61 (2.40)	75 (2.95)	65 (2.56)	77 (3.03)	69 (2.72)	79 (3.11)	72 (2.83)	80 (3.15)	78 (3.07)	80 (3.15)	78 (3.07)	80 (3.15)	78 (3.07)	80 (3.15)	78 (3.07)
Season	1064 (41.90)	996 (39.21)	1086 (42.74)	1025 (40.37)	1105 (43.49)	1053 (41.45)	1127 (44.37)	1085 (42.72)	1155 (45.47)	1121 (44.14)	1179 (46.41)	1151 (45.31)	1179 (46.41)	1151 (45.31)	1179 (46.41)	1151 (45.31)	1179 (46.41)	1151 (45.31)

REGION: 10 Columbia River above Hood River  
 Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	50 (1.97)	32 (1.26)	51 (2.01)	35 (1.38)	54 (2.13)	37 (1.46)	56 (2.20)	41 (1.61)	57 (2.24)	48 (1.89)	58 (2.28)	52 (2.05)						
April	101 (3.98)	90 (3.54)	103 (4.06)	94 (3.70)	104 (4.09)	97 (3.82)	106 (4.17)	101 (3.98)	111 (4.37)	106 (4.17)	113 (4.45)	108 (4.25)						
May	162 (6.38)	154 (6.06)	167 (6.57)	158 (6.22)	169 (6.65)	162 (6.38)	172 (6.77)	164 (6.46)	176 (6.93)	168 (6.61)	179 (7.05)	172 (6.77)						
June	203 (7.99)	190 (7.48)	206 (8.11)	195 (7.68)	209 (8.23)	200 (7.87)	215 (8.46)	208 (8.19)	221 (8.70)	215 (8.46)	226 (8.90)	220 (8.66)						
July	243 (9.57)	240 (9.45)	245 (9.65)	243 (9.57)	248 (9.76)	246 (9.69)	252 (9.92)	250 (9.84)	255 (10.04)	255 (10.04)	261 (10.28)	261 (10.28)						
Aug	206 (8.11)	203 (7.99)	209 (8.23)	207 (8.15)	212 (8.35)	211 (8.31)	219 (8.62)	216 (8.50)	227 (8.94)	224 (8.82)	231 (9.09)	229 (9.02)						
Sep	134 (5.28)	125 (4.92)	135 (5.31)	128 (5.04)	137 (5.39)	131 (5.16)	138 (5.43)	134 (5.28)	143 (5.63)	141 (5.55)	146 (5.75)	146 (5.75)						
Oct	64 (2.52)	48 (1.89)	66 (2.60)	53 (2.09)	67 (2.64)	57 (2.24)	68 (2.68)	61 (2.40)	69 (2.72)	65 (2.56)	72 (2.83)	70 (2.76)						
Nov	15 (0.59)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	7 (0.28)	20 (0.79)	9 (0.35)						
Season	1178 (46.39)	1083 (42.63)	1199 (47.21)	1114 (43.87)	1218 (47.95)	1142 (44.97)	1245 (49.00)	1176 (46.30)	1279 (50.36)	1229 (48.38)	1306 (51.42)	1267 (49.89)						

REGION: 10 Columbia River above Hood River  
 Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	50 (1.97)	32 (1.26)	51 (2.01)	35 (1.38)	54 (2.13)	37 (1.46)	56 (2.20)	41 (1.61)	57 (2.24)	48 (1.89)	58 (2.28)	52 (2.05)						
April	101 (3.98)	90 (3.54)	103 (4.06)	94 (3.70)	104 (4.09)	97 (3.82)	106 (4.17)	101 (3.98)	111 (4.37)	106 (4.17)	113 (4.45)	108 (4.25)						
May	162 (6.38)	154 (6.06)	167 (6.57)	158 (6.22)	169 (6.65)	162 (6.38)	172 (6.77)	164 (6.46)	176 (6.93)	168 (6.61)	179 (7.05)	172 (6.77)						
June	203 (7.99)	190 (7.48)	206 (8.11)	195 (7.68)	209 (8.23)	200 (7.87)	215 (8.46)	208 (8.19)	221 (8.70)	215 (8.46)	226 (8.90)	220 (8.66)						
July	243 (9.57)	240 (9.45)	245 (9.65)	243 (9.57)	248 (9.76)	246 (9.69)	252 (9.92)	250 (9.84)	255 (10.04)	255 (10.04)	261 (10.28)	261 (10.28)						
Aug	206 (8.11)	203 (7.99)	209 (8.23)	207 (8.15)	212 (8.35)	211 (8.31)	219 (8.62)	216 (8.50)	227 (8.94)	224 (8.82)	231 (9.09)	229 (9.02)						
Sep	134 (5.28)	125 (4.92)	135 (5.31)	128 (5.04)	137 (5.39)	131 (5.16)	138 (5.43)	134 (5.28)	143 (5.63)	141 (5.55)	146 (5.75)	146 (5.75)						
Oct	64 (2.52)	48 (1.89)	66 (2.60)	53 (2.09)	67 (2.64)	57 (2.24)	68 (2.68)	61 (2.40)	69 (2.72)	65 (2.56)	72 (2.83)	70 (2.76)						
Nov	15 (0.59)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	7 (0.28)	20 (0.79)	9 (0.35)						
Season	1178 (46.39)	1083 (42.63)	1199 (47.21)	1114 (43.87)	1218 (47.95)	1142 (44.97)	1245 (49.00)	1176 (46.30)	1279 (50.36)	1229 (48.38)	1306 (51.42)	1267 (49.89)						



REGION: 10 Columbia River above Hood River  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	44 (1.73)	36 (1.42)	44 (1.73)	38 (1.50)	45 (1.77)	41 (1.61)	45 (1.77)	44 (1.73)	46 (1.81)	46 (1.81)	47 (1.85)	47 (1.85)	47 (1.85)	47 (1.85)	47 (1.85)	47 (1.85)		
May	89 (3.50)	80 (3.15)	89 (3.50)	83 (3.27)	91 (3.58)	85 (3.35)	93 (3.66)	87 (3.43)	95 (3.74)	89 (3.50)	96 (3.78)	91 (3.58)	96 (3.78)	91 (3.58)	96 (3.78)	91 (3.58)		
June	175 (6.89)	164 (6.46)	178 (7.01)	168 (6.61)	181 (7.13)	173 (6.81)	185 (7.28)	180 (7.09)	191 (7.52)	187 (7.36)	195 (7.68)	190 (7.48)	195 (7.68)	190 (7.48)	195 (7.68)	190 (7.48)		
July	245 (9.65)	243 (9.57)	247 (9.72)	246 (9.69)	250 (9.84)	249 (9.80)	254 (10.00)	253 (9.96)	257 (10.12)	257 (10.12)	263 (10.35)	263 (10.35)	263 (10.35)	263 (10.35)	263 (10.35)	263 (10.35)		
Aug	208 (8.19)	204 (8.03)	211 (8.31)	207 (8.15)	214 (8.43)	213 (8.39)	221 (8.70)	220 (8.66)	229 (9.02)	227 (8.94)	233 (9.17)	232 (9.13)	233 (9.17)	232 (9.13)	233 (9.17)	232 (9.13)		
Sep	123 (4.84)	116 (4.57)	125 (4.92)	119 (4.69)	128 (5.04)	121 (4.76)	130 (5.12)	124 (4.88)	132 (5.20)	129 (5.08)	135 (5.31)	134 (5.28)	135 (5.31)	134 (5.28)	135 (5.31)	134 (5.28)		
Oct	19 (0.75)	16 (0.63)	19 (0.75)	17 (0.67)	19 (0.75)	18 (0.71)	19 (0.75)	18 (0.71)	20 (0.79)	19 (0.75)	21 (0.83)	21 (0.83)	21 (0.83)	21 (0.83)	21 (0.83)	21 (0.83)		
Season	903 (35.55)	859 (33.83)	913 (35.94)	878 (34.58)	928 (36.54)	900 (35.43)	947 (37.28)	926 (36.46)	970 (38.20)	954 (37.56)	990 (38.97)	978 (38.50)	990 (38.97)	978 (38.50)	990 (38.97)	978 (38.50)		



REGION: 11 East Slope of Mt. Hood  
CROP: Berries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	
May	22 (0.87)	19 (0.75)	20 (0.87)	22 (0.87)	21 (0.83)	21 (0.83)	23 (0.91)	21 (0.83)	21 (0.83)	23 (0.91)	22 (0.87)	22 (0.87)	23 (0.91)	22 (0.87)	22 (0.87)	23 (0.91)	22 (0.87)	22 (0.87)	22 (0.87)
June	84 (3.31)	69 (2.72)	85 (3.35)	86 (3.39)	79 (3.11)	79 (3.11)	88 (3.46)	82 (3.23)	82 (3.23)	89 (3.50)	86 (3.39)	86 (3.39)	89 (3.50)	86 (3.39)	86 (3.39)	91 (3.58)	88 (3.46)	88 (3.46)	88 (3.46)
July	128 (5.04)	125 (4.92)	130 (5.12)	131 (5.16)	130 (5.12)	130 (5.12)	132 (5.20)	132 (5.20)	132 (5.20)	135 (5.31)	135 (5.31)	135 (5.31)	138 (5.43)	135 (5.31)	135 (5.31)	138 (5.43)	137 (5.39)	137 (5.39)	137 (5.39)
Aug	111 (4.37)	106 (4.17)	112 (4.41)	114 (4.49)	110 (4.33)	110 (4.33)	116 (4.57)	113 (4.45)	113 (4.45)	118 (4.65)	118 (4.65)	118 (4.65)	123 (4.84)	118 (4.65)	118 (4.65)	123 (4.84)	120 (4.72)	120 (4.72)	120 (4.72)
Sep	80 (3.15)	69 (2.72)	81 (3.19)	82 (3.23)	75 (2.95)	75 (2.95)	83 (3.27)	78 (3.07)	78 (3.07)	85 (3.35)	81 (3.19)	81 (3.19)	86 (3.39)	81 (3.19)	81 (3.19)	86 (3.39)	82 (3.23)	82 (3.23)	82 (3.23)
Oct	22 (0.87)	19 (0.75)	26 (1.02)	30 (1.18)	26 (1.02)	26 (1.02)	34 (1.34)	30 (1.18)	30 (1.18)	40 (1.57)	35 (1.38)	35 (1.38)	43 (1.69)	35 (1.38)	35 (1.38)	43 (1.69)	40 (1.57)	40 (1.57)	40 (1.57)
Season	447 (17.61)	407 (16.03)	456 (17.96)	423 (16.65)	465 (18.32)	441 (17.36)	476 (18.75)	456 (17.96)	456 (17.96)	490 (19.29)	477 (18.79)	477 (18.79)	504 (19.84)	477 (18.79)	477 (18.79)	504 (19.84)	489 (19.24)	489 (19.24)	489 (19.24)

REGION: 11 East Slope of Mt. Hood  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	Net IRR mm in.
March	38 (1.50)	15 (0.59)	40 (1.57)	42 (1.65)	25 (0.98)	25 (0.98)	43 (1.69)	29 (1.14)	29 (1.14)	48 (1.89)	34 (1.34)	34 (1.34)	50 (1.97)	34 (1.34)	34 (1.34)	50 (1.97)	37 (1.46)	37 (1.46)	37 (1.46)
April	86 (3.39)	71 (2.80)	88 (3.46)	93 (3.66)	80 (3.15)	80 (3.15)	95 (3.74)	84 (3.31)	84 (3.31)	98 (3.86)	92 (3.62)	92 (3.62)	100 (3.94)	92 (3.62)	92 (3.62)	100 (3.94)	95 (3.74)	95 (3.74)	95 (3.74)
May	148 (5.83)	129 (5.08)	150 (5.91)	153 (6.02)	140 (5.51)	140 (5.51)	158 (6.22)	146 (5.75)	146 (5.75)	164 (6.46)	153 (6.02)	153 (6.02)	168 (6.61)	153 (6.02)	153 (6.02)	168 (6.61)	158 (6.22)	158 (6.22)	158 (6.22)
June	182 (7.17)	166 (6.54)	187 (7.36)	191 (7.52)	179 (7.05)	179 (7.05)	195 (7.68)	183 (7.20)	183 (7.20)	201 (7.91)	187 (7.36)	187 (7.36)	203 (7.99)	187 (7.36)	187 (7.36)	203 (7.99)	195 (7.68)	195 (7.68)	195 (7.68)
July	234 (9.21)	230 (9.06)	235 (9.25)	237 (9.33)	235 (9.25)	235 (9.25)	238 (9.37)	238 (9.37)	238 (9.37)	245 (9.65)	243 (9.57)	243 (9.57)	252 (9.92)	243 (9.57)	243 (9.57)	252 (9.92)	247 (9.72)	247 (9.72)	247 (9.72)
Aug	190 (7.48)	185 (7.28)	192 (7.56)	194 (7.64)	192 (7.56)	192 (7.56)	197 (7.76)	195 (7.68)	195 (7.68)	202 (7.95)	200 (7.87)	200 (7.87)	209 (8.23)	200 (7.87)	200 (7.87)	209 (8.23)	206 (8.11)	206 (8.11)	206 (8.11)
Sep	129 (5.08)	116 (4.57)	130 (5.12)	131 (5.16)	124 (4.88)	124 (4.88)	136 (5.35)	130 (5.12)	130 (5.12)	138 (5.43)	133 (5.24)	133 (5.24)	139 (5.47)	133 (5.24)	133 (5.24)	139 (5.47)	134 (5.28)	134 (5.28)	134 (5.28)
Oct	36 (1.42)	35 (1.38)	44 (1.73)	51 (2.01)	46 (1.81)	46 (1.81)	58 (2.28)	52 (2.05)	52 (2.05)	67 (2.64)	60 (2.36)	60 (2.36)	72 (2.83)	60 (2.36)	60 (2.36)	72 (2.83)	69 (2.72)	69 (2.72)	69 (2.72)
Nov	10 (0.39)	1 (0.04)	11 (0.43)	12 (0.47)	1 (0.04)	1 (0.04)	13 (0.51)	1 (0.04)	1 (0.04)	15 (0.59)	1 (0.04)	1 (0.04)	16 (0.63)	1 (0.04)	1 (0.04)	16 (0.63)	6 (0.24)	6 (0.24)	6 (0.24)
Season	1053 (41.47)	948 (37.34)	1077 (42.39)	1104 (43.46)	1022 (40.23)	1022 (40.23)	1133 (44.60)	1058 (41.66)	1058 (41.66)	1178 (46.38)	1103 (43.42)	1103 (43.42)	1209 (47.59)	1103 (43.42)	1103 (43.42)	1209 (47.59)	1147 (45.17)	1147 (45.17)	1147 (45.17)

REGION: 11 East Slope of Mt. Hood  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	
April	56 (2.20)	42 (1.65)	57 (2.24)	45 (1.77)	61 (2.40)	51 (2.01)	62 (2.44)	54 (2.13)	63 (2.48)	59 (2.32)	64 (2.52)	61 (2.40)	64 (2.52)	61 (2.40)	64 (2.52)	61 (2.40)	64 (2.52)	61 (2.40)	61 (2.40)
May	141 (5.55)	123 (4.84)	143 (5.63)	129 (5.08)	147 (5.79)	134 (5.28)	151 (5.94)	139 (5.47)	157 (6.18)	145 (5.71)	160 (6.30)	149 (5.87)	160 (6.30)	149 (5.87)	160 (6.30)	149 (5.87)	160 (6.30)	149 (5.87)	149 (5.87)
June	173 (6.81)	155 (6.10)	175 (6.89)	163 (6.42)	178 (7.01)	167 (6.57)	182 (7.17)	171 (6.73)	188 (7.40)	181 (7.13)	189 (7.44)	185 (7.28)	189 (7.44)	185 (7.28)	189 (7.44)	185 (7.28)	189 (7.44)	185 (7.28)	185 (7.28)
July	193 (7.60)	189 (7.44)	194 (7.64)	192 (7.56)	196 (7.72)	194 (7.64)	197 (7.76)	197 (7.76)	203 (7.99)	201 (7.91)	208 (8.19)	205 (8.07)	208 (8.19)	205 (8.07)	208 (8.19)	205 (8.07)	208 (8.19)	205 (8.07)	205 (8.07)
Aug	35 (1.38)	33 (1.30)	35 (1.38)	34 (1.34)	36 (1.42)	35 (1.38)	36 (1.42)	36 (1.42)	37 (1.46)	37 (1.46)	38 (1.50)	38 (1.50)	38 (1.50)	38 (1.50)	38 (1.50)	38 (1.50)	38 (1.50)	38 (1.50)	38 (1.50)
Season	598 (23.54)	542 (21.33)	604 (23.78)	563 (22.17)	618 (24.34)	581 (22.88)	628 (24.73)	597 (23.51)	648 (25.51)	623 (24.53)	659 (25.95)	638 (25.12)	659 (25.95)	638 (25.12)	659 (25.95)	638 (25.12)	659 (25.95)	638 (25.12)	638 (25.12)

REGION: 11 East Slope of Mt. Hood  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	
March	27 (1.06)	7 (0.28)	27 (1.06)	13 (0.51)	29 (1.14)	15 (0.59)	30 (1.18)	17 (0.67)	31 (1.22)	23 (0.91)	32 (1.26)	24 (0.94)	32 (1.26)	24 (0.94)	32 (1.26)	24 (0.94)	32 (1.26)	24 (0.94)	24 (0.94)
April	76 (2.99)	59 (2.32)	77 (3.03)	63 (2.48)	80 (3.15)	67 (2.84)	82 (3.23)	72 (2.83)	85 (3.35)	79 (3.11)	86 (3.39)	81 (3.19)	86 (3.39)	81 (3.19)	86 (3.39)	81 (3.19)	86 (3.39)	81 (3.19)	81 (3.19)
May	146 (5.75)	129 (5.08)	149 (5.87)	135 (5.31)	153 (6.02)	140 (5.51)	157 (6.18)	146 (5.75)	164 (6.46)	152 (5.98)	168 (6.61)	156 (6.14)	168 (6.61)	156 (6.14)	168 (6.61)	156 (6.14)	168 (6.61)	156 (6.14)	156 (6.14)
June	173 (6.81)	154 (6.06)	175 (6.89)	161 (6.34)	178 (7.01)	166 (6.54)	181 (7.13)	170 (6.69)	187 (7.36)	174 (6.85)	188 (7.40)	181 (7.13)	188 (7.40)	181 (7.13)	188 (7.40)	181 (7.13)	188 (7.40)	181 (7.13)	181 (7.13)
July	79 (3.11)	78 (3.07)	79 (3.11)	79 (3.11)	81 (3.19)	80 (3.15)	82 (3.23)	82 (3.23)	83 (3.27)	83 (3.27)	85 (3.35)	84 (3.31)	85 (3.35)	84 (3.31)	85 (3.35)	84 (3.31)	85 (3.35)	84 (3.31)	84 (3.31)
Season	501 (19.72)	427 (16.81)	507 (19.96)	451 (17.75)	521 (20.51)	468 (18.43)	532 (20.95)	487 (19.17)	550 (21.66)	511 (20.12)	559 (22.01)	526 (20.71)	559 (22.01)	526 (20.71)	559 (22.01)	526 (20.71)	559 (22.01)	526 (20.71)	526 (20.71)

REGION: 11 East Slope of Mt. Hood  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
Jan	1 (0.04)	0 (0.00)	0 (0.00)	2 (0.08)	0 (0.00)	0 (0.00)	5 (0.20)	0 (0.00)	0 (0.00)	6 (0.24)	0 (0.00)	0 (0.00)	6 (0.24)	0 (0.00)	0 (0.00)	10 (0.39)	0 (0.00)	0 (0.00)
Feb	8 (0.31)	1 (0.04)	1 (0.04)	9 (0.35)	1 (0.04)	1 (0.04)	10 (0.39)	1 (0.04)	1 (0.04)	10 (0.39)	1 (0.04)	1 (0.04)	10 (0.39)	1 (0.04)	1 (0.04)	13 (0.51)	3 (0.12)	3 (0.12)
March	19 (0.75)	1 (0.04)	2 (0.08)	19 (0.75)	2 (0.08)	4 (0.16)	20 (0.79)	4 (0.16)	4 (0.16)	21 (0.83)	6 (0.24)	6 (0.24)	23 (0.91)	14 (0.55)	14 (0.55)	24 (0.94)	16 (0.63)	16 (0.63)
April	47 (1.85)	33 (1.30)	36 (1.42)	49 (1.93)	36 (1.42)	41 (1.61)	50 (1.97)	41 (1.61)	44 (1.73)	51 (2.01)	44 (1.73)	52 (2.05)	52 (2.05)	49 (1.93)	49 (1.93)	53 (2.09)	50 (1.97)	50 (1.97)
May	78 (3.07)	64 (2.52)	79 (3.11)	79 (3.11)	68 (2.68)	71 (2.80)	80 (3.15)	71 (2.80)	74 (2.91)	81 (3.19)	74 (2.91)	83 (3.27)	83 (3.27)	78 (3.07)	85 (3.35)	85 (3.35)	81 (3.19)	81 (3.19)
June	117 (4.61)	101 (3.98)	119 (4.69)	119 (4.69)	109 (4.29)	122 (4.80)	122 (4.80)	113 (4.45)	125 (4.92)	125 (4.92)	117 (4.61)	129 (5.08)	129 (5.08)	123 (4.84)	130 (5.12)	130 (5.12)	127 (5.00)	127 (5.00)
July	189 (7.44)	185 (7.28)	191 (7.52)	191 (7.52)	188 (7.40)	192 (7.56)	192 (7.56)	191 (7.52)	195 (7.68)	195 (7.68)	193 (7.60)	198 (7.80)	198 (7.80)	197 (7.76)	203 (7.99)	203 (7.99)	201 (7.91)	201 (7.91)
Aug	172 (6.77)	168 (6.61)	174 (6.85)	174 (6.85)	171 (6.73)	176 (6.93)	176 (6.93)	173 (6.81)	179 (7.05)	179 (7.05)	176 (6.93)	183 (7.20)	183 (7.20)	181 (7.13)	190 (7.48)	190 (7.48)	186 (7.32)	186 (7.32)
Sep	123 (4.84)	110 (4.33)	124 (4.88)	124 (4.88)	113 (4.45)	124 (4.88)	124 (4.88)	117 (4.61)	129 (5.08)	129 (5.08)	123 (4.84)	131 (5.16)	131 (5.16)	126 (4.96)	133 (5.24)	133 (5.24)	127 (5.00)	127 (5.00)
Oct	45 (1.77)	45 (1.77)	54 (2.13)	54 (2.13)	54 (2.13)	63 (2.48)	63 (2.48)	59 (2.32)	72 (2.83)	72 (2.83)	64 (2.52)	83 (3.27)	83 (3.27)	74 (2.91)	89 (3.50)	89 (3.50)	84 (3.31)	84 (3.31)
Nov	14 (0.55)	1 (0.04)	15 (0.59)	15 (0.59)	1 (0.04)	16 (0.63)	16 (0.63)	2 (0.08)	18 (0.71)	18 (0.71)	2 (0.08)	20 (0.79)	20 (0.79)	5 (0.20)	22 (0.87)	22 (0.87)	10 (0.39)	10 (0.39)
Dec	1 (0.04)	0 (0.00)	1 (0.04)	1 (0.04)	0 (0.00)	3 (0.12)	3 (0.12)	0 (0.00)	3 (0.12)	3 (0.12)	0 (0.00)	3 (0.12)	3 (0.12)	0 (0.00)	6 (0.24)	6 (0.24)	0 (0.00)	0 (0.00)
Season	814 (32.04)	709 (27.91)	836 (32.92)	836 (32.92)	743 (29.26)	861 (33.90)	861 (33.90)	772 (30.40)	890 (35.05)	890 (35.05)	800 (31.50)	924 (36.40)	924 (36.40)	850 (33.47)	958 (37.72)	958 (37.72)	890 (35.03)	890 (35.03)

REGION: 11 East Slope of Mt. Hood  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
March	19 (0.75)	11 (0.43)	13 (0.51)	19 (0.75)	13 (0.51)	15 (0.59)	19 (0.75)	15 (0.59)	16 (0.63)	20 (0.79)	16 (0.63)	22 (0.87)	22 (0.87)	19 (0.75)	23 (0.91)	23 (0.91)	19 (0.75)	19 (0.75)
April	87 (3.43)	72 (2.83)	78 (3.07)	90 (3.54)	78 (3.07)	81 (3.19)	93 (3.66)	81 (3.19)	86 (3.39)	97 (3.82)	86 (3.39)	100 (3.94)	100 (3.94)	94 (3.70)	103 (4.06)	103 (4.06)	97 (3.82)	97 (3.82)
May	133 (5.24)	115 (4.53)	135 (5.31)	135 (5.31)	120 (4.72)	138 (5.43)	138 (5.43)	125 (4.92)	142 (5.59)	142 (5.59)	129 (5.08)	147 (5.79)	147 (5.79)	136 (5.35)	151 (5.94)	151 (5.94)	141 (5.55)	141 (5.55)
June	152 (5.98)	134 (5.28)	153 (6.02)	153 (6.02)	142 (5.59)	156 (6.14)	156 (6.14)	146 (5.75)	160 (6.30)	160 (6.30)	150 (5.91)	165 (6.50)	165 (6.50)	159 (6.26)	166 (6.54)	166 (6.54)	162 (6.38)	162 (6.38)
July	189 (7.44)	185 (7.28)	190 (7.48)	190 (7.48)	188 (7.40)	191 (7.52)	191 (7.52)	190 (7.48)	193 (7.60)	193 (7.60)	192 (7.56)	198 (7.80)	198 (7.80)	197 (7.76)	203 (7.99)	203 (7.99)	200 (7.87)	200 (7.87)
Aug	153 (6.02)	148 (5.83)	155 (6.10)	155 (6.10)	151 (5.94)	157 (6.18)	157 (6.18)	155 (6.10)	159 (6.26)	159 (6.26)	158 (6.22)	163 (6.42)	163 (6.42)	163 (6.42)	169 (6.65)	169 (6.65)	167 (6.57)	167 (6.57)
Sep	111 (4.37)	97 (3.82)	113 (4.45)	113 (4.45)	100 (3.94)	114 (4.49)	114 (4.49)	104 (4.09)	116 (4.57)	116 (4.57)	109 (4.42)	118 (4.65)	118 (4.65)	112 (4.41)	119 (4.69)	119 (4.69)	114 (4.49)	114 (4.49)
Oct	39 (1.54)	39 (1.54)	46 (1.81)	46 (1.81)	46 (1.81)	54 (2.13)	54 (2.13)	51 (2.01)	62 (2.44)	62 (2.44)	56 (2.20)	72 (2.83)	72 (2.83)	64 (2.52)	77 (3.03)	77 (3.03)	73 (2.87)	73 (2.87)
Season	883 (34.77)	801 (31.54)	901 (35.46)	901 (35.46)	838 (32.98)	922 (36.30)	922 (36.30)	867 (34.13)	949 (37.37)	949 (37.37)	896 (35.28)	985 (38.80)	985 (38.80)	944 (37.17)	1011 (39.81)	1011 (39.81)	973 (38.30)	973 (38.30)

REGION: 11 East Slope of Mt. Hood  
CROP: Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	38 (1.50)	15 (0.59)	40 (1.57)	21 (0.83)	42 (1.65)	25 (0.98)	43 (1.69)	29 (1.14)	48 (1.89)	34 (1.34)	50 (1.97)	37 (1.46)						
April	81 (3.19)	66 (2.60)	83 (3.27)	72 (2.83)	88 (3.46)	76 (2.99)	90 (3.54)	80 (3.15)	92 (3.62)	87 (3.43)	95 (3.74)	90 (3.54)						
May	132 (5.20)	116 (4.57)	136 (5.35)	121 (4.76)	139 (5.47)	127 (5.00)	142 (5.59)	132 (5.20)	149 (5.87)	139 (5.47)	152 (5.98)	143 (5.63)						
June	169 (6.65)	152 (5.98)	171 (6.73)	159 (6.26)	174 (6.85)	164 (6.46)	178 (7.01)	167 (6.57)	184 (7.24)	178 (7.01)	185 (7.28)	182 (7.17)						
July	213 (8.39)	211 (8.31)	214 (8.43)	214 (8.43)	216 (8.50)	216 (8.50)	219 (8.62)	219 (8.62)	225 (8.86)	224 (8.82)	231 (9.09)	227 (8.94)						
Aug	174 (6.85)	170 (6.69)	176 (6.93)	173 (6.81)	178 (7.01)	175 (6.89)	181 (7.13)	178 (7.01)	185 (7.28)	183 (7.20)	192 (7.56)	188 (7.40)						
Sep	116 (4.57)	105 (4.13)	118 (4.65)	109 (4.29)	119 (4.69)	112 (4.41)	121 (4.76)	118 (4.65)	123 (4.84)	121 (4.76)	127 (5.00)	123 (4.84)						
Oct	34 (1.34)	34 (1.34)	41 (1.61)	39 (1.54)	48 (1.89)	44 (1.73)	55 (2.17)	49 (1.93)	63 (2.48)	56 (2.20)	68 (2.68)	64 (2.52)						
Nov	10 (0.39)	1 (0.04)	11 (0.43)	1 (0.04)	12 (0.47)	1 (0.04)	13 (0.51)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	6 (0.24)						
Season 967	(38.08)	870 (34.25)	990 (38.97)	909 (35.79)	1016 (39.99)	940 (37.00)	1042 (41.02)	973 (38.31)	1084 (42.67)	1023 (40.27)	1116 (43.93)	1060 (41.74)						

REGION: 11 East Slope of Mt. Hood  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	38 (1.50)	15 (0.59)	40 (1.57)	21 (0.83)	42 (1.65)	25 (0.98)	43 (1.69)	29 (1.14)	48 (1.89)	34 (1.34)	50 (1.97)	37 (1.46)						
April	81 (3.19)	66 (2.60)	83 (3.27)	72 (2.83)	88 (3.46)	76 (2.99)	90 (3.54)	80 (3.15)	92 (3.62)	87 (3.43)	95 (3.74)	90 (3.54)						
May	132 (5.20)	116 (4.57)	136 (5.35)	121 (4.76)	139 (5.47)	127 (5.00)	142 (5.59)	132 (5.20)	149 (5.87)	139 (5.47)	152 (5.98)	143 (5.63)						
June	169 (6.65)	152 (5.98)	171 (6.73)	159 (6.26)	174 (6.85)	164 (6.46)	178 (7.01)	167 (6.57)	184 (7.24)	178 (7.01)	185 (7.28)	182 (7.17)						
July	213 (8.39)	211 (8.31)	214 (8.43)	214 (8.43)	216 (8.50)	216 (8.50)	219 (8.62)	219 (8.62)	225 (8.86)	224 (8.82)	231 (9.09)	227 (8.94)						
Aug	174 (6.85)	170 (6.69)	176 (6.93)	173 (6.81)	178 (7.01)	175 (6.89)	181 (7.13)	178 (7.01)	185 (7.28)	183 (7.20)	192 (7.56)	188 (7.40)						
Sep	116 (4.57)	105 (4.13)	118 (4.65)	109 (4.29)	119 (4.69)	112 (4.41)	121 (4.76)	118 (4.65)	123 (4.84)	121 (4.76)	127 (5.00)	123 (4.84)						
Oct	34 (1.34)	34 (1.34)	41 (1.61)	39 (1.54)	48 (1.89)	44 (1.73)	55 (2.17)	49 (1.93)	63 (2.48)	56 (2.20)	68 (2.68)	64 (2.52)						
Nov	10 (0.39)	1 (0.04)	11 (0.43)	1 (0.04)	12 (0.47)	1 (0.04)	13 (0.51)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	6 (0.24)						
Season 967	(38.08)	870 (34.25)	990 (38.97)	909 (35.79)	1016 (39.99)	940 (37.00)	1042 (41.02)	973 (38.31)	1084 (42.67)	1023 (40.27)	1116 (43.93)	1060 (41.74)						

REGION: 12 Columbia Basin wheat land  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.							
April	58 (2.28)	46 (1.81)	60 (2.36)	49 (1.93)	62 (2.44)	52 (2.05)	63 (2.48)	57 (2.24)	66 (2.60)	61 (2.40)	68 (2.68)	64 (2.52)	126 (4.96)	102 (4.02)	128 (5.04)	107 (4.21)	130 (5.12)	111 (4.37)	134 (5.28)	117 (4.61)	137 (5.39)	123 (4.84)	138 (5.43)	129 (5.08)	
May	144 (5.67)	120 (4.72)	149 (5.87)	129 (5.08)	150 (5.91)	136 (5.35)	152 (5.98)	144 (5.67)	157 (6.18)	150 (5.91)	161 (6.34)	155 (6.10)	177 (6.97)	169 (6.65)	178 (7.01)	173 (6.81)	180 (7.09)	176 (6.93)	183 (7.20)	179 (7.05)	186 (7.32)	182 (7.17)	191 (7.52)	186 (7.32)	
June	147 (5.79)	140 (5.51)	149 (5.87)	143 (5.63)	152 (5.98)	146 (5.75)	154 (6.06)	150 (5.91)	163 (6.42)	157 (6.18)	166 (6.54)	160 (6.30)	101 (3.98)	89 (3.50)	103 (4.06)	94 (3.70)	105 (4.13)	98 (3.86)	109 (4.29)	101 (3.98)	111 (4.37)	105 (4.13)	112 (4.41)	108 (4.25)	
Season	753 (29.65)	666 (26.21)	767 (30.21)	695 (27.36)	779 (30.67)	719 (28.31)	795 (31.29)	748 (29.46)	820 (32.28)	778 (30.63)	836 (32.92)	802 (31.57)													

REGION: 12 Columbia Basin wheat land  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.							
March	41 (1.61)	17 (0.67)	42 (1.65)	22 (0.87)	44 (1.73)	26 (1.02)	46 (1.81)	28 (1.10)	48 (1.89)	32 (1.26)	49 (1.93)	35 (1.38)	87 (3.43)	67 (2.64)	90 (3.54)	72 (3.03)	92 (3.62)	77 (3.03)	94 (3.70)	83 (3.27)	98 (3.86)	90 (3.54)	101 (3.98)	95 (3.74)	
April	149 (5.87)	125 (4.92)	152 (5.98)	130 (5.12)	154 (6.06)	136 (5.35)	159 (6.26)	141 (5.55)	162 (6.38)	149 (5.87)	163 (6.42)	155 (6.10)	189 (7.44)	162 (6.38)	194 (7.64)	170 (6.69)	196 (7.72)	177 (6.97)	199 (7.83)	184 (7.24)	205 (8.07)	195 (7.68)	210 (8.27)	204 (8.03)	
May	233 (9.17)	227 (8.94)	234 (9.21)	231 (9.09)	237 (9.33)	235 (9.25)	242 (9.53)	239 (9.41)	246 (9.69)	242 (9.53)	253 (9.96)	248 (9.76)	195 (7.68)	186 (7.32)	198 (7.80)	191 (7.52)	201 (7.91)	196 (7.72)	203 (7.99)	202 (7.95)	212 (8.35)	209 (8.23)	219 (8.62)	213 (8.39)	
June	129 (5.08)	112 (4.41)	130 (5.12)	119 (4.69)	132 (5.20)	125 (4.92)	136 (5.35)	129 (5.08)	139 (5.47)	134 (5.28)	140 (5.51)	138 (5.43)	61 (2.40)	40 (1.57)	63 (2.48)	45 (1.77)	64 (2.52)	50 (1.97)	65 (2.56)	55 (2.17)	67 (2.64)	61 (2.40)	70 (2.76)	66 (2.50)	
July	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	4 (0.16)	17 (0.67)	8 (0.31)													
Aug	1097 (43.19)	937 (36.89)	1117 (43.97)	981 (38.62)	1135 (44.68)	1023 (40.27)	1160 (45.66)	1062 (41.81)	1193 (46.98)	1116 (43.95)	1222 (48.12)	1162 (45.74)													
Sep																									
Oct																									
Nov																									

REGION: 12 Columbia Basin wheat Land  
CROP: Berries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years				
	ET crop mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.		
May	37 (1.46)	28 (1.10)	38 (1.50)	30 (1.18)	38 (1.50)	32 (1.26)	39 (1.54)	34 (1.34)	39 (1.54)	35 (1.38)	39 (1.54)	35 (1.38)	39 (1.54)	36 (1.42)	39 (1.54)	36 (1.42)	39 (1.54)	36 (1.42)	36 (1.42)	
June	90 (3.54)	69 (2.72)	91 (3.58)	76 (2.99)	93 (3.66)	81 (3.19)	95 (3.74)	85 (3.35)	97 (3.82)	91 (3.58)	101 (3.98)	91 (3.58)	101 (3.98)	95 (3.74)	101 (3.98)	95 (3.74)	101 (3.98)	95 (3.74)	95 (3.74)	95 (3.74)
July	131 (5.16)	127 (5.00)	132 (5.20)	129 (5.08)	133 (5.24)	131 (5.16)	135 (5.31)	133 (5.24)	138 (5.43)	136 (5.35)	139 (5.47)	136 (5.35)	139 (5.47)	138 (5.43)	139 (5.47)	138 (5.43)	139 (5.47)	138 (5.43)	138 (5.43)	138 (5.43)
Aug	113 (4.45)	108 (4.25)	115 (4.53)	111 (4.37)	117 (4.61)	114 (4.49)	119 (4.69)	117 (4.61)	124 (4.88)	120 (4.72)	128 (5.04)	120 (4.72)	128 (5.04)	122 (4.80)	128 (5.04)	122 (4.80)	128 (5.04)	122 (4.80)	122 (4.80)	122 (4.80)
Sep	80 (3.15)	67 (2.64)	80 (3.15)	70 (2.76)	81 (3.19)	74 (2.91)	84 (3.31)	79 (3.11)	86 (3.39)	82 (3.25)	86 (3.39)	82 (3.25)	86 (3.39)	83 (3.27)	86 (3.39)	83 (3.27)	86 (3.39)	83 (3.27)	83 (3.27)	83 (3.27)
Oct	47 (1.85)	26 (1.02)	48 (1.89)	31 (1.22)	49 (1.93)	35 (1.38)	50 (1.97)	39 (1.54)	52 (2.05)	47 (1.85)	55 (2.17)	47 (1.85)	55 (2.17)	51 (2.01)	55 (2.17)	51 (2.01)	55 (2.17)	51 (2.01)	51 (2.01)	51 (2.01)
Nov	2 (0.08)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	2 (0.08)	3 (0.12)	2 (0.08)	3 (0.12)	2 (0.08)	2 (0.08)	2 (0.08)
Season	500 (19.69)	425 (16.73)	507 (19.97)	447 (17.60)	514 (20.25)	467 (18.39)	525 (20.68)	487 (19.19)	539 (21.23)	513 (20.19)	551 (21.71)	513 (20.19)	551 (21.71)	527 (20.75)	551 (21.71)	527 (20.75)	551 (21.71)	527 (20.75)	527 (20.75)	527 (20.75)

REGION: 12 Columbia Basin wheat Land  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years				
	ET crop mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.		
March	41 (1.61)	17 (0.67)	42 (1.65)	22 (0.87)	44 (1.73)	26 (1.02)	46 (1.81)	28 (1.10)	48 (1.89)	32 (1.26)	49 (1.93)	32 (1.26)	49 (1.93)	35 (1.38)	49 (1.93)	35 (1.38)	49 (1.93)	35 (1.38)	35 (1.38)	35 (1.38)
April	87 (3.43)	67 (2.64)	90 (3.54)	72 (2.83)	92 (3.62)	77 (3.03)	94 (3.70)	83 (3.27)	98 (3.86)	90 (3.54)	101 (3.98)	90 (3.54)	101 (3.98)	95 (3.74)	101 (3.98)	95 (3.74)	101 (3.98)	95 (3.74)	95 (3.74)	95 (3.74)
May	149 (5.87)	125 (4.92)	152 (5.98)	130 (5.12)	154 (6.06)	136 (5.35)	159 (6.26)	141 (5.55)	162 (6.38)	149 (5.87)	163 (6.42)	149 (5.87)	163 (6.42)	155 (6.10)	163 (6.42)	155 (6.10)	163 (6.42)	155 (6.10)	155 (6.10)	155 (6.10)
June	189 (7.44)	162 (6.38)	194 (7.64)	170 (6.69)	196 (7.72)	177 (6.97)	199 (7.83)	184 (7.24)	205 (8.07)	195 (7.68)	210 (8.27)	195 (7.68)	210 (8.27)	204 (8.03)	210 (8.27)	204 (8.03)	210 (8.27)	204 (8.03)	204 (8.03)	204 (8.03)
July	233 (9.17)	227 (8.94)	234 (9.21)	231 (9.09)	237 (9.33)	235 (9.25)	242 (9.53)	239 (9.41)	246 (9.69)	242 (9.53)	253 (9.96)	242 (9.53)	253 (9.96)	248 (9.76)	253 (9.96)	248 (9.76)	253 (9.96)	248 (9.76)	248 (9.76)	248 (9.76)
Aug	195 (7.68)	186 (7.32)	198 (7.80)	191 (7.52)	201 (7.91)	196 (7.72)	203 (7.99)	202 (7.95)	212 (8.35)	209 (8.23)	219 (8.62)	209 (8.23)	219 (8.62)	213 (8.59)	219 (8.62)	213 (8.59)	219 (8.62)	213 (8.59)	213 (8.59)	213 (8.59)
Sep	129 (5.08)	112 (4.41)	130 (5.12)	119 (4.69)	132 (5.20)	125 (4.92)	136 (5.35)	129 (5.08)	139 (5.47)	134 (5.28)	140 (5.51)	134 (5.28)	140 (5.51)	138 (5.43)	140 (5.51)	138 (5.43)	140 (5.51)	138 (5.43)	138 (5.43)	138 (5.43)
Oct	61 (2.40)	40 (1.57)	63 (2.48)	45 (1.77)	64 (2.52)	50 (1.97)	65 (2.56)	55 (2.17)	67 (2.64)	61 (2.40)	70 (2.76)	61 (2.40)	70 (2.76)	66 (2.60)	70 (2.76)	66 (2.60)	70 (2.76)	66 (2.60)	66 (2.60)	66 (2.60)
Nov	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	4 (0.16)	17 (0.67)	4 (0.16)	17 (0.67)	8 (0.31)	17 (0.67)	8 (0.31)	17 (0.67)	8 (0.31)	8 (0.31)	8 (0.31)
Season	1097 (43.19)	937 (36.89)	1117 (43.97)	981 (38.62)	1135 (44.68)	1023 (40.27)	1160 (45.66)	1062 (41.81)	1193 (46.98)	1116 (43.95)	1222 (48.12)	1116 (43.95)	1222 (48.12)	1162 (45.74)	1222 (48.12)	1162 (45.74)	1222 (48.12)	1162 (45.74)	1162 (45.74)	1162 (45.74)





REGION: 12 Columbia Basin wheat land  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm
Jan	2 (0.08)	0 (0.00)	0 (0.12)	3 (0.12)	0 (0.00)	0 (0.20)	5 (0.20)	0 (0.00)	6 (0.24)	0 (0.00)	7 (0.28)	0 (0.00)	10 (0.39)	0 (0.00)	10 (0.39)	0 (0.00)	0 (0.00)	0 (0.00)
Feb	10 (0.39)	1 (0.04)	11 (0.43)	11 (0.43)	1 (0.04)	12 (0.47)	12 (0.47)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	12 (0.47)	16 (0.63)	12 (0.47)	12 (0.47)	12 (0.47)
March	19 (0.75)	2 (0.08)	19 (0.75)	19 (0.75)	2 (0.08)	21 (0.83)	21 (0.83)	2 (0.08)	22 (0.87)	7 (0.28)	23 (0.91)	7 (0.28)	24 (0.94)	12 (0.47)	24 (0.94)	12 (0.47)	12 (0.47)	12 (0.47)
April	48 (1.89)	30 (1.18)	49 (1.93)	49 (1.93)	33 (1.30)	50 (1.97)	50 (1.97)	37 (1.46)	51 (2.01)	43 (1.69)	53 (2.09)	49 (1.93)	54 (2.13)	52 (2.05)	54 (2.13)	52 (2.05)	52 (2.05)	52 (2.05)
May	78 (3.07)	58 (2.28)	79 (3.11)	79 (3.11)	63 (2.48)	81 (3.19)	81 (3.19)	67 (2.64)	82 (3.23)	70 (2.76)	83 (3.27)	73 (2.87)	84 (3.31)	75 (2.95)	84 (3.31)	75 (2.95)	75 (2.95)	75 (2.95)
June	121 (4.76)	98 (3.86)	124 (4.88)	124 (4.88)	106 (4.17)	126 (4.96)	111 (4.37)	111 (4.37)	128 (5.04)	116 (4.57)	133 (5.24)	124 (4.88)	135 (5.31)	130 (5.12)	135 (5.31)	130 (5.12)	130 (5.12)	130 (5.12)
July	189 (7.44)	183 (7.20)	191 (7.52)	187 (7.36)	187 (7.36)	193 (7.60)	190 (7.48)	197 (7.76)	193 (7.60)	183 (7.20)	193 (7.60)	189 (7.44)	200 (7.95)	201 (7.91)	200 (7.95)	201 (7.91)	201 (7.91)	201 (7.91)
Aug	177 (6.97)	168 (6.61)	180 (7.09)	173 (6.81)	183 (7.20)	177 (6.97)	185 (7.28)	183 (7.20)	185 (7.28)	183 (7.20)	193 (7.60)	189 (7.44)	200 (7.95)	192 (7.56)	200 (7.95)	192 (7.56)	192 (7.56)	192 (7.56)
Sep	124 (4.88)	109 (4.29)	125 (4.92)	115 (4.53)	127 (5.00)	119 (4.69)	131 (5.16)	123 (4.84)	133 (5.24)	127 (5.00)	133 (5.24)	127 (5.00)	135 (5.31)	131 (5.16)	135 (5.31)	131 (5.16)	131 (5.16)	131 (5.16)
Oct	74 (2.91)	51 (2.01)	76 (2.99)	57 (2.24)	78 (3.07)	63 (2.48)	79 (3.11)	69 (2.72)	82 (3.23)	76 (2.99)	87 (3.43)	76 (2.99)	87 (3.43)	80 (3.15)	87 (3.43)	80 (3.15)	80 (3.15)	80 (3.15)
Nov	19 (0.75)	1 (0.04)	20 (0.79)	2 (0.08)	21 (0.83)	2 (0.08)	22 (0.87)	2 (0.08)	23 (0.91)	2 (0.08)	23 (0.91)	2 (0.08)	24 (0.94)	13 (0.51)	24 (0.94)	13 (0.51)	13 (0.51)	13 (0.51)
Dec	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	5 (0.20)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	0 (0.00)	0 (0.00)
Season	862 (33.93)	701 (27.59)	878 (34.57)	739 (29.09)	900 (35.44)	772 (30.41)	920 (36.24)	807 (31.78)	950 (37.43)	856 (33.69)	977 (38.45)	898 (35.35)	977 (38.45)	898 (35.35)	977 (38.45)	898 (35.35)	898 (35.35)	898 (35.35)

REGION: 12 Columbia Basin wheat land  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm
March	19 (0.75)	11 (0.43)	19 (0.75)	13 (0.51)	14 (0.55)	20 (0.79)	21 (0.83)	15 (0.59)	22 (0.87)	17 (0.67)	23 (0.91)	19 (0.75)	23 (0.91)	19 (0.75)	23 (0.91)	19 (0.75)	19 (0.75)	19 (0.75)
April	89 (3.50)	69 (2.72)	92 (3.62)	74 (2.91)	79 (3.11)	94 (3.70)	94 (3.70)	85 (3.35)	100 (3.94)	92 (3.62)	103 (4.06)	97 (3.82)	103 (4.06)	97 (3.82)	103 (4.06)	97 (3.82)	97 (3.82)	97 (3.82)
May	134 (5.28)	110 (4.33)	136 (5.35)	115 (4.53)	120 (4.72)	143 (5.63)	125 (4.92)	146 (5.75)	167 (6.57)	160 (6.30)	172 (6.77)	165 (6.50)	172 (6.77)	165 (6.50)	172 (6.77)	165 (6.50)	165 (6.50)	165 (6.50)
June	154 (6.06)	130 (5.12)	159 (6.26)	138 (5.43)	146 (5.75)	161 (6.34)	146 (5.75)	162 (6.38)	191 (7.52)	194 (7.64)	203 (7.99)	199 (7.83)	203 (7.99)	199 (7.83)	203 (7.99)	199 (7.83)	199 (7.83)	199 (7.83)
July	189 (7.44)	181 (7.13)	190 (7.48)	186 (7.32)	189 (7.44)	192 (7.56)	189 (7.44)	195 (7.68)	191 (7.52)	198 (7.80)	203 (7.99)	199 (7.83)	203 (7.99)	199 (7.83)	203 (7.99)	199 (7.83)	199 (7.83)	199 (7.83)
Aug	157 (6.18)	150 (5.91)	160 (6.30)	153 (6.02)	162 (6.38)	157 (6.18)	164 (6.46)	161 (6.34)	171 (6.73)	167 (6.57)	177 (6.97)	170 (6.69)	177 (6.97)	170 (6.69)	177 (6.97)	170 (6.69)	170 (6.69)	170 (6.69)
Sep	110 (4.33)	96 (3.78)	111 (4.37)	101 (3.98)	112 (4.41)	106 (4.17)	116 (4.57)	110 (4.33)	118 (4.65)	114 (4.49)	119 (4.69)	117 (4.61)	119 (4.69)	117 (4.61)	119 (4.69)	117 (4.61)	117 (4.61)	117 (4.61)
Oct	64 (2.52)	43 (1.69)	66 (2.60)	47 (1.85)	53 (2.09)	67 (2.64)	68 (2.68)	59 (2.32)	71 (2.80)	66 (2.60)	73 (2.87)	70 (2.76)	73 (2.87)	70 (2.76)	73 (2.87)	70 (2.76)	70 (2.76)	70 (2.76)
Season	916 (36.06)	790 (31.11)	933 (36.73)	827 (32.55)	946 (37.25)	864 (34.01)	965 (38.01)	897 (35.31)	992 (39.07)	942 (37.09)	1016 (40.01)	977 (38.47)	1016 (40.01)	977 (38.47)	1016 (40.01)	977 (38.47)	977 (38.47)	977 (38.47)

REGION: 12 Columbia Basin wheat land  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.									
March	41 (1.61)	17 (0.67)	42 (1.65)	22 (0.87)	44 (1.73)	26 (1.02)	46 (1.81)	28 (1.10)	48 (1.89)	32 (1.26)	49 (1.93)	35 (1.38)	82 (3.23)	63 (2.48)	85 (3.35)	67 (2.64)	88 (3.46)	72 (2.83)	89 (3.50)	78 (3.07)	92 (3.62)	86 (3.39)	96 (3.78)	90 (3.54)	
April	136 (5.35)	112 (4.41)	138 (5.43)	117 (4.61)	140 (5.51)	122 (4.80)	145 (5.71)	128 (5.04)	148 (5.83)	135 (5.31)	149 (5.87)	141 (5.55)	173 (6.81)	147 (5.79)	178 (7.01)	156 (6.14)	180 (7.09)	164 (6.46)	182 (7.17)	170 (6.69)	188 (7.40)	179 (7.05)	192 (7.56)	186 (7.32)	
May	215 (8.46)	208 (8.19)	217 (8.54)	212 (8.35)	218 (8.58)	216 (8.50)	222 (8.74)	218 (8.58)	226 (8.90)	222 (8.74)	232 (9.13)	227 (8.94)	179 (7.05)	170 (6.69)	182 (7.17)	174 (6.85)	184 (7.24)	179 (7.05)	187 (7.36)	185 (7.28)	195 (7.68)	191 (7.52)	202 (7.95)	194 (7.64)	
June	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)	120 (4.72)	114 (4.49)	124 (4.88)	118 (4.65)	127 (5.00)	121 (4.76)	128 (5.04)	125 (4.92)	58 (2.28)	37 (1.46)	59 (2.32)	42 (1.85)	60 (2.36)	47 (1.85)	61 (2.40)	51 (2.01)	64 (2.52)	57 (2.24)	66 (2.60)	62 (2.44)	
July	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	4 (0.16)	17 (0.67)	8 (0.31)	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	4 (0.16)	17 (0.67)	8 (0.31)	13 (0.51)	1 (0.04)	
Aug	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)	120 (4.72)	114 (4.49)	124 (4.88)	118 (4.65)	127 (5.00)	121 (4.76)	128 (5.04)	125 (4.92)	58 (2.28)	37 (1.46)	59 (2.32)	42 (1.85)	60 (2.36)	47 (1.85)	61 (2.40)	51 (2.01)	64 (2.52)	57 (2.24)	66 (2.60)	62 (2.44)	
Sep	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)	120 (4.72)	114 (4.49)	124 (4.88)	118 (4.65)	127 (5.00)	121 (4.76)	128 (5.04)	125 (4.92)	58 (2.28)	37 (1.46)	59 (2.32)	42 (1.85)	60 (2.36)	47 (1.85)	61 (2.40)	51 (2.01)	64 (2.52)	57 (2.24)	66 (2.60)	62 (2.44)	
Oct	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)	120 (4.72)	114 (4.49)	124 (4.88)	118 (4.65)	127 (5.00)	121 (4.76)	128 (5.04)	125 (4.92)	58 (2.28)	37 (1.46)	59 (2.32)	42 (1.85)	60 (2.36)	47 (1.85)	61 (2.40)	51 (2.01)	64 (2.52)	57 (2.24)	66 (2.60)	62 (2.44)	
Nov	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	4 (0.16)	17 (0.67)	8 (0.31)	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	4 (0.16)	17 (0.67)	8 (0.31)	13 (0.51)	1 (0.04)	
Season1015	(39.95)	856 (33.71)	1034 (40.71)	901 (35.48)	1049 (41.28)	941 (37.04)	1072 (42.20)	977 (38.46)	1104 (43.47)	1027 (40.43)	1131 (44.53)	1068 (42.04)													

REGION: 12 Columbia Basin wheat land  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.									
March	41 (1.61)	17 (0.67)	42 (1.65)	22 (0.87)	44 (1.73)	26 (1.02)	46 (1.81)	28 (1.10)	48 (1.89)	32 (1.26)	49 (1.93)	35 (1.38)	82 (3.23)	63 (2.48)	85 (3.35)	67 (2.64)	88 (3.46)	72 (2.83)	89 (3.50)	78 (3.07)	92 (3.62)	86 (3.39)	96 (3.78)	90 (3.54)	
April	136 (5.35)	112 (4.41)	138 (5.43)	117 (4.61)	140 (5.51)	122 (4.80)	145 (5.71)	128 (5.04)	148 (5.83)	135 (5.31)	149 (5.87)	141 (5.55)	173 (6.81)	147 (5.79)	178 (7.01)	156 (6.14)	180 (7.09)	164 (6.46)	182 (7.17)	170 (6.69)	188 (7.40)	179 (7.05)	192 (7.56)	186 (7.32)	
May	215 (8.46)	208 (8.19)	217 (8.54)	212 (8.35)	218 (8.58)	216 (8.50)	222 (8.74)	218 (8.58)	226 (8.90)	222 (8.74)	232 (9.13)	227 (8.94)	179 (7.05)	170 (6.69)	182 (7.17)	174 (6.85)	184 (7.24)	179 (7.05)	187 (7.36)	185 (7.28)	195 (7.68)	191 (7.52)	202 (7.95)	194 (7.64)	
June	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)	120 (4.72)	114 (4.49)	124 (4.88)	118 (4.65)	127 (5.00)	121 (4.76)	128 (5.04)	125 (4.92)	58 (2.28)	37 (1.46)	59 (2.32)	42 (1.85)	60 (2.36)	47 (1.85)	61 (2.40)	51 (2.01)	64 (2.52)	57 (2.24)	66 (2.60)	62 (2.44)	
July	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	4 (0.16)	17 (0.67)	8 (0.31)	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	4 (0.16)	17 (0.67)	8 (0.31)	13 (0.51)	1 (0.04)	
Aug	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)	120 (4.72)	114 (4.49)	124 (4.88)	118 (4.65)	127 (5.00)	121 (4.76)	128 (5.04)	125 (4.92)	58 (2.28)	37 (1.46)	59 (2.32)	42 (1.85)	60 (2.36)	47 (1.85)	61 (2.40)	51 (2.01)	64 (2.52)	57 (2.24)	66 (2.60)	62 (2.44)	
Sep	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)	120 (4.72)	114 (4.49)	124 (4.88)	118 (4.65)	127 (5.00)	121 (4.76)	128 (5.04)	125 (4.92)	58 (2.28)	37 (1.46)	59 (2.32)	42 (1.85)	60 (2.36)	47 (1.85)	61 (2.40)	51 (2.01)	64 (2.52)	57 (2.24)	66 (2.60)	62 (2.44)	
Oct	118 (4.65)	101 (3.98)	119 (4.69)	110 (4.33)	120 (4.72)	114 (4.49)	124 (4.88)	118 (4.65)	127 (5.00)	121 (4.76)	128 (5.04)	125 (4.92)	58 (2.28)	37 (1.46)	59 (2.32)	42 (1.85)	60 (2.36)	47 (1.85)	61 (2.40)	51 (2.01)	64 (2.52)	57 (2.24)	66 (2.60)	62 (2.44)	
Nov	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	4 (0.16)	17 (0.67)	8 (0.31)	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	4 (0.16)	17 (0.67)	8 (0.31)	13 (0.51)	1 (0.04)	
Season1015	(39.95)	856 (33.71)	1034 (40.71)	901 (35.48)	1049 (41.28)	941 (37.04)	1072 (42.20)	977 (38.46)	1104 (43.47)	1027 (40.43)	1131 (44.53)	1068 (42.04)													

REGION: 13 Pendleton-Heppner  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.									
April	58 (2.28)	39 (1.54)	59 (2.32)	42 (1.65)	60 (2.36)	46 (1.81)	61 (2.40)	49 (1.93)	65 (2.56)	53 (2.09)	67 (2.64)	56 (2.20)	120 (4.72)	89 (3.50)	123 (4.84)	95 (3.74)	125 (4.92)	100 (3.94)	127 (5.00)	106 (4.17)	132 (5.20)	114 (4.49)	134 (5.28)	122 (4.80)	
May	144 (5.67)	111 (4.37)	145 (5.71)	115 (4.53)	146 (5.75)	122 (4.80)	148 (5.83)	132 (5.20)	153 (6.02)	139 (5.47)	154 (6.06)	144 (5.67)	165 (6.50)	160 (6.30)	166 (6.54)	163 (6.42)	169 (6.65)	165 (6.50)	172 (6.77)	169 (6.65)	175 (6.89)	172 (6.77)	177 (6.97)	175 (6.89)	
June	138 (5.43)	130 (5.12)	140 (5.51)	133 (5.24)	141 (5.55)	137 (5.39)	143 (5.63)	141 (5.55)	148 (5.83)	146 (5.75)	154 (6.06)	151 (5.94)	94 (3.70)	76 (2.99)	97 (3.82)	80 (3.15)	98 (3.86)	85 (3.35)	99 (3.90)	90 (3.54)	102 (4.02)	97 (3.82)	106 (4.17)	99 (3.90)	
Season	719 (28.30)	605 (23.82)	730 (28.74)	628 (24.73)	739 (29.09)	655 (25.79)	750 (29.53)	687 (27.04)	775 (30.52)	721 (28.39)	792 (31.18)	747 (29.40)													

REGION: 13 Pendleton-Heppner  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.									
March	41 (1.61)	13 (0.51)	42 (1.65)	17 (0.67)	43 (1.69)	21 (0.83)	47 (1.85)	26 (1.02)	48 (1.89)	31 (1.22)	53 (2.09)	38 (1.50)	84 (3.31)	58 (2.28)	86 (3.39)	62 (2.44)	91 (3.58)	72 (2.83)	96 (3.78)	78 (3.07)	100 (3.94)	82 (3.23)			
April	143 (5.63)	109 (4.29)	146 (5.75)	116 (4.57)	148 (5.83)	123 (4.84)	150 (5.91)	129 (5.08)	157 (6.18)	138 (5.43)	160 (6.30)	145 (5.71)	187 (7.36)	149 (5.87)	189 (7.44)	157 (6.18)	192 (7.56)	175 (6.89)	199 (7.83)	184 (7.24)	202 (7.95)	188 (7.40)			
May	218 (8.58)	213 (8.39)	221 (8.70)	216 (8.50)	224 (8.82)	219 (8.62)	228 (8.98)	222 (8.74)	232 (9.13)	227 (8.94)	235 (9.25)	231 (9.09)	184 (7.24)	172 (6.77)	186 (7.32)	177 (6.97)	188 (7.40)	187 (7.17)	190 (7.48)	187 (7.17)	194 (7.72)	194 (7.72)	205 (8.07)	198 (7.80)	
June	117 (4.61)	98 (3.86)	121 (4.76)	103 (4.06)	123 (4.84)	108 (4.25)	125 (4.92)	116 (4.57)	128 (5.04)	123 (4.84)	132 (5.20)	126 (4.96)	59 (2.32)	33 (1.30)	60 (2.36)	38 (1.50)	62 (2.44)	41 (1.61)	64 (2.52)	47 (1.85)	67 (2.64)	56 (2.20)	69 (2.72)	60 (2.36)	
July	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	5 (0.20)													
August	184 (7.24)	172 (6.77)	186 (7.32)	177 (6.97)	188 (7.40)	182 (7.17)	190 (7.48)	187 (7.17)	196 (7.72)	194 (7.72)	205 (8.07)	198 (7.80)	Season1046	(41.17)	846 (33.31)	1065 (41.92)	887 (34.93)	1081 (42.55)	927 (36.50)	1102 (43.39)	975 (38.38)	1139 (44.84)	1032 (40.62)	1173 (46.19)	1073 (42.25)
September	117 (4.61)	98 (3.86)	121 (4.76)	103 (4.06)	123 (4.84)	108 (4.25)	125 (4.92)	116 (4.57)	128 (5.04)	123 (4.84)	132 (5.20)	126 (4.96)													
October	59 (2.32)	33 (1.30)	60 (2.36)	38 (1.50)	62 (2.44)	41 (1.61)	64 (2.52)	47 (1.85)	67 (2.64)	56 (2.20)	69 (2.72)	60 (2.36)													
November	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	5 (0.20)													

REGION: 13 Pendleton-Heppner  
CROP: Berries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm
May	37 (1.46)	22 (0.87)	37 (1.46)	37 (1.46)	28 (1.10)	30 (1.18)	38 (1.50)	30 (1.18)	33 (1.30)	39 (1.54)	33 (1.30)	39 (1.54)	39 (1.54)	33 (1.30)	35 (1.38)	39 (1.54)	35 (1.38)	35 (1.38)
June	88 (3.46)	61 (2.40)	89 (3.50)	91 (3.58)	73 (2.87)	79 (3.11)	93 (3.66)	79 (3.11)	85 (3.35)	96 (3.78)	85 (3.35)	96 (3.78)	96 (3.78)	85 (3.35)	90 (3.54)	98 (3.86)	90 (3.54)	90 (3.54)
July	122 (4.80)	117 (4.61)	123 (4.84)	124 (4.88)	121 (4.76)	123 (4.84)	127 (5.00)	123 (4.84)	126 (4.96)	129 (5.08)	126 (4.96)	129 (5.08)	129 (5.08)	126 (4.96)	129 (5.08)	130 (5.12)	129 (5.08)	129 (5.08)
Aug	107 (4.21)	99 (3.90)	108 (4.25)	109 (4.29)	105 (4.13)	109 (4.29)	110 (4.33)	109 (4.29)	112 (4.41)	114 (4.49)	112 (4.41)	114 (4.49)	114 (4.49)	112 (4.41)	115 (4.53)	119 (4.69)	115 (4.53)	115 (4.53)
Sep	72 (2.83)	56 (2.20)	75 (2.95)	77 (3.03)	62 (2.44)	78 (3.07)	78 (3.07)	68 (2.68)	74 (2.91)	79 (3.11)	74 (2.91)	79 (3.11)	79 (3.11)	74 (2.91)	77 (3.03)	81 (3.19)	77 (3.03)	77 (3.03)
Oct	45 (1.77)	20 (0.79)	46 (1.81)	46 (1.81)	27 (1.06)	47 (1.85)	47 (1.85)	34 (1.34)	41 (1.61)	49 (1.93)	41 (1.61)	49 (1.93)	49 (1.93)	41 (1.61)	45 (1.77)	51 (2.01)	45 (1.77)	45 (1.77)
Nov	2 (0.08)	0 (0.00)	3 (0.12)	3 (0.12)	0 (0.00)	3 (0.12)	3 (0.12)	0 (0.00)	1 (0.04)	3 (0.12)	1 (0.04)	3 (0.12)	3 (0.12)	1 (0.04)	2 (0.08)	3 (0.12)	2 (0.08)	2 (0.08)
Season	473 (18.61)	375 (14.77)	481 (18.93)	487 (19.17)	416 (16.36)	443 (17.44)	496 (19.53)	443 (17.44)	472 (18.58)	509 (20.05)	472 (18.58)	509 (20.05)	509 (20.05)	472 (18.58)	493 (19.41)	521 (20.53)	493 (19.41)	493 (19.41)

REGION: 13 Pendleton-Heppner  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm	ET crop mm	Net IRR in.	Net IRR mm
March	41 (1.61)	13 (0.51)	42 (1.65)	43 (1.69)	21 (0.83)	26 (1.02)	47 (1.85)	26 (1.02)	31 (1.22)	48 (1.89)	31 (1.22)	48 (1.89)	48 (1.89)	31 (1.22)	38 (1.50)	53 (2.09)	38 (1.50)	38 (1.50)
April	84 (3.31)	58 (2.28)	86 (3.39)	88 (3.46)	67 (2.64)	72 (2.83)	91 (3.58)	67 (2.64)	78 (3.07)	96 (3.78)	78 (3.07)	96 (3.78)	96 (3.78)	78 (3.07)	82 (3.23)	100 (3.94)	82 (3.23)	82 (3.23)
May	143 (5.63)	109 (4.29)	146 (5.75)	148 (5.83)	123 (4.84)	129 (5.08)	150 (5.91)	129 (5.08)	138 (5.43)	157 (6.18)	138 (5.43)	157 (6.18)	157 (6.18)	138 (5.43)	145 (5.71)	160 (6.30)	145 (5.71)	145 (5.71)
June	187 (7.36)	149 (5.87)	189 (7.44)	191 (7.52)	165 (6.50)	175 (6.89)	192 (7.56)	165 (6.50)	184 (7.24)	199 (7.83)	184 (7.24)	199 (7.83)	199 (7.83)	184 (7.24)	188 (7.40)	202 (7.95)	188 (7.40)	188 (7.40)
July	218 (8.58)	213 (8.39)	221 (8.70)	224 (8.82)	219 (8.62)	228 (8.98)	228 (8.98)	222 (8.74)	227 (8.94)	232 (9.13)	227 (8.94)	232 (9.13)	232 (9.13)	227 (8.94)	231 (9.09)	235 (9.25)	231 (9.09)	231 (9.09)
Aug	184 (7.24)	172 (6.77)	186 (7.32)	188 (7.40)	182 (7.17)	190 (7.48)	190 (7.48)	187 (7.36)	194 (7.64)	196 (7.72)	194 (7.64)	196 (7.72)	196 (7.72)	194 (7.64)	198 (7.80)	205 (8.07)	198 (7.80)	198 (7.80)
Sep	117 (4.61)	98 (3.86)	121 (4.76)	123 (4.84)	108 (4.25)	125 (4.92)	125 (4.92)	116 (4.57)	123 (4.84)	128 (5.04)	123 (4.84)	128 (5.04)	128 (5.04)	123 (4.84)	126 (4.96)	132 (5.20)	126 (4.96)	126 (4.96)
Oct	59 (2.32)	33 (1.30)	60 (2.36)	62 (2.44)	41 (1.61)	64 (2.52)	64 (2.52)	47 (1.85)	56 (2.20)	67 (2.64)	56 (2.20)	67 (2.64)	67 (2.64)	56 (2.20)	60 (2.36)	69 (2.72)	60 (2.36)	60 (2.36)
Nov	13 (0.51)	1 (0.04)	14 (0.55)	14 (0.55)	1 (0.04)	15 (0.59)	15 (0.59)	1 (0.04)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	16 (0.63)	1 (0.04)	5 (0.20)	17 (0.67)	5 (0.20)	5 (0.20)
Season	1046 (41.17)	846 (33.31)	1065 (41.92)	1081 (42.55)	927 (36.50)	975 (38.38)	1102 (43.39)	975 (38.38)	1032 (40.62)	1139 (44.84)	1032 (40.62)	1139 (44.84)	1139 (44.84)	1032 (40.62)	1073 (42.25)	1173 (46.19)	1073 (42.25)	1073 (42.25)

REGION: 13 Pendleton-Heppner  
CROP: Corn (Field)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
May	59 (2.32)	36 (1.42)	59 (2.32)	40 (1.57)	60 (2.36)	45 (1.77)	61 (2.40)	49 (1.93)	62 (2.44)	54 (2.13)	63 (2.48)	57 (2.24)	128 (5.04)	98 (3.56)	129 (5.08)	103 (4.06)	131 (5.16)	110 (4.33)	133 (5.24)	118 (4.65)	137 (5.39)	124 (4.88)	139 (5.47)	128 (5.04)
June	198 (7.80)	192 (7.56)	200 (7.87)	196 (7.72)	203 (7.99)	198 (7.80)	207 (8.15)	201 (7.91)	210 (8.27)	206 (8.11)	213 (8.39)	210 (8.27)	170 (6.69)	158 (6.22)	172 (6.77)	163 (6.42)	174 (6.85)	168 (6.61)	176 (6.93)	173 (6.81)	181 (7.13)	179 (7.05)	190 (7.48)	182 (7.17)
Aug	85 (3.35)	66 (2.60)	87 (3.43)	71 (2.80)	89 (3.50)	76 (2.99)	90 (3.54)	82 (3.23)	92 (3.62)	88 (3.46)	95 (3.74)	91 (3.58)	Season 640 (25.20)	550 (21.66)	647 (25.47)	573 (22.57)	657 (25.86)	597 (23.50)	667 (26.26)	623 (24.53)	682 (26.85)	651 (25.63)	700 (27.56)	668 (26.30)

REGION: 13 Pendleton-Heppner  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
May	35 (1.38)	22 (0.87)	35 (1.38)	24 (0.94)	35 (1.38)	26 (1.02)	36 (1.42)	28 (1.10)	36 (1.42)	32 (1.26)	37 (1.46)	34 (1.34)	125 (4.92)	95 (3.74)	127 (5.00)	100 (3.94)	129 (5.08)	107 (4.21)	131 (5.16)	115 (4.53)	135 (5.31)	122 (4.80)	137 (5.39)	126 (4.96)
June	202 (7.95)	196 (7.72)	204 (8.03)	199 (7.83)	207 (8.15)	202 (7.95)	211 (8.31)	205 (8.07)	214 (8.43)	210 (8.27)	216 (8.50)	213 (8.39)	107 (4.21)	102 (4.02)	109 (4.29)	104 (4.09)	110 (4.33)	107 (4.21)	111 (4.37)	109 (4.29)	115 (4.53)	114 (4.49)	120 (4.72)	116 (4.57)
Aug	Season 469 (18.46)	415 (16.35)	475 (18.70)	427 (16.80)	481 (18.94)	442 (17.39)	489 (19.26)	457 (17.99)	500 (19.69)	478 (18.82)	510 (20.07)	489 (19.26)												

REGION: 13 Pendleton-Heppner  
CROP: Grain (Spring)

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
April	57 (2.24)	31 (1.22)	58 (2.28)	34 (1.34)	59 (2.32)	39 (1.54)	60 (2.36)	43 (1.69)	62 (2.44)	48 (1.89)	64 (2.52)	51 (2.01)
May	136 (5.35)	104 (4.09)	139 (5.47)	110 (4.33)	142 (5.59)	116 (4.57)	144 (5.67)	122 (4.80)	150 (5.91)	130 (5.12)	153 (6.02)	139 (5.47)
June	174 (6.85)	137 (5.39)	176 (6.93)	144 (5.67)	177 (6.97)	153 (6.02)	179 (7.05)	162 (6.38)	185 (7.28)	170 (6.69)	187 (7.36)	175 (6.89)
July	180 (7.09)	174 (6.85)	182 (7.17)	177 (6.97)	184 (7.24)	179 (7.05)	188 (7.40)	182 (7.17)	191 (7.52)	187 (7.36)	193 (7.60)	190 (7.48)
Aug	33 (1.30)	31 (1.22)	34 (1.34)	32 (1.26)	34 (1.34)	33 (1.30)	35 (1.38)	34 (1.34)	36 (1.42)	35 (1.38)	37 (1.46)	37 (1.46)
Season	580 (22.83)	477 (18.77)	589 (23.19)	497 (19.57)	596 (23.46)	520 (20.48)	606 (23.86)	543 (21.38)	624 (24.57)	570 (22.44)	634 (24.96)	592 (23.31)

REGION: 13 Pendleton-Heppner  
CROP: Grain (Winter)

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
March	29 (1.14)	6 (0.24)	29 (1.14)	10 (0.39)	31 (1.22)	13 (0.51)	33 (1.30)	17 (0.67)	34 (1.34)	21 (0.83)	36 (1.42)	26 (1.02)
April	93 (3.66)	65 (2.56)	94 (3.70)	70 (2.76)	96 (3.78)	76 (2.99)	99 (3.90)	81 (3.19)	105 (4.13)	86 (3.39)	108 (4.25)	90 (3.54)
May	145 (5.71)	111 (4.37)	148 (5.83)	118 (4.65)	151 (5.94)	125 (4.92)	153 (6.02)	131 (5.16)	160 (6.30)	139 (5.47)	162 (6.38)	148 (5.83)
June	168 (6.61)	131 (5.16)	170 (6.69)	138 (5.43)	171 (6.73)	147 (5.79)	173 (6.81)	158 (6.22)	179 (7.05)	165 (6.50)	181 (7.13)	170 (6.69)
July	98 (3.86)	94 (3.70)	99 (3.90)	96 (3.78)	100 (3.94)	98 (3.86)	102 (4.02)	100 (3.94)	104 (4.09)	102 (4.02)	105 (4.13)	104 (4.09)
Season	533 (20.98)	407 (16.03)	540 (21.26)	432 (17.01)	549 (21.61)	459 (18.07)	560 (22.05)	487 (19.18)	582 (22.91)	513 (20.21)	592 (23.31)	538 (21.17)

REGION: 13 Pendleton-Heppler  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
March	5 (0.20)	3 (0.12)	3 (0.12)	6 (0.24)	4 (0.16)	4 (0.16)	6 (0.24)	5 (0.20)	5 (0.20)	7 (0.28)	5 (0.20)	5 (0.20)	7 (0.28)	5 (0.20)	7 (0.28)	7 (0.28)	6 (0.24)	6 (0.24)
April	52 (2.05)	30 (1.18)	32 (1.26)	53 (2.09)	36 (1.42)	36 (1.42)	54 (2.13)	40 (1.57)	40 (1.57)	56 (2.20)	45 (1.77)	45 (1.77)	58 (2.28)	48 (1.89)	48 (1.89)	58 (2.28)	48 (1.89)	48 (1.89)
May	86 (3.39)	61 (2.40)	65 (2.56)	89 (3.50)	69 (2.72)	69 (2.72)	90 (3.54)	75 (2.95)	75 (2.95)	92 (3.62)	81 (3.19)	81 (3.19)	94 (3.70)	85 (3.35)	85 (3.35)	94 (3.70)	85 (3.35)	85 (3.35)
June	131 (5.16)	102 (4.02)	109 (4.29)	135 (5.31)	117 (4.61)	117 (4.61)	137 (5.39)	124 (4.88)	124 (4.88)	142 (5.59)	129 (5.08)	129 (5.08)	145 (5.71)	132 (5.20)	132 (5.20)	145 (5.71)	132 (5.20)	132 (5.20)
July	181 (7.13)	176 (6.93)	183 (7.20)	185 (7.28)	182 (7.17)	182 (7.17)	189 (7.44)	184 (7.24)	184 (7.24)	192 (7.56)	188 (7.40)	188 (7.40)	194 (7.64)	191 (7.52)	191 (7.52)	194 (7.64)	191 (7.52)	191 (7.52)
Aug	155 (6.10)	146 (5.75)	157 (6.18)	159 (6.26)	154 (6.06)	154 (6.06)	160 (6.30)	158 (6.22)	158 (6.22)	166 (6.54)	164 (6.46)	164 (6.46)	173 (6.81)	167 (6.57)	167 (6.57)	173 (6.81)	167 (6.57)	167 (6.57)
Sep	67 (2.64)	57 (2.24)	70 (2.76)	71 (2.80)	63 (2.48)	63 (2.48)	72 (2.83)	66 (2.60)	66 (2.60)	74 (2.91)	71 (2.80)	71 (2.80)	76 (2.99)	72 (2.83)	72 (2.83)	76 (2.99)	72 (2.83)	72 (2.83)
Season	677 (26.67)	575 (22.64)	689 (27.14)	599 (23.59)	698 (27.48)	625 (24.62)	708 (27.87)	652 (25.66)	652 (25.66)	729 (28.70)	683 (26.90)	683 (26.90)	747 (29.41)	701 (27.60)	701 (27.60)	747 (29.41)	701 (27.60)	701 (27.60)

REGION: 13 Pendleton-Heppler  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.
March	19 (0.75)	9 (0.35)	11 (0.43)	19 (0.75)	11 (0.43)	11 (0.43)	20 (0.79)	13 (0.51)	13 (0.51)	21 (0.83)	14 (0.55)	14 (0.55)	22 (0.87)	18 (0.71)	18 (0.71)	25 (0.98)	20 (0.79)	20 (0.79)
April	89 (3.50)	59 (2.32)	64 (2.52)	91 (3.58)	64 (2.52)	64 (2.52)	93 (3.66)	70 (2.76)	70 (2.76)	94 (3.70)	75 (2.95)	75 (2.95)	98 (3.86)	80 (3.15)	80 (3.15)	102 (4.02)	84 (3.31)	84 (3.31)
May	128 (5.04)	96 (3.78)	102 (4.02)	129 (5.08)	102 (4.02)	102 (4.02)	131 (5.16)	108 (4.25)	108 (4.25)	135 (5.31)	114 (4.49)	114 (4.49)	138 (5.43)	123 (4.84)	123 (4.84)	140 (5.51)	130 (5.12)	130 (5.12)
June	153 (6.02)	119 (4.69)	125 (4.92)	155 (6.10)	125 (4.92)	125 (4.92)	156 (6.14)	132 (5.20)	132 (5.20)	157 (6.18)	142 (5.59)	142 (5.59)	163 (6.42)	149 (5.87)	149 (5.87)	165 (6.50)	154 (6.06)	154 (6.06)
July	176 (6.93)	171 (6.73)	177 (6.97)	177 (6.97)	174 (6.85)	174 (6.85)	180 (7.09)	177 (6.97)	177 (6.97)	183 (7.20)	180 (7.09)	180 (7.09)	186 (7.32)	184 (7.24)	184 (7.24)	189 (7.44)	187 (7.36)	187 (7.36)
Aug	148 (5.83)	139 (5.47)	150 (5.91)	150 (5.91)	142 (5.59)	142 (5.59)	151 (5.94)	146 (5.75)	146 (5.75)	153 (6.02)	150 (5.91)	150 (5.91)	158 (6.22)	156 (6.14)	156 (6.14)	165 (6.50)	161 (6.34)	161 (6.34)
Sep	100 (3.94)	82 (3.23)	103 (4.06)	103 (4.06)	87 (3.43)	87 (3.43)	104 (4.09)	92 (3.62)	92 (3.62)	106 (4.17)	97 (3.82)	97 (3.82)	109 (4.29)	104 (4.09)	104 (4.09)	112 (4.41)	106 (4.17)	106 (4.17)
Oct	62 (2.44)	36 (1.42)	40 (1.57)	63 (2.48)	40 (1.57)	40 (1.57)	65 (2.56)	44 (1.73)	44 (1.73)	67 (2.64)	50 (1.97)	50 (1.97)	70 (2.76)	59 (2.32)	59 (2.32)	73 (2.87)	64 (2.52)	64 (2.52)
Season	875 (34.45)	711 (27.99)	887 (34.93)	745 (29.33)	900 (35.43)	782 (30.79)	916 (36.05)	822 (32.37)	822 (32.37)	944 (37.17)	873 (34.36)	873 (34.36)	971 (38.23)	906 (35.67)	906 (35.67)	971 (38.23)	906 (35.67)	906 (35.67)



REGION: 13 Pendleton-Heppler  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	41 (1.61)	13 (0.51)	42 (1.65)	17 (0.67)	43 (1.69)	21 (0.83)	47 (1.85)	26 (1.02)	48 (1.89)	31 (1.22)	53 (2.09)	38 (1.50)	53 (2.09)	38 (1.50)	53 (2.09)	38 (1.50)		
April	82 (3.23)	53 (2.09)	84 (3.31)	58 (2.28)	85 (3.35)	63 (2.48)	87 (3.43)	68 (2.68)	91 (3.58)	73 (2.87)	94 (3.70)	77 (3.03)	94 (3.70)	77 (3.03)	94 (3.70)	77 (3.03)		
May	130 (5.12)	97 (3.82)	132 (5.20)	103 (4.06)	134 (5.28)	109 (4.29)	136 (5.35)	115 (4.53)	142 (5.59)	123 (4.84)	145 (5.71)	131 (5.16)	145 (5.71)	131 (5.16)	145 (5.71)	131 (5.16)		
June	172 (6.77)	135 (5.31)	173 (6.81)	142 (5.59)	175 (6.89)	151 (5.94)	176 (6.93)	161 (6.34)	183 (7.20)	168 (6.61)	185 (7.28)	172 (6.77)	185 (7.28)	172 (6.77)	185 (7.28)	172 (6.77)		
July	201 (7.91)	195 (7.68)	203 (7.99)	198 (7.80)	206 (8.11)	201 (7.91)	210 (8.27)	204 (8.03)	213 (8.39)	209 (8.23)	215 (8.46)	212 (8.35)	215 (8.46)	212 (8.35)	215 (8.46)	212 (8.35)		
Aug	169 (6.65)	157 (6.18)	171 (6.73)	162 (6.38)	173 (6.81)	167 (6.57)	175 (6.89)	172 (6.77)	180 (7.09)	178 (7.01)	189 (7.44)	181 (7.13)	189 (7.44)	181 (7.13)	189 (7.44)	181 (7.13)		
Sep	107 (4.21)	88 (3.46)	111 (4.37)	93 (3.56)	112 (4.41)	98 (3.86)	114 (4.49)	106 (4.17)	117 (4.61)	113 (4.45)	121 (4.76)	115 (4.53)	121 (4.76)	115 (4.53)	121 (4.76)	115 (4.53)		
Oct	56 (2.20)	29 (1.14)	57 (2.24)	33 (1.30)	57 (2.24)	37 (1.46)	58 (2.28)	44 (1.73)	61 (2.40)	52 (2.05)	65 (2.56)	57 (2.24)	65 (2.56)	57 (2.24)	65 (2.56)	57 (2.24)		
Nov	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	5 (0.20)	17 (0.67)	5 (0.20)	17 (0.67)	5 (0.20)		
Season	971 (38.21)	768 (30.23)	987 (38.85)	807 (31.78)	999 (39.33)	848 (33.38)	1018 (40.08)	897 (35.31)	1051 (41.38)	948 (37.32)	1084 (42.67)	988 (38.91)	1084 (42.67)	988 (38.91)	1084 (42.67)	988 (38.91)		

REGION: 13 Pendleton-Heppler  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	16 (0.63)	3 (0.12)	16 (0.63)	5 (0.20)	17 (0.67)	6 (0.24)	18 (0.71)	9 (0.35)	19 (0.75)	12 (0.47)	19 (0.75)	14 (0.55)	19 (0.75)	14 (0.55)	19 (0.75)	14 (0.55)		
April	67 (2.64)	40 (1.57)	68 (2.68)	44 (1.73)	69 (2.72)	48 (1.89)	71 (2.80)	52 (2.05)	73 (2.87)	58 (2.28)	75 (2.95)	63 (2.48)	75 (2.95)	63 (2.48)	75 (2.95)	63 (2.48)		
May	142 (5.59)	109 (4.29)	143 (5.63)	116 (4.57)	145 (5.71)	122 (4.80)	149 (5.87)	128 (5.04)	156 (6.14)	137 (5.39)	159 (6.26)	144 (5.67)	159 (6.26)	144 (5.67)	159 (6.26)	144 (5.67)		
June	174 (6.85)	136 (5.35)	175 (6.89)	143 (5.63)	177 (6.97)	152 (5.98)	178 (7.01)	162 (6.38)	185 (7.28)	170 (6.69)	187 (7.36)	174 (6.85)	187 (7.36)	174 (6.85)	187 (7.36)	174 (6.85)		
July	123 (4.84)	120 (4.72)	124 (4.88)	122 (4.80)	126 (4.96)	123 (4.84)	128 (5.04)	125 (4.92)	130 (5.12)	128 (5.04)	132 (5.20)	130 (5.12)	132 (5.20)	130 (5.12)	132 (5.20)	130 (5.12)		
Season	522 (20.55)	408 (16.05)	526 (20.71)	430 (16.93)	534 (21.03)	451 (17.75)	544 (21.43)	476 (18.74)	563 (22.16)	505 (19.87)	572 (22.52)	525 (20.67)	572 (22.52)	525 (20.67)	572 (22.52)	525 (20.67)		

REGION: 13 Pendleton-Heppler  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm
March	41 (1.61)	13 (0.51)	17 (0.67)	42 (1.65)	17 (0.67)	21 (0.83)	43 (1.69)	21 (0.83)	26 (1.85)	47 (1.85)	26 (1.02)	48 (1.89)	31 (1.22)	53 (2.09)	38 (1.50)	53 (2.09)	31 (1.22)	53 (2.09)
April	82 (3.23)	53 (2.09)	58 (2.28)	84 (3.31)	58 (2.28)	63 (2.48)	85 (3.35)	63 (2.48)	68 (3.43)	87 (3.43)	68 (2.68)	91 (3.58)	73 (2.87)	94 (3.70)	77 (3.03)	94 (3.70)	73 (2.87)	94 (3.70)
May	130 (5.12)	97 (3.82)	103 (4.06)	132 (5.20)	103 (4.06)	109 (4.29)	134 (5.28)	109 (4.29)	115 (5.35)	136 (5.35)	115 (4.53)	142 (5.59)	123 (4.84)	145 (5.71)	131 (5.16)	145 (5.71)	123 (4.84)	145 (5.71)
June	172 (6.77)	135 (5.31)	142 (5.59)	173 (6.81)	142 (5.59)	151 (5.94)	175 (6.89)	151 (5.94)	161 (6.34)	176 (6.93)	161 (6.34)	183 (7.20)	168 (6.61)	185 (7.28)	172 (6.77)	185 (7.28)	168 (6.61)	185 (7.28)
July	201 (7.91)	195 (7.68)	198 (7.80)	203 (7.99)	198 (7.80)	201 (7.91)	206 (8.11)	201 (7.91)	204 (8.03)	210 (8.27)	204 (8.03)	213 (8.59)	209 (8.23)	215 (8.46)	212 (8.35)	215 (8.46)	209 (8.23)	215 (8.46)
Aug	169 (6.65)	157 (6.18)	162 (6.38)	171 (6.73)	162 (6.38)	167 (6.57)	173 (6.81)	167 (6.57)	175 (6.89)	175 (6.89)	172 (6.77)	180 (7.09)	178 (7.01)	189 (7.44)	181 (7.13)	189 (7.44)	178 (7.01)	189 (7.44)
Sep	107 (4.21)	88 (3.46)	93 (3.56)	111 (4.37)	93 (3.56)	98 (3.86)	112 (4.41)	98 (3.86)	106 (4.17)	114 (4.49)	106 (4.17)	117 (4.61)	113 (4.45)	121 (4.76)	115 (4.53)	121 (4.76)	113 (4.45)	121 (4.76)
Oct	56 (2.20)	29 (1.14)	33 (1.30)	57 (2.24)	33 (1.30)	37 (1.46)	58 (2.28)	37 (1.46)	44 (1.73)	58 (2.28)	44 (1.73)	61 (2.40)	52 (2.05)	65 (2.56)	57 (2.24)	65 (2.56)	52 (2.05)	65 (2.56)
Nov	13 (0.51)	1 (0.04)	1 (0.04)	14 (0.55)	1 (0.04)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	5 (0.20)	17 (0.67)	1 (0.04)	17 (0.67)
Season	971 (38.21)	768 (30.23)	987 (38.85)	807 (31.78)	999 (39.33)	848 (33.38)	1018 (40.08)	897 (35.31)	1051 (41.38)	948 (37.32)	1084 (42.67)	988 (38.91)	988 (38.91)	988 (38.91)	988 (38.91)	988 (38.91)	988 (38.91)	988 (38.91)

REGION: 14 Hermiston  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm	ET crop mm	Net IRR in.	Net mm
April	66 (2.60)	56 (2.20)	59 (2.32)	67 (2.64)	59 (2.32)	62 (2.44)	68 (2.68)	62 (2.44)	68 (2.76)	70 (2.76)	68 (2.68)	74 (2.91)	70 (2.76)	75 (2.95)	71 (2.80)	75 (2.95)	70 (2.76)	75 (2.95)
May	136 (5.35)	122 (4.80)	126 (4.96)	139 (5.47)	126 (4.96)	144 (5.67)	144 (5.67)	130 (5.12)	147 (5.79)	137 (5.39)	150 (5.39)	150 (5.91)	143 (5.63)	151 (5.94)	146 (5.75)	151 (5.94)	143 (5.63)	151 (5.94)
June	157 (6.18)	142 (5.59)	146 (5.75)	159 (6.26)	146 (5.75)	161 (6.34)	161 (6.34)	150 (5.91)	163 (6.42)	156 (6.14)	167 (6.57)	167 (7.48)	165 (6.50)	171 (6.73)	170 (6.69)	171 (6.73)	165 (6.50)	171 (6.73)
July	178 (7.01)	176 (6.93)	180 (7.05)	180 (7.09)	179 (7.05)	181 (7.13)	181 (7.13)	181 (7.13)	184 (7.24)	183 (7.20)	190 (7.48)	187 (7.36)	192 (7.56)	192 (7.56)	190 (7.48)	192 (7.56)	187 (7.36)	192 (7.56)
Aug	151 (5.94)	148 (5.83)	150 (5.91)	152 (5.98)	150 (5.91)	158 (6.22)	158 (6.22)	153 (6.02)	162 (6.58)	159 (6.26)	166 (6.54)	165 (6.50)	171 (6.73)	171 (6.73)	168 (6.61)	171 (6.73)	165 (6.50)	171 (6.73)
Sep	102 (4.02)	95 (3.74)	98 (3.86)	105 (4.13)	98 (3.86)	100 (3.94)	106 (4.17)	100 (3.94)	108 (4.25)	103 (4.06)	112 (4.41)	108 (4.25)	113 (4.45)	113 (4.45)	111 (4.37)	113 (4.45)	108 (4.25)	113 (4.45)
Season	790 (31.10)	739 (29.09)	802 (31.57)	758 (29.85)	818 (32.21)	776 (30.56)	834 (32.84)	806 (31.73)	859 (33.82)	838 (33.00)	873 (34.36)	856 (33.70)	856 (33.70)	856 (33.70)	856 (33.70)	856 (33.70)	856 (33.70)	856 (33.70)

REGION: 14 Hermiston  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	46 (1.81)	32 (1.26)	47 (1.85)	34 (1.34)	49 (1.93)	36 (1.42)	51 (2.01)	38 (1.50)	53 (2.09)	42 (1.65)	56 (2.20)	45 (1.77)	110 (4.33)	105 (4.13)	179 (7.05)	174 (6.85)		
April	98 (3.86)	81 (3.19)	100 (3.94)	87 (3.43)	101 (3.98)	91 (3.58)	103 (4.06)	98 (3.86)	109 (4.29)	103 (4.06)	110 (4.33)	105 (4.13)	179 (7.05)	174 (6.85)	225 (8.86)	223 (8.78)		
May	161 (6.34)	148 (5.83)	165 (6.50)	152 (5.98)	171 (6.73)	157 (6.18)	174 (6.85)	164 (6.46)	177 (6.97)	171 (6.73)	225 (8.86)	223 (8.78)	255 (10.04)	253 (9.96)	226 (8.90)	222 (8.74)		
June	204 (8.03)	190 (7.48)	206 (8.11)	193 (7.60)	210 (8.27)	198 (7.80)	214 (8.43)	202 (7.95)	219 (8.62)	210 (8.27)	225 (8.86)	223 (8.78)	255 (10.04)	253 (9.96)	226 (8.90)	222 (8.74)		
July	236 (9.29)	233 (9.17)	238 (9.37)	237 (9.33)	241 (9.49)	241 (9.49)	245 (9.65)	244 (9.61)	253 (9.96)	249 (9.80)	255 (10.04)	253 (9.96)	226 (8.90)	222 (8.74)	142 (5.59)	140 (5.51)		
Aug	200 (7.87)	195 (7.68)	202 (7.95)	198 (7.80)	209 (8.23)	205 (8.07)	215 (8.46)	211 (8.31)	219 (8.62)	219 (8.62)	142 (5.59)	140 (5.51)	68 (2.68)	62 (2.44)	18 (0.71)	10 (0.39)		
Sep	131 (5.16)	121 (4.76)	132 (5.20)	125 (4.92)	134 (5.28)	128 (5.04)	136 (5.35)	131 (5.16)	141 (5.55)	137 (5.39)	68 (2.68)	62 (2.44)	18 (0.71)	10 (0.39)	557 (21.93)	544 (21.42)		
Oct	61 (2.40)	47 (1.85)	62 (2.44)	49 (1.93)	63 (2.48)	52 (2.05)	63 (2.48)	55 (2.17)	65 (2.56)	60 (2.36)	18 (0.71)	10 (0.39)	1279 (50.36)	1234 (48.57)				
Nov	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)								
Season	1152 (45.35)	1048 (41.26)	1167 (45.95)	1076 (42.37)	1194 (47.02)	1109 (43.67)	1217 (47.92)	1144 (45.06)	1253 (49.33)	1194 (47.00)	1279 (50.36)	1234 (48.57)						

REGION: 14 Hermiston  
CROP: Berries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	39 (1.54)	33 (1.30)	40 (1.57)	35 (1.38)	40 (1.57)	37 (1.46)	41 (1.61)	38 (1.50)	41 (1.61)	40 (1.57)	41 (1.61)	40 (1.57)	104 (4.09)	101 (3.98)	141 (5.55)	139 (5.47)		
June	94 (3.70)	81 (3.19)	96 (3.78)	86 (3.39)	97 (3.82)	90 (3.54)	98 (3.86)	93 (3.66)	101 (3.98)	97 (3.82)	104 (4.09)	101 (3.98)	141 (5.55)	139 (5.47)	179 (7.05)	174 (6.85)		
July	131 (5.16)	128 (5.04)	132 (5.20)	130 (5.12)	133 (5.24)	132 (5.20)	135 (5.31)	134 (5.28)	138 (5.43)	138 (5.43)	141 (5.55)	139 (5.47)	225 (8.86)	223 (8.78)	255 (10.04)	253 (9.96)		
Aug	115 (4.53)	113 (4.45)	117 (4.61)	115 (4.53)	121 (4.76)	118 (4.65)	125 (4.92)	122 (4.80)	127 (5.00)	126 (4.96)	131 (5.16)	128 (5.04)	226 (8.90)	222 (8.74)	142 (5.59)	140 (5.51)		
Sep	80 (3.15)	71 (2.80)	80 (3.15)	74 (2.91)	81 (3.19)	77 (3.03)	83 (3.27)	80 (3.15)	86 (3.39)	84 (3.31)	86 (3.39)	85 (3.35)	51 (2.01)	48 (1.89)				
Oct	47 (1.85)	31 (1.22)	47 (1.85)	33 (1.30)	48 (1.89)	37 (1.46)	49 (1.93)	40 (1.57)	50 (1.97)	45 (1.77)	51 (2.01)	48 (1.89)						
Nov	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	1 (0.04)	3 (0.12)	2 (0.08)	3 (0.12)	3 (0.12)						
Season	509 (20.05)	457 (18.00)	515 (20.28)	473 (18.63)	523 (20.59)	491 (19.34)	534 (21.02)	508 (20.00)	546 (21.50)	532 (20.94)	557 (21.93)	544 (21.42)						

REGION: 14 Hermiston  
CROP: Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	
March	46 (1.81)	32 (1.26)	34 (1.85)	47 (1.85)	34 (1.34)	36 (1.93)	49 (1.93)	36 (1.42)	38 (1.50)	51 (2.01)	38 (1.50)	53 (2.09)	42 (1.65)	56 (2.20)	45 (1.77)	56 (2.20)	45 (1.77)	56 (2.20)	45 (1.77)
April	98 (3.86)	81 (3.19)	100 (3.94)	100 (3.94)	87 (3.43)	101 (3.98)	101 (3.98)	91 (3.58)	98 (3.86)	103 (4.06)	98 (3.86)	109 (4.29)	103 (4.06)	110 (4.33)	105 (4.13)	110 (4.33)	105 (4.13)	110 (4.33)	105 (4.13)
May	161 (6.34)	148 (5.83)	165 (6.50)	165 (6.50)	152 (5.98)	171 (6.73)	171 (6.73)	157 (6.18)	164 (6.46)	174 (6.85)	164 (6.46)	177 (6.97)	171 (6.73)	179 (7.05)	174 (6.85)	179 (7.05)	174 (6.85)	179 (7.05)	174 (6.85)
June	204 (8.03)	190 (7.48)	206 (8.11)	206 (8.11)	193 (7.60)	210 (8.27)	210 (8.27)	198 (7.80)	202 (7.95)	214 (8.43)	202 (7.95)	219 (8.62)	210 (8.27)	225 (8.86)	223 (8.78)	225 (8.86)	223 (8.78)	225 (8.86)	223 (8.78)
July	236 (9.29)	233 (9.17)	238 (9.37)	238 (9.37)	237 (9.33)	241 (9.49)	241 (9.49)	241 (9.49)	244 (9.61)	245 (9.65)	244 (9.61)	253 (9.96)	249 (9.80)	255 (10.04)	253 (9.96)	255 (10.04)	253 (9.96)	255 (10.04)	253 (9.96)
Aug	200 (7.87)	195 (7.68)	202 (7.95)	202 (7.95)	198 (7.80)	209 (8.23)	209 (8.23)	205 (8.07)	211 (8.31)	215 (8.46)	211 (8.31)	219 (8.62)	219 (8.62)	226 (8.90)	222 (8.74)	226 (8.90)	222 (8.74)	226 (8.90)	222 (8.74)
Sep	131 (5.16)	121 (4.76)	132 (5.20)	132 (5.20)	125 (4.92)	134 (5.28)	134 (5.28)	128 (5.04)	131 (5.16)	136 (5.35)	131 (5.16)	141 (5.55)	137 (5.39)	142 (5.59)	140 (5.51)	142 (5.59)	140 (5.51)	142 (5.59)	140 (5.51)
Oct	61 (2.40)	47 (1.85)	62 (2.44)	62 (2.44)	49 (1.93)	63 (2.48)	63 (2.48)	52 (2.05)	55 (2.17)	63 (2.48)	55 (2.17)	65 (2.56)	60 (2.36)	68 (2.68)	62 (2.44)	68 (2.68)	62 (2.44)	68 (2.68)	62 (2.44)
Nov	15 (0.59)	1 (0.04)	15 (0.59)	15 (0.59)	1 (0.04)	16 (0.63)	16 (0.63)	1 (0.04)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)	18 (0.71)	10 (0.39)	18 (0.71)	10 (0.39)
Season	1152 (45.35)	1048 (41.26)	1167 (45.95)	1167 (45.95)	1076 (42.37)	1194 (47.02)	1194 (47.02)	1109 (43.67)	1144 (45.06)	1217 (47.92)	1144 (45.06)	1253 (49.33)	1194 (47.00)	1279 (50.36)	1234 (48.57)	1279 (50.36)	1234 (48.57)	1279 (50.36)	1234 (48.57)

REGION: 14 Hermiston  
CROP: Corn (Field)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	Net IRR mm in.	
May	63 (2.48)	54 (2.13)	64 (2.52)	64 (2.52)	56 (2.20)	65 (2.56)	65 (2.56)	59 (2.32)	62 (2.44)	66 (2.60)	62 (2.44)	67 (2.64)	65 (2.56)	67 (2.64)	66 (2.60)	67 (2.64)	66 (2.60)	67 (2.64)	66 (2.60)
June	138 (5.43)	124 (4.88)	140 (5.51)	140 (5.51)	129 (5.08)	142 (5.59)	142 (5.59)	132 (5.20)	137 (5.39)	143 (5.63)	137 (5.39)	146 (5.75)	144 (5.67)	152 (5.98)	148 (5.83)	152 (5.98)	148 (5.83)	152 (5.98)	148 (5.83)
July	215 (8.46)	211 (8.31)	217 (8.54)	217 (8.54)	214 (8.43)	218 (8.58)	218 (8.58)	217 (8.54)	221 (8.70)	222 (8.74)	221 (8.70)	226 (8.90)	225 (8.86)	228 (8.98)	228 (8.98)	228 (8.98)	228 (8.98)	228 (8.98)	228 (8.98)
Aug	185 (7.28)	180 (7.09)	186 (7.32)	186 (7.32)	183 (7.20)	193 (7.60)	193 (7.60)	187 (7.36)	194 (7.64)	199 (7.83)	194 (7.64)	203 (7.99)	203 (7.99)	210 (8.27)	206 (8.11)	210 (8.27)	206 (8.11)	210 (8.27)	206 (8.11)
Sep	94 (3.70)	85 (3.35)	95 (3.74)	95 (3.74)	88 (3.46)	96 (3.78)	96 (3.78)	91 (3.58)	95 (3.74)	98 (3.86)	95 (3.74)	101 (3.98)	99 (3.90)	102 (4.02)	101 (3.98)	102 (4.02)	101 (3.98)	102 (4.02)	101 (3.98)
Season	695 (27.35)	654 (25.76)	702 (27.63)	702 (27.63)	670 (26.37)	714 (28.11)	714 (28.11)	686 (27.00)	709 (27.91)	728 (28.66)	709 (27.91)	743 (29.26)	736 (28.98)	759 (29.89)	749 (29.50)	759 (29.89)	749 (29.50)	759 (29.89)	749 (29.50)

REGION: 14 Hermiston CROP: Corn (Sweet)		5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
MONTH	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.
May	37 ( 1.46)	32 ( 1.26)	38 ( 1.50)	34 ( 1.34)	38 ( 1.50)	35 ( 1.38)	38 ( 1.50)	37 ( 1.46)	39 ( 1.54)	38 ( 1.50)	39 ( 1.54)	38 ( 1.50)	39 ( 1.54)
June	136 ( 5.35)	122 ( 4.80)	137 ( 5.39)	126 ( 4.96)	139 ( 5.47)	130 ( 5.12)	140 ( 5.51)	135 ( 5.31)	143 ( 5.63)	141 ( 5.55)	149 ( 5.87)	145 ( 5.71)	149 ( 5.87)
July	218 ( 8.58)	215 ( 8.46)	220 ( 8.66)	219 ( 8.62)	222 ( 8.74)	222 ( 8.74)	226 ( 8.90)	225 ( 8.86)	230 ( 9.06)	230 ( 9.06)	232 ( 9.13)	232 ( 9.13)	232 ( 9.13)
Aug	116 ( 4.57)	115 ( 4.53)	118 ( 4.65)	117 ( 4.61)	122 ( 4.80)	119 ( 4.69)	127 ( 5.00)	122 ( 4.80)	128 ( 5.04)	128 ( 5.04)	132 ( 5.20)	131 ( 5.16)	132 ( 5.20)
Season	507 ( 19.96)	484 ( 19.05)	513 ( 20.20)	496 ( 19.53)	521 ( 20.51)	506 ( 19.93)	531 ( 20.91)	519 ( 20.43)	540 ( 21.27)	537 ( 21.15)	552 ( 21.74)	546 ( 21.50)	552 ( 21.74)

REGION: 14 Hermiston CROP: Grain (Spring)		5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
MONTH	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.
March	18 ( 0.71)	12 ( 0.47)	18 ( 0.71)	13 ( 0.51)	19 ( 0.75)	14 ( 0.55)	20 ( 0.79)	15 ( 0.59)	21 ( 0.83)	16 ( 0.63)	21 ( 0.83)	17 ( 0.67)	21 ( 0.83)
April	74 ( 2.91)	58 ( 2.28)	76 ( 2.99)	65 ( 2.56)	77 ( 3.03)	69 ( 2.72)	78 ( 3.07)	73 ( 2.87)	81 ( 3.19)	77 ( 3.03)	84 ( 3.31)	79 ( 3.11)	84 ( 3.31)
May	148 ( 5.83)	134 ( 5.28)	152 ( 5.98)	139 ( 5.47)	157 ( 6.18)	144 ( 5.67)	160 ( 6.30)	150 ( 5.91)	163 ( 6.42)	157 ( 6.18)	164 ( 6.46)	160 ( 6.50)	164 ( 6.46)
June	190 ( 7.48)	176 ( 6.93)	192 ( 7.56)	180 ( 7.09)	195 ( 7.68)	184 ( 7.24)	199 ( 7.83)	188 ( 7.40)	204 ( 8.03)	203 ( 7.99)	209 ( 8.23)	208 ( 8.19)	209 ( 8.23)
July	195 ( 7.68)	194 ( 7.64)	196 ( 7.72)	196 ( 7.72)	198 ( 7.80)	198 ( 7.80)	202 ( 7.95)	200 ( 7.87)	208 ( 8.19)	204 ( 8.03)	210 ( 8.27)	208 ( 8.19)	210 ( 8.27)
Aug	36 ( 1.42)	35 ( 1.38)	37 ( 1.46)	36 ( 1.42)	38 ( 1.50)	36 ( 1.42)	39 ( 1.54)	38 ( 1.50)	40 ( 1.57)	39 ( 1.54)	41 ( 1.61)	40 ( 1.57)	41 ( 1.61)
Season	661 ( 26.03)	609 ( 23.98)	671 ( 26.42)	629 ( 24.77)	684 ( 26.94)	645 ( 25.40)	698 ( 27.48)	664 ( 26.14)	717 ( 28.23)	696 ( 27.40)	729 ( 28.71)	712 ( 28.03)	729 ( 28.71)

REGION: 14 Hermiston  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	33 (1.30)	21 (0.83)	34 (1.34)	22 (0.87)	34 (1.34)	24 (0.94)	36 (1.42)	26 (1.02)	37 (1.46)	30 (1.18)	39 (1.54)	31 (1.22)	121 (4.76)	115 (4.53)	182 (7.17)	177 (6.97)		
April	107 (4.21)	90 (3.54)	109 (4.29)	96 (3.78)	111 (4.37)	101 (3.98)	113 (4.45)	106 (4.17)	117 (4.61)	112 (4.41)	121 (4.76)	115 (4.53)	182 (7.17)	177 (6.97)	201 (7.91)	200 (7.87)		
May	163 (6.42)	150 (5.91)	168 (6.61)	155 (6.10)	173 (6.81)	159 (6.26)	177 (6.97)	167 (6.57)	180 (7.09)	173 (6.81)	196 (7.22)	195 (7.68)	201 (7.91)	200 (7.87)	113 (4.45)	113 (4.45)		
June	184 (7.24)	169 (6.65)	187 (7.36)	173 (6.81)	189 (7.44)	177 (6.97)	192 (7.56)	181 (7.13)	196 (7.22)	195 (7.68)	111 (4.37)	111 (4.37)	641 (25.25)	621 (24.45)	656 (25.83)	636 (25.04)		
July	107 (4.21)	103 (4.06)	107 (4.21)	105 (4.13)	108 (4.25)	106 (4.17)	110 (4.33)	108 (4.25)	111 (4.37)	111 (4.37)	641 (25.25)	621 (24.45)	656 (25.83)	636 (25.04)				
Season	594 (23.38)	533 (20.99)	605 (23.81)	551 (21.69)	615 (24.21)	567 (22.32)	628 (24.73)	588 (23.14)	641 (25.25)	621 (24.45)	656 (25.83)	636 (25.04)						

REGION: 14 Hermiston  
CROP: Mint

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)		
April	50 (1.97)	35 (1.38)	50 (1.97)	40 (1.57)	51 (2.01)	44 (1.73)	52 (2.05)	47 (1.85)	54 (2.13)	50 (1.97)	54 (2.13)	52 (2.05)	157 (6.18)	153 (6.02)	215 (8.46)	213 (8.39)		
May	142 (5.59)	128 (5.04)	146 (5.75)	133 (5.24)	149 (5.87)	137 (5.39)	153 (6.02)	144 (5.67)	156 (6.14)	150 (5.91)	157 (6.18)	153 (6.02)	215 (8.46)	213 (8.39)	209 (8.23)	207 (8.15)		
June	197 (7.76)	181 (7.13)	200 (7.87)	186 (7.32)	202 (7.95)	190 (7.48)	205 (8.07)	194 (7.64)	210 (8.27)	208 (8.19)	207 (8.15)	203 (7.99)	209 (8.23)	207 (8.15)	29 (1.14)	28 (1.10)		
July	194 (7.64)	193 (7.60)	196 (7.72)	195 (7.58)	198 (7.80)	197 (7.76)	201 (7.91)	199 (7.83)	207 (8.15)	203 (7.99)	28 (1.10)	28 (1.10)	665 (26.18)	654 (25.75)				
Aug	26 (1.02)	25 (0.98)	26 (1.02)	26 (1.02)	27 (1.06)	26 (1.02)	28 (1.10)	27 (1.06)	28 (1.10)	27 (1.06)	640 (25.20)	640 (25.20)						
Season	610 (24.02)	563 (22.17)	619 (24.37)	581 (22.87)	628 (24.73)	595 (23.42)	640 (25.19)	612 (24.09)	656 (25.83)	640 (25.20)	665 (26.18)	654 (25.75)						

REGION: 14 Hermiston  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET mm	Net IRR in.	ET crop in.	Net IRR mm	ET crop in.	Net IRR in.	ET mm	Net IRR mm	ET crop in.	Net IRR in.	ET mm	Net IRR mm	ET crop in.	Net IRR in.	ET mm	Net IRR mm	ET crop in.	Net IRR in.	
March	6 (0.24)	5 (0.20)	6 (0.24)	6 (0.24)	6 (0.24)	6 (0.24)	7 (0.28)	6 (0.24)	7 (0.28)	6 (0.24)	7 (0.28)	6 (0.24)	7 (0.28)	6 (0.24)	7 (0.28)	6 (0.24)	7 (0.28)	6 (0.24)	7 (0.28)
April	57 (2.24)	44 (1.73)	57 (2.24)	49 (1.93)	58 (2.28)	52 (2.05)	59 (2.32)	55 (2.17)	60 (2.36)	58 (2.28)	60 (2.36)	55 (2.17)	60 (2.36)	58 (2.28)	62 (2.44)	59 (2.32)	62 (2.44)	59 (2.32)	62 (2.44)
May	95 (3.74)	84 (3.31)	97 (3.82)	87 (3.43)	99 (3.90)	91 (3.58)	101 (3.98)	94 (3.70)	103 (4.06)	99 (3.90)	103 (4.06)	94 (3.70)	103 (4.06)	99 (3.90)	103 (4.06)	99 (3.90)	103 (4.06)	101 (3.98)	103 (4.06)
June	143 (5.63)	131 (5.16)	145 (5.71)	135 (5.31)	147 (5.79)	138 (5.43)	149 (5.87)	143 (5.63)	152 (5.98)	151 (5.94)	152 (5.98)	143 (5.63)	152 (5.98)	151 (5.94)	156 (6.14)	155 (6.10)	156 (6.14)	155 (6.10)	156 (6.14)
July	196 (7.72)	193 (7.60)	197 (7.76)	197 (7.76)	199 (7.83)	199 (7.83)	203 (7.99)	202 (7.95)	206 (8.11)	204 (8.03)	206 (8.11)	204 (8.03)	206 (8.11)	204 (8.03)	208 (8.19)	208 (8.19)	208 (8.19)	208 (8.19)	208 (8.19)
Aug	167 (6.57)	165 (6.50)	170 (6.69)	168 (6.61)	176 (6.93)	172 (6.77)	181 (7.13)	176 (6.93)	185 (7.28)	185 (7.28)	185 (7.28)	176 (6.93)	185 (7.28)	185 (7.28)	191 (7.52)	188 (7.40)	191 (7.52)	188 (7.40)	191 (7.52)
Sep	75 (2.95)	70 (2.76)	76 (2.99)	72 (2.83)	77 (3.03)	73 (2.87)	78 (3.07)	76 (2.99)	81 (3.19)	79 (3.11)	81 (3.19)	76 (2.99)	81 (3.19)	79 (3.11)	81 (3.19)	80 (3.15)	81 (3.19)	80 (3.15)	81 (3.19)
Season	739 (29.09)	692 (27.26)	748 (29.45)	714 (28.11)	762 (30.00)	731 (28.77)	778 (30.64)	752 (29.61)	794 (31.26)	782 (30.78)	794 (31.26)	782 (30.78)	794 (31.26)	782 (30.78)	808 (31.82)	798 (31.42)	808 (31.82)	798 (31.42)	808 (31.82)

REGION: 14 Hermiston  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET mm	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR in.	ET mm	Net IRR mm	ET crop in.	Net IRR in.	ET mm	Net IRR mm	ET crop in.	Net IRR in.	ET mm	Net IRR mm	ET crop in.	Net IRR in.	
March	21 (0.83)	17 (0.67)	22 (0.87)	18 (0.71)	23 (0.91)	19 (0.75)	24 (0.94)	20 (0.79)	25 (0.98)	22 (0.87)	25 (0.98)	22 (0.87)	25 (0.98)	22 (0.87)	26 (1.02)	24 (0.94)	26 (1.02)	24 (0.94)	26 (1.02)
April	100 (3.94)	84 (3.31)	102 (4.02)	89 (3.50)	104 (4.09)	94 (3.70)	106 (4.17)	100 (3.94)	112 (4.41)	105 (4.13)	112 (4.41)	105 (4.13)	112 (4.41)	105 (4.13)	113 (4.45)	108 (4.25)	113 (4.45)	108 (4.25)	113 (4.45)
May	144 (5.67)	131 (5.16)	148 (5.83)	135 (5.31)	153 (6.02)	140 (5.51)	157 (6.18)	146 (5.75)	174 (6.85)	165 (6.50)	174 (6.85)	165 (6.50)	178 (7.01)	177 (6.97)	183 (7.20)	181 (7.13)	183 (7.20)	181 (7.13)	183 (7.20)
June	166 (6.54)	153 (6.02)	168 (6.61)	157 (6.18)	171 (6.73)	161 (6.34)	174 (6.85)	165 (6.50)	197 (7.76)	195 (7.68)	197 (7.76)	195 (7.68)	200 (7.87)	199 (7.83)	202 (7.95)	202 (7.95)	202 (7.95)	202 (7.95)	202 (7.95)
July	190 (7.48)	186 (7.32)	192 (7.56)	189 (7.44)	194 (7.64)	192 (7.56)	197 (7.76)	195 (7.68)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	176 (6.93)	182 (7.17)	179 (7.05)	182 (7.17)	179 (7.05)	182 (7.17)
Aug	161 (6.34)	158 (6.22)	163 (6.42)	161 (6.34)	168 (6.61)	163 (6.42)	173 (6.81)	169 (6.65)	115 (4.53)	113 (4.45)	115 (4.53)	113 (4.45)	119 (4.69)	117 (4.61)	120 (4.72)	119 (4.69)	120 (4.72)	119 (4.69)	120 (4.72)
Sep	111 (4.37)	102 (4.02)	112 (4.41)	105 (4.13)	113 (4.45)	109 (4.29)	115 (4.53)	113 (4.45)	68 (2.68)	63 (2.48)	68 (2.68)	63 (2.48)	68 (2.68)	63 (2.48)	69 (2.72)	66 (2.60)	69 (2.72)	66 (2.60)	69 (2.72)
Oct	64 (2.52)	49 (1.93)	65 (2.56)	52 (2.05)	66 (2.60)	55 (2.17)	67 (2.64)	58 (2.28)	1038 (40.87)	1012 (39.84)	1038 (40.87)	1012 (39.84)	1038 (40.87)	1012 (39.84)	1056 (41.57)	1035 (40.75)	1056 (41.57)	1035 (40.75)	1056 (41.57)
Season	957 (37.69)	880 (34.65)	972 (38.28)	906 (35.66)	992 (39.05)	933 (36.74)	1013 (39.88)	966 (38.04)	1038 (40.87)	1012 (39.84)	1038 (40.87)	1012 (39.84)	1038 (40.87)	1012 (39.84)	1056 (41.57)	1035 (40.75)	1056 (41.57)	1035 (40.75)	1056 (41.57)

REGION: 14 Hermiston  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years																				
	ET mm	Net IRR in.	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm																		
March	46 (1.81)	32 (1.26)	47 (1.85)	34 (1.34)	49 (1.93)	36 (1.42)	51 (2.01)	38 (1.50)	53 (2.09)	42 (1.65)	56 (2.20)	45 (1.77)	93 (3.66)	77 (3.03)	95 (3.74)	82 (3.23)	97 (3.82)	87 (3.43)	99 (3.90)	92 (3.62)	104 (4.09)	98 (3.86)	106 (4.17)	100 (3.94)												
April	146 (5.75)	133 (5.24)	150 (5.91)	137 (5.39)	155 (6.10)	142 (5.59)	159 (6.26)	148 (5.83)	162 (6.38)	155 (6.10)	163 (6.42)	158 (6.22)	188 (7.40)	173 (6.81)	191 (7.52)	177 (6.97)	193 (7.60)	181 (7.13)	196 (7.72)	185 (7.28)	200 (7.87)	199 (7.83)	205 (8.07)	204 (8.03)												
May	217 (8.54)	214 (8.43)	219 (8.62)	218 (8.58)	221 (8.70)	221 (8.70)	225 (8.86)	224 (8.82)	229 (9.02)	229 (9.02)	231 (9.09)	231 (9.09)	185 (7.28)	181 (7.13)	191 (7.52)	187 (7.36)	199 (7.83)	193 (7.60)	202 (7.95)	201 (7.91)	208 (8.19)	205 (8.07)	185 (7.28)	181 (7.13)	191 (7.52)	187 (7.36)	199 (7.83)	193 (7.60)	202 (7.95)	201 (7.91)	208 (8.19)	205 (8.07)				
June	185 (7.28)	179 (7.05)	188 (7.40)	181 (7.13)	191 (7.52)	187 (7.36)	199 (7.83)	193 (7.60)	202 (7.95)	201 (7.91)	208 (8.19)	205 (8.07)	119 (4.69)	110 (4.33)	120 (4.72)	113 (4.45)	122 (4.80)	117 (4.61)	123 (4.84)	121 (4.76)	128 (5.04)	126 (4.96)	129 (5.08)	128 (5.04)	58 (2.28)	43 (1.69)	59 (2.32)	46 (1.81)	60 (2.36)	52 (2.05)	62 (2.44)	57 (2.24)	63 (2.48)	59 (2.32)		
July	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)				
Aug	119 (4.69)	110 (4.33)	120 (4.72)	113 (4.45)	122 (4.80)	117 (4.61)	123 (4.84)	121 (4.76)	128 (5.04)	126 (4.96)	129 (5.08)	128 (5.04)	119 (4.69)	110 (4.33)	120 (4.72)	113 (4.45)	122 (4.80)	117 (4.61)	123 (4.84)	121 (4.76)	128 (5.04)	126 (4.96)	129 (5.08)	128 (5.04)	58 (2.28)	43 (1.69)	59 (2.32)	46 (1.81)	60 (2.36)	52 (2.05)	62 (2.44)	57 (2.24)	63 (2.48)	59 (2.32)		
Sep	58 (2.28)	43 (1.69)	59 (2.32)	46 (1.81)	60 (2.36)	49 (1.93)	60 (2.36)	52 (2.05)	62 (2.44)	57 (2.24)	63 (2.48)	59 (2.32)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)				
Oct	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)				
Nov	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)				
Season	1067 (42.00)	962 (37.88)	1084 (42.67)	989 (38.94)	1104 (43.46)	1021 (40.21)	1128 (44.41)	1054 (41.50)	1157 (45.55)	1110 (43.69)	1179 (46.41)	1140 (44.87)	1067 (42.00)	962 (37.88)	1084 (42.67)	989 (38.94)	1104 (43.46)	1021 (40.21)	1128 (44.41)	1054 (41.50)	1157 (45.55)	1110 (43.69)	1179 (46.41)	1140 (44.87)	1067 (42.00)	962 (37.88)	1084 (42.67)	989 (38.94)	1104 (43.46)	1021 (40.21)	1128 (44.41)	1054 (41.50)	1157 (45.55)	1110 (43.69)	1179 (46.41)	1140 (44.87)

REGION: 14 Hermiston  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET mm	Net IRR in.	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm						
March	18 (0.71)	12 (0.47)	19 (0.75)	12 (0.47)	19 (0.75)	13 (0.51)	19 (0.75)	14 (0.55)	20 (0.79)	16 (0.63)	21 (0.83)	17 (0.67)	74 (2.91)	58 (2.28)	75 (2.95)	65 (2.56)	77 (3.03)	69 (2.72)	78 (3.07)	73 (2.87)	82 (3.23)	77 (3.03)	83 (3.27)	79 (3.11)
April	160 (6.30)	147 (5.79)	164 (6.46)	151 (5.94)	170 (6.69)	156 (6.14)	173 (6.81)	163 (6.42)	176 (6.93)	170 (6.69)	178 (7.01)	173 (6.81)	190 (7.48)	175 (6.89)	193 (7.60)	179 (7.05)	195 (7.68)	183 (7.20)	198 (7.80)	187 (7.36)	202 (7.95)	201 (7.91)	207 (8.15)	206 (8.11)
May	132 (5.20)	132 (5.20)	134 (5.28)	134 (5.28)	135 (5.31)	135 (5.31)	137 (5.39)	137 (5.39)	142 (5.59)	141 (5.55)	143 (5.63)	143 (5.63)	132 (5.20)	132 (5.20)	134 (5.28)	134 (5.28)	135 (5.31)	135 (5.31)	137 (5.39)	137 (5.39)	142 (5.59)	141 (5.55)	143 (5.63)	143 (5.63)
June	132 (5.20)	132 (5.20)	134 (5.28)	134 (5.28)	135 (5.31)	135 (5.31)	137 (5.39)	137 (5.39)	142 (5.59)	141 (5.55)	143 (5.63)	143 (5.63)	132 (5.20)	132 (5.20)	134 (5.28)	134 (5.28)	135 (5.31)	135 (5.31)	137 (5.39)	137 (5.39)	142 (5.59)	141 (5.55)	143 (5.63)	143 (5.63)
July	574 (22.60)	524 (20.63)	585 (23.04)	541 (21.30)	596 (23.46)	556 (21.88)	605 (23.82)	574 (22.59)	622 (24.49)	605 (23.81)	632 (24.89)	618 (24.33)	574 (22.60)	524 (20.63)	585 (23.04)	541 (21.30)	596 (23.46)	556 (21.88)	605 (23.82)	574 (22.59)	622 (24.49)	605 (23.81)	632 (24.89)	618 (24.33)



REGION: 14 Hermiston  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years																							
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.																							
March	46 (1.81)	32 (1.26)	47 (1.85)	34 (1.34)	49 (1.93)	36 (1.42)	51 (2.01)	38 (1.50)	53 (2.09)	42 (1.65)	56 (2.20)	45 (1.77)	93 (3.66)	77 (3.05)	95 (3.74)	82 (3.23)	97 (3.82)	87 (3.43)	99 (3.90)	92 (3.62)	104 (4.09)	98 (3.86)	106 (4.17)	100 (3.94)															
April	146 (5.75)	133 (5.24)	150 (5.91)	137 (5.39)	155 (6.10)	142 (5.59)	159 (6.26)	148 (5.83)	162 (6.38)	155 (6.10)	163 (6.42)	158 (6.22)	188 (7.40)	173 (6.81)	191 (7.52)	177 (6.97)	193 (7.60)	181 (7.13)	196 (7.72)	185 (7.28)	200 (7.87)	199 (7.83)	205 (8.07)	204 (8.03)															
May	217 (8.54)	214 (8.43)	219 (8.62)	218 (8.58)	221 (8.70)	221 (8.70)	225 (8.86)	224 (8.82)	229 (9.02)	229 (9.02)	231 (9.09)	231 (9.09)	185 (7.28)	181 (7.13)	191 (7.52)	187 (7.36)	199 (7.83)	193 (7.60)	202 (7.95)	201 (7.91)	208 (8.19)	205 (8.07)	119 (4.69)	110 (4.33)	120 (4.72)	113 (4.45)	122 (4.80)	117 (4.61)	123 (4.84)	121 (4.76)	128 (5.04)	126 (4.96)	129 (5.08)	128 (5.04)					
June	185 (7.28)	179 (7.05)	188 (7.40)	181 (7.13)	191 (7.52)	187 (7.36)	199 (7.83)	193 (7.60)	202 (7.95)	201 (7.91)	208 (8.19)	205 (8.07)	58 (2.28)	43 (1.69)	59 (2.32)	46 (1.81)	60 (2.36)	49 (1.93)	60 (2.36)	52 (2.05)	62 (2.44)	57 (2.24)	63 (2.48)	59 (2.32)															
July	119 (4.69)	110 (4.33)	120 (4.72)	113 (4.45)	122 (4.80)	117 (4.61)	123 (4.84)	121 (4.76)	128 (5.04)	126 (4.96)	129 (5.08)	128 (5.04)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)																	
Aug	58 (2.28)	43 (1.69)	59 (2.32)	46 (1.81)	60 (2.36)	49 (1.93)	60 (2.36)	49 (1.93)	62 (2.44)	57 (2.24)	63 (2.48)	59 (2.32)	Season1067	42.00	962	37.88	1084	42.67	989	38.94	1104	43.46	1021	40.21	1128	44.41	1054	41.50	1157	45.55	1110	43.69	1179	46.41	1140	44.87			
Sep	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	3 (0.12)	18 (0.71)	10 (0.39)																											
Oct																																							
Nov																																							

REGION: 14 Hermiston  
CROP: Potatoes (Early)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years																							
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.																							
March	19 (0.75)	10 (0.39)	20 (0.79)	11 (0.43)	20 (0.79)	13 (0.51)	20 (0.79)	14 (0.55)	21 (0.83)	16 (0.63)	22 (0.87)	17 (0.67)	57 (2.24)	42 (1.65)	58 (2.28)	48 (1.89)	58 (2.28)	52 (2.05)	59 (2.32)	55 (2.17)	62 (2.44)	58 (2.28)	63 (2.48)	60 (2.36)															
April	141 (5.55)	129 (5.08)	144 (5.67)	133 (5.24)	149 (5.87)	136 (5.35)	152 (5.98)	142 (5.59)	154 (6.06)	148 (5.83)	156 (6.14)	151 (5.94)	191 (7.52)	176 (6.93)	194 (7.64)	181 (7.13)	199 (7.83)	189 (7.44)	204 (8.03)	196 (7.72)	209 (8.23)	208 (8.19)	192 (7.56)	190 (7.48)															
May	192 (7.56)	190 (7.48)	194 (7.64)	192 (7.56)	196 (7.72)	195 (7.68)	199 (7.83)	198 (7.80)	202 (7.95)	202 (7.95)	204 (8.03)	208 (8.19)	Season 600	23.62	547	21.53	610	24.02	565	22.25	619	24.38	581	22.87	629	24.75	598	23.55	643	25.31	620	24.41	654	25.75	640	25.19			
June																																							
July																																							

REGION: 14 Hermiston  
CROP: Potatoes (Mid)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	28 (1.10)	20 (0.79)	29 (1.14)	23 (0.91)	29 (1.14)	25 (0.98)	29 (1.14)	26 (1.02)	30 (1.18)	28 (1.10)	30 (1.18)	28 (1.10)	30 (1.18)	29 (1.14)	30 (1.18)	29 (1.14)		
May	72 (2.83)	60 (2.36)	72 (2.83)	63 (2.48)	74 (2.91)	67 (2.64)	75 (2.95)	70 (2.76)	76 (2.99)	73 (2.87)	77 (3.03)	75 (2.95)	77 (3.03)	75 (2.95)	77 (3.03)	75 (2.95)		
June	154 (6.06)	141 (5.55)	156 (6.14)	145 (5.71)	158 (6.22)	148 (5.83)	160 (6.30)	151 (5.94)	163 (6.42)	163 (6.42)	168 (6.61)	167 (6.57)	168 (6.61)	167 (6.57)	168 (6.61)	167 (6.57)		
July	219 (8.62)	217 (8.54)	221 (8.70)	220 (8.66)	223 (8.78)	223 (8.78)	226 (8.90)	226 (8.90)	230 (9.06)	228 (8.98)	233 (9.17)	233 (9.17)	233 (9.17)	233 (9.17)	233 (9.17)	233 (9.17)		
Aug	185 (7.28)	182 (7.17)	186 (7.32)	184 (7.24)	193 (7.60)	188 (7.40)	199 (7.83)	193 (7.60)	203 (7.99)	203 (7.99)	210 (8.27)	206 (8.11)	210 (8.27)	206 (8.11)	210 (8.27)	206 (8.11)		
Sep	102 (4.02)	95 (3.74)	104 (4.09)	97 (3.82)	105 (4.13)	99 (3.90)	106 (4.17)	102 (4.02)	110 (4.33)	109 (4.29)	111 (4.37)	110 (4.33)	111 (4.37)	110 (4.33)	111 (4.37)	110 (4.33)		
Season	760 (29.91)	715 (28.15)	768 (30.22)	732 (28.82)	782 (30.78)	750 (29.53)	795 (31.29)	768 (30.24)	812 (31.97)	804 (31.65)	829 (32.63)	820 (32.27)	829 (32.63)	820 (32.27)	829 (32.63)	820 (32.27)		

REGION: 14 Hermiston  
CROP: Potatoes (Late)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	7 (0.28)	6 (0.24)	7 (0.28)	6 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)	7 (0.28)		
May	58 (2.28)	46 (1.81)	58 (2.28)	49 (1.93)	59 (2.32)	52 (2.05)	59 (2.32)	55 (2.17)	60 (2.36)	57 (2.24)	60 (2.36)	59 (2.32)	60 (2.36)	59 (2.32)	60 (2.36)	59 (2.32)		
June	114 (4.49)	101 (3.98)	115 (4.53)	105 (4.13)	116 (4.57)	109 (4.29)	118 (4.65)	113 (4.45)	120 (4.72)	118 (4.65)	124 (4.88)	121 (4.76)	124 (4.88)	121 (4.76)	124 (4.88)	121 (4.76)		
July	210 (8.27)	207 (8.15)	211 (8.31)	210 (8.27)	213 (8.39)	213 (8.39)	217 (8.54)	215 (8.46)	220 (8.66)	218 (8.58)	223 (8.78)	223 (8.78)	223 (8.78)	223 (8.78)	223 (8.78)	223 (8.78)		
Aug	185 (7.28)	182 (7.17)	186 (7.32)	184 (7.24)	193 (7.60)	188 (7.40)	199 (7.83)	193 (7.60)	203 (7.99)	203 (7.99)	210 (8.27)	206 (8.11)	210 (8.27)	206 (8.11)	210 (8.27)	206 (8.11)		
Sep	117 (4.61)	110 (4.33)	120 (4.72)	113 (4.45)	122 (4.80)	116 (4.57)	123 (4.84)	119 (4.69)	128 (5.04)	124 (4.88)	129 (5.08)	127 (5.00)	129 (5.08)	127 (5.00)	129 (5.08)	127 (5.00)		
Oct	27 (1.06)	21 (0.83)	27 (1.06)	23 (0.91)	28 (1.10)	24 (0.94)	28 (1.10)	26 (1.02)	29 (1.14)	27 (1.06)	29 (1.14)	28 (1.10)	29 (1.14)	28 (1.10)	29 (1.14)	28 (1.10)		
Season	718 (28.27)	673 (26.51)	724 (28.50)	690 (27.17)	738 (29.06)	709 (27.92)	751 (29.56)	728 (28.67)	767 (30.19)	754 (29.68)	782 (30.79)	771 (30.35)	782 (30.79)	771 (30.35)	782 (30.79)	771 (30.35)		

REGION: 15 Milton-Freewater  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.
March	34	( 1.34)	2 ( 0.08)	35	( 1.38)	2 ( 0.08)	37	( 1.46)	3 ( 0.12)	39	( 1.54)	5 ( 0.20)	42	( 1.65)	16 ( 0.63)	43	( 1.69)	20 ( 0.79)
April	69	( 2.72)	29 ( 1.14)	72	( 2.83)	35 ( 1.38)	73	( 2.87)	42 ( 1.65)	75	( 2.95)	52 ( 2.05)	82	( 3.23)	62 ( 2.44)	84	( 3.31)	68 ( 2.68)
May	105	( 4.13)	62 ( 2.44)	106	( 4.17)	69 ( 2.72)	109	( 4.29)	77 ( 3.03)	111	( 4.37)	85 ( 3.35)	120	( 4.72)	104 ( 4.09)	122	( 4.80)	114 ( 4.49)
June	121	( 4.76)	87 ( 3.43)	123	( 4.84)	93 ( 3.66)	124	( 4.88)	100 ( 3.94)	129	( 5.08)	106 ( 4.17)	132	( 5.20)	112 ( 4.41)	137	( 5.39)	126 ( 4.96)
July	172	( 6.77)	162 ( 6.38)	173	( 6.81)	166 ( 6.54)	175	( 6.89)	170 ( 6.69)	177	( 6.97)	174 ( 6.85)	181	( 7.13)	177 ( 6.97)	184	( 7.24)	182 ( 7.17)
Aug	140	( 5.51)	131 ( 5.16)	142	( 5.59)	136 ( 5.35)	144	( 5.67)	140 ( 5.51)	146	( 5.75)	143 ( 5.63)	150	( 5.91)	147 ( 5.79)	155	( 6.10)	151 ( 5.94)
Sep	84	( 3.31)	59 ( 2.32)	86	( 3.39)	66 ( 2.60)	89	( 3.50)	73 ( 2.87)	91	( 3.58)	84 ( 3.31)	93	( 3.66)	89 ( 3.50)	95	( 3.74)	92 ( 3.62)
Season	725	( 28.54)	532 ( 20.95)	737	( 29.01)	567 ( 22.33)	751	( 29.56)	605 ( 23.81)	768	( 30.24)	649 ( 25.56)	800	( 31.50)	707 ( 27.83)	820	( 32.27)	753 ( 29.65)

REGION: 15 Milton-Freewater  
CROP: Apples

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.	ET mm	ET crop in.	Net IRR mm in.
March	30	( 1.18)	1 ( 0.04)	32	( 1.26)	2 ( 0.08)	33	( 1.30)	2 ( 0.08)	35	( 1.38)	2 ( 0.08)	38	( 1.50)	12 ( 0.47)	39	( 1.54)	17 ( 0.67)
April	72	( 2.83)	30 ( 1.18)	75	( 2.95)	38 ( 1.50)	77	( 3.03)	46 ( 1.81)	79	( 3.11)	54 ( 2.13)	85	( 3.35)	63 ( 2.48)	88	( 3.46)	69 ( 2.72)
May	121	( 4.76)	79 ( 3.11)	124	( 4.88)	86 ( 3.39)	128	( 5.04)	93 ( 3.66)	132	( 5.20)	100 ( 3.94)	139	( 5.47)	122 ( 4.80)	142	( 5.59)	134 ( 5.28)
June	156	( 6.14)	119 ( 4.69)	159	( 6.26)	127 ( 5.00)	161	( 6.34)	134 ( 5.28)	167	( 6.57)	142 ( 5.59)	171	( 6.73)	150 ( 5.91)	177	( 6.97)	165 ( 6.50)
July	233	( 9.17)	222 ( 8.74)	235	( 9.25)	227 ( 8.94)	237	( 9.33)	232 ( 9.13)	239	( 9.41)	237 ( 9.33)	245	( 9.65)	242 ( 9.53)	250	( 9.84)	248 ( 9.76)
Aug	190	( 7.48)	179 ( 7.05)	193	( 7.60)	185 ( 7.28)	195	( 7.68)	190 ( 7.48)	198	( 7.80)	195 ( 7.68)	203	( 7.99)	200 ( 7.87)	210	( 8.27)	205 ( 8.07)
Sep	119	( 4.69)	90 ( 3.54)	122	( 4.80)	98 ( 3.86)	125	( 4.92)	106 ( 4.17)	128	( 5.04)	119 ( 4.69)	132	( 5.20)	127 ( 5.00)	135	( 5.31)	131 ( 5.16)
Oct	47	( 1.85)	13 ( 0.51)	49	( 1.93)	19 ( 0.75)	52	( 2.05)	24 ( 0.94)	53	( 2.09)	32 ( 1.26)	54	( 2.13)	42 ( 1.65)	58	( 2.28)	51 ( 2.01)
Nov	8	( 0.31)	1 ( 0.04)	10	( 0.39)	1 ( 0.04)	11	( 0.43)	1 ( 0.04)	11	( 0.43)	1 ( 0.04)	13	( 0.51)	1 ( 0.04)	13	( 0.51)	1 ( 0.04)
Season	976	( 38.41)	734 ( 28.90)	999	( 39.32)	783 ( 30.84)	1019	( 40.12)	828 ( 32.59)	1042	( 41.03)	882 ( 34.74)	1080	( 42.53)	959 ( 37.75)	1112	( 43.77)	1021 ( 40.21)

REGION: 15 Milton-Freewater  
Berries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	34 (1.34)	14 (0.55)	34 (1.34)	17 (0.67)	35 (1.38)	21 (0.83)	36 (1.42)	25 (0.98)	36 (1.42)	25 (0.98)	36 (1.42)	32 (1.26)	37 (1.46)	35 (1.38)	37 (1.46)	35 (1.38)		
June	79 (3.11)	50 (1.97)	81 (3.19)	55 (2.17)	83 (3.27)	59 (2.32)	84 (3.31)	64 (2.52)	87 (3.43)	71 (2.80)	87 (3.43)	71 (2.80)	90 (3.54)	80 (3.15)	90 (3.54)	80 (3.15)		
July	131 (5.16)	122 (4.80)	132 (5.20)	125 (4.92)	134 (5.28)	128 (5.04)	135 (5.31)	132 (5.20)	137 (5.39)	136 (5.35)	141 (5.55)	140 (5.51)	142 (5.59)	134 (5.28)	142 (5.59)	134 (5.28)		
Aug	111 (4.37)	102 (4.02)	113 (4.45)	107 (4.21)	115 (4.53)	110 (4.33)	117 (4.61)	113 (4.45)	119 (4.69)	118 (4.65)	122 (4.80)	122 (4.80)	122 (4.80)	122 (4.80)	122 (4.80)	122 (4.80)		
Sep	74 (2.91)	47 (1.85)	76 (2.99)	54 (2.13)	78 (3.07)	61 (2.40)	80 (3.15)	72 (2.83)	82 (3.23)	78 (3.07)	84 (3.31)	81 (3.19)	84 (3.31)	81 (3.19)	84 (3.31)	81 (3.19)		
Oct	39 (1.54)	4 (0.16)	40 (1.57)	9 (0.35)	42 (1.65)	13 (0.51)	43 (1.69)	21 (0.83)	45 (1.77)	32 (1.26)	46 (1.81)	40 (1.57)	46 (1.81)	40 (1.57)	46 (1.81)	40 (1.57)		
Nov	1 (0.04)	0 (0.00)	2 (0.08)	0 (0.00)	2 (0.08)	0 (0.00)	2 (0.08)	0 (0.00)	2 (0.08)	0 (0.00)	3 (0.12)	1 (0.04)	3 (0.12)	1 (0.04)	3 (0.12)	1 (0.04)		
Season	469 (18.47)	339 (13.35)	478 (18.82)	367 (14.45)	489 (19.26)	392 (15.43)	497 (19.57)	427 (16.81)	509 (20.05)	467 (18.39)	523 (20.59)	499 (19.64)	523 (20.59)	499 (19.64)	523 (20.59)	499 (19.64)		

REGION: 15 Milton-Freewater  
Cherries

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	30 (1.18)	1 (0.04)	32 (1.26)	2 (0.08)	33 (1.30)	2 (0.08)	35 (1.38)	2 (0.08)	38 (1.50)	12 (0.47)	39 (1.54)	17 (0.67)	39 (1.54)	17 (0.67)	39 (1.54)	17 (0.67)		
April	72 (2.83)	30 (1.18)	75 (2.95)	38 (1.50)	77 (3.03)	46 (1.81)	79 (3.11)	54 (2.13)	85 (3.35)	63 (2.48)	88 (3.46)	69 (2.72)	88 (3.46)	69 (2.72)	88 (3.46)	69 (2.72)		
May	121 (4.76)	79 (3.11)	124 (4.88)	86 (3.59)	128 (5.04)	93 (3.66)	132 (5.20)	100 (3.94)	139 (5.47)	122 (4.80)	142 (5.59)	134 (5.28)	142 (5.59)	134 (5.28)	142 (5.59)	134 (5.28)		
June	156 (6.14)	119 (4.69)	159 (6.26)	127 (5.00)	161 (6.34)	134 (5.28)	167 (6.57)	142 (5.59)	171 (6.73)	150 (5.91)	177 (6.97)	165 (6.50)	177 (6.97)	165 (6.50)	177 (6.97)	165 (6.50)		
July	233 (9.17)	222 (8.74)	235 (9.25)	227 (8.94)	237 (9.33)	232 (9.13)	239 (9.41)	237 (9.33)	245 (9.65)	242 (9.53)	250 (9.84)	248 (9.76)	250 (9.84)	248 (9.76)	250 (9.84)	248 (9.76)		
Aug	190 (7.48)	179 (7.05)	193 (7.60)	185 (7.28)	195 (7.68)	190 (7.48)	198 (7.80)	195 (7.68)	203 (7.99)	200 (7.87)	210 (8.27)	205 (8.07)	210 (8.27)	205 (8.07)	210 (8.27)	205 (8.07)		
Sep	119 (4.69)	90 (3.54)	122 (4.80)	98 (3.86)	125 (4.92)	106 (4.17)	128 (5.04)	119 (4.69)	132 (5.20)	127 (5.00)	135 (5.31)	131 (5.16)	135 (5.31)	131 (5.16)	135 (5.31)	131 (5.16)		
Oct	47 (1.85)	13 (0.51)	49 (1.93)	19 (0.75)	52 (2.05)	24 (0.94)	53 (2.09)	32 (1.26)	54 (2.13)	42 (1.65)	58 (2.28)	51 (2.01)	58 (2.28)	51 (2.01)	58 (2.28)	51 (2.01)		
Nov	8 (0.31)	1 (0.04)	10 (0.39)	1 (0.04)	11 (0.43)	1 (0.04)	11 (0.43)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)		
Season	976 (38.41)	754 (28.90)	999 (39.32)	783 (30.84)	1019 (40.12)	828 (32.59)	1042 (41.03)	882 (34.74)	1080 (42.53)	959 (37.75)	1112 (43.77)	1021 (40.21)	1112 (43.77)	1021 (40.21)	1112 (43.77)	1021 (40.21)		

REGION: 15 Milton-Freewater  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	33 (1.30)	14 (0.55)	33 (1.30)	17 (0.67)	33 (1.30)	20 (0.79)	34 (1.34)	24 (0.94)	35 (1.38)	31 (1.22)	35 (1.38)	31 (1.22)	35 (1.38)	33 (1.30)	35 (1.38)	33 (1.30)		
June	110 (4.33)	78 (3.07)	112 (4.41)	84 (3.31)	115 (4.53)	89 (3.50)	118 (4.65)	94 (3.70)	122 (4.80)	100 (3.94)	122 (4.80)	100 (3.94)	124 (4.88)	113 (4.45)	124 (4.88)	113 (4.45)		
July	215 (8.46)	205 (8.07)	217 (8.54)	210 (8.27)	219 (8.62)	214 (8.43)	221 (8.70)	218 (8.58)	227 (8.94)	223 (8.78)	227 (8.94)	223 (8.78)	231 (9.09)	228 (8.98)	231 (9.09)	228 (8.98)		
Aug	112 (4.41)	106 (4.17)	113 (4.45)	108 (4.25)	115 (4.53)	111 (4.37)	116 (4.57)	114 (4.49)	120 (4.72)	117 (4.61)	120 (4.72)	117 (4.61)	123 (4.84)	120 (4.72)	123 (4.84)	120 (4.72)		
Season	470 (18.50)	403 (15.86)	475 (18.70)	419 (16.50)	482 (18.98)	434 (17.09)	489 (19.26)	450 (17.71)	504 (19.84)	471 (18.55)	504 (19.84)	471 (18.55)	513 (20.19)	494 (19.45)	513 (20.19)	494 (19.45)		

REGION: 15 Milton-Freewater  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	14 (0.55)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	4 (0.16)	16 (0.63)	6 (0.24)	16 (0.63)	6 (0.24)		
April	54 (2.13)	13 (0.51)	55 (2.17)	19 (0.75)	57 (2.24)	26 (1.02)	59 (2.32)	35 (1.38)	61 (2.40)	43 (1.69)	61 (2.40)	43 (1.69)	64 (2.52)	48 (1.89)	64 (2.52)	48 (1.89)		
May	107 (4.21)	62 (2.44)	109 (4.29)	72 (2.83)	111 (4.37)	80 (3.15)	114 (4.49)	87 (3.43)	119 (4.69)	107 (4.21)	119 (4.69)	107 (4.21)	123 (4.84)	116 (4.57)	123 (4.84)	116 (4.57)		
June	149 (5.87)	112 (4.41)	151 (5.94)	119 (4.69)	153 (6.02)	127 (5.00)	158 (6.22)	134 (5.28)	163 (6.42)	142 (5.59)	163 (6.42)	142 (5.59)	168 (6.61)	157 (6.18)	168 (6.61)	157 (6.18)		
July	209 (8.23)	202 (7.95)	211 (8.31)	207 (8.15)	214 (8.43)	211 (8.31)	218 (8.58)	216 (8.50)	223 (8.78)	220 (8.66)	223 (8.78)	220 (8.66)	228 (8.98)	225 (8.86)	228 (8.98)	225 (8.86)		
Aug	86 (3.39)	79 (3.11)	87 (3.43)	82 (3.23)	88 (3.46)	85 (3.35)	90 (3.54)	88 (3.46)	91 (3.58)	91 (3.58)	91 (3.58)	91 (3.58)	94 (3.70)	94 (3.70)	94 (3.70)	94 (3.70)		
Season	618 (24.34)	469 (18.46)	626 (24.65)	500 (19.69)	637 (25.07)	530 (20.87)	653 (25.70)	561 (22.09)	672 (26.46)	607 (23.89)	672 (26.46)	607 (23.89)	693 (27.28)	646 (25.44)	693 (27.28)	646 (25.44)		

REGION: 15 Milton-Freewater  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
March	23 (0.91)	1 (0.04)	23 (0.91)	1 (0.04)	24 (0.94)	1 (0.04)	26 (1.02)	2 (0.08)	28 (1.10)	8 (0.31)	29 (1.14)	12 (0.47)	80 (3.15)	36 (1.42)	82 (3.23)	44 (1.73)	84 (3.31)	52 (2.05)	87 (3.43)	61 (2.40)	94 (3.70)	72 (2.83)	96 (3.78)	79 (3.11)
April	80 (3.15)	36 (1.42)	82 (3.23)	44 (1.73)	84 (3.31)	52 (2.05)	87 (3.43)	61 (2.40)	94 (3.70)	72 (2.83)	96 (3.78)	79 (3.11)	125 (4.92)	83 (3.27)	129 (5.08)	90 (3.54)	131 (5.16)	97 (3.82)	134 (5.28)	106 (4.17)	145 (5.71)	126 (4.96)	148 (5.83)	139 (5.47)
May	142 (5.59)	105 (4.13)	144 (5.67)	113 (4.45)	146 (5.75)	121 (4.76)	152 (5.98)	127 (5.00)	155 (6.10)	134 (5.28)	160 (6.30)	149 (5.87)	104 (4.09)	96 (3.78)	105 (4.13)	99 (3.90)	106 (4.17)	102 (4.02)	107 (4.21)	105 (4.13)	109 (4.29)	109 (4.29)	112 (4.41)	112 (4.41)
Season	474 (18.66)	321 (12.64)	483 (19.02)	347 (13.66)	491 (19.33)	373 (14.69)	506 (19.92)	401 (15.78)	531 (20.90)	449 (17.67)	545 (21.46)	491 (19.33)												

REGION: 15 Milton-Freewater  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
March	4 (0.16)	0 (0.00)	4 (0.16)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	1 (0.04)	5 (0.20)	3 (0.12)	5 (0.20)	4 (0.16)	47 (1.85)	13 (0.51)	48 (1.89)	18 (0.71)	49 (1.93)	23 (0.91)	51 (2.01)	31 (1.22)	53 (2.09)	38 (1.50)	54 (2.13)	42 (1.65)
April	79 (3.11)	45 (1.77)	81 (3.19)	50 (1.97)	82 (3.23)	56 (2.20)	84 (3.31)	64 (2.52)	87 (3.43)	76 (2.99)	90 (3.54)	82 (3.23)	115 (4.53)	87 (3.43)	117 (4.61)	92 (3.62)	119 (4.69)	98 (3.86)	122 (4.80)	103 (4.06)	127 (5.00)	108 (4.25)	129 (5.08)	120 (4.72)
May	193 (7.60)	184 (7.24)	195 (7.68)	188 (7.40)	196 (7.72)	191 (7.52)	198 (7.80)	196 (7.72)	203 (7.99)	200 (7.87)	207 (8.15)	204 (8.03)	161 (6.34)	152 (5.98)	163 (6.42)	156 (6.14)	165 (6.50)	161 (6.34)	167 (6.57)	165 (6.50)	172 (6.77)	169 (6.65)	177 (6.97)	172 (6.77)
June	69 (2.72)	53 (2.09)	70 (2.76)	57 (2.24)	72 (2.83)	62 (2.44)	74 (2.91)	70 (2.76)	76 (2.99)	74 (2.91)	78 (3.07)	76 (2.99)	668 (26.31)	534 (21.02)	678 (26.71)	561 (22.08)	688 (27.10)	591 (23.27)	701 (27.60)	630 (24.82)	723 (28.47)	668 (26.29)	740 (29.14)	700 (27.55)
Season	668 (26.31)	534 (21.02)	678 (26.71)	561 (22.08)	688 (27.10)	591 (23.27)	701 (27.60)	630 (24.82)	723 (28.47)	668 (26.29)	740 (29.14)	700 (27.55)												

REGION: 15 Milton-Freewater  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years							
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.					
March	14 (0.55)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	4 (0.16)	18 (0.71)	8 (0.31)	19 (0.75)	11 (0.43)	76 (2.99)	32 (1.06)	78 (3.07)	40 (1.57)	80 (3.15)	82 (3.23)	89 (3.50)	68 (2.68)	92 (3.62)	75 (2.95)	
April	76 (2.99)	32 (1.06)	78 (3.07)	40 (1.57)	80 (3.15)	49 (1.93)	82 (3.23)	58 (2.28)	89 (3.50)	68 (2.68)	92 (3.62)	114 (4.92)	114 (4.92)	114 (4.92)	123 (4.84)	92 (3.62)	130 (5.12)	130 (5.12)	132 (5.20)	132 (5.20)	125 (4.92)	125 (4.92)	
May	114 (4.49)	71 (2.80)	116 (4.57)	77 (3.03)	120 (4.72)	85 (3.35)	123 (4.84)	92 (3.62)	130 (5.12)	114 (4.92)	132 (5.20)	144 (5.67)	144 (5.67)	144 (5.67)	144 (5.67)	117 (4.61)	144 (5.67)	144 (5.67)	144 (5.67)	144 (5.67)	148 (5.83)	137 (5.39)	
June	130 (5.12)	97 (3.82)	132 (5.20)	104 (4.09)	135 (5.31)	110 (4.33)	140 (5.51)	117 (4.61)	144 (5.67)	123 (4.84)	148 (5.83)	201 (7.91)	201 (7.91)	201 (7.91)	201 (7.91)	189 (7.44)	197 (7.76)	197 (7.76)	197 (7.76)	197 (7.76)	198 (7.80)	165 (6.50)	
July	187 (7.36)	177 (6.97)	189 (7.44)	181 (7.13)	190 (7.48)	185 (7.28)	192 (7.56)	189 (7.44)	197 (7.76)	193 (7.60)	201 (7.91)	168 (6.61)	165 (6.50)	153 (6.02)	142 (5.59)	155 (6.10)	149 (5.87)	157 (6.18)	159 (6.26)	157 (6.18)	163 (6.42)	160 (6.30)	165 (6.50)
Aug	153 (6.02)	142 (5.59)	155 (6.10)	149 (5.87)	157 (6.18)	153 (6.02)	159 (6.26)	157 (6.18)	163 (6.42)	160 (6.30)	168 (6.61)	115 (4.37)	115 (4.37)	102 (4.02)	71 (2.80)	104 (4.09)	80 (3.15)	106 (4.17)	109 (4.29)	100 (3.94)	112 (4.41)	108 (4.25)	111 (4.37)
Sep	102 (4.02)	71 (2.80)	104 (4.09)	80 (3.15)	106 (4.17)	88 (3.46)	109 (4.29)	100 (3.94)	112 (4.41)	108 (4.25)	115 (4.37)	61 (2.40)	55 (2.17)	53 (2.09)	17 (0.67)	54 (2.13)	23 (0.91)	55 (2.17)	56 (2.20)	37 (1.46)	58 (2.28)	45 (1.77)	55 (2.17)
Oct	53 (2.09)	17 (0.67)	54 (2.13)	23 (0.91)	55 (2.17)	30 (1.18)	56 (2.20)	37 (1.46)	58 (2.28)	45 (1.77)	61 (2.40)	936 (36.85)	877 (34.53)	829 (32.64)	608 (23.95)	842 (33.15)	655 (25.79)	858 (33.77)	877 (34.52)	754 (29.69)	911 (35.87)	819 (32.24)	936 (36.85)
Season	829 (32.64)	608 (23.95)	842 (33.15)	655 (25.79)	858 (33.77)	701 (27.59)	877 (34.52)	754 (29.69)	911 (35.87)	819 (32.24)	936 (36.85)	877 (34.53)	829 (32.64)	608 (23.95)	842 (33.15)	655 (25.79)	858 (33.77)	877 (34.52)	754 (29.69)	911 (35.87)	819 (32.24)	936 (36.85)	

REGION: 15 Milton-Freewater  
CROP: Pears

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years							
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.					
March	30 (1.18)	1 (0.04)	32 (1.26)	2 (0.08)	33 (1.30)	2 (0.08)	35 (1.38)	2 (0.08)	38 (1.50)	12 (0.47)	39 (1.54)	17 (0.67)	69 (2.72)	27 (1.06)	70 (2.76)	33 (1.30)	72 (2.83)	74 (2.91)	80 (3.15)	59 (2.32)	83 (3.27)	65 (2.56)	
April	69 (2.72)	27 (1.06)	70 (2.76)	33 (1.30)	72 (2.83)	41 (1.61)	74 (2.91)	51 (2.01)	80 (3.15)	59 (2.32)	83 (3.27)	121 (4.76)	121 (4.76)	111 (4.37)	69 (2.72)	77 (3.03)	82 (3.23)	119 (4.69)	123 (4.84)	110 (4.33)	128 (5.04)	121 (4.76)	
May	111 (4.37)	69 (2.72)	112 (4.41)	75 (2.95)	116 (4.57)	82 (3.23)	119 (4.69)	90 (3.54)	123 (4.84)	110 (4.33)	128 (5.04)	151 (5.94)	151 (5.94)	142 (5.59)	107 (4.21)	144 (5.67)	114 (4.49)	147 (5.79)	153 (6.02)	136 (5.35)	162 (6.38)	151 (5.94)	
June	142 (5.59)	107 (4.21)	144 (5.67)	114 (4.49)	147 (5.79)	121 (4.76)	153 (6.02)	128 (5.04)	157 (6.18)	136 (5.35)	162 (6.38)	227 (8.94)	227 (8.94)	214 (8.43)	204 (8.03)	216 (8.50)	209 (8.23)	218 (8.58)	220 (8.66)	217 (8.54)	230 (9.06)	227 (8.94)	
July	214 (8.43)	204 (8.03)	216 (8.50)	209 (8.23)	218 (8.58)	174 (6.85)	220 (8.66)	178 (7.01)	225 (8.86)	222 (8.74)	230 (9.06)	187 (7.36)	187 (7.36)	174 (6.85)	163 (6.42)	176 (6.93)	169 (6.65)	179 (7.05)	186 (7.32)	183 (8.74)	192 (7.56)	187 (7.36)	
Aug	174 (6.85)	163 (6.42)	176 (6.93)	169 (6.65)	179 (7.05)	174 (6.85)	181 (7.13)	178 (7.01)	186 (7.32)	183 (8.74)	192 (7.56)	119 (4.69)	119 (4.69)	109 (4.29)	80 (3.15)	112 (4.41)	87 (3.43)	114 (4.49)	117 (4.61)	110 (4.33)	124 (4.88)	119 (4.69)	
Sep	109 (4.29)	80 (3.15)	112 (4.41)	87 (3.43)	114 (4.49)	95 (3.74)	117 (4.61)	110 (4.33)	121 (4.76)	116 (4.57)	124 (4.88)	48 (1.89)	48 (1.89)	47 (1.85)	10 (0.39)	48 (1.89)	17 (0.67)	50 (1.97)	52 (2.05)	39 (1.54)	54 (2.13)	48 (1.89)	
Oct	47 (1.85)	10 (0.39)	48 (1.89)	17 (0.67)	50 (1.97)	21 (0.83)	52 (2.05)	30 (1.18)	53 (2.09)	39 (1.54)	54 (2.13)	1 (0.04)	1 (0.04)	8 (0.31)	1 (0.04)	10 (0.39)	1 (0.04)	11 (0.43)	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)	
Nov	8 (0.31)	1 (0.04)	10 (0.39)	1 (0.04)	11 (0.43)	1 (0.04)	11 (0.43)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	936 (36.85)	877 (34.53)	904 (35.59)	662 (26.06)	920 (36.22)	707 (27.84)	940 (37.01)	962 (37.88)	807 (31.77)	996 (39.21)	878 (34.56)	1025 (40.37)
Season	904 (35.59)	662 (26.06)	920 (36.22)	707 (27.84)	940 (37.01)	750 (29.53)	962 (37.88)	807 (31.77)	996 (39.21)	878 (34.56)	1025 (40.37)	936 (36.85)	904 (35.59)	662 (26.06)	920 (36.22)	707 (27.84)	940 (37.01)	962 (37.88)	807 (31.77)	996 (39.21)	878 (34.56)	1025 (40.37)	

REGION: 15 Milton-Freewater  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.
March	12 (0.47)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	4 (0.16)	15 (0.59)	4 (0.16)	15 (0.59)	4 (0.16)	15 (0.59)	6 (0.24)	15 (0.59)	6 (0.24)
April	59 (2.32)	18 (0.71)	61 (2.40)	24 (0.94)	62 (2.44)	31 (1.22)	64 (2.52)	40 (1.57)	67 (2.64)	48 (1.89)	69 (2.72)	48 (1.89)	69 (2.72)	48 (1.89)	69 (2.72)	54 (2.13)	69 (2.72)	54 (2.13)
May	124 (4.88)	80 (3.15)	126 (4.96)	88 (3.46)	130 (5.12)	95 (3.74)	134 (5.28)	102 (4.02)	138 (5.43)	124 (4.88)	143 (5.63)	124 (4.88)	143 (5.63)	124 (4.88)	143 (5.63)	136 (5.35)	143 (5.63)	136 (5.35)
June	146 (5.75)	109 (4.29)	148 (5.83)	117 (4.61)	151 (5.94)	124 (4.88)	157 (6.18)	131 (5.16)	162 (6.38)	139 (5.47)	165 (6.50)	139 (5.47)	165 (6.50)	139 (5.47)	165 (6.50)	154 (6.06)	165 (6.50)	154 (6.06)
July	130 (5.12)	125 (4.92)	131 (5.16)	128 (5.04)	132 (5.20)	130 (5.12)	133 (5.24)	132 (5.20)	137 (5.39)	135 (5.31)	139 (5.47)	135 (5.31)	139 (5.47)	135 (5.31)	139 (5.47)	138 (5.43)	139 (5.47)	138 (5.43)
Season	471 (18.54)	333 (13.11)	479 (18.86)	358 (14.09)	488 (19.21)	381 (15.00)	502 (19.77)	406 (15.99)	519 (20.43)	450 (17.71)	531 (20.91)	450 (17.71)	531 (20.91)	450 (17.71)	531 (20.91)	488 (19.21)	531 (20.91)	488 (19.21)

REGION: 15 Milton-Freewater  
CROP: Plums

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.
March	30 (1.18)	1 (0.04)	32 (1.26)	2 (0.08)	33 (1.30)	2 (0.08)	35 (1.38)	2 (0.08)	38 (1.50)	2 (0.08)	39 (1.54)	2 (0.08)	39 (1.54)	2 (0.08)	39 (1.54)	17 (0.67)	39 (1.54)	17 (0.67)
April	69 (2.72)	27 (1.06)	70 (2.76)	33 (1.30)	72 (2.83)	41 (1.61)	74 (2.91)	51 (2.01)	80 (3.15)	59 (2.32)	83 (3.27)	59 (2.32)	83 (3.27)	59 (2.32)	83 (3.27)	65 (2.56)	83 (3.27)	65 (2.56)
May	111 (4.37)	69 (2.72)	112 (4.41)	75 (2.95)	116 (4.57)	82 (3.23)	119 (4.69)	90 (3.54)	123 (4.84)	110 (4.33)	128 (5.04)	110 (4.33)	128 (5.04)	110 (4.33)	128 (5.04)	121 (4.76)	128 (5.04)	121 (4.76)
June	142 (5.59)	107 (4.21)	144 (5.67)	114 (4.49)	147 (5.79)	121 (4.76)	153 (6.02)	128 (5.04)	157 (6.18)	136 (5.35)	162 (6.38)	136 (5.35)	162 (6.38)	136 (5.35)	162 (6.38)	151 (5.94)	162 (6.38)	151 (5.94)
July	214 (8.43)	204 (8.03)	216 (8.50)	209 (8.23)	218 (8.58)	213 (8.39)	220 (8.66)	217 (8.54)	225 (8.86)	222 (8.74)	230 (9.06)	222 (8.74)	230 (9.06)	222 (8.74)	230 (9.06)	227 (8.94)	230 (9.06)	227 (8.94)
Aug	174 (6.85)	163 (6.42)	176 (6.93)	169 (6.65)	179 (7.05)	174 (6.85)	181 (7.13)	178 (7.01)	186 (7.32)	183 (7.20)	192 (7.56)	183 (7.20)	192 (7.56)	183 (7.20)	192 (7.56)	187 (7.36)	192 (7.56)	187 (7.36)
Sep	109 (4.29)	80 (3.15)	112 (4.41)	87 (3.43)	114 (4.49)	95 (3.74)	117 (4.61)	110 (4.33)	121 (4.76)	116 (4.57)	124 (4.88)	116 (4.57)	124 (4.88)	116 (4.57)	124 (4.88)	119 (4.69)	124 (4.88)	119 (4.69)
Oct	47 (1.85)	10 (0.39)	48 (1.89)	17 (0.67)	50 (1.97)	21 (0.83)	52 (2.05)	30 (1.18)	53 (2.09)	39 (1.54)	54 (2.13)	39 (1.54)	54 (2.13)	39 (1.54)	54 (2.13)	48 (1.89)	54 (2.13)	48 (1.89)
Nov	8 (0.31)	1 (0.04)	10 (0.39)	1 (0.04)	11 (0.43)	1 (0.04)	11 (0.43)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)
Season	904 (35.59)	662 (26.06)	920 (36.22)	707 (27.84)	940 (37.01)	750 (29.53)	962 (37.88)	807 (31.77)	996 (39.21)	878 (34.56)	1025 (40.37)	878 (34.56)	1025 (40.37)	878 (34.56)	1025 (40.37)	936 (36.85)	1025 (40.37)	936 (36.85)



REGION: 15 Milton-Freewater  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	24 (0.94)	2 (0.08)	24 (0.94)	3 (0.12)	25 (0.98)	8 (0.31)	26 (1.02)	13 (0.51)	27 (1.06)	18 (0.71)	28 (1.10)	21 (0.83)						
May	61 (2.40)	26 (1.02)	62 (2.44)	31 (1.22)	63 (2.48)	37 (1.46)	64 (2.52)	43 (1.69)	66 (2.60)	57 (2.24)	68 (2.68)	62 (2.44)						
June	123 (4.84)	92 (3.62)	125 (4.92)	98 (3.86)	128 (5.04)	104 (4.09)	131 (5.16)	109 (4.29)	135 (5.31)	116 (4.57)	138 (5.43)	128 (5.04)						
July	216 (8.50)	206 (8.11)	218 (8.58)	210 (8.27)	220 (8.66)	215 (8.46)	222 (8.74)	219 (8.62)	227 (8.94)	224 (8.82)	232 (9.13)	228 (8.98)						
Aug	176 (6.93)	166 (6.54)	178 (7.01)	171 (6.73)	181 (7.13)	176 (6.93)	183 (7.20)	181 (7.13)	188 (7.40)	185 (7.28)	194 (7.64)	190 (7.48)						
Sep	94 (3.70)	67 (2.64)	96 (3.78)	74 (2.91)	99 (3.90)	82 (3.23)	101 (3.98)	93 (3.66)	104 (4.09)	100 (3.94)	107 (4.21)	103 (4.06)						
Season	694 (27.31)	559 (22.01)	703 (27.67)	587 (23.11)	716 (28.19)	622 (24.48)	727 (28.62)	658 (25.90)	747 (29.40)	700 (27.56)	767 (30.19)	732 (28.83)						

REGION: 15 Milton-Freewater  
CROP: Tomatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	50 (1.97)	14 (0.55)	51 (2.01)	19 (0.75)	51 (2.01)	25 (0.98)	52 (2.05)	32 (1.26)	54 (2.13)	45 (1.77)	55 (2.17)	49 (1.93)						
June	124 (4.88)	90 (3.54)	126 (4.96)	97 (3.82)	129 (5.08)	103 (4.06)	133 (5.24)	109 (4.29)	137 (5.39)	116 (4.57)	140 (5.51)	130 (5.12)						
July	217 (8.54)	211 (8.31)	220 (8.66)	216 (8.50)	223 (8.78)	221 (8.70)	227 (8.94)	225 (8.86)	233 (9.17)	229 (9.02)	238 (9.37)	235 (9.25)						
Aug	92 (3.62)	86 (3.39)	93 (3.66)	89 (3.50)	94 (3.70)	92 (3.62)	95 (3.74)	94 (3.70)	98 (3.86)	96 (3.78)	101 (3.98)	99 (3.90)						
Season	483 (19.01)	401 (15.79)	490 (19.29)	421 (16.57)	497 (19.57)	441 (17.36)	507 (19.97)	460 (18.11)	522 (20.55)	486 (19.14)	534 (21.03)	513 (20.20)						

REGION: 16 Madras-Redmond  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	56 (2.20)	47 (1.85)	57 (2.24)	49 (1.93)	58 (2.28)	50 (1.97)	60 (2.36)	56 (2.20)	63 (2.48)	60 (2.36)	65 (2.56)	62 (2.44)						
May	114 (4.49)	91 (3.58)	116 (4.57)	96 (3.78)	117 (4.61)	100 (3.94)	120 (4.72)	104 (4.09)	125 (4.92)	109 (4.29)	130 (5.12)	114 (4.49)						
June	136 (5.35)	111 (4.37)	137 (5.39)	117 (4.61)	138 (5.43)	123 (4.84)	140 (5.51)	129 (5.08)	146 (5.75)	137 (5.39)	148 (5.83)	143 (5.63)						
July	167 (6.57)	159 (6.26)	168 (6.61)	162 (6.38)	169 (6.65)	165 (6.50)	171 (6.73)	168 (6.61)	173 (6.81)	173 (6.81)	175 (6.89)	175 (6.89)						
Aug	131 (5.16)	127 (5.00)	134 (5.28)	129 (5.08)	137 (5.39)	131 (5.16)	140 (5.51)	135 (5.31)	145 (5.71)	142 (5.59)	149 (5.87)	146 (5.75)						
Sep	97 (3.82)	84 (3.31)	99 (3.90)	87 (3.43)	101 (3.98)	92 (3.62)	103 (4.06)	97 (3.82)	106 (4.17)	102 (4.02)	108 (4.25)	104 (4.09)						
Season	701 (27.59)	619 (24.37)	711 (27.99)	640 (25.21)	720 (28.34)	661 (26.03)	734 (28.89)	689 (27.11)	758 (29.84)	723 (28.46)	775 (30.52)	744 (29.29)						

REGION: 16 Madras-Redmond  
CROP: Corn (Silage)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	57 (2.24)	41 (1.61)	57 (2.24)	45 (1.77)	58 (2.28)	47 (1.85)	59 (2.32)	50 (1.97)	60 (2.36)	52 (2.05)	62 (2.44)	55 (2.17)						
June	122 (4.80)	98 (3.86)	124 (4.88)	105 (4.13)	125 (4.92)	112 (4.41)	127 (5.00)	118 (4.65)	132 (5.20)	125 (4.92)	135 (5.31)	131 (5.16)						
July	201 (7.91)	192 (7.56)	202 (7.95)	196 (7.72)	204 (8.03)	200 (7.87)	205 (8.07)	204 (8.03)	208 (8.19)	208 (8.19)	211 (8.31)	211 (8.31)						
Aug	161 (6.34)	155 (6.10)	164 (6.46)	159 (6.26)	168 (6.61)	162 (6.38)	171 (6.73)	166 (6.54)	178 (7.01)	174 (6.85)	184 (7.24)	179 (7.05)						
Sep	113 (4.45)	98 (3.86)	115 (4.53)	103 (4.06)	117 (4.61)	108 (4.25)	120 (4.72)	112 (4.41)	124 (4.88)	119 (4.69)	126 (4.96)	122 (4.80)						
Season	654 (25.74)	584 (22.99)	662 (26.06)	608 (23.94)	672 (26.45)	629 (24.76)	682 (26.84)	650 (25.60)	702 (27.64)	678 (26.70)	718 (28.26)	698 (27.49)						

REGION: 16 Madras-Redmond  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	55 (2.17)	42 (1.65)	56 (2.20)	45 (1.77)	58 (2.28)	48 (1.89)	59 (2.32)	54 (2.13)	62 (2.44)	57 (2.24)	64 (2.52)	59 (2.32)	64 (2.52)	59 (2.32)	147 (5.79)	131 (5.16)		
May	130 (5.12)	107 (4.21)	132 (5.20)	110 (4.33)	134 (5.28)	114 (4.49)	137 (5.39)	120 (4.72)	142 (5.59)	127 (5.00)	147 (5.79)	131 (5.16)	147 (5.79)	131 (5.16)	180 (7.09)	174 (6.85)		
June	165 (6.50)	137 (5.39)	169 (6.65)	145 (5.71)	170 (6.69)	152 (5.98)	172 (6.77)	158 (6.22)	178 (7.01)	167 (6.57)	180 (7.09)	174 (6.85)	180 (7.09)	174 (6.85)	191 (7.52)	191 (7.52)		
July	182 (7.17)	173 (6.81)	183 (7.20)	177 (6.97)	184 (7.24)	180 (7.09)	186 (7.32)	183 (7.20)	188 (7.40)	188 (7.40)	191 (7.52)	191 (7.52)	191 (7.52)	191 (7.52)	35 (1.38)	35 (1.38)		
Aug	32 (1.26)	30 (1.18)	32 (1.26)	31 (1.22)	32 (1.26)	32 (1.26)	33 (1.30)	32 (1.26)	34 (1.34)	34 (1.34)	35 (1.38)	35 (1.38)	35 (1.38)	35 (1.38)	617 (24.30)	590 (23.23)		
Season	564 (22.22)	489 (19.24)	572 (22.51)	508 (20.00)	578 (22.75)	526 (20.71)	587 (23.10)	547 (21.53)	604 (23.78)	573 (22.55)	617 (24.30)	590 (23.23)	617 (24.30)	590 (23.23)				

REGION: 16 Madras-Redmond  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	17 (0.67)	9 (0.35)	17 (0.67)	10 (0.39)	18 (0.71)	12 (0.47)	18 (0.71)	13 (0.51)	19 (0.75)	15 (0.59)	20 (0.79)	16 (0.63)	20 (0.79)	16 (0.63)	83 (3.27)	77 (3.03)		
April	71 (2.80)	58 (2.28)	72 (2.85)	61 (2.40)	75 (2.95)	65 (2.56)	78 (3.07)	69 (2.72)	81 (3.19)	75 (2.95)	83 (3.27)	77 (3.03)	83 (3.27)	77 (3.03)	157 (6.18)	138 (5.43)		
May	138 (5.43)	115 (4.53)	140 (5.51)	118 (4.65)	142 (5.59)	122 (4.80)	145 (5.71)	127 (5.00)	151 (5.94)	133 (5.24)	157 (6.18)	138 (5.43)	157 (6.18)	138 (5.43)	180 (7.09)	174 (6.85)		
June	165 (6.50)	137 (5.39)	169 (6.65)	145 (5.71)	170 (6.69)	152 (5.98)	172 (6.77)	158 (6.22)	178 (7.01)	167 (6.57)	180 (7.09)	174 (6.85)	180 (7.09)	174 (6.85)	193 (7.60)	193 (7.60)		
July	184 (7.24)	175 (6.89)	185 (7.28)	178 (7.01)	186 (7.32)	182 (7.17)	187 (7.36)	185 (7.28)	190 (7.48)	190 (7.48)	193 (7.60)	193 (7.60)	193 (7.60)	193 (7.60)	20 (0.79)	20 (0.79)		
Aug	18 (0.71)	18 (0.71)	19 (0.75)	18 (0.71)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	653 (25.72)	618 (24.33)		
Season	593 (23.35)	512 (20.15)	602 (23.69)	530 (20.87)	610 (24.01)	552 (21.73)	619 (24.37)	571 (22.48)	639 (25.16)	600 (23.62)	653 (25.72)	618 (24.33)	653 (25.72)	618 (24.33)				

REGION: 16 Madras-Redmond  
CROP: Grass Seed (Fall)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	Net mm	ET crop in.	Net IRR in.	Net mm	ET crop in.	Net IRR in.	Net mm	ET crop in.	Net IRR in.	Net mm	ET crop in.	Net IRR in.	Net mm	ET crop in.	Net IRR in.	
Jan	4 (0.16)	0 (0.00)	0 (0.24)	6 (0.24)	0 (0.00)	7 (0.28)	0 (0.00)	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)	
Feb	14 (0.55)	1 (0.04)	15 (0.59)	15 (0.59)	1 (0.04)	17 (0.67)	2 (0.08)	18 (0.71)	5 (0.20)	20 (0.79)	10 (0.39)	22 (0.87)	15 (0.59)	22 (0.87)	15 (0.59)	22 (0.87)	15 (0.59)	
March	40 (1.57)	23 (0.91)	42 (1.65)	42 (1.65)	25 (0.98)	44 (1.73)	28 (1.10)	46 (1.81)	32 (1.26)	49 (1.93)	35 (1.38)	51 (2.01)	39 (1.54)	51 (2.01)	39 (1.54)	51 (2.01)	39 (1.54)	
April	87 (3.43)	74 (2.91)	90 (3.54)	90 (3.54)	76 (2.99)	93 (3.66)	79 (3.11)	96 (3.78)	87 (3.43)	100 (3.94)	92 (3.62)	104 (4.09)	96 (3.78)	104 (4.09)	96 (3.78)	104 (4.09)	96 (3.78)	
May	139 (5.47)	115 (4.53)	141 (5.55)	141 (5.55)	119 (4.69)	143 (5.63)	124 (4.88)	146 (5.75)	130 (5.12)	152 (5.98)	136 (5.35)	158 (6.22)	140 (5.51)	158 (6.22)	140 (5.51)	158 (6.22)	140 (5.51)	
June	165 (6.50)	139 (5.47)	167 (6.57)	167 (6.57)	147 (5.79)	169 (6.65)	153 (6.02)	171 (6.73)	158 (6.22)	179 (7.05)	167 (6.57)	181 (7.13)	174 (6.85)	181 (7.13)	174 (6.85)	181 (7.13)	174 (6.85)	
July	204 (8.03)	194 (7.64)	205 (8.07)	205 (8.07)	198 (7.80)	206 (8.11)	202 (7.95)	208 (8.19)	206 (8.11)	211 (8.31)	211 (8.31)	214 (8.43)	214 (8.43)	214 (8.43)	214 (8.43)	214 (8.43)	214 (8.43)	
Aug	143 (5.63)	138 (5.43)	146 (5.75)	146 (5.75)	141 (5.55)	149 (5.87)	144 (5.67)	152 (5.98)	148 (5.83)	158 (6.22)	155 (6.10)	163 (6.42)	160 (6.30)	163 (6.42)	160 (6.30)	163 (6.42)	160 (6.30)	
Sep	47 (1.85)	31 (1.22)	48 (1.89)	48 (1.89)	34 (1.34)	55 (2.17)	48 (1.89)	57 (2.24)	52 (2.05)	58 (2.28)	55 (2.17)	59 (2.32)	57 (2.24)	59 (2.32)	57 (2.24)	59 (2.32)	57 (2.24)	
Oct	15 (0.59)	1 (0.04)	16 (0.63)	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	4 (0.16)	20 (0.79)	9 (0.35)	20 (0.79)	12 (0.47)	20 (0.79)	12 (0.47)	20 (0.79)	12 (0.47)	
Nov	2 (0.08)	0 (0.00)	2 (0.08)	2 (0.08)	0 (0.00)	4 (0.16)	0 (0.00)	4 (0.16)	0 (0.00)	7 (0.28)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	
Dec	2 (0.08)	0 (0.00)	2 (0.08)	2 (0.08)	0 (0.00)	4 (0.16)	0 (0.00)	4 (0.16)	0 (0.00)	7 (0.28)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	
Season	913 (35.95)	758 (29.84)	932 (36.69)	786 (30.95)	953 (37.53)	819 (32.24)	975 (38.38)	863 (33.99)	1016 (40.01)	915 (36.01)	1046 (41.19)	957 (37.68)						

REGION: 16 Madras-Redmond  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	Net mm	ET crop in.	Net IRR in.	Net mm	ET crop in.	Net IRR in.	Net mm	ET crop in.	Net IRR in.	Net mm	ET crop in.	Net IRR in.	Net mm	ET crop in.	Net IRR in.	
Jan	5 (0.20)	0 (0.00)	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	9 (0.35)	0 (0.00)	10 (0.39)	0 (0.00)	12 (0.47)	0 (0.00)	12 (0.47)	0 (0.00)	12 (0.47)	0 (0.00)	12 (0.47)	
Feb	12 (0.47)	1 (0.04)	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	3 (0.12)	16 (0.63)	3 (0.12)	17 (0.67)	11 (0.43)	17 (0.67)	11 (0.43)	17 (0.67)	11 (0.43)	17 (0.67)	
March	19 (0.75)	3 (0.12)	20 (0.79)	3 (0.12)	21 (0.83)	7 (0.28)	22 (0.87)	11 (0.43)	23 (0.91)	14 (0.55)	24 (0.94)	16 (0.63)	24 (0.94)	16 (0.63)	24 (0.94)	16 (0.63)	24 (0.94)	
April	47 (1.85)	34 (1.34)	48 (1.89)	37 (1.46)	49 (1.93)	40 (1.57)	50 (1.97)	45 (1.77)	52 (2.05)	49 (1.93)	54 (2.13)	50 (1.97)	54 (2.13)	50 (1.97)	54 (2.13)	50 (1.97)	54 (2.13)	
May	72 (2.83)	52 (2.05)	73 (2.87)	56 (2.20)	74 (2.91)	60 (2.36)	76 (2.99)	64 (2.52)	77 (3.03)	67 (2.64)	79 (3.11)	71 (2.80)	79 (3.11)	71 (2.80)	79 (3.11)	71 (2.80)	79 (3.11)	
June	114 (4.49)	91 (3.58)	116 (4.57)	98 (3.86)	118 (4.65)	103 (4.06)	120 (4.72)	108 (4.25)	124 (4.88)	115 (4.53)	126 (4.96)	120 (4.72)	126 (4.96)	120 (4.72)	126 (4.96)	120 (4.72)	126 (4.96)	
July	179 (7.05)	171 (6.73)	180 (7.09)	175 (6.89)	182 (7.17)	178 (7.01)	184 (7.24)	181 (7.13)	186 (7.32)	186 (7.32)	189 (7.44)	189 (7.44)	189 (7.44)	189 (7.44)	189 (7.44)	189 (7.44)	189 (7.44)	
Aug	158 (6.22)	151 (5.94)	161 (6.34)	155 (6.10)	164 (6.46)	159 (6.26)	167 (6.57)	164 (6.46)	175 (6.89)	171 (6.73)	180 (7.09)	177 (6.97)	180 (7.09)	177 (6.97)	180 (7.09)	177 (6.97)	180 (7.09)	
Sep	117 (4.61)	103 (4.06)	119 (4.69)	107 (4.21)	122 (4.80)	111 (4.37)	124 (4.88)	115 (4.53)	128 (5.04)	122 (4.80)	130 (5.12)	126 (4.96)	130 (5.12)	126 (4.96)	130 (5.12)	126 (4.96)	130 (5.12)	
Oct	76 (2.99)	58 (2.28)	77 (3.03)	61 (2.40)	79 (3.11)	64 (2.52)	80 (3.15)	67 (2.64)	84 (3.31)	79 (3.11)	86 (3.39)	83 (3.27)	86 (3.39)	83 (3.27)	86 (3.39)	83 (3.27)	86 (3.39)	
Nov	22 (0.87)	2 (0.08)	23 (0.91)	2 (0.08)	27 (1.06)	2 (0.08)	29 (1.14)	17 (0.67)	31 (1.22)	17 (0.67)	32 (1.26)	22 (0.87)	32 (1.26)	22 (0.87)	32 (1.26)	22 (0.87)	32 (1.26)	
Dec	2 (0.08)	0 (0.00)	3 (0.12)	0 (0.00)	5 (0.20)	0 (0.00)	6 (0.24)	0 (0.00)	9 (0.35)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	0 (0.00)	11 (0.43)	
Season	823 (32.41)	666 (26.22)	840 (33.09)	697 (27.44)	863 (33.98)	725 (28.55)	882 (34.71)	768 (30.24)	915 (36.02)	828 (32.59)	940 (37.01)	865 (34.06)						

REGION: 16 Madras-Redmond  
CROP: Mint

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	ET crop mm	Net IRR mm in.	ET crop in.	ET crop mm	Net IRR mm in.	ET crop in.	ET crop mm	Net IRR mm in.	ET crop in.	ET crop mm	Net IRR mm in.	ET crop in.	ET crop mm	Net IRR mm in.	
April	42 (1.65)	30 (1.18)	43 (1.69)	43 (1.69)	33 (1.30)	43 (1.69)	44 (1.73)	39 (1.54)	45 (1.77)	42 (1.65)	47 (1.85)	44 (1.73)	42 (1.65)	47 (1.85)	44 (1.73)	42 (1.65)	47 (1.85)	
May	116 (4.57)	94 (3.70)	118 (4.65)	119 (4.69)	103 (4.06)	122 (4.80)	122 (4.80)	108 (4.25)	126 (4.96)	113 (4.45)	129 (5.08)	116 (4.57)	113 (4.45)	129 (5.08)	116 (4.57)	113 (4.45)	129 (5.08)	
June	170 (6.69)	142 (5.59)	172 (6.77)	173 (6.81)	158 (6.22)	176 (6.93)	176 (6.93)	164 (6.46)	184 (7.24)	173 (6.81)	186 (7.32)	180 (7.09)	173 (6.81)	186 (7.32)	180 (7.09)	173 (6.81)	186 (7.32)	
July	187 (7.36)	177 (6.97)	188 (7.40)	189 (7.44)	180 (7.09)	189 (7.44)	190 (7.48)	187 (7.36)	193 (7.60)	192 (7.56)	196 (7.72)	196 (7.72)	192 (7.56)	196 (7.72)	196 (7.72)	192 (7.56)	196 (7.72)	
Aug	30 (1.18)	29 (1.14)	30 (1.18)	31 (1.22)	30 (1.18)	31 (1.22)	31 (1.22)	31 (1.22)	32 (1.26)	32 (1.26)	33 (1.30)	33 (1.30)	32 (1.26)	33 (1.30)	33 (1.30)	32 (1.26)	33 (1.30)	
Season	545 (21.45)	472 (18.58)	551 (21.69)	555 (21.85)	511 (20.12)	563 (22.16)	563 (22.16)	529 (20.83)	580 (22.83)	552 (21.73)	591 (23.27)	569 (22.41)	552 (21.73)	591 (23.27)	569 (22.41)	552 (21.73)	591 (23.27)	

REGION: 16 Madras-Redmond  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	ET crop mm	Net IRR mm in.	ET crop in.	ET crop mm	Net IRR mm in.	ET crop in.	ET crop mm	Net IRR mm in.	ET crop in.	ET crop mm	Net IRR mm in.	ET crop in.	ET crop mm	Net IRR mm in.	
April	16 (0.63)	14 (0.55)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	17 (0.67)	16 (0.63)	18 (0.71)	17 (0.67)	18 (0.71)	18 (0.71)	17 (0.67)	18 (0.71)	18 (0.71)	17 (0.67)	18 (0.71)	
May	78 (3.07)	62 (2.44)	80 (3.15)	82 (3.23)	68 (2.68)	83 (3.27)	83 (3.27)	72 (2.83)	84 (3.31)	76 (2.99)	86 (3.39)	79 (3.11)	76 (2.99)	86 (3.39)	79 (3.11)	76 (2.99)	86 (3.39)	
June	125 (4.92)	104 (4.09)	127 (5.00)	128 (5.04)	116 (4.57)	130 (5.12)	130 (5.12)	121 (4.76)	135 (5.31)	128 (5.04)	137 (5.39)	133 (5.24)	128 (5.04)	137 (5.39)	133 (5.24)	128 (5.04)	137 (5.39)	
July	185 (7.28)	177 (6.97)	186 (7.32)	187 (7.36)	183 (7.20)	188 (7.40)	188 (7.40)	187 (7.36)	191 (7.52)	191 (7.52)	194 (7.64)	194 (7.64)	191 (7.52)	194 (7.64)	194 (7.64)	191 (7.52)	194 (7.64)	
Aug	145 (5.71)	141 (5.55)	148 (5.83)	151 (5.94)	144 (5.67)	154 (6.06)	154 (6.06)	150 (5.91)	161 (6.34)	157 (6.18)	166 (6.54)	162 (6.38)	157 (6.18)	166 (6.54)	162 (6.38)	157 (6.18)	166 (6.54)	
Sep	46 (1.81)	41 (1.61)	46 (1.81)	47 (1.85)	45 (1.77)	48 (1.89)	48 (1.89)	46 (1.81)	50 (1.97)	49 (1.93)	51 (2.01)	50 (1.97)	49 (1.93)	51 (2.01)	50 (1.97)	49 (1.93)	51 (2.01)	
Season	595 (23.42)	539 (21.21)	603 (23.74)	612 (24.09)	575 (22.64)	620 (24.41)	620 (24.41)	592 (23.30)	639 (25.16)	618 (24.33)	652 (25.68)	636 (25.05)	618 (24.33)	652 (25.68)	636 (25.05)	618 (24.33)	652 (25.68)	

REGION: 16 Madras-Redmond  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years										
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.										
April	54 (2.13)	46 (1.81)	55 (2.17)	48 (1.89)	57 (2.24)	50 (1.97)	58 (2.28)	53 (2.09)	62 (2.44)	59 (2.32)	64 (2.52)	61 (2.40)	120 (4.72)	98 (3.86)	122 (4.80)	103 (4.06)	124 (4.88)	108 (4.25)	128 (5.04)	112 (4.41)	133 (5.24)	117 (4.61)	138 (5.43)	122 (4.80)		
May	144 (5.67)	120 (4.72)	146 (5.75)	128 (5.04)	147 (5.79)	133 (5.24)	149 (5.87)	139 (5.47)	156 (6.14)	146 (5.75)	158 (6.22)	152 (5.98)	178 (7.01)	169 (6.65)	179 (7.05)	173 (6.81)	180 (7.09)	176 (6.93)	182 (7.17)	179 (7.05)	184 (7.24)	183 (7.20)	187 (7.36)	187 (7.36)		
June	141 (5.55)	134 (5.28)	142 (5.59)	137 (5.39)	145 (5.71)	140 (5.51)	149 (5.87)	144 (5.67)	155 (6.10)	151 (5.94)	159 (6.26)	156 (6.14)	103 (4.06)	91 (3.58)	105 (4.13)	94 (3.70)	107 (4.21)	98 (3.86)	110 (4.33)	102 (4.02)	113 (4.45)	109 (4.29)	115 (4.53)	111 (4.37)		
July	52 (2.05)	39 (1.54)	53 (2.09)	41 (1.61)	54 (2.13)	44 (1.73)	55 (2.17)	46 (1.81)	58 (2.28)	54 (2.13)	59 (2.32)	57 (2.24)	792 (31.19)	697 (27.44)	802 (31.58)	724 (28.50)	814 (32.05)	749 (29.49)	831 (32.73)	775 (30.52)	861 (33.89)	819 (32.24)	880 (34.64)	846 (33.29)		
Aug																										
Sep																										
Oct																										

REGION: 16 Madras-Redmond  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years										
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.										
April	36 (1.42)	29 (1.14)	36 (1.42)	31 (1.22)	37 (1.46)	32 (1.26)	38 (1.50)	35 (1.38)	40 (1.57)	37 (1.46)	41 (1.61)	39 (1.54)	123 (4.84)	101 (3.98)	126 (4.96)	105 (4.13)	128 (5.04)	109 (4.29)	130 (5.12)	114 (4.49)	135 (5.31)	119 (4.69)	138 (5.43)	124 (4.88)		
May	164 (6.46)	134 (5.28)	166 (6.54)	142 (5.59)	168 (6.61)	152 (5.98)	170 (6.69)	157 (6.18)	178 (7.01)	167 (6.57)	180 (7.09)	173 (6.81)	157 (6.18)	152 (5.98)	168 (6.61)	152 (5.98)	170 (6.69)	157 (6.18)	178 (7.01)	167 (6.57)	180 (7.09)	167 (6.57)	180 (7.09)	173 (6.81)		
June	157 (6.18)	152 (5.98)	158 (6.22)	155 (6.10)	159 (6.26)	157 (6.18)	161 (6.34)	160 (6.30)	163 (6.42)	163 (6.42)	165 (6.50)	165 (6.50)	480 (18.90)	416 (16.38)	486 (19.14)	433 (17.04)	492 (19.37)	450 (17.71)	499 (19.65)	466 (18.35)	516 (20.31)	486 (19.14)	524 (20.63)	501 (19.73)		
July																										
Season																										

REGION: 16 Madras-Redmond  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
May	25 (0.98)	16 (0.63)	20 (0.79)	26 (1.02)	21 (0.83)	26 (1.02)	23 (0.91)	27 (1.06)	24 (0.94)	28 (1.10)	24 (0.94)	28 (1.10)	24 (0.94)	28 (1.10)	24 (0.94)	28 (1.10)	24 (0.94)	
June	85 (3.35)	65 (2.56)	69 (2.72)	87 (3.43)	76 (2.99)	88 (3.46)	81 (3.19)	91 (3.58)	86 (3.39)	93 (3.66)	89 (3.50)	93 (3.66)	89 (3.50)	93 (3.66)	89 (3.50)	93 (3.66)	89 (3.50)	
July	198 (7.80)	190 (7.48)	199 (7.83)	199 (7.83)	194 (7.64)	201 (7.91)	198 (7.80)	202 (7.95)	205 (8.07)	208 (8.19)	208 (8.19)	208 (8.19)	208 (8.19)	208 (8.19)	208 (8.19)	208 (8.19)	208 (8.19)	
Aug	161 (6.34)	156 (6.14)	164 (6.46)	168 (6.61)	162 (6.26)	171 (6.73)	166 (6.54)	178 (7.01)	174 (6.85)	184 (7.24)	180 (7.09)	184 (7.24)	180 (7.09)	184 (7.24)	180 (7.09)	184 (7.24)	180 (7.09)	
Sep	111 (4.37)	97 (3.82)	113 (4.45)	115 (4.53)	106 (4.17)	118 (4.65)	110 (4.33)	121 (4.76)	117 (4.61)	123 (4.84)	120 (4.72)	123 (4.84)	120 (4.72)	123 (4.84)	120 (4.72)	123 (4.84)	120 (4.72)	
Oct	27 (1.06)	20 (0.79)	27 (1.06)	28 (1.10)	24 (0.94)	29 (1.14)	26 (1.02)	31 (1.22)	28 (1.10)	32 (1.26)	30 (1.18)	32 (1.26)	30 (1.18)	32 (1.26)	30 (1.18)	32 (1.26)	30 (1.18)	
Season	607 (23.90)	544 (21.42)	615 (24.21)	625 (24.60)	587 (23.11)	634 (24.95)	607 (23.90)	653 (25.70)	634 (24.96)	668 (26.29)	651 (25.62)	668 (26.29)	651 (25.62)	668 (26.29)	651 (25.62)	668 (26.29)	651 (25.62)	

REGION: 17 Bend  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
April	47 (1.85)	26 (1.02)	30 (1.18)	49 (1.93)	32 (1.26)	51 (2.01)	37 (1.46)	54 (2.13)	44 (1.73)	56 (2.20)	49 (1.93)	56 (2.20)	49 (1.93)	56 (2.20)	49 (1.93)	56 (2.20)	49 (1.93)	
May	100 (3.94)	72 (2.83)	101 (3.98)	103 (4.06)	79 (3.11)	108 (4.25)	84 (3.31)	112 (4.41)	92 (3.62)	113 (4.45)	96 (3.78)	113 (4.45)	96 (3.78)	113 (4.45)	96 (3.78)	113 (4.45)	96 (3.78)	
June	121 (4.76)	95 (3.74)	123 (4.84)	126 (4.96)	109 (4.29)	130 (5.12)	115 (4.53)	135 (5.31)	121 (4.76)	140 (5.51)	125 (4.92)	140 (5.51)	125 (4.92)	140 (5.51)	125 (4.92)	140 (5.51)	125 (4.92)	
July	149 (5.87)	140 (5.51)	152 (5.98)	155 (6.10)	147 (5.79)	157 (6.18)	150 (5.91)	160 (6.30)	154 (6.06)	162 (6.38)	159 (6.26)	162 (6.38)	159 (6.26)	162 (6.38)	159 (6.26)	162 (6.38)	159 (6.26)	
Aug	118 (4.65)	108 (4.25)	119 (4.69)	121 (4.76)	117 (4.61)	124 (4.88)	120 (4.72)	130 (5.12)	123 (4.84)	133 (5.24)	127 (5.00)	133 (5.24)	127 (5.00)	133 (5.24)	127 (5.00)	133 (5.24)	127 (5.00)	
Sep	83 (3.27)	68 (2.68)	87 (3.43)	91 (3.58)	75 (2.95)	93 (3.66)	80 (3.15)	96 (3.78)	91 (3.58)	98 (3.86)	94 (3.70)	96 (3.78)	91 (3.58)	98 (3.86)	94 (3.70)	98 (3.86)	94 (3.70)	
Season	618 (24.34)	509 (20.03)	630 (24.81)	645 (25.39)	559 (22.01)	663 (26.10)	586 (23.08)	687 (27.05)	625 (24.59)	702 (27.64)	650 (25.59)	687 (27.05)	650 (25.59)	702 (27.64)	650 (25.59)	702 (27.64)	650 (25.59)	

REGION: 17 Bend  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	30 (1.18)	18 (0.71)	31 (1.22)	20 (0.79)	31 (1.22)	22 (0.87)	32 (1.26)	24 (0.94)	32 (1.26)	27 (1.06)	33 (1.30)	29 (1.14)	33 (1.30)	27 (1.06)	33 (1.30)	29 (1.14)		
June	95 (3.74)	69 (2.72)	97 (3.82)	76 (2.99)	99 (3.90)	83 (3.27)	101 (3.98)	88 (3.46)	104 (4.09)	94 (3.70)	108 (4.25)	97 (3.82)	108 (4.25)	94 (3.70)	108 (4.25)	97 (3.82)		
July	171 (6.73)	161 (6.34)	173 (6.81)	164 (6.46)	176 (6.93)	168 (6.61)	178 (7.01)	177 (6.77)	182 (7.17)	177 (6.97)	185 (7.28)	182 (7.17)	185 (7.28)	177 (6.97)	185 (7.28)	182 (7.17)		
Aug	145 (5.71)	134 (5.28)	146 (5.75)	139 (5.47)	148 (5.83)	143 (5.63)	152 (5.98)	148 (5.83)	159 (6.26)	152 (5.98)	163 (6.42)	157 (6.18)	163 (6.42)	152 (5.98)	163 (6.42)	157 (6.18)		
Sep	16 (0.63)	15 (0.59)	16 (0.63)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	17 (0.67)	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)		
Season	457 (17.99)	397 (15.64)	463 (18.23)	415 (16.34)	471 (18.55)	432 (17.01)	480 (18.90)	449 (17.67)	495 (19.49)	468 (18.42)	507 (19.96)	483 (19.02)	507 (19.96)	468 (18.42)	507 (19.96)	483 (19.02)		

REGION: 17 Bend  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	48 (1.89)	19 (0.75)	49 (1.93)	25 (0.98)	50 (1.97)	28 (1.10)	52 (2.05)	31 (1.22)	54 (2.13)	41 (1.61)	55 (2.17)	46 (1.81)	55 (2.17)	41 (1.61)	55 (2.17)	46 (1.81)		
May	114 (4.49)	86 (3.39)	115 (4.53)	90 (3.54)	118 (4.65)	93 (3.66)	123 (4.84)	98 (3.86)	127 (5.00)	106 (4.17)	129 (5.08)	111 (4.37)	129 (5.08)	106 (4.17)	129 (5.08)	111 (4.37)		
June	146 (5.75)	119 (4.69)	153 (6.02)	125 (4.92)	155 (6.10)	136 (5.35)	158 (6.22)	144 (5.67)	165 (6.50)	150 (5.91)	169 (6.65)	155 (6.10)	169 (6.65)	150 (5.91)	169 (6.65)	155 (6.10)		
July	163 (6.42)	153 (6.02)	166 (6.54)	157 (6.18)	169 (6.65)	161 (6.34)	171 (6.73)	164 (6.46)	173 (6.81)	170 (6.69)	177 (6.97)	174 (6.85)	177 (6.97)	170 (6.69)	177 (6.97)	174 (6.85)		
Aug	28 (1.10)	26 (1.02)	29 (1.14)	27 (1.06)	29 (1.14)	28 (1.10)	29 (1.14)	29 (1.14)	31 (1.22)	31 (1.22)	31 (1.22)	31 (1.22)	31 (1.22)	31 (1.22)	31 (1.22)	31 (1.22)		
Season	499 (19.65)	403 (15.87)	512 (20.16)	424 (16.68)	521 (20.51)	446 (17.55)	533 (20.98)	466 (18.35)	550 (21.66)	498 (19.60)	561 (22.09)	517 (20.35)	561 (22.09)	498 (19.60)	561 (22.09)	517 (20.35)		



REGION: 17 Bend  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	5 (0.20)	18 (0.71)	9 (0.35)						
April	60 (2.36)	30 (1.18)	62 (2.44)	35 (1.38)	63 (2.48)	39 (1.54)	66 (2.60)	44 (1.73)	69 (2.72)	53 (2.09)	72 (2.83)	62 (2.44)						
May	121 (4.76)	92 (3.62)	122 (4.80)	96 (3.78)	125 (4.92)	100 (3.94)	130 (5.12)	104 (4.09)	135 (5.31)	114 (4.49)	137 (5.39)	119 (4.69)						
June	146 (5.75)	119 (4.69)	153 (6.02)	125 (4.92)	155 (6.10)	136 (5.35)	158 (6.22)	144 (5.67)	165 (6.50)	150 (5.91)	169 (6.65)	155 (6.10)						
July	164 (6.46)	155 (6.10)	167 (6.57)	159 (6.26)	170 (6.69)	162 (6.38)	173 (6.81)	165 (6.50)	176 (6.93)	170 (6.69)	178 (7.01)	175 (6.89)						
Aug	16 (0.63)	15 (0.59)	17 (0.67)	15 (0.59)	17 (0.67)	16 (0.63)	17 (0.63)	16 (0.63)	18 (0.71)	17 (0.67)	18 (0.71)	18 (0.71)						
Season	520 (20.47)	412 (16.22)	535 (21.05)	431 (16.97)	545 (21.45)	454 (17.88)	560 (22.05)	474 (18.66)	580 (22.84)	509 (20.05)	592 (23.30)	538 (21.18)						

REGION: 17 Bend  
CROP: Mint

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)						
April	39 (1.54)	10 (0.39)	40 (1.57)	14 (0.55)	41 (1.61)	19 (0.75)	42 (1.65)	24 (0.94)	44 (1.73)	30 (1.18)	46 (1.81)	36 (1.42)						
May	106 (4.17)	78 (3.07)	108 (4.25)	81 (3.19)	110 (4.33)	85 (3.35)	114 (4.49)	88 (3.46)	118 (4.65)	96 (3.78)	120 (4.72)	101 (3.98)						
June	151 (5.94)	124 (4.88)	154 (6.06)	130 (5.12)	157 (6.18)	141 (5.55)	163 (6.42)	148 (5.83)	170 (6.69)	155 (6.10)	174 (6.85)	160 (6.30)						
July	162 (6.38)	153 (6.02)	165 (6.50)	157 (6.18)	168 (6.61)	160 (6.30)	171 (6.73)	163 (6.42)	174 (6.85)	168 (6.61)	176 (6.93)	173 (6.81)						
Aug	20 (0.79)	19 (0.75)	20 (0.79)	19 (0.75)	20 (0.79)	20 (0.79)	21 (0.83)	20 (0.79)	22 (0.87)	21 (0.83)	22 (0.87)	22 (0.87)						
Season	479 (18.86)	385 (15.15)	488 (19.21)	402 (15.83)	497 (19.56)	426 (16.78)	512 (20.16)	444 (17.48)	529 (20.83)	471 (18.54)	539 (21.22)	493 (19.42)						

REGION: 17 Bend  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.						
April	45 (1.77)	26 (1.02)	46 (1.81)	30 (1.18)	47 (1.85)	34 (1.34)	49 (1.93)	37 (1.46)	53 (2.09)	43 (1.69)	54 (2.13)	48 (1.89)	106 (4.17)	78 (3.07)	108 (4.25)	82 (3.23)	110 (4.33)	85 (3.35)	114 (4.49)	89 (3.50)	118 (4.65)	99 (3.90)	120 (4.72)	103 (4.06)
May	129 (5.08)	102 (4.02)	131 (5.16)	109 (4.29)	134 (5.28)	118 (4.65)	139 (5.47)	124 (4.88)	143 (5.63)	130 (5.12)	148 (5.83)	134 (5.28)	159 (6.26)	150 (5.91)	162 (6.38)	153 (6.02)	165 (6.50)	156 (6.14)	167 (6.57)	160 (6.30)	169 (6.65)	164 (6.46)	172 (6.77)	169 (6.65)
June	124 (4.88)	115 (4.53)	126 (4.96)	119 (4.69)	129 (5.08)	124 (4.88)	133 (5.24)	128 (5.04)	139 (5.47)	132 (5.20)	142 (5.59)	136 (5.35)	89 (3.50)	74 (2.91)	93 (3.66)	77 (3.03)	98 (3.86)	86 (3.39)	100 (3.94)	86 (3.39)	103 (4.06)	98 (3.86)	105 (4.13)	101 (3.98)
July	45 (1.77)	18 (0.71)	47 (1.85)	22 (0.87)	48 (1.89)	30 (1.18)	50 (1.97)	35 (1.38)	52 (2.05)	41 (1.61)	53 (2.09)	48 (1.89)	697 (27.43)	563 (22.17)	713 (28.07)	592 (23.31)	731 (28.79)	628 (24.73)	752 (29.61)	659 (25.95)	777 (30.60)	707 (27.84)	794 (31.26)	741 (29.18)
Aug																								
Sep																								
Oct																								

REGION: 17 Bend  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.						
April	31 (1.22)	12 (0.47)	31 (1.22)	16 (0.63)	32 (1.26)	19 (0.75)	33 (1.30)	21 (0.83)	35 (1.38)	26 (1.02)	36 (1.42)	31 (1.22)	109 (4.29)	80 (3.15)	111 (4.37)	84 (3.31)	114 (4.49)	87 (3.43)	117 (4.61)	90 (3.54)	121 (4.76)	100 (3.94)	123 (4.84)	105 (4.13)
May	146 (5.75)	118 (4.65)	152 (5.98)	124 (4.88)	154 (6.06)	135 (5.31)	157 (6.18)	143 (5.63)	164 (6.46)	149 (5.87)	168 (6.61)	154 (6.06)	146 (5.55)	134 (5.28)	144 (5.67)	137 (5.39)	146 (5.75)	140 (5.51)	148 (5.83)	143 (5.63)	149 (5.87)	147 (5.79)	153 (6.02)	151 (5.94)
June	141 (5.55)	134 (5.28)	144 (5.67)	137 (5.39)	146 (5.75)	140 (5.51)	148 (5.83)	143 (5.63)	149 (5.87)	147 (5.79)	153 (6.02)	151 (5.94)	427 (16.81)	344 (13.55)	438 (17.24)	361 (14.21)	446 (17.56)	381 (15.00)	455 (17.92)	397 (15.63)	469 (18.47)	422 (16.62)	480 (18.89)	441 (17.35)
July																								
Aug																								
Sep																								
Oct																								

REGION: 17 Bend  
CROP: Potatoes

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
May	23 (0.91)	13 (0.51)	24 (0.94)	14 (0.55)	24 (0.94)	16 (0.63)	25 (0.98)	18 (0.71)	25 (0.98)	20 (0.79)	26 (1.02)	22 (0.87)
June	79 (3.11)	56 (2.20)	81 (3.19)	63 (2.48)	82 (3.23)	68 (2.68)	83 (3.27)	72 (2.83)	87 (3.43)	77 (3.03)	89 (3.50)	79 (3.11)
July	178 (7.01)	169 (6.65)	181 (7.13)	173 (6.81)	184 (7.24)	176 (6.93)	187 (7.36)	180 (7.09)	190 (7.48)	184 (7.24)	192 (7.56)	189 (7.44)
Aug	145 (5.71)	135 (5.31)	146 (5.75)	139 (5.47)	148 (5.83)	144 (5.67)	152 (5.98)	148 (5.83)	159 (6.26)	153 (6.02)	163 (6.42)	157 (6.18)
Sep	95 (3.74)	81 (3.19)	99 (3.90)	84 (3.31)	104 (4.09)	87 (3.43)	106 (4.17)	93 (3.66)	110 (4.33)	105 (4.13)	112 (4.41)	108 (4.25)
Oct	23 (0.91)	9 (0.35)	24 (0.94)	11 (0.43)	25 (0.98)	16 (0.63)	26 (1.02)	18 (0.71)	27 (1.06)	21 (0.83)	28 (1.10)	26 (1.02)
Season	543 (21.39)	463 (18.21)	555 (21.85)	484 (19.05)	567 (22.31)	507 (19.97)	579 (22.78)	529 (20.83)	598 (23.54)	560 (22.04)	610 (24.01)	581 (22.87)

REGION: 18 Klamath  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years										
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.										
May	58 (2.28)	45 (1.77)	60 (2.36)	48 (1.89)	61 (2.40)	51 (2.01)	63 (2.48)	55 (2.17)	66 (2.60)	58 (2.28)	68 (2.68)	64 (2.52)	130 (5.12)	108 (4.25)	132 (5.20)	115 (4.53)	133 (5.24)	121 (4.76)	137 (5.39)	126 (4.96)	141 (5.55)	134 (5.28)	144 (5.67)	139 (5.47)		
June	167 (6.57)	161 (6.34)	169 (6.65)	165 (6.50)	172 (6.77)	168 (6.61)	176 (6.93)	172 (6.77)	185 (7.28)	180 (7.09)	191 (7.52)	185 (7.28)	131 (5.16)	125 (4.92)	133 (5.24)	129 (5.08)	136 (5.35)	132 (5.20)	140 (5.51)	136 (5.35)	142 (5.59)	146 (5.75)	146 (5.75)	146 (5.75)	146 (5.75)	
Season	486 (19.13)	439 (17.28)	494 (19.45)	457 (18.00)	502 (19.76)	472 (18.58)	516 (20.31)	489 (19.25)	534 (21.02)	514 (20.24)	549 (21.62)	534 (21.02)														

REGION: 18 Klamath  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years										
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.										
May	41 (1.61)	26 (1.02)	42 (1.65)	29 (1.14)	43 (1.69)	31 (1.22)	44 (1.73)	34 (1.34)	45 (1.77)	39 (1.54)	46 (1.81)	43 (1.69)	117 (4.61)	95 (3.74)	119 (4.69)	101 (3.98)	121 (4.76)	107 (4.21)	124 (4.88)	113 (4.45)	127 (5.00)	121 (4.76)	131 (5.16)	126 (4.96)		
June	205 (8.07)	200 (7.87)	207 (8.15)	204 (8.03)	210 (8.27)	209 (8.23)	216 (8.50)	213 (8.39)	226 (8.90)	223 (8.78)	233 (9.17)	229 (9.02)	153 (6.02)	144 (5.67)	155 (6.10)	148 (5.83)	157 (6.18)	153 (6.02)	162 (6.38)	158 (6.22)	166 (6.54)	165 (6.50)	169 (6.65)	169 (6.65)	169 (6.65)	
Season	540 (21.25)	484 (19.05)	547 (21.53)	502 (19.77)	556 (21.88)	522 (20.55)	571 (22.47)	541 (21.31)	590 (23.23)	573 (22.56)	606 (23.85)	593 (23.34)														

REGION: 18 Klamath  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	39 (1.54)	18 (0.71)	40 (1.57)	22 (0.87)	42 (1.65)	26 (1.02)	44 (1.73)	31 (1.22)	46 (1.81)	36 (1.42)	46 (1.81)	36 (1.42)	46 (1.81)	40 (1.57)	46 (1.81)	40 (1.57)		
May	111 (4.37)	86 (3.39)	115 (4.53)	91 (3.58)	118 (4.65)	96 (3.78)	122 (4.80)	103 (4.06)	128 (5.04)	111 (4.37)	128 (5.04)	111 (4.37)	132 (5.20)	122 (4.80)	132 (5.20)	122 (4.80)		
June	157 (6.18)	133 (5.24)	161 (6.34)	140 (5.51)	164 (6.46)	147 (5.79)	166 (6.54)	153 (6.02)	172 (6.77)	162 (6.38)	172 (6.77)	162 (6.38)	176 (6.93)	168 (6.61)	176 (6.93)	168 (6.61)		
July	165 (6.50)	159 (6.26)	167 (6.57)	163 (6.42)	169 (6.85)	166 (6.54)	173 (6.81)	170 (6.69)	182 (7.17)	178 (7.01)	182 (7.17)	178 (7.01)	188 (7.40)	183 (7.20)	188 (7.40)	183 (7.20)		
Aug	16 (0.63)	15 (0.59)	16 (0.63)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	17 (0.67)	18 (0.71)	17 (0.67)	18 (0.71)	17 (0.67)	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)		
Season	488 (19.22)	411 (16.19)	499 (19.64)	432 (17.01)	510 (20.08)	451 (17.76)	522 (20.55)	474 (18.66)	546 (21.50)	504 (19.85)	546 (21.50)	504 (19.85)	560 (22.05)	531 (20.89)	560 (22.05)	531 (20.89)		

REGION: 18 Klamath  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	73 (2.87)	44 (1.73)	77 (3.03)	51 (2.01)	82 (3.23)	58 (2.28)	84 (3.31)	66 (2.60)	89 (3.50)	77 (3.03)	89 (3.50)	77 (3.03)	91 (3.58)	82 (3.23)	91 (3.58)	82 (3.23)		
May	110 (4.33)	84 (3.31)	113 (4.45)	90 (3.54)	118 (4.65)	97 (3.82)	123 (4.84)	104 (4.09)	128 (5.04)	112 (4.41)	128 (5.04)	112 (4.41)	132 (5.20)	122 (4.80)	132 (5.20)	122 (4.80)		
June	138 (5.43)	114 (4.49)	140 (5.51)	123 (4.84)	141 (5.55)	129 (5.08)	145 (5.71)	134 (5.28)	150 (5.91)	143 (5.63)	150 (5.91)	143 (5.63)	153 (6.02)	148 (5.83)	153 (6.02)	148 (5.83)		
July	179 (7.05)	172 (6.77)	181 (7.13)	176 (6.93)	184 (7.24)	180 (7.09)	187 (7.36)	184 (7.24)	196 (7.72)	192 (7.56)	196 (7.72)	192 (7.56)	202 (7.95)	197 (7.76)	202 (7.95)	197 (7.76)		
Aug	145 (5.71)	137 (5.39)	146 (5.75)	141 (5.55)	149 (5.87)	145 (5.71)	153 (6.02)	149 (5.87)	155 (6.10)	155 (6.10)	155 (6.10)	155 (6.10)	160 (6.30)	160 (6.30)	160 (6.30)	160 (6.30)		
Sep	107 (4.21)	93 (3.66)	110 (4.33)	97 (3.82)	113 (4.45)	102 (4.02)	116 (4.57)	107 (4.21)	119 (4.69)	113 (4.45)	119 (4.69)	113 (4.45)	121 (4.76)	117 (4.61)	121 (4.76)	117 (4.61)		
Oct	32 (1.26)	16 (0.63)	33 (1.30)	20 (0.79)	34 (1.34)	23 (0.91)	35 (1.38)	28 (1.10)	37 (1.46)	32 (1.26)	37 (1.46)	32 (1.26)	39 (1.54)	38 (1.50)	39 (1.54)	38 (1.50)		
Season	784 (30.86)	660 (25.98)	800 (31.50)	698 (27.48)	821 (32.33)	734 (28.91)	843 (33.19)	772 (30.39)	874 (34.42)	824 (32.44)	874 (34.42)	824 (32.44)	898 (35.35)	864 (34.03)	898 (35.35)	864 (34.03)		

REGION: 18 Klamath  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	24 (0.94)	14 (0.55)	24 (0.94)	17 (0.67)	25 (0.98)	18 (0.71)	25 (0.98)	20 (0.79)	26 (1.02)	23 (0.91)	27 (1.06)	25 (0.98)	27 (1.06)	25 (0.98)	27 (1.06)	25 (0.98)		
June	82 (3.23)	64 (2.52)	84 (3.31)	69 (2.72)	85 (3.35)	74 (2.91)	87 (3.43)	79 (3.11)	89 (3.50)	83 (3.27)	92 (3.62)	88 (3.46)	92 (3.62)	88 (3.46)	92 (3.62)	88 (3.46)		
July	199 (7.83)	192 (7.56)	201 (7.91)	197 (7.76)	203 (7.99)	202 (7.95)	208 (8.19)	207 (8.15)	219 (8.62)	216 (8.50)	225 (8.86)	222 (8.74)	225 (8.86)	222 (8.74)	225 (8.86)	222 (8.74)		
Aug	167 (6.57)	160 (6.30)	169 (6.65)	164 (6.46)	172 (6.77)	169 (6.65)	176 (6.93)	174 (6.85)	179 (7.05)	179 (7.05)	184 (7.24)	184 (7.24)	184 (7.24)	184 (7.24)	184 (7.24)	184 (7.24)		
Sep	114 (4.49)	100 (3.94)	117 (4.61)	104 (4.09)	119 (4.69)	108 (4.25)	122 (4.80)	115 (4.53)	127 (5.00)	122 (4.80)	129 (5.08)	125 (4.92)	129 (5.08)	125 (4.92)	129 (5.08)	125 (4.92)		
Oct	27 (1.06)	13 (0.51)	27 (1.06)	16 (0.63)	28 (1.10)	19 (0.75)	29 (1.14)	23 (0.91)	30 (1.18)	27 (1.06)	32 (1.26)	31 (1.22)	32 (1.26)	31 (1.22)	32 (1.26)	31 (1.22)		
Season	613 (24.12)	543 (21.38)	622 (24.48)	567 (22.33)	632 (24.88)	590 (23.22)	647 (25.47)	618 (24.34)	670 (26.37)	650 (25.59)	689 (27.12)	675 (26.56)	689 (27.12)	675 (26.56)	689 (27.12)	675 (26.56)		

REGION: 19 Lakeview  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	61 (2.40)	48 (1.89)	62 (2.44)	51 (2.01)	64 (2.52)	53 (2.09)	66 (2.60)	56 (2.20)	68 (2.68)	60 (2.36)	69 (2.72)	62 (2.44)	69 (2.72)	62 (2.44)	69 (2.72)	62 (2.44)		
June	133 (5.24)	103 (4.06)	136 (5.35)	110 (4.33)	139 (5.47)	121 (4.76)	141 (5.55)	130 (5.12)	146 (5.75)	140 (5.51)	150 (5.91)	145 (5.71)	150 (5.91)	145 (5.71)	150 (5.91)	145 (5.71)		
July	165 (6.50)	158 (6.22)	168 (6.61)	162 (6.38)	171 (6.73)	166 (6.54)	173 (6.81)	170 (6.69)	175 (6.89)	174 (6.85)	177 (6.97)	177 (6.97)	177 (6.97)	177 (6.97)	177 (6.97)	177 (6.97)		
Aug	127 (5.00)	121 (4.76)	130 (5.12)	125 (4.92)	131 (5.16)	129 (5.08)	135 (5.31)	134 (5.28)	139 (5.47)	139 (5.47)	142 (5.59)	142 (5.59)	142 (5.59)	142 (5.59)	142 (5.59)	142 (5.59)		
Season	486 (19.14)	430 (16.93)	496 (19.52)	448 (17.64)	505 (19.88)	469 (18.47)	515 (20.27)	490 (19.29)	528 (20.79)	513 (20.19)	538 (21.19)	526 (20.71)	538 (21.19)	526 (20.71)	538 (21.19)	526 (20.71)		

REGION: 19 Lakeview  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years										
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.										
May	43 (1.69)	26 (1.02)	44 (1.73)	28 (1.10)	45 (1.77)	31 (1.22)	46 (1.81)	35 (1.38)	46 (1.81)	39 (1.54)	47 (1.85)	41 (1.61)	118 (4.65)	91 (3.58)	121 (4.76)	98 (3.86)	124 (4.88)	108 (4.25)	127 (5.00)	116 (4.57)	131 (5.16)	125 (4.92)	136 (5.35)	130 (5.12)		
June	202 (7.95)	195 (7.68)	206 (8.11)	199 (7.83)	209 (8.23)	203 (7.99)	212 (8.35)	207 (8.15)	214 (8.43)	212 (8.35)	216 (8.50)	216 (8.50)	148 (5.83)	140 (5.51)	150 (5.91)	144 (5.67)	152 (5.98)	148 (5.83)	156 (6.02)	161 (6.34)	158 (6.22)	163 (6.42)	163 (6.42)	163 (6.42)	163 (6.42)	
Aug	23 (0.91)	20 (0.79)	23 (0.91)	21 (0.83)	24 (0.94)	22 (0.87)	24 (0.94)	23 (0.91)	24 (0.94)	23 (0.91)	24 (0.94)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)
Sep	534 (21.03)	472 (18.58)	544 (21.42)	490 (19.29)	554 (21.80)	512 (20.16)	565 (22.24)	534 (21.03)	577 (22.72)	558 (21.97)	588 (23.14)	575 (22.63)														

REGION: 19 Lakeview  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years										
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.										
April	42 (1.65)	29 (1.14)	43 (1.69)	32 (1.26)	44 (1.73)	35 (1.38)	46 (1.81)	38 (1.50)	48 (1.89)	42 (1.65)	49 (1.93)	44 (1.73)	118 (4.65)	89 (3.50)	120 (4.72)	94 (3.70)	123 (4.84)	99 (3.90)	127 (5.00)	104 (4.09)	131 (5.16)	113 (4.45)	134 (5.28)	119 (4.69)		
May	161 (6.34)	129 (5.08)	165 (6.50)	136 (5.35)	168 (6.61)	150 (5.91)	171 (6.73)	159 (6.26)	176 (6.93)	169 (6.65)	182 (7.17)	176 (6.93)	163 (6.42)	156 (6.14)	165 (6.50)	160 (6.30)	168 (6.61)	164 (6.46)	171 (6.77)	172 (6.77)	174 (6.85)	174 (6.85)	174 (6.85)	174 (6.85)	174 (6.85)	
June	16 (0.63)	15 (0.59)	16 (0.63)	15 (0.59)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	
July	500 (19.69)	418 (16.45)	509 (20.04)	437 (17.20)	519 (20.42)	464 (18.28)	531 (20.90)	484 (19.05)	544 (21.42)	513 (20.19)	557 (21.94)	530 (20.87)														
Aug																										

REGION: 19 Lakeview  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.									
April	82 (3.23)	64 (2.52)	85 (3.35)	69 (2.72)	88 (3.46)	74 (2.91)	91 (3.58)	79 (3.11)	94 (3.70)	84 (3.31)	97 (3.82)	89 (3.50)	116 (4.57)	89 (3.50)	119 (4.69)	95 (3.74)	122 (4.80)	100 (3.94)	125 (4.92)	105 (4.13)	132 (5.20)	113 (4.45)	135 (5.31)	118 (4.65)	
May	141 (5.55)	111 (4.37)	144 (5.67)	118 (4.65)	147 (5.79)	130 (5.12)	150 (5.91)	139 (5.47)	155 (6.10)	149 (5.87)	160 (6.30)	154 (6.06)	175 (6.89)	169 (6.65)	178 (7.01)	173 (6.81)	182 (7.17)	177 (6.97)	184 (7.24)	181 (7.13)	186 (7.32)	185 (7.28)	188 (7.40)	188 (7.40)	
June	141 (5.55)	133 (5.24)	143 (5.63)	137 (5.39)	144 (5.67)	141 (5.55)	148 (5.83)	147 (5.79)	153 (6.02)	152 (5.98)	155 (6.10)	155 (6.10)	103 (4.06)	89 (3.50)	105 (4.13)	95 (3.74)	108 (4.25)	100 (3.94)	111 (4.37)	105 (4.13)	113 (4.45)	110 (4.33)	114 (4.49)	113 (4.45)	
July	103 (4.06)	89 (3.50)	105 (4.13)	95 (3.74)	108 (4.25)	100 (3.94)	111 (4.37)	105 (4.13)	113 (4.45)	110 (4.33)	114 (4.49)	113 (4.45)	34 (1.34)	25 (0.98)	34 (1.34)	28 (1.10)	34 (1.34)	30 (1.18)	36 (1.42)	32 (1.26)	37 (1.46)	36 (1.42)	38 (1.50)	38 (1.50)	
Aug	34 (1.34)	25 (0.98)	34 (1.34)	28 (1.10)	34 (1.34)	30 (1.18)	36 (1.42)	32 (1.26)	37 (1.46)	36 (1.42)	38 (1.50)	38 (1.50)	792 (31.19)	680 (26.76)	808 (31.82)	715 (28.15)	825 (32.48)	752 (29.61)	845 (33.27)	788 (31.02)	870 (34.25)	829 (32.64)	887 (34.92)	855 (33.66)	
Oct	792 (31.19)	680 (26.76)	808 (31.82)	715 (28.15)	825 (32.48)	752 (29.61)	845 (33.27)	788 (31.02)	870 (34.25)	829 (32.64)	887 (34.92)	855 (33.66)													

REGION: 20 Harney Valley  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
May	61 (2.40)	49 (1.93)	62 (2.44)	51 (2.01)	63 (2.48)	53 (2.09)	64 (2.52)	57 (2.24)	67 (2.64)	64 (2.52)	71 (2.80)	66 (2.60)	133 (5.24)	111 (4.37)	135 (5.31)	117 (4.61)	138 (5.43)	129 (5.08)	142 (5.59)	134 (5.28)	147 (5.79)	140 (5.51)	152 (5.98)	145 (5.71)
June	160 (6.30)	154 (6.06)	163 (6.42)	156 (6.14)	167 (6.57)	159 (6.26)	170 (6.69)	163 (6.42)	172 (6.77)	169 (6.65)	174 (6.85)	171 (6.73)	126 (4.96)	120 (4.72)	128 (5.04)	123 (4.84)	129 (5.08)	127 (5.00)	132 (5.20)	130 (5.12)	138 (5.43)	134 (5.28)	141 (5.55)	138 (5.43)
July	126 (4.96)	120 (4.72)	128 (5.04)	123 (4.84)	129 (5.08)	127 (5.00)	132 (5.20)	130 (5.12)	138 (5.43)	134 (5.28)	141 (5.55)	138 (5.43)	480 (18.90)	434 (17.08)	488 (19.21)	447 (17.60)	497 (19.56)	468 (18.43)	508 (20.00)	484 (19.06)	524 (20.63)	507 (19.96)	538 (21.18)	520 (20.47)
Aug	480 (18.90)	434 (17.08)	488 (19.21)	447 (17.60)	497 (19.56)	468 (18.43)	508 (20.00)	484 (19.06)	524 (20.63)	507 (19.96)	538 (21.18)	520 (20.47)												



REGION: 20 Harney Valley  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years										
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.								
May	42 (1.65)	30 (1.18)	32 (1.26)	44 (1.73)	35 (1.38)	38 (1.50)	45 (1.77)	38 (1.50)	46 (1.81)	43 (1.69)	47 (1.85)	44 (1.73)	119 (4.69)	97 (3.82)	122 (4.80)	103 (4.06)	124 (4.88)	115 (4.53)	127 (5.00)	120 (4.72)	132 (5.20)	126 (4.96)	136 (5.35)	130 (5.12)		
June	196 (6.30)	139 (5.47)	145 (5.71)	149 (5.87)	147 (5.79)	152 (5.94)	204 (8.03)	196 (7.72)	207 (8.15)	200 (7.87)	209 (8.23)	204 (8.03)	196 (7.72)	199 (7.83)	192 (7.56)	199 (7.83)	189 (7.44)	199 (7.83)	192 (7.56)	204 (8.03)	204 (8.03)	212 (8.35)	208 (8.19)	212 (8.35)	208 (8.19)	
July	15 (0.59)	14 (0.55)	15 (0.59)	16 (0.63)	15 (0.59)	16 (0.63)	164 (6.46)	154 (6.06)	160 (6.30)	154 (6.06)	167 (6.18)	164 (6.46)	154 (6.06)	160 (6.30)	154 (6.06)	160 (6.30)	154 (6.06)	160 (6.30)	154 (6.06)	167 (6.18)	164 (6.46)	171 (6.73)	167 (6.57)	171 (6.73)	167 (6.57)	
Aug	40 (1.57)	28 (1.10)	31 (1.22)	42 (1.65)	34 (1.34)	37 (1.46)	44 (1.73)	37 (1.46)	45 (1.77)	41 (1.61)	47 (1.85)	43 (1.69)	118 (4.65)	93 (3.66)	120 (4.72)	97 (3.82)	122 (4.80)	100 (3.94)	126 (4.96)	108 (4.25)	130 (5.12)	119 (4.69)	137 (5.39)	125 (4.92)	137 (5.39)	125 (4.92)
Season	522 (20.56)	474 (18.66)	531 (20.90)	544 (21.42)	514 (20.25)	555 (21.84)	555 (21.84)	531 (20.90)	570 (22.44)	551 (21.69)	581 (22.87)	565 (22.25)	492 (19.37)	426 (16.76)	502 (19.76)	442 (17.40)	512 (20.15)	464 (18.27)	524 (20.62)	484 (19.06)	540 (21.26)	508 (20.00)	555 (21.84)	525 (20.66)	555 (21.84)	525 (20.66)

REGION: 20 Harney Valley  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years										
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.								
April	40 (1.57)	28 (1.10)	31 (1.22)	42 (1.65)	34 (1.34)	37 (1.46)	44 (1.73)	37 (1.46)	45 (1.77)	41 (1.61)	47 (1.85)	43 (1.69)	118 (4.65)	93 (3.66)	120 (4.72)	97 (3.82)	122 (4.80)	100 (3.94)	126 (4.96)	108 (4.25)	130 (5.12)	119 (4.69)	137 (5.39)	125 (4.92)	137 (5.39)	125 (4.92)
May	159 (6.26)	152 (5.98)	160 (6.30)	160 (6.30)	154 (6.06)	167 (6.18)	164 (6.46)	154 (6.06)	160 (6.30)	154 (6.06)	167 (6.18)	164 (6.46)	154 (6.06)	160 (6.30)	154 (6.06)	160 (6.30)	154 (6.06)	160 (6.30)	154 (6.06)	167 (6.18)	164 (6.46)	171 (6.73)	167 (6.57)	171 (6.73)	167 (6.57)	
June	40 (1.57)	28 (1.10)	31 (1.22)	42 (1.65)	34 (1.34)	37 (1.46)	44 (1.73)	37 (1.46)	45 (1.77)	41 (1.61)	47 (1.85)	43 (1.69)	118 (4.65)	93 (3.66)	120 (4.72)	97 (3.82)	122 (4.80)	100 (3.94)	126 (4.96)	108 (4.25)	130 (5.12)	119 (4.69)	137 (5.39)	125 (4.92)	137 (5.39)	125 (4.92)
July	15 (0.59)	14 (0.55)	15 (0.59)	16 (0.63)	15 (0.59)	16 (0.63)	164 (6.46)	154 (6.06)	160 (6.30)	154 (6.06)	167 (6.18)	164 (6.46)	154 (6.06)	160 (6.30)	154 (6.06)	160 (6.30)	154 (6.06)	160 (6.30)	154 (6.06)	167 (6.18)	164 (6.46)	171 (6.73)	167 (6.57)	171 (6.73)	167 (6.57)	
Aug	40 (1.57)	28 (1.10)	31 (1.22)	42 (1.65)	34 (1.34)	37 (1.46)	44 (1.73)	37 (1.46)	45 (1.77)	41 (1.61)	47 (1.85)	43 (1.69)	118 (4.65)	93 (3.66)	120 (4.72)	97 (3.82)	122 (4.80)	100 (3.94)	126 (4.96)	108 (4.25)	130 (5.12)	119 (4.69)	137 (5.39)	125 (4.92)	137 (5.39)	125 (4.92)
Season	492 (19.37)	426 (16.76)	502 (19.76)	512 (20.15)	464 (18.27)	524 (20.62)	524 (20.62)	484 (19.06)	540 (21.26)	508 (20.00)	555 (21.84)	525 (20.66)	492 (19.37)	426 (16.76)	502 (19.76)	442 (17.40)	512 (20.15)	464 (18.27)	524 (20.62)	484 (19.06)	540 (21.26)	508 (20.00)	555 (21.84)	525 (20.66)	555 (21.84)	525 (20.66)

REGION: 20 Harney Valley  
CROP: Mint

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)		
April	41 (1.61)	27 (1.06)	42 (1.65)	30 (1.18)	43 (1.69)	34 (1.34)	45 (1.77)	37 (1.46)	46 (1.81)	40 (1.57)	48 (1.89)	42 (1.65)	48 (1.89)	42 (1.65)	48 (1.89)	42 (1.65)		
May	117 (4.61)	92 (3.62)	120 (4.72)	96 (3.78)	121 (4.76)	100 (3.94)	124 (4.88)	108 (4.25)	129 (5.08)	119 (4.69)	137 (5.39)	125 (4.92)	137 (5.39)	125 (4.92)	137 (5.39)	125 (4.92)		
June	166 (6.54)	142 (5.59)	169 (6.65)	149 (5.87)	172 (6.77)	161 (6.34)	177 (6.97)	168 (6.61)	185 (7.28)	174 (6.85)	189 (7.44)	179 (7.05)	189 (7.44)	179 (7.05)	189 (7.44)	179 (7.05)		
July	173 (6.81)	168 (6.61)	176 (6.93)	170 (6.69)	181 (7.13)	173 (6.81)	184 (7.24)	177 (6.97)	187 (7.36)	181 (7.13)	188 (7.40)	184 (7.24)	188 (7.40)	184 (7.24)	188 (7.40)	184 (7.24)		
Aug	22 (0.87)	21 (0.83)	22 (0.87)	22 (0.87)	22 (0.87)	22 (0.87)	23 (0.91)	23 (0.91)	23 (0.91)	23 (0.91)	24 (0.94)	24 (0.94)	24 (0.94)	24 (0.94)	24 (0.94)	24 (0.94)		
Season	520 (20.48)	451 (17.75)	530 (20.86)	468 (18.43)	540 (21.26)	491 (19.34)	554 (21.81)	514 (20.24)	572 (22.51)	539 (21.22)	587 (23.10)	555 (21.84)	587 (23.10)	555 (21.84)	587 (23.10)	555 (21.84)		

REGION: 20 Harney Valley  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	77 (3.03)	61 (2.40)	79 (3.11)	64 (2.52)	81 (3.19)	69 (2.72)	85 (3.35)	76 (2.99)	89 (3.50)	81 (3.19)	92 (3.62)	87 (3.43)	92 (3.62)	87 (3.43)	92 (3.62)	87 (3.43)		
May	117 (4.61)	93 (3.66)	121 (4.76)	97 (3.82)	124 (4.88)	100 (3.94)	126 (4.96)	109 (4.29)	131 (5.16)	120 (4.72)	137 (5.39)	126 (4.96)	137 (5.39)	126 (4.96)	137 (5.39)	126 (4.96)		
June	141 (5.55)	119 (4.69)	143 (5.63)	125 (4.92)	146 (5.75)	137 (5.39)	150 (5.91)	142 (5.59)	155 (6.10)	147 (5.79)	160 (6.30)	151 (5.94)	160 (6.30)	151 (5.94)	160 (6.30)	151 (5.94)		
July	171 (6.73)	164 (6.46)	172 (6.77)	166 (6.54)	177 (6.97)	170 (6.69)	180 (7.09)	173 (6.81)	183 (7.20)	177 (6.97)	184 (7.24)	180 (7.09)	184 (7.24)	180 (7.09)	184 (7.24)	180 (7.09)		
Aug	138 (5.43)	133 (5.24)	140 (5.51)	136 (5.35)	141 (5.55)	140 (5.51)	144 (5.67)	143 (5.63)	150 (5.91)	148 (5.83)	153 (6.02)	152 (5.98)	153 (6.02)	152 (5.98)	153 (6.02)	152 (5.98)		
Sep	97 (3.82)	87 (3.43)	100 (3.94)	91 (3.58)	104 (4.09)	95 (3.74)	107 (4.21)	99 (3.90)	109 (4.29)	104 (4.09)	111 (4.37)	107 (4.21)	111 (4.37)	107 (4.21)	111 (4.37)	107 (4.21)		
Oct	31 (1.22)	25 (0.98)	32 (1.26)	27 (1.06)	34 (1.34)	29 (1.14)	35 (1.38)	31 (1.22)	36 (1.42)	34 (1.34)	37 (1.46)	36 (1.42)	37 (1.46)	36 (1.42)	37 (1.46)	36 (1.42)		
Season	772 (30.39)	682 (26.86)	787 (30.98)	706 (27.79)	807 (31.77)	740 (29.13)	827 (32.57)	773 (30.43)	853 (33.58)	811 (31.93)	874 (34.40)	839 (33.03)	874 (34.40)	839 (33.03)	874 (34.40)	839 (33.03)		

REGION: 21 Dayville-Canyon City  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years																			
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.																			
April	53 (2.09)	36 (1.42)	54 (2.13)	39 (1.54)	55 (2.17)	42 (1.65)	58 (2.28)	46 (1.81)	60 (2.36)	51 (2.01)	63 (2.48)	55 (2.17)	110 (4.33)	77 (3.03)	111 (4.37)	81 (3.19)	114 (4.49)	84 (3.31)	119 (4.69)	96 (3.78)	122 (4.80)	102 (4.02)	126 (4.96)	104 (4.09)											
May	133 (5.24)	102 (4.02)	135 (5.31)	109 (4.29)	136 (5.35)	116 (4.57)	138 (5.43)	125 (4.92)	147 (5.79)	134 (5.28)	151 (5.96)	139 (5.47)	167 (6.57)	156 (6.14)	168 (6.61)	160 (6.30)	170 (6.69)	163 (6.42)	172 (6.77)	166 (6.54)	175 (6.89)	170 (6.69)	178 (7.01)	173 (6.81)											
June	130 (5.12)	121 (4.76)	132 (5.20)	124 (4.88)	135 (5.31)	128 (5.04)	139 (5.47)	132 (5.20)	142 (5.59)	137 (5.39)	146 (5.75)	141 (5.55)	94 (3.70)	76 (2.99)	97 (3.82)	81 (3.19)	98 (3.86)	89 (3.50)	99 (3.90)	101 (3.98)	99 (3.90)	107 (4.21)	102 (4.02)	687 (27.05)	568 (22.36)	697 (27.44)	594 (23.39)	708 (27.87)	622 (24.49)	725 (28.54)	659 (25.95)	747 (29.41)	693 (27.29)	771 (30.35)	714 (28.11)
July	94 (3.70)	76 (2.99)	97 (3.82)	81 (3.19)	98 (3.86)	89 (3.50)	99 (3.90)	94 (3.70)	101 (3.98)	99 (3.90)	107 (4.21)	102 (4.02)	Season 687 (27.05)	568 (22.36)	697 (27.44)	594 (23.39)	708 (27.87)	622 (24.49)	725 (28.54)	659 (25.95)	747 (29.41)	693 (27.29)	771 (30.35)	714 (28.11)											

REGION: 21 Dayville-Canyon City  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
March	13 (0.51)	1 (0.04)	14 (0.55)	2 (0.08)	15 (0.59)	3 (0.12)	16 (0.63)	4 (0.16)	18 (0.71)	8 (0.31)	19 (0.75)	10 (0.39)	77 (3.03)	52 (2.05)	79 (3.11)	56 (2.20)	81 (3.19)	61 (2.40)	82 (3.23)	66 (2.60)	86 (3.39)	74 (2.91)	90 (3.54)	78 (3.07)
April	134 (5.28)	99 (3.90)	136 (5.35)	104 (4.09)	139 (5.47)	108 (4.25)	144 (5.67)	121 (4.76)	148 (5.83)	127 (5.00)	153 (6.02)	130 (5.12)	161 (6.34)	127 (5.00)	164 (6.46)	134 (5.28)	167 (6.57)	143 (5.63)	170 (6.69)	164 (6.46)	182 (7.17)	170 (6.69)	182 (7.17)	170 (6.69)
May	137 (5.39)	130 (5.12)	139 (5.47)	132 (5.20)	140 (5.51)	134 (5.28)	141 (5.55)	137 (5.39)	144 (5.67)	140 (5.51)	146 (5.75)	141 (5.55)	Season 522 (20.55)	409 (16.11)	532 (20.94)	428 (16.85)	542 (21.33)	449 (17.68)	553 (21.77)	481 (18.93)	573 (22.57)	513 (20.19)	590 (23.23)	529 (20.82)
June	137 (5.39)	130 (5.12)	139 (5.47)	132 (5.20)	140 (5.51)	134 (5.28)	141 (5.55)	137 (5.39)	144 (5.67)	140 (5.51)	146 (5.75)	141 (5.55)	Season 522 (20.55)	409 (16.11)	532 (20.94)	428 (16.85)	542 (21.33)	449 (17.68)	553 (21.77)	481 (18.93)	573 (22.57)	513 (20.19)	590 (23.23)	529 (20.82)
July	137 (5.39)	130 (5.12)	139 (5.47)	132 (5.20)	140 (5.51)	134 (5.28)	141 (5.55)	137 (5.39)	144 (5.67)	140 (5.51)	146 (5.75)	141 (5.55)	Season 522 (20.55)	409 (16.11)	532 (20.94)	428 (16.85)	542 (21.33)	449 (17.68)	553 (21.77)	481 (18.93)	573 (22.57)	513 (20.19)	590 (23.23)	529 (20.82)

REGION: 21 Dayville-Canyon City  
CROP: Mint

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)	1 (0.04)		
April	43 (1.69)	19 (0.75)	44 (1.73)	24 (0.94)	45 (1.77)	27 (1.06)	46 (1.81)	30 (1.18)	47 (1.85)	35 (1.38)	48 (1.89)	38 (1.50)	48 (1.89)	35 (1.38)	48 (1.89)	38 (1.50)		
May	116 (4.57)	82 (3.23)	119 (4.69)	86 (3.39)	121 (4.76)	91 (3.58)	125 (4.92)	102 (4.02)	128 (5.04)	108 (4.25)	131 (5.16)	111 (4.37)	128 (5.04)	108 (4.25)	131 (5.16)	111 (4.37)		
June	166 (6.54)	132 (5.20)	169 (6.65)	139 (5.47)	171 (6.73)	148 (5.83)	173 (6.81)	159 (6.26)	182 (7.17)	170 (6.69)	189 (7.44)	176 (6.93)	182 (7.17)	170 (6.69)	189 (7.44)	176 (6.93)		
July	181 (7.13)	170 (6.69)	183 (7.20)	174 (6.85)	184 (7.24)	177 (6.97)	186 (7.32)	180 (7.09)	190 (7.48)	185 (7.28)	193 (7.60)	187 (7.36)	190 (7.48)	185 (7.28)	193 (7.60)	187 (7.36)		
Aug	22 (0.87)	22 (0.87)	23 (0.91)	22 (0.87)	23 (0.91)	23 (0.91)	24 (0.94)	24 (0.94)	24 (0.94)	24 (0.94)	24 (0.94)	24 (0.94)	24 (0.94)	24 (0.94)	24 (0.94)	24 (0.94)		
Season	529 (20.84)	426 (16.78)	539 (21.22)	446 (17.56)	545 (21.45)	467 (18.39)	555 (21.84)	496 (19.53)	572 (22.52)	523 (20.58)	586 (23.07)	537 (21.14)	572 (22.52)	523 (20.58)	586 (23.07)	537 (21.14)		

REGION: 21 Dayville-Canyon City  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	52 (2.05)	36 (1.42)	53 (2.09)	39 (1.54)	54 (2.13)	42 (1.65)	55 (2.17)	45 (1.77)	59 (2.32)	51 (2.01)	60 (2.36)	54 (2.13)						
May	118 (4.65)	84 (3.31)	120 (4.72)	88 (3.46)	122 (4.80)	92 (3.62)	127 (5.00)	104 (4.09)	130 (5.12)	110 (4.33)	134 (5.28)	113 (4.45)						
June	142 (5.59)	109 (4.29)	145 (5.71)	117 (4.61)	147 (5.79)	125 (4.92)	150 (5.91)	135 (5.31)	156 (6.14)	144 (5.67)	161 (6.34)	149 (5.87)						
July	178 (7.01)	167 (6.57)	180 (7.09)	171 (6.73)	181 (7.13)	174 (6.85)	183 (7.20)	177 (6.97)	187 (7.36)	182 (7.17)	190 (7.48)	184 (7.24)						
Aug	139 (5.47)	129 (5.08)	141 (5.55)	133 (5.24)	144 (5.67)	137 (5.39)	148 (5.83)	141 (5.55)	152 (5.98)	147 (5.79)	156 (6.14)	150 (5.91)						
Sep	101 (3.98)	82 (3.23)	103 (4.06)	87 (3.43)	104 (4.09)	95 (3.74)	105 (4.13)	100 (3.94)	108 (4.25)	105 (4.13)	114 (4.49)	108 (4.25)						
Oct	48 (1.89)	32 (1.26)	50 (1.97)	35 (1.38)	51 (2.01)	38 (1.50)	53 (2.09)	41 (1.61)	57 (2.24)	50 (1.97)	59 (2.32)	53 (2.09)						
Season	778 (30.64)	639 (25.16)	792 (31.19)	670 (26.39)	803 (31.62)	703 (27.67)	821 (32.33)	743 (29.24)	849 (33.41)	789 (31.07)	874 (34.41)	811 (31.94)						

REGION: 22 Wallowa Valley  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	51 (2.01)	30 (1.18)	53 (2.09)	33 (1.30)	55 (2.17)	38 (1.50)	57 (2.24)	42 (1.65)	60 (2.36)	47 (1.85)	64 (2.52)	50 (1.97)						
May	105 (4.13)	61 (2.40)	106 (4.17)	67 (2.64)	108 (4.25)	72 (2.83)	110 (4.33)	82 (3.23)	115 (4.53)	94 (3.70)	118 (4.65)	101 (3.98)						
June	121 (4.76)	80 (3.15)	123 (4.84)	88 (3.46)	126 (4.96)	96 (3.78)	129 (5.08)	104 (4.09)	133 (5.24)	112 (4.41)	135 (5.31)	118 (4.65)						
July	156 (6.14)	139 (5.47)	157 (6.18)	145 (5.71)	160 (6.30)	150 (5.91)	163 (6.42)	154 (6.06)	167 (6.57)	158 (6.22)	169 (6.65)	161 (6.34)						
Aug	126 (4.96)	113 (4.45)	129 (5.08)	118 (4.65)	132 (5.20)	122 (4.80)	134 (5.28)	127 (5.00)	138 (5.43)	133 (5.24)	140 (5.51)	135 (5.31)						
Sep	87 (3.43)	62 (2.44)	89 (3.50)	67 (2.64)	91 (3.58)	74 (2.91)	94 (3.70)	82 (3.23)	99 (3.90)	90 (3.54)	101 (3.98)	95 (3.74)						
Season	646 (25.43)	485 (19.09)	657 (25.86)	518 (20.40)	672 (26.46)	552 (21.73)	687 (27.05)	591 (23.26)	712 (28.03)	634 (24.96)	727 (28.62)	660 (25.99)						

REGION: 22 Wallowa Valley  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET mm	Net IRR in.	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm							
April	51 (2.01)	22 (0.87)	52 (2.05)	26 (1.02)	54 (2.13)	31 (1.22)	56 (2.20)	36 (1.42)	58 (2.28)	43 (1.69)	62 (2.44)	48 (1.89)	119 (4.69)	76 (2.99)	121 (4.76)	82 (3.23)	122 (4.80)	87 (3.43)	125 (4.92)	97 (3.82)	131 (5.16)	109 (4.29)	135 (5.31)	117 (4.61)	
May	146 (5.75)	103 (4.06)	148 (5.83)	112 (4.41)	152 (5.98)	121 (4.76)	157 (6.18)	130 (5.12)	161 (6.34)	140 (5.51)	184 (6.46)	146 (5.75)	169 (6.65)	153 (6.02)	171 (6.85)	164 (6.46)	177 (6.97)	168 (6.61)	182 (7.17)	172 (6.77)	184 (7.24)	176 (6.93)	184 (7.24)	176 (6.93)	
June	31 (1.22)	25 (0.98)	31 (1.22)	27 (1.06)	31 (1.22)	29 (1.14)	32 (1.26)	30 (1.18)	33 (1.30)	32 (1.26)	33 (1.30)	33 (1.30)	31 (1.22)	27 (1.06)	31 (1.22)	29 (1.14)	32 (1.26)	30 (1.18)	33 (1.30)	32 (1.26)	33 (1.30)	32 (1.26)	33 (1.30)	33 (1.30)	33 (1.30)
Season	516 (20.32)	379 (14.92)	523 (20.59)	406 (15.98)	533 (20.98)	432 (17.01)	547 (21.53)	461 (18.15)	565 (22.25)	496 (19.52)	578 (22.75)	520 (20.48)													

REGION: 22 Wallowa Valley  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET mm	Net IRR in.	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm							
March	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	14 (0.55)	2 (0.08)	15 (0.59)	4 (0.16)	17 (0.67)	7 (0.28)	17 (0.67)	8 (0.31)	73 (2.87)	41 (1.61)	76 (2.99)	46 (1.81)	79 (3.11)	53 (2.09)	82 (3.23)	60 (2.36)	86 (3.39)	68 (2.68)	89 (3.50)	73 (2.87)	
April	127 (5.00)	82 (3.23)	129 (5.08)	88 (3.46)	130 (5.12)	94 (3.70)	133 (5.24)	104 (4.09)	140 (5.51)	117 (4.61)	143 (5.65)	124 (4.88)	146 (5.75)	102 (4.02)	148 (5.83)	111 (4.37)	152 (5.98)	120 (4.72)	156 (6.14)	129 (5.08)	161 (6.34)	139 (5.47)	164 (6.46)	145 (5.71)	
May	128 (5.04)	113 (4.45)	129 (5.08)	119 (4.69)	131 (5.16)	123 (4.84)	133 (5.24)	126 (4.96)	137 (5.39)	129 (5.08)	138 (5.43)	132 (5.20)	128 (5.04)	113 (4.45)	129 (5.08)	119 (4.69)	131 (5.16)	123 (4.84)	133 (5.24)	126 (4.96)	137 (5.39)	129 (5.08)	138 (5.43)	132 (5.20)	
Season	487 (19.17)	339 (13.35)	496 (19.53)	365 (14.37)	506 (19.92)	392 (15.43)	519 (20.44)	423 (16.65)	541 (21.30)	460 (18.12)	551 (21.69)	482 (18.97)													

REGION: 22 Wallowa Valley  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
Jan	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	2 (0.08)	0 (0.00)		
Feb	3 (0.12)	0 (0.00)	4 (0.16)	0 (0.00)	7 (0.28)	1 (0.04)	8 (0.31)	1 (0.04)	8 (0.31)	1 (0.04)	9 (0.35)	1 (0.04)	10 (0.39)	1 (0.04)	10 (0.39)	1 (0.04)		
March	15 (0.59)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	20 (0.79)	3 (0.12)	20 (0.79)	3 (0.12)		
April	43 (1.69)	13 (0.51)	45 (1.77)	18 (0.71)	46 (1.81)	23 (0.91)	47 (1.85)	29 (1.14)	47 (1.85)	29 (1.14)	49 (1.93)	35 (1.38)	52 (2.05)	39 (1.54)	52 (2.05)	39 (1.54)		
May	68 (2.68)	30 (1.18)	69 (2.72)	35 (1.38)	70 (2.76)	41 (1.61)	71 (2.80)	47 (1.85)	71 (2.80)	47 (1.85)	73 (2.87)	58 (2.28)	75 (2.95)	63 (2.48)	75 (2.95)	63 (2.48)		
June	103 (4.06)	62 (2.44)	104 (4.09)	71 (2.80)	107 (4.21)	79 (3.11)	110 (4.33)	86 (3.39)	110 (4.33)	86 (3.39)	115 (4.53)	95 (3.74)	117 (4.61)	100 (3.94)	117 (4.61)	100 (3.94)		
July	169 (6.65)	151 (5.94)	171 (6.73)	158 (6.22)	173 (6.81)	164 (6.46)	176 (6.93)	168 (6.61)	180 (7.09)	171 (6.73)	183 (7.20)	173 (6.81)	183 (7.20)	173 (6.81)	183 (7.20)	173 (6.81)		
Aug	152 (5.98)	139 (5.47)	156 (6.14)	143 (5.63)	159 (6.26)	147 (5.79)	162 (6.38)	151 (5.94)	164 (6.46)	159 (6.26)	167 (6.57)	162 (6.38)	167 (6.57)	162 (6.38)	167 (6.57)	162 (6.38)		
Sep	108 (4.25)	79 (3.11)	110 (4.33)	84 (3.31)	112 (4.41)	93 (3.66)	113 (4.45)	101 (3.98)	118 (4.65)	110 (4.45)	121 (4.76)	115 (4.53)	121 (4.76)	115 (4.53)	121 (4.76)	115 (4.53)		
Oct	63 (2.48)	30 (1.18)	64 (2.52)	35 (1.38)	65 (2.56)	41 (1.61)	70 (2.76)	49 (1.93)	71 (2.80)	61 (2.40)	72 (2.83)	67 (2.64)	72 (2.83)	67 (2.64)	72 (2.83)	67 (2.64)		
Nov	11 (0.43)	1 (0.04)	12 (0.47)	1 (0.04)	13 (0.51)	1 (0.04)	17 (0.67)	1 (0.04)	17 (0.67)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	5 (0.20)	20 (0.79)	5 (0.20)		
Dec	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)		
Season	736 (28.97)	506 (19.91)	752 (29.60)	546 (21.51)	769 (30.28)	591 (23.27)	793 (31.23)	634 (24.96)	818 (32.22)	692 (27.24)	840 (33.06)	728 (28.68)	840 (33.06)	728 (28.68)	840 (33.06)	728 (28.68)		

REGION: 22 Wallowa Valley  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	13 (0.51)	3 (0.12)	14 (0.55)	5 (0.20)	15 (0.59)	6 (0.24)	17 (0.67)	9 (0.35)	18 (0.71)	10 (0.39)	19 (0.75)	12 (0.47)	19 (0.75)	12 (0.47)	19 (0.75)	12 (0.47)		
April	77 (3.03)	45 (1.77)	81 (3.19)	50 (1.97)	84 (3.31)	57 (2.24)	86 (3.39)	64 (2.52)	88 (3.46)	72 (2.83)	96 (3.78)	76 (2.99)	96 (3.78)	76 (2.99)	96 (3.78)	76 (2.99)		
May	113 (4.45)	68 (2.68)	114 (4.49)	74 (2.91)	115 (4.53)	80 (3.15)	117 (4.61)	90 (3.54)	124 (4.88)	102 (4.02)	127 (5.00)	109 (4.29)	127 (5.00)	109 (4.29)	127 (5.00)	109 (4.29)		
June	129 (5.08)	86 (3.39)	131 (5.16)	95 (3.74)	134 (5.28)	106 (4.17)	136 (5.35)	113 (4.45)	142 (5.59)	120 (4.72)	145 (5.71)	127 (5.00)	145 (5.71)	127 (5.00)	145 (5.71)	127 (5.00)		
July	166 (6.54)	150 (5.91)	168 (6.61)	156 (6.14)	171 (6.73)	162 (6.38)	174 (6.85)	166 (6.54)	179 (7.05)	170 (6.69)	181 (7.13)	173 (6.81)	181 (7.13)	173 (6.81)	181 (7.13)	173 (6.81)		
Aug	135 (5.31)	122 (4.80)	138 (5.43)	127 (5.00)	141 (5.55)	131 (5.16)	143 (5.63)	136 (5.35)	145 (5.71)	142 (5.59)	148 (5.83)	144 (5.67)	148 (5.83)	144 (5.67)	148 (5.83)	144 (5.67)		
Sep	94 (3.70)	68 (2.68)	95 (3.74)	73 (2.87)	97 (3.82)	80 (3.15)	100 (3.94)	89 (3.50)	105 (4.13)	97 (3.82)	108 (4.25)	101 (3.98)	108 (4.25)	101 (3.98)	108 (4.25)	101 (3.98)		
Oct	54 (2.13)	20 (0.79)	56 (2.20)	27 (1.06)	58 (2.28)	33 (1.30)	60 (2.36)	41 (1.61)	62 (2.44)	51 (2.01)	65 (2.56)	57 (2.24)	65 (2.56)	57 (2.24)	65 (2.56)	57 (2.24)		
Season	781 (30.75)	562 (22.14)	797 (31.37)	607 (23.89)	815 (32.09)	655 (25.79)	833 (32.80)	708 (27.86)	863 (33.97)	764 (30.07)	889 (35.01)	799 (31.45)	889 (35.01)	799 (31.45)	889 (35.01)	799 (31.45)		

REGION: 22 Mallova Valley  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	33 (1.30)	13 (0.51)	34 (1.34)	17 (0.67)	35 (1.38)	20 (0.79)	36 (1.42)	24 (0.94)	37 (1.46)	28 (1.10)	39 (1.54)	32 (1.26)						
May	114 (4.49)	70 (2.76)	116 (4.57)	76 (2.99)	117 (4.61)	81 (3.19)	120 (4.72)	91 (3.58)	125 (4.92)	104 (4.09)	128 (5.04)	111 (4.37)						
June	146 (5.75)	102 (4.02)	148 (5.83)	111 (4.37)	152 (5.98)	120 (4.72)	156 (6.14)	129 (5.08)	161 (6.34)	139 (5.47)	164 (6.46)	145 (5.71)						
July	147 (5.79)	134 (5.28)	148 (5.83)	139 (5.47)	151 (5.94)	144 (5.67)	153 (6.02)	147 (5.79)	157 (6.18)	151 (5.94)	159 (6.26)	154 (6.06)						
Season	440 (17.33)	319 (12.57)	446 (17.57)	343 (13.50)	455 (17.91)	365 (14.37)	465 (18.30)	391 (15.39)	480 (18.90)	422 (16.60)	490 (19.30)	442 (17.40)						

REGION: 22 Mallova Valley  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	32 (1.26)	10 (0.39)	33 (1.30)	14 (0.55)	33 (1.30)	17 (0.67)	34 (1.34)	21 (0.83)	35 (1.38)	26 (1.02)	35 (1.38)	28 (1.10)						
June	79 (3.11)	45 (1.77)	80 (3.15)	52 (2.05)	82 (3.23)	59 (2.32)	85 (3.35)	66 (2.60)	87 (3.43)	72 (2.83)	90 (3.54)	76 (2.99)						
July	176 (6.93)	159 (6.26)	177 (6.97)	164 (6.46)	180 (7.09)	171 (6.73)	183 (7.20)	175 (6.89)	186 (7.52)	179 (7.05)	188 (7.40)	181 (7.13)						
Aug	155 (6.10)	143 (5.63)	159 (6.26)	147 (5.79)	162 (6.38)	152 (5.98)	165 (6.50)	156 (6.14)	167 (6.57)	163 (6.42)	170 (6.69)	166 (6.54)						
Sep	102 (4.02)	76 (2.99)	103 (4.06)	82 (3.23)	104 (4.09)	89 (3.50)	107 (4.21)	96 (3.78)	113 (4.45)	103 (4.06)	115 (4.53)	108 (4.25)						
Oct	15 (0.59)	6 (0.24)	15 (0.59)	8 (0.31)	15 (0.59)	10 (0.39)	16 (0.63)	12 (0.47)	16 (0.63)	14 (0.55)	17 (0.67)	16 (0.63)						
Season	559 (22.01)	439 (17.28)	567 (22.33)	467 (18.39)	576 (22.68)	498 (19.59)	590 (23.23)	526 (20.71)	604 (23.78)	557 (21.93)	615 (24.21)	575 (22.64)						



REGION: 23 Grande Ronde Valley  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET mm	Net IRR in.	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm							
April	53 (2.09)	30 (1.18)	55 (2.17)	33 (1.30)	56 (2.20)	36 (1.42)	58 (2.28)	40 (1.57)	60 (2.36)	48 (1.89)	63 (2.48)	51 (2.01)	106 (4.17)	62 (2.44)	107 (4.21)	68 (2.68)	108 (4.25)	75 (2.95)	111 (4.37)	83 (3.27)	116 (4.57)	93 (3.66)	122 (4.80)	101 (3.98)	
May	123 (4.84)	84 (3.31)	126 (4.96)	90 (3.54)	128 (5.04)	98 (3.86)	130 (5.12)	107 (4.21)	133 (5.24)	115 (4.53)	137 (5.39)	120 (4.72)	165 (6.50)	149 (5.87)	167 (6.57)	155 (6.10)	169 (6.65)	160 (6.30)	171 (6.73)	165 (6.50)	173 (6.81)	170 (6.69)	177 (6.97)	174 (6.85)	
June	137 (5.39)	124 (4.88)	138 (5.43)	128 (5.04)	139 (5.47)	132 (5.20)	141 (5.55)	136 (5.35)	145 (5.71)	141 (5.55)	151 (5.94)	144 (5.67)	94 (3.70)	73 (2.87)	97 (3.82)	77 (3.03)	99 (3.90)	81 (3.19)	100 (3.94)	89 (3.50)	102 (4.02)	97 (3.82)	105 (4.13)	101 (3.98)	
Season	678 (26.69)	522 (20.55)	690 (27.16)	551 (21.69)	699 (27.51)	582 (22.92)	711 (27.99)	620 (24.40)	729 (28.71)	664 (26.14)	755 (29.71)	691 (27.21)													

REGION: 23 Grande Ronde Valley  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET mm	Net IRR in.	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm	ET crop in.	Net IRR mm							
April	53 (2.09)	20 (0.79)	54 (2.13)	24 (0.94)	55 (2.17)	28 (1.10)	57 (2.24)	33 (1.30)	60 (2.36)	40 (1.57)	62 (2.44)	48 (1.89)	120 (4.72)	75 (2.95)	122 (4.80)	83 (3.27)	124 (4.88)	90 (3.54)	127 (5.00)	97 (3.82)	132 (5.20)	108 (4.25)	137 (5.39)	117 (4.61)	
May	149 (5.87)	106 (4.17)	152 (5.98)	115 (4.53)	155 (6.10)	124 (4.88)	157 (6.18)	134 (5.28)	161 (6.34)	142 (5.59)	166 (6.54)	149 (5.87)	179 (7.05)	163 (6.42)	182 (7.17)	169 (6.65)	184 (7.24)	175 (6.89)	187 (7.36)	180 (7.09)	188 (7.40)	184 (7.24)	192 (7.56)	189 (7.44)	
June	33 (1.30)	30 (1.18)	34 (1.34)	31 (1.22)	34 (1.34)	32 (1.26)	35 (1.38)	33 (1.30)	36 (1.42)	34 (1.34)	37 (1.46)	36 (1.42)													
Season	534 (21.03)	394 (15.51)	544 (21.42)	422 (16.61)	552 (21.73)	449 (17.67)	563 (22.16)	477 (18.79)	577 (22.72)	508 (19.99)	594 (23.39)	539 (21.23)													

REGION: 23 Grande Ronde Valley  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.
March	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	2 (0.08)	18 (0.71)	6 (0.24)	18 (0.71)	6 (0.24)	18 (0.71)	6 (0.24)	18 (0.71)	6 (0.24)	18 (0.71)	9 (0.35)
April	76 (2.99)	41 (1.61)	79 (3.11)	45 (1.77)	81 (3.19)	50 (1.97)	83 (3.27)	57 (2.24)	88 (3.46)	67 (2.64)	92 (3.62)	73 (2.87)	92 (3.62)	67 (2.64)	92 (3.62)	67 (2.64)	92 (3.62)	73 (2.87)
May	129 (5.08)	81 (3.19)	131 (5.16)	89 (3.50)	132 (5.20)	96 (4.13)	134 (5.28)	105 (4.13)	140 (5.51)	115 (4.53)	147 (5.79)	126 (4.96)	147 (5.79)	115 (4.53)	147 (5.79)	115 (4.53)	147 (5.79)	126 (4.96)
June	149 (5.87)	105 (4.13)	152 (5.98)	114 (4.49)	155 (6.10)	123 (4.84)	157 (6.18)	133 (5.24)	161 (6.34)	141 (5.55)	166 (6.54)	148 (5.83)	166 (6.54)	141 (5.55)	166 (6.54)	141 (5.55)	166 (6.54)	148 (5.83)
July	135 (5.31)	121 (4.76)	137 (5.39)	126 (4.96)	139 (5.47)	131 (5.16)	142 (5.59)	134 (5.28)	144 (5.67)	139 (5.47)	145 (5.71)	142 (5.59)	145 (5.71)	139 (5.47)	145 (5.71)	139 (5.47)	145 (5.71)	142 (5.59)
Season	503 (19.80)	349 (13.73)	514 (20.23)	375 (14.76)	522 (20.55)	401 (15.79)	532 (20.95)	431 (16.97)	551 (21.69)	468 (18.43)	568 (22.37)	498 (19.60)	568 (22.37)	468 (18.43)	568 (22.37)	468 (18.43)	568 (22.37)	498 (19.60)

REGION: 23 Grande Ronde Valley  
CROP: Grass Seed (Fall)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.	ET crop in.	Net IRR in.
Jan	1 (0.04)	0 (0.00)	2 (0.08)	0 (0.00)	2 (0.08)	0 (0.00)	4 (0.16)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)	5 (0.20)	0 (0.00)
Feb	10 (0.39)	1 (0.04)	11 (0.43)	1 (0.04)	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)	16 (0.63)	1 (0.04)
March	34 (1.34)	2 (0.08)	36 (1.42)	3 (0.12)	37 (1.46)	3 (0.12)	38 (1.50)	8 (0.31)	42 (1.65)	15 (0.59)	45 (1.77)	22 (0.87)	45 (1.77)	15 (0.59)	45 (1.77)	22 (0.87)	45 (1.77)	22 (0.87)
April	84 (3.31)	47 (1.85)	87 (3.43)	52 (2.05)	89 (3.50)	57 (2.24)	92 (3.62)	64 (2.52)	98 (3.86)	75 (2.95)	100 (3.94)	81 (3.19)	100 (3.94)	75 (2.95)	100 (3.94)	81 (3.19)	100 (3.94)	81 (3.19)
May	130 (5.12)	82 (3.23)	132 (5.20)	90 (3.54)	133 (5.24)	97 (3.82)	135 (5.31)	106 (4.17)	141 (5.55)	116 (4.57)	148 (5.83)	127 (5.00)	148 (5.83)	116 (4.57)	148 (5.83)	127 (5.00)	148 (5.83)	127 (5.00)
June	150 (5.91)	105 (4.13)	153 (6.02)	115 (4.53)	156 (6.14)	125 (4.92)	158 (6.22)	134 (5.28)	162 (6.38)	143 (5.63)	167 (6.57)	150 (5.91)	167 (6.57)	143 (5.63)	167 (6.57)	150 (5.91)	167 (6.57)	150 (5.91)
July	200 (7.87)	184 (7.24)	202 (7.95)	190 (7.48)	204 (8.03)	196 (7.72)	206 (8.11)	202 (7.95)	210 (8.27)	208 (8.19)	215 (8.46)	212 (8.35)	215 (8.46)	208 (8.19)	215 (8.46)	212 (8.35)	215 (8.46)	212 (8.35)
Aug	149 (5.87)	137 (5.39)	151 (5.94)	141 (5.55)	152 (5.98)	145 (5.71)	154 (6.06)	149 (5.87)	158 (6.22)	154 (6.06)	163 (6.42)	157 (6.18)	163 (6.42)	154 (6.06)	163 (6.42)	157 (6.18)	163 (6.42)	157 (6.18)
Sep	52 (2.05)	32 (1.26)	54 (2.13)	36 (1.42)	55 (2.17)	40 (1.57)	55 (2.17)	45 (1.77)	56 (2.20)	52 (2.05)	58 (2.28)	55 (2.17)	58 (2.28)	52 (2.05)	58 (2.28)	55 (2.17)	58 (2.28)	55 (2.17)
Oct	44 (1.73)	11 (0.43)	45 (1.77)	18 (0.71)	45 (1.77)	26 (1.02)	46 (1.81)	30 (1.18)	49 (1.93)	38 (1.50)	50 (1.97)	44 (1.73)	49 (1.93)	38 (1.50)	50 (1.97)	44 (1.73)	49 (1.93)	44 (1.73)
Nov	12 (0.47)	1 (0.04)	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	2 (0.08)	17 (0.67)	1 (0.04)	18 (0.71)	2 (0.08)	18 (0.71)	2 (0.08)
Dec	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	2 (0.08)	0 (0.00)	2 (0.08)	0 (0.00)	3 (0.12)	0 (0.00)	4 (0.16)	0 (0.00)	3 (0.12)	0 (0.00)	4 (0.16)	0 (0.00)	4 (0.16)	0 (0.00)
Season	867 (34.14)	602 (23.69)	887 (34.92)	647 (25.48)	902 (35.51)	691 (27.20)	919 (36.18)	740 (29.13)	957 (37.68)	803 (31.62)	991 (39.02)	851 (33.52)	957 (37.68)	803 (31.62)	991 (39.02)	851 (33.52)	991 (39.02)	851 (33.52)

REGION: 23 Grande Ronde Valley  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
Jan	1 (0.04)	0 (0.00)	2 (0.08)	0 (0.00)	3 (0.12)	0 (0.00)	5 (0.20)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)		
Feb	8 (0.31)	0 (0.00)	8 (0.31)	0 (0.00)	9 (0.35)	1 (0.04)	10 (0.39)	1 (0.04)	13 (0.51)	1 (0.04)	13 (0.51)	1 (0.04)	14 (0.55)	1 (0.04)	14 (0.55)	1 (0.04)		
March	16 (0.63)	1 (0.04)	17 (0.67)	1 (0.04)	17 (0.67)	1 (0.04)	18 (0.71)	1 (0.04)	20 (0.79)	1 (0.04)	20 (0.79)	1 (0.04)	21 (0.83)	1 (0.04)	21 (0.83)	1 (0.04)		
April	46 (1.81)	13 (0.51)	47 (1.85)	16 (0.63)	48 (1.89)	21 (0.83)	49 (1.93)	26 (1.02)	52 (2.05)	33 (1.30)	53 (2.09)	40 (1.57)	53 (2.09)	40 (1.57)	53 (2.09)	40 (1.57)		
May	70 (2.76)	29 (1.14)	71 (2.80)	35 (1.38)	72 (2.83)	40 (1.57)	73 (2.87)	46 (1.81)	74 (2.91)	55 (2.17)	78 (3.07)	59 (2.32)	78 (3.07)	59 (2.32)	78 (3.07)	59 (2.32)		
June	106 (4.17)	64 (2.52)	108 (4.25)	73 (2.87)	110 (4.33)	82 (3.23)	112 (4.41)	91 (3.58)	115 (4.53)	98 (3.86)	118 (4.65)	103 (4.06)	118 (4.65)	103 (4.06)	118 (4.65)	103 (4.06)		
July	179 (7.05)	163 (6.42)	181 (7.13)	169 (6.65)	184 (7.24)	175 (6.89)	186 (7.32)	179 (7.05)	189 (7.44)	184 (7.24)	193 (7.60)	189 (7.44)	193 (7.60)	189 (7.44)	193 (7.60)	189 (7.44)		
Aug	165 (6.50)	151 (5.94)	167 (6.57)	157 (6.18)	169 (6.65)	161 (6.34)	171 (6.73)	166 (6.54)	176 (6.93)	171 (6.73)	183 (7.20)	175 (6.89)	183 (7.20)	175 (6.89)	183 (7.20)	175 (6.89)		
Sep	114 (4.49)	90 (3.54)	117 (4.61)	96 (3.78)	120 (4.72)	102 (4.02)	121 (4.76)	110 (4.33)	123 (4.84)	118 (4.65)	127 (5.00)	122 (4.80)	127 (5.00)	122 (4.80)	127 (5.00)	122 (4.80)		
Oct	67 (2.64)	33 (1.30)	69 (2.72)	41 (1.61)	71 (2.80)	48 (1.89)	74 (2.91)	54 (2.13)	78 (3.07)	63 (2.48)	81 (3.19)	71 (2.80)	81 (3.19)	71 (2.80)	81 (3.19)	71 (2.80)		
Nov	19 (0.75)	1 (0.04)	20 (0.79)	1 (0.04)	21 (0.83)	1 (0.04)	22 (0.87)	2 (0.08)	26 (1.02)	2 (0.08)	29 (1.14)	10 (0.39)	29 (1.14)	10 (0.39)	29 (1.14)	10 (0.39)		
Dec	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	2 (0.08)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	0 (0.00)		
Season	792 (31.19)	545 (21.45)	808 (31.82)	589 (23.18)	826 (32.51)	632 (24.89)	844 (33.22)	676 (26.62)	875 (34.45)	726 (28.59)	910 (35.84)	774 (30.47)	910 (35.84)	774 (30.47)	910 (35.84)	774 (30.47)		

REGION: 23 Grande Ronde Valley  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	15 (0.59)	2 (0.08)	16 (0.63)	3 (0.12)	16 (0.63)	4 (0.16)	18 (0.71)	6 (0.24)	19 (0.75)	10 (0.39)	20 (0.79)	12 (0.47)	20 (0.79)	12 (0.47)	20 (0.79)	12 (0.47)		
April	81 (3.19)	45 (1.77)	83 (3.27)	50 (1.97)	85 (3.35)	54 (2.13)	88 (3.46)	60 (2.36)	93 (3.66)	72 (2.83)	97 (3.82)	78 (3.07)	97 (3.82)	78 (3.07)	97 (3.82)	78 (3.07)		
May	113 (4.45)	68 (2.68)	115 (4.53)	74 (2.91)	117 (4.61)	83 (3.27)	120 (4.72)	92 (3.62)	125 (4.92)	102 (4.02)	129 (5.08)	110 (4.33)	129 (5.08)	110 (4.33)	129 (5.08)	110 (4.33)		
June	133 (5.24)	89 (3.50)	135 (5.31)	98 (3.86)	138 (5.43)	107 (4.21)	140 (5.51)	117 (4.61)	143 (5.63)	126 (4.96)	148 (5.83)	133 (5.24)	148 (5.83)	133 (5.24)	148 (5.83)	133 (5.24)		
July	177 (6.97)	161 (6.34)	179 (7.05)	167 (6.57)	180 (7.09)	172 (6.77)	182 (7.17)	177 (6.97)	185 (7.28)	182 (7.17)	189 (7.44)	187 (7.36)	189 (7.44)	187 (7.36)	189 (7.44)	187 (7.36)		
Aug	147 (5.79)	134 (5.28)	149 (5.87)	138 (5.43)	151 (5.94)	142 (5.59)	154 (6.06)	147 (5.79)	156 (6.14)	151 (5.94)	162 (6.38)	154 (6.06)	162 (6.38)	154 (6.06)	162 (6.38)	154 (6.06)		
Sep	101 (3.98)	78 (3.07)	104 (4.09)	83 (3.27)	106 (4.17)	89 (3.50)	108 (4.25)	97 (3.82)	111 (4.37)	105 (4.13)	112 (4.41)	108 (4.25)	112 (4.41)	108 (4.25)	112 (4.41)	108 (4.25)		
Oct	58 (2.28)	25 (0.98)	59 (2.32)	33 (1.30)	61 (2.40)	40 (1.57)	64 (2.52)	46 (1.81)	67 (2.64)	53 (2.09)	69 (2.72)	60 (2.36)	69 (2.72)	60 (2.36)	69 (2.72)	60 (2.36)		
Season	825 (32.49)	602 (23.70)	840 (33.07)	646 (25.43)	854 (33.62)	691 (27.20)	874 (34.40)	742 (29.22)	899 (35.39)	801 (31.53)	926 (36.47)	842 (33.14)	926 (36.47)	842 (33.14)	926 (36.47)	842 (33.14)		

REGION: 23 Grande Ronde Valley  
CROP: Peas

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
April	35 (1.38)	13 (0.51)	36 (1.42)	16 (0.63)	36 (1.42)	19 (0.75)	37 (1.46)	22 (0.87)	39 (1.54)	28 (1.10)	40 (1.57)	32 (1.26)
May	115 (4.53)	69 (2.72)	116 (4.57)	75 (2.95)	118 (4.65)	83 (3.27)	121 (4.76)	92 (3.62)	126 (4.96)	102 (4.02)	131 (5.16)	111 (4.37)
June	148 (5.83)	105 (4.13)	151 (5.94)	114 (4.49)	154 (6.06)	123 (4.84)	156 (6.14)	133 (5.24)	160 (6.30)	141 (5.55)	165 (6.50)	148 (5.83)
July	156 (6.14)	143 (5.63)	157 (6.18)	147 (5.79)	159 (6.26)	151 (5.94)	160 (6.30)	156 (6.14)	163 (6.42)	161 (6.34)	167 (6.57)	164 (6.46)
Season	454 (17.88)	330 (12.99)	460 (18.11)	352 (13.86)	467 (18.39)	376 (14.80)	474 (18.66)	403 (15.87)	488 (19.22)	432 (17.01)	503 (19.80)	455 (17.92)

REGION: 23 Grande Ronde Valley  
CROP: Potatoes

MONTH	5 out of 10 years		6 out of 10 years		7 out of 10 years		8 out of 10 years		9 out of 10 years		19 out of 20 years	
	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.	ET crop mm	Net IRR in.
May	33 (1.30)	10 (0.39)	33 (1.30)	13 (0.51)	34 (1.34)	16 (0.63)	34 (1.34)	21 (0.83)	35 (1.38)	25 (0.98)	35 (1.38)	28 (1.10)
June	81 (3.19)	48 (1.89)	83 (3.27)	54 (2.13)	84 (3.31)	59 (2.32)	85 (3.35)	68 (2.68)	88 (3.46)	73 (2.87)	90 (3.54)	76 (2.99)
July	187 (7.36)	172 (6.77)	189 (7.44)	177 (6.97)	190 (7.48)	183 (7.20)	192 (7.56)	188 (7.40)	196 (7.72)	194 (7.64)	200 (7.87)	198 (7.80)
Aug	168 (6.61)	156 (6.14)	172 (6.77)	161 (6.34)	175 (6.89)	165 (6.50)	177 (6.97)	170 (6.69)	180 (7.09)	175 (6.89)	185 (7.28)	177 (6.97)
Sep	108 (4.25)	86 (3.39)	111 (4.37)	91 (3.58)	113 (4.45)	96 (3.78)	115 (4.53)	104 (4.09)	117 (4.61)	111 (4.37)	120 (4.72)	115 (4.53)
Oct	16 (0.63)	7 (0.28)	16 (0.63)	9 (0.35)	17 (0.67)	12 (0.47)	17 (0.67)	14 (0.55)	18 (0.71)	15 (0.59)	18 (0.71)	17 (0.67)
Season	593 (23.34)	479 (18.86)	604 (23.78)	505 (19.88)	613 (24.14)	531 (20.90)	620 (24.42)	565 (22.24)	634 (24.97)	593 (23.34)	648 (25.50)	611 (24.06)

REGION: 24 Baker Valley  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	53 (2.09)	39 (1.54)	54 (2.13)	42 (1.65)	55 (2.17)	46 (1.81)	57 (2.24)	51 (2.01)	59 (2.32)	55 (2.17)	62 (2.44)	57 (2.24)	62 (2.44)	57 (2.24)	62 (2.44)	57 (2.24)		
May	108 (4.25)	82 (3.23)	111 (4.37)	87 (3.43)	115 (4.53)	90 (3.54)	117 (4.61)	94 (3.70)	120 (4.72)	99 (3.90)	122 (4.80)	103 (4.06)	122 (4.80)	103 (4.06)	122 (4.80)	103 (4.06)		
June	130 (5.12)	98 (3.86)	132 (5.20)	103 (4.06)	133 (5.24)	110 (4.33)	135 (5.31)	121 (4.76)	141 (5.55)	130 (5.12)	148 (5.83)	135 (5.31)	148 (5.83)	135 (5.31)	148 (5.83)	135 (5.31)		
July	171 (6.73)	156 (6.14)	172 (6.77)	161 (6.34)	174 (6.85)	166 (6.54)	177 (6.97)	171 (6.73)	182 (7.17)	176 (6.93)	183 (7.20)	178 (7.01)	183 (7.20)	178 (7.01)	183 (7.20)	178 (7.01)		
Aug	135 (5.31)	122 (4.80)	137 (5.39)	126 (4.96)	139 (5.47)	130 (5.12)	141 (5.55)	134 (5.28)	146 (5.75)	142 (5.59)	152 (5.98)	148 (5.83)	152 (5.98)	148 (5.83)	152 (5.98)	148 (5.83)		
Sep	99 (3.90)	86 (3.39)	101 (3.98)	91 (3.58)	104 (4.09)	96 (3.78)	108 (4.25)	102 (4.02)	110 (4.33)	106 (4.17)	116 (4.57)	109 (4.29)	116 (4.57)	109 (4.29)	116 (4.57)	109 (4.29)		
Season	696 (27.40)	583 (22.96)	707 (27.84)	610 (24.02)	720 (28.35)	638 (25.12)	735 (28.93)	673 (26.50)	758 (29.84)	708 (27.88)	783 (30.82)	730 (28.74)	783 (30.82)	730 (28.74)	783 (30.82)	730 (28.74)		

REGION: 24 Baker Valley  
CROP: Corn (Field)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	55 (2.17)	35 (1.38)	56 (2.20)	38 (1.50)	57 (2.26)	41 (1.61)	58 (2.28)	45 (1.77)	59 (2.32)	49 (1.93)	60 (2.36)	51 (2.01)	60 (2.36)	51 (2.01)	60 (2.36)	51 (2.01)		
June	118 (4.65)	86 (3.39)	121 (4.76)	90 (3.54)	122 (4.80)	97 (3.82)	124 (4.88)	109 (4.29)	129 (5.08)	119 (4.69)	134 (5.28)	125 (4.92)	134 (5.28)	125 (4.92)	134 (5.28)	125 (4.92)		
July	206 (8.11)	191 (7.52)	208 (8.19)	197 (7.76)	210 (8.27)	202 (7.95)	214 (8.43)	207 (8.15)	218 (8.58)	212 (8.35)	219 (8.62)	215 (8.46)	219 (8.62)	215 (8.46)	219 (8.62)	215 (8.46)		
Aug	166 (6.54)	153 (6.02)	168 (6.61)	158 (6.22)	170 (6.69)	162 (6.38)	173 (6.81)	167 (6.57)	179 (7.05)	178 (7.01)	186 (7.32)	183 (7.20)	186 (7.32)	183 (7.20)	186 (7.32)	183 (7.20)		
Sep	90 (3.54)	76 (2.99)	92 (3.62)	81 (3.19)	95 (3.74)	86 (3.39)	98 (3.86)	91 (3.58)	100 (3.94)	96 (3.78)	105 (4.13)	98 (3.86)	105 (4.13)	98 (3.86)	105 (4.13)	98 (3.86)		
Season	635 (25.01)	541 (21.30)	645 (25.38)	564 (22.21)	654 (25.74)	588 (23.15)	667 (26.26)	619 (24.36)	685 (26.97)	654 (25.76)	704 (27.71)	672 (26.45)	685 (26.97)	654 (25.76)	704 (27.71)	672 (26.45)		

REGION: 24 Baker Valley  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	32 (1.26)	21 (0.83)	33 (1.30)	23 (0.91)	33 (1.30)	25 (0.98)	34 (1.34)	26 (1.02)	34 (1.34)	26 (1.02)	34 (1.34)	29 (1.14)	35 (1.38)	30 (1.18)	35 (1.38)	30 (1.18)		
June	99 (3.90)	68 (2.68)	102 (4.02)	73 (2.87)	103 (4.06)	81 (3.19)	104 (4.09)	90 (3.54)	104 (4.09)	90 (3.54)	104 (4.09)	101 (3.98)	113 (4.45)	105 (4.13)	113 (4.45)	105 (4.13)		
July	195 (7.68)	180 (7.09)	196 (7.72)	185 (7.28)	199 (7.83)	191 (7.52)	202 (7.95)	196 (7.72)	202 (7.95)	196 (7.72)	202 (7.95)	201 (7.91)	207 (8.15)	203 (7.99)	207 (8.15)	203 (7.99)		
Aug	166 (6.54)	153 (6.02)	168 (6.61)	158 (6.22)	170 (6.69)	162 (6.38)	173 (6.81)	167 (6.57)	173 (6.81)	167 (6.57)	173 (6.81)	176 (6.93)	186 (7.32)	182 (7.17)	186 (7.32)	182 (7.17)		
Sep	19 (0.75)	18 (0.71)	19 (0.75)	19 (0.75)	20 (0.79)	20 (0.79)	21 (0.83)	20 (0.79)	21 (0.83)	20 (0.79)	21 (0.83)	21 (0.83)	22 (0.87)	22 (0.87)	22 (0.87)	22 (0.87)		
Season	511 (20.13)	440 (17.33)	518 (20.40)	458 (18.03)	525 (20.67)	479 (18.86)	534 (21.02)	499 (19.64)	534 (21.02)	499 (19.64)	534 (21.02)	528 (20.79)	563 (22.17)	542 (21.34)	563 (22.17)	542 (21.34)		

REGION: 24 Baker Valley  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	52 (2.05)	36 (1.42)	53 (2.09)	40 (1.57)	55 (2.17)	44 (1.73)	56 (2.20)	48 (1.89)	56 (2.20)	48 (1.89)	56 (2.20)	53 (2.09)	60 (2.36)	56 (2.20)	60 (2.36)	56 (2.20)		
May	123 (4.84)	95 (3.74)	127 (5.00)	100 (3.94)	130 (5.12)	104 (4.09)	132 (5.20)	109 (4.29)	132 (5.20)	109 (4.29)	132 (5.20)	115 (4.53)	140 (5.51)	119 (4.69)	140 (5.51)	119 (4.69)		
June	158 (6.22)	121 (4.76)	162 (6.38)	127 (5.00)	165 (6.50)	136 (5.35)	168 (6.61)	148 (5.83)	168 (6.61)	148 (5.83)	168 (6.61)	174 (6.85)	180 (7.09)	166 (6.54)	180 (7.09)	166 (6.54)		
July	186 (7.32)	171 (6.73)	188 (7.40)	176 (6.93)	190 (7.48)	182 (7.17)	193 (7.60)	187 (7.36)	193 (7.60)	187 (7.36)	193 (7.60)	191 (7.52)	200 (7.87)	194 (7.64)	200 (7.87)	194 (7.64)		
Aug	32 (1.26)	29 (1.14)	33 (1.30)	30 (1.18)	33 (1.30)	31 (1.22)	34 (1.34)	32 (1.26)	34 (1.34)	32 (1.26)	34 (1.34)	34 (1.34)	36 (1.42)	36 (1.42)	36 (1.42)	36 (1.42)		
Season	551 (21.69)	452 (17.79)	563 (22.17)	473 (18.62)	573 (22.57)	497 (19.56)	583 (22.95)	524 (20.63)	583 (22.95)	524 (20.63)	600 (23.62)	552 (21.74)	616 (24.25)	571 (22.49)	616 (24.25)	571 (22.49)		

REGION: 24 Baker Valley  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	12 (0.47)	4 (0.16)	13 (0.51)	6 (0.24)	13 (0.51)	7 (0.28)	14 (0.55)	8 (0.31)	15 (0.59)	11 (0.43)	17 (0.67)	13 (0.51)	17 (0.67)	13 (0.51)	17 (0.67)	13 (0.51)		
April	76 (2.99)	56 (2.20)	78 (3.07)	60 (2.36)	80 (3.15)	64 (2.52)	82 (3.23)	73 (2.87)	87 (3.43)	79 (3.11)	89 (3.50)	83 (3.27)	89 (3.50)	83 (3.27)	89 (3.50)	83 (3.27)		
May	130 (5.12)	103 (4.06)	135 (5.31)	107 (4.21)	138 (5.43)	112 (4.41)	140 (5.51)	117 (4.61)	143 (5.63)	123 (4.84)	148 (5.83)	127 (5.00)	148 (5.83)	127 (5.00)	148 (5.83)	127 (5.00)		
June	157 (6.18)	121 (4.76)	161 (6.34)	127 (5.00)	164 (6.46)	135 (5.31)	167 (6.57)	147 (5.79)	173 (6.81)	158 (6.22)	179 (7.05)	165 (6.50)	179 (7.05)	165 (6.50)	179 (7.05)	165 (6.50)		
July	140 (5.51)	127 (5.00)	141 (5.55)	133 (5.24)	143 (5.63)	137 (5.39)	145 (5.71)	141 (5.55)	149 (5.87)	144 (5.67)	151 (5.94)	145 (5.71)	151 (5.94)	145 (5.71)	151 (5.94)	145 (5.71)		
Season	515 (20.27)	411 (16.18)	528 (20.78)	433 (17.05)	538 (21.18)	455 (17.91)	548 (21.57)	486 (19.13)	567 (22.33)	515 (20.27)	584 (22.99)	533 (20.99)	584 (22.99)	533 (20.99)	584 (22.99)	533 (20.99)		

REGION: 24 Baker Valley  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
Jan	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)		
Feb	2 (0.08)	0 (0.00)	5 (0.20)	0 (0.00)	6 (0.24)	0 (0.00)	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	10 (0.39)	4 (0.16)	10 (0.39)	4 (0.16)	10 (0.39)	4 (0.16)		
March	14 (0.55)	1 (0.04)	14 (0.55)	1 (0.04)	15 (0.59)	1 (0.04)	16 (0.63)	3 (0.12)	17 (0.67)	8 (0.31)	20 (0.79)	9 (0.35)	20 (0.79)	9 (0.35)	20 (0.79)	9 (0.35)		
April	44 (1.73)	28 (1.10)	45 (1.77)	32 (1.26)	47 (1.85)	34 (1.34)	48 (1.89)	38 (1.50)	49 (1.93)	44 (1.73)	50 (1.97)	46 (1.81)	50 (1.97)	46 (1.81)	50 (1.97)	46 (1.81)		
May	71 (2.80)	46 (1.81)	72 (2.83)	50 (1.97)	73 (2.87)	53 (2.09)	74 (2.91)	57 (2.24)	76 (2.99)	61 (2.40)	77 (3.03)	65 (2.56)	77 (3.03)	65 (2.56)	77 (3.03)	65 (2.56)		
June	111 (4.37)	80 (3.15)	113 (4.45)	84 (3.31)	115 (4.53)	91 (3.58)	117 (4.61)	101 (3.98)	119 (4.69)	111 (4.37)	124 (4.88)	116 (4.57)	124 (4.88)	116 (4.57)	124 (4.88)	116 (4.57)		
July	185 (7.28)	171 (6.73)	187 (7.36)	176 (6.93)	189 (7.44)	180 (7.09)	192 (7.56)	184 (7.24)	196 (7.72)	189 (7.44)	197 (7.76)	192 (7.56)	197 (7.76)	192 (7.56)	197 (7.76)	192 (7.56)		
Aug	163 (6.42)	150 (5.91)	165 (6.50)	155 (6.10)	168 (6.61)	159 (6.26)	170 (6.69)	163 (6.42)	176 (6.93)	173 (6.81)	183 (7.20)	179 (7.05)	183 (7.20)	179 (7.05)	183 (7.20)	179 (7.05)		
Sep	120 (4.72)	107 (4.21)	123 (4.84)	113 (4.45)	125 (4.92)	118 (4.65)	129 (5.08)	123 (4.84)	133 (5.24)	129 (5.08)	139 (5.47)	132 (5.20)	139 (5.47)	132 (5.20)	139 (5.47)	132 (5.20)		
Oct	69 (2.72)	55 (2.17)	72 (2.83)	59 (2.32)	74 (2.91)	62 (2.44)	78 (3.07)	67 (2.64)	81 (3.19)	78 (3.07)	82 (3.23)	82 (3.23)	82 (3.23)	82 (3.23)	82 (3.23)	82 (3.23)		
Nov	12 (0.47)	1 (0.04)	13 (0.51)	1 (0.04)	17 (0.67)	1 (0.04)	19 (0.75)	3 (0.12)	20 (0.79)	10 (0.39)	20 (0.79)	13 (0.51)	20 (0.79)	13 (0.51)	20 (0.79)	13 (0.51)		
Dec	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)		
Season	791 (31.14)	639 (25.16)	809 (31.84)	671 (26.42)	829 (32.63)	699 (27.53)	850 (33.47)	739 (29.10)	875 (34.46)	803 (31.60)	904 (35.59)	838 (33.00)	904 (35.59)	838 (33.00)	904 (35.59)	838 (33.00)		

REGION: 24 Baker Valley  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	
April	16 (0.63)	12 (0.47)	16 (0.63)	13 (0.51)	16 (0.63)	14 (0.55)	17 (0.67)	15 (0.59)	17 (0.67)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)
May	77 (3.03)	55 (2.17)	78 (3.07)	60 (2.36)	80 (3.15)	63 (2.48)	82 (3.23)	66 (2.60)	83 (3.27)	69 (2.72)	84 (3.31)	69 (2.72)	84 (3.31)	69 (2.72)	84 (3.31)	72 (2.83)	84 (3.31)	72 (2.83)	84 (3.31)
June	120 (4.72)	93 (3.66)	123 (4.84)	97 (3.82)	126 (4.96)	102 (4.02)	128 (5.04)	113 (4.45)	131 (5.16)	122 (4.80)	138 (5.43)	122 (4.80)	138 (5.43)	122 (4.80)	138 (5.43)	127 (5.00)	138 (5.43)	127 (5.00)	138 (5.43)
July	189 (7.44)	177 (6.97)	190 (7.48)	182 (7.17)	192 (7.56)	186 (7.32)	196 (7.72)	191 (7.52)	201 (7.91)	195 (7.68)	203 (7.99)	195 (7.68)	203 (7.99)	195 (7.68)	203 (7.99)	197 (7.76)	203 (7.99)	197 (7.76)	203 (7.99)
Aug	150 (5.91)	139 (5.47)	152 (5.98)	143 (5.63)	154 (6.06)	147 (5.79)	157 (6.18)	150 (5.91)	162 (6.38)	158 (6.22)	168 (6.61)	158 (6.22)	168 (6.61)	158 (6.22)	168 (6.61)	165 (6.50)	168 (6.61)	165 (6.50)	168 (6.61)
Sep	47 (1.85)	43 (1.69)	48 (1.89)	45 (1.77)	49 (1.93)	47 (1.85)	51 (2.01)	49 (1.93)	52 (2.05)	51 (2.01)	54 (2.13)	51 (2.01)	54 (2.13)	51 (2.01)	54 (2.13)	52 (2.05)	54 (2.13)	52 (2.05)	54 (2.13)
Season	599 (23.58)	519 (20.43)	607 (23.89)	540 (21.26)	617 (24.29)	559 (22.01)	631 (24.85)	584 (23.00)	646 (25.44)	611 (24.06)	664 (26.14)	611 (24.06)	664 (26.14)	611 (24.06)	664 (26.14)	630 (24.81)	664 (26.14)	630 (24.81)	664 (26.14)

REGION: 24 Baker Valley  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm
March	13 (0.51)	7 (0.28)	14 (0.55)	9 (0.35)	15 (0.59)	9 (0.35)	15 (0.59)	11 (0.43)	17 (0.67)	13 (0.51)	19 (0.75)	13 (0.51)	19 (0.75)	13 (0.51)	19 (0.75)	14 (0.55)	19 (0.75)	14 (0.55)	19 (0.75)
April	80 (3.15)	59 (2.32)	82 (3.23)	63 (2.48)	84 (3.31)	68 (2.68)	86 (3.39)	78 (3.07)	89 (3.50)	83 (3.27)	94 (3.70)	83 (3.27)	94 (3.70)	83 (3.27)	94 (3.70)	87 (3.43)	94 (3.70)	87 (3.43)	94 (3.70)
May	116 (4.57)	89 (3.50)	119 (4.69)	93 (3.66)	122 (4.80)	97 (3.82)	125 (4.92)	102 (4.02)	128 (5.04)	107 (4.21)	131 (5.16)	107 (4.21)	131 (5.16)	107 (4.21)	131 (5.16)	111 (4.37)	131 (5.16)	111 (4.37)	131 (5.16)
June	139 (5.47)	106 (4.17)	141 (5.55)	110 (4.33)	142 (5.59)	118 (4.65)	144 (5.67)	130 (5.12)	151 (5.94)	140 (5.51)	158 (6.22)	140 (5.51)	158 (6.22)	140 (5.51)	158 (6.22)	145 (5.71)	158 (6.22)	145 (5.71)	158 (6.22)
July	182 (7.17)	168 (6.61)	184 (7.24)	173 (6.81)	186 (7.32)	178 (7.01)	189 (7.44)	183 (7.20)	194 (7.64)	187 (7.36)	196 (7.72)	187 (7.36)	196 (7.72)	187 (7.36)	196 (7.72)	190 (7.48)	196 (7.72)	190 (7.48)	196 (7.72)
Aug	144 (5.67)	132 (5.20)	146 (5.75)	136 (5.35)	148 (5.83)	140 (5.51)	150 (5.91)	145 (5.71)	156 (6.14)	154 (6.06)	161 (6.34)	154 (6.06)	161 (6.34)	154 (6.06)	161 (6.34)	159 (6.26)	161 (6.34)	159 (6.26)	161 (6.34)
Sep	107 (4.21)	93 (3.66)	109 (4.29)	99 (3.90)	111 (4.37)	103 (4.06)	115 (4.53)	108 (4.25)	118 (4.65)	113 (4.45)	123 (4.84)	113 (4.45)	123 (4.84)	113 (4.45)	123 (4.84)	116 (4.57)	123 (4.84)	116 (4.57)	123 (4.84)
Oct	60 (2.36)	46 (1.81)	61 (2.40)	49 (1.93)	64 (2.52)	52 (2.05)	67 (2.64)	57 (2.24)	70 (2.76)	64 (2.52)	72 (2.83)	64 (2.52)	72 (2.83)	64 (2.52)	72 (2.83)	69 (2.72)	72 (2.83)	69 (2.72)	72 (2.83)
Season	841 (33.11)	700 (27.55)	856 (33.70)	752 (28.81)	872 (34.33)	765 (30.13)	891 (35.09)	814 (32.04)	923 (36.34)	861 (33.89)	954 (37.56)	861 (33.89)	954 (37.56)	861 (33.89)	954 (37.56)	891 (35.09)	954 (37.56)	891 (35.09)	954 (37.56)



REGION: 24 Baker Valley  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years																		
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.																
April	34 (1.34)	24 (0.94)	35 (1.38)	26 (1.02)	35 (1.38)	29 (1.14)	36 (1.42)	31 (1.22)	37 (1.46)	34 (1.34)	39 (1.54)	36 (1.42)	118 (4.65)	90 (3.54)	121 (4.76)	161 (6.34)	127 (5.00)	164 (6.37)	147 (5.79)	173 (6.81)	158 (6.22)	179 (7.05)	165 (6.50)											
May	157 (6.18)	121 (4.76)	161 (6.34)	127 (5.00)	164 (6.37)	147 (5.79)	173 (6.81)	158 (6.22)	179 (7.05)	165 (6.50)	160 (6.30)	151 (5.94)	162 (6.38)	155 (6.10)	163 (6.42)	159 (6.26)	166 (6.54)	163 (6.42)	171 (6.73)	166 (6.54)	172 (6.77)	168 (6.61)	469 (18.47)	386 (15.18)	479 (18.86)	403 (15.86)	486 (19.14)	422 (16.61)	495 (19.49)	445 (17.52)	511 (20.12)	467 (18.39)	523 (20.60)	482 (18.98)

REGION: 24 Baker Valley  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.						
May	33 (1.30)	20 (0.79)	34 (1.34)	21 (0.83)	34 (1.34)	23 (0.91)	35 (1.38)	25 (0.98)	35 (1.38)	27 (1.06)	36 (1.42)	30 (1.18)	84 (3.31)	57 (2.24)	86 (3.39)	62 (2.44)	87 (3.43)	67 (2.64)	88 (3.46)	75 (2.95)	90 (3.54)	85 (3.35)	96 (3.78)	89 (3.50)
June	192 (7.56)	179 (7.05)	194 (7.64)	184 (7.24)	196 (7.72)	188 (7.40)	200 (7.87)	193 (7.60)	203 (7.99)	198 (7.80)	205 (8.07)	200 (7.87)	166 (6.54)	154 (6.06)	168 (6.61)	159 (6.26)	170 (6.69)	162 (6.38)	173 (6.81)	166 (6.54)	179 (7.05)	175 (6.89)	186 (7.32)	182 (7.17)
July	114 (4.49)	102 (4.02)	116 (4.57)	107 (4.21)	119 (4.69)	112 (4.41)	122 (4.80)	116 (4.57)	125 (4.92)	121 (4.76)	131 (5.16)	125 (4.92)	114 (4.49)	102 (4.02)	116 (4.57)	107 (4.21)	119 (4.69)	112 (4.41)	122 (4.80)	116 (4.57)	125 (4.92)	121 (4.76)	131 (5.16)	125 (4.92)
Aug	16 (0.63)	14 (0.55)	17 (0.67)	15 (0.59)	17 (0.67)	16 (0.63)	18 (0.71)	17 (0.67)	18 (0.71)	18 (0.71)	19 (0.75)	19 (0.75)	605 (23.83)	526 (20.71)	615 (24.22)	548 (21.57)	623 (24.54)	568 (22.37)	636 (25.03)	592 (23.31)	650 (25.59)	624 (24.57)	673 (26.50)	645 (25.39)
Sep	114 (4.49)	102 (4.02)	116 (4.57)	107 (4.21)	119 (4.69)	112 (4.41)	122 (4.80)	116 (4.57)	125 (4.92)	121 (4.76)	131 (5.16)	125 (4.92)	114 (4.49)	102 (4.02)	116 (4.57)	107 (4.21)	119 (4.69)	112 (4.41)	122 (4.80)	116 (4.57)	125 (4.92)	121 (4.76)	131 (5.16)	125 (4.92)
Oct	16 (0.63)	14 (0.55)	17 (0.67)	15 (0.59)	17 (0.67)	16 (0.63)	18 (0.71)	17 (0.67)	18 (0.71)	18 (0.71)	19 (0.75)	19 (0.75)	605 (23.83)	526 (20.71)	615 (24.22)	548 (21.57)	623 (24.54)	568 (22.37)	636 (25.03)	592 (23.31)	650 (25.59)	624 (24.57)	673 (26.50)	645 (25.39)

REGION: 25 Pine and Eagle valleys  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	71 (2.80)	57 (2.24)	73 (2.87)	61 (2.40)	75 (2.95)	65 (2.56)	78 (3.07)	71 (2.80)	83 (3.27)	78 (3.07)	86 (3.39)	81 (3.19)						
May	139 (5.47)	113 (4.45)	143 (5.63)	118 (4.65)	147 (5.79)	123 (4.84)	152 (5.98)	136 (5.35)	159 (6.26)	154 (6.06)	165 (6.50)	164 (6.46)						
June	167 (6.57)	139 (5.47)	171 (6.73)	148 (5.83)	173 (6.81)	158 (6.22)	180 (7.09)	168 (6.61)	190 (7.48)	175 (6.89)	197 (7.76)	179 (7.05)						
July	195 (7.68)	189 (7.44)	198 (7.80)	191 (7.52)	200 (7.87)	194 (7.64)	206 (8.11)	197 (7.76)	217 (8.54)	206 (8.11)	221 (8.70)	212 (8.35)						
Aug	142 (5.59)	136 (5.35)	144 (5.67)	140 (5.51)	146 (5.75)	143 (5.63)	148 (5.83)	146 (5.75)	151 (5.94)	150 (5.91)	153 (6.02)	153 (6.02)						
Sep	103 (4.06)	92 (3.62)	105 (4.13)	95 (3.74)	108 (4.25)	99 (3.90)	110 (4.33)	103 (4.06)	112 (4.41)	108 (4.25)	115 (4.53)	113 (4.45)						
Season	817 (32.17)	726 (28.57)	834 (32.83)	753 (29.65)	849 (33.42)	782 (30.79)	874 (34.41)	821 (32.33)	912 (35.90)	871 (34.29)	937 (36.90)	902 (35.52)						

REGION: 25 Pine and Eagle valleys  
CROP: Corn (Field)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	65 (2.56)	46 (1.81)	66 (2.60)	49 (1.93)	66 (2.60)	53 (2.09)	68 (2.68)	60 (2.36)	70 (2.76)	65 (2.56)	71 (2.80)	68 (2.68)						
June	146 (5.75)	120 (4.72)	148 (5.83)	128 (5.04)	151 (5.94)	140 (5.51)	158 (6.22)	149 (5.87)	165 (6.50)	156 (6.14)	169 (6.65)	160 (6.30)						
July	234 (9.21)	227 (8.94)	237 (9.33)	230 (9.06)	240 (9.45)	233 (9.17)	247 (9.72)	236 (9.29)	260 (10.24)	247 (9.72)	264 (10.39)	255 (10.04)						
Aug	174 (6.85)	167 (6.57)	176 (6.93)	171 (6.73)	178 (7.01)	174 (6.85)	183 (7.20)	178 (7.01)	187 (7.36)	182 (7.17)	188 (7.40)	186 (7.32)						
Sep	93 (3.66)	83 (3.27)	95 (3.74)	87 (3.43)	96 (3.78)	90 (3.54)	97 (3.82)	94 (3.70)	101 (3.98)	97 (3.82)	104 (4.09)	102 (4.02)						
Season	712 (28.03)	643 (25.31)	722 (28.43)	665 (26.19)	731 (28.78)	690 (27.16)	753 (29.64)	717 (28.23)	783 (30.84)	747 (29.41)	796 (31.33)	771 (30.36)						

REGION: 25 Pine and Eagle valleys  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.		
May	37 (1.46)	27 (1.06)	37 (1.46)	28 (1.10)	38 (1.50)	31 (1.22)	38 (1.50)	35 (1.38)	39 (1.54)	38 (1.50)	39 (1.54)	38 (1.50)	40 (1.57)	39 (1.54)	40 (1.57)	39 (1.54)		
June	119 (4.69)	93 (3.66)	121 (4.76)	102 (4.02)	124 (4.88)	111 (4.37)	129 (5.08)	118 (4.65)	135 (5.31)	124 (4.88)	135 (5.31)	124 (4.88)	138 (5.43)	127 (5.00)	138 (5.43)	127 (5.00)		
July	220 (8.66)	213 (8.39)	222 (8.74)	216 (8.50)	225 (8.86)	219 (8.62)	231 (9.09)	222 (8.74)	243 (9.57)	232 (9.13)	243 (9.57)	232 (9.13)	246 (9.69)	239 (9.41)	246 (9.69)	239 (9.41)		
Aug	174 (6.85)	167 (6.57)	176 (6.93)	171 (6.73)	178 (7.01)	174 (6.85)	183 (7.20)	178 (7.01)	187 (7.36)	182 (7.17)	187 (7.36)	182 (7.17)	188 (7.40)	186 (7.32)	188 (7.40)	186 (7.32)		
Sep	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	20 (0.79)	21 (0.83)	21 (0.83)	21 (0.83)	21 (0.83)	21 (0.83)	21 (0.83)	22 (0.87)	21 (0.83)	22 (0.87)	21 (0.83)		
Season	570 (22.45)	520 (20.47)	576 (22.68)	537 (21.14)	585 (23.04)	555 (21.85)	602 (23.70)	574 (22.61)	625 (24.61)	597 (23.51)	625 (24.61)	597 (23.51)	634 (24.96)	612 (24.10)	634 (24.96)	612 (24.10)		

REGION: 25 Pine and Eagle valleys  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.		
April	66 (2.60)	48 (1.89)	67 (2.64)	52 (2.05)	68 (2.68)	56 (2.20)	70 (2.76)	61 (2.40)	74 (2.91)	69 (2.72)	74 (2.91)	69 (2.72)	76 (2.99)	72 (2.83)	76 (2.99)	72 (2.83)		
May	158 (6.22)	130 (5.12)	161 (6.34)	136 (5.35)	165 (6.50)	141 (5.55)	171 (6.73)	155 (6.10)	179 (7.05)	175 (6.89)	179 (7.05)	175 (6.89)	191 (7.52)	185 (7.28)	191 (7.52)	185 (7.28)		
June	203 (7.99)	171 (6.73)	208 (8.19)	180 (7.09)	211 (8.31)	194 (7.64)	220 (8.66)	206 (8.11)	231 (9.09)	214 (8.43)	231 (9.09)	214 (8.43)	239 (9.41)	220 (8.66)	239 (9.41)	220 (8.66)		
July	214 (8.43)	206 (8.11)	216 (8.50)	209 (8.23)	219 (8.62)	212 (8.35)	225 (8.86)	215 (8.46)	237 (9.33)	225 (8.86)	237 (9.33)	225 (8.86)	241 (9.49)	232 (9.13)	241 (9.49)	232 (9.13)		
Aug	34 (1.34)	34 (1.34)	34 (1.34)	34 (1.34)	34 (1.34)	34 (1.34)	36 (1.42)	36 (1.42)	36 (1.42)	36 (1.42)	36 (1.42)	36 (1.42)	37 (1.46)	37 (1.46)	37 (1.46)	37 (1.46)		
Season	675 (26.58)	589 (23.19)	686 (27.01)	611 (24.06)	697 (27.45)	637 (25.08)	722 (28.43)	673 (26.49)	757 (29.80)	719 (28.32)	757 (29.80)	719 (28.32)	784 (30.87)	746 (29.36)	784 (30.87)	746 (29.36)		

REGION: 25 Pine and Eagle valleys  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years									
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.							
March	18 (0.71)	6 (0.24)	19 (0.75)	8 (0.31)	19 (0.75)	11 (0.43)	20 (0.79)	13 (0.51)	21 (0.83)	16 (0.63)	22 (0.87)	17 (0.67)	101 (3.98)	80 (3.15)	104 (4.09)	85 (3.35)	107 (4.21)	90 (3.54)	110 (4.33)	97 (3.82)	117 (4.61)	108 (4.25)	122 (4.80)	115 (4.53)	
April	169 (6.65)	138 (5.43)	173 (6.81)	145 (5.71)	178 (7.01)	153 (6.02)	184 (7.24)	169 (6.65)	193 (7.60)	189 (7.44)	200 (7.87)	200 (7.87)	203 (7.99)	171 (6.73)	207 (8.15)	181 (7.13)	210 (8.27)	194 (7.64)	218 (8.58)	205 (8.07)	231 (9.09)	214 (8.43)	239 (9.41)	219 (8.62)	
July	161 (6.34)	154 (6.06)	163 (6.42)	157 (6.18)	165 (6.50)	159 (6.26)	169 (6.65)	162 (6.38)	178 (7.01)	168 (6.61)	182 (7.17)	173 (6.81)	Season	652 (25.67)	549 (21.61)	666 (26.22)	576 (22.68)	679 (26.74)	607 (23.89)	701 (27.59)	646 (25.43)	740 (29.14)	695 (27.36)	765 (30.12)	724 (28.50)

REGION: 25 Pine and Eagle valleys  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.						
Jan	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	2 (0.08)	0 (0.00)	3 (0.12)	0 (0.00)	6 (0.24)	0 (0.00)	7 (0.28)	0 (0.00)	8 (0.31)	0 (0.00)	9 (0.35)	0 (0.00)	11 (0.43)	0 (0.00)	13 (0.51)	0 (0.00)	14 (0.55)	4 (0.16)
Feb	22 (0.87)	2 (0.08)	22 (0.87)	2 (0.08)	23 (0.91)	7 (0.28)	24 (0.94)	10 (0.39)	26 (1.02)	15 (0.59)	28 (1.10)	16 (0.63)	54 (2.13)	38 (1.50)	55 (2.17)	41 (1.61)	57 (2.24)	44 (1.73)	58 (2.28)	48 (1.89)	61 (2.40)	55 (2.17)	62 (2.44)	58 (2.28)
March	83 (3.27)	60 (2.36)	84 (3.31)	63 (2.48)	86 (3.39)	66 (2.60)	87 (3.43)	76 (2.99)	92 (3.62)	86 (3.39)	93 (3.66)	89 (3.50)	135 (5.31)	110 (4.33)	138 (5.43)	117 (4.61)	140 (5.51)	128 (5.04)	148 (5.83)	135 (5.31)	153 (6.02)	143 (5.63)	158 (6.22)	147 (5.79)
April	209 (8.23)	202 (7.95)	211 (8.31)	205 (8.07)	214 (8.43)	208 (8.19)	220 (8.66)	211 (8.31)	229 (9.02)	220 (8.66)	233 (9.17)	227 (8.94)	170 (6.69)	165 (6.50)	171 (6.73)	168 (6.61)	172 (6.77)	172 (6.77)	178 (7.01)	175 (6.89)	184 (7.24)	179 (7.05)	185 (7.28)	183 (7.20)
May	124 (4.88)	110 (4.33)	126 (4.96)	115 (4.53)	128 (5.04)	120 (4.72)	130 (5.12)	125 (4.92)	134 (5.28)	130 (5.12)	138 (5.43)	135 (5.31)	78 (3.07)	65 (2.56)	83 (3.27)	69 (2.72)	85 (3.35)	79 (3.11)	92 (3.62)	85 (3.35)	94 (3.70)	87 (3.43)	94 (3.70)	87 (3.43)
June	17 (0.67)	1 (0.04)	19 (0.75)	1 (0.04)	20 (0.79)	2 (0.08)	22 (0.87)	2 (0.08)	27 (1.06)	11 (0.43)	29 (1.14)	18 (0.71)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	0 (0.00)	3 (0.12)	0 (0.00)
July	900 (35.44)	753 (29.65)	918 (36.15)	781 (30.75)	935 (36.82)	820 (32.28)	966 (38.04)	861 (33.89)	1014 (39.91)	924 (36.39)	1043 (41.05)	964 (37.95)												

REGION: 25 Pine and Eagle valleys  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	19 (0.75)	15 (0.59)	19 (0.75)	17 (0.67)	20 (0.79)	18 (0.79)	20 (0.79)	18 (0.71)	20 (0.79)	19 (0.79)	20 (0.79)	19 (0.79)	21 (0.83)	20 (0.79)	21 (0.83)	20 (0.79)		
May	92 (3.62)	71 (2.80)	94 (3.70)	75 (2.95)	95 (3.74)	79 (3.11)	98 (3.86)	86 (3.39)	102 (4.02)	96 (3.78)	104 (4.09)	100 (3.94)	104 (4.09)	100 (3.94)	104 (4.09)	100 (3.94)		
June	150 (5.91)	127 (5.00)	153 (6.02)	134 (5.28)	157 (6.18)	142 (5.59)	162 (6.38)	152 (5.98)	170 (6.69)	160 (6.50)	177 (6.97)	166 (6.54)	177 (6.97)	166 (6.54)	177 (6.97)	166 (6.54)		
July	215 (8.46)	208 (8.19)	217 (8.54)	211 (8.31)	220 (8.66)	214 (8.43)	226 (8.90)	218 (8.58)	238 (9.37)	227 (8.94)	242 (9.53)	236 (9.29)	242 (9.53)	236 (9.29)	242 (9.53)	236 (9.29)		
Aug	156 (6.14)	151 (5.94)	157 (6.18)	154 (6.06)	158 (6.22)	157 (6.18)	165 (6.50)	161 (6.34)	169 (6.65)	165 (6.50)	170 (6.69)	168 (6.61)	170 (6.69)	168 (6.61)	170 (6.69)	168 (6.61)		
Sep	48 (1.89)	45 (1.77)	48 (1.89)	46 (1.81)	49 (1.93)	48 (1.89)	51 (2.01)	49 (1.93)	52 (2.05)	51 (2.01)	54 (2.13)	53 (2.09)	54 (2.13)	53 (2.09)	54 (2.13)	53 (2.09)		
Season	680 (26.77)	617 (24.29)	688 (27.08)	637 (25.08)	699 (27.52)	658 (25.91)	722 (28.44)	685 (26.97)	752 (29.61)	719 (28.32)	768 (30.24)	743 (29.26)	768 (30.24)	743 (29.26)	768 (30.24)	743 (29.26)		

REGION: 25 Pine and Eagle valleys  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	20 (0.79)	12 (0.47)	21 (0.83)	13 (0.51)	21 (0.83)	15 (0.59)	22 (0.87)	18 (0.71)	24 (0.94)	20 (0.79)	26 (1.02)	21 (0.83)	26 (1.02)	21 (0.83)	26 (1.02)	21 (0.83)		
April	108 (4.25)	85 (3.35)	110 (4.33)	91 (3.58)	113 (4.45)	96 (3.78)	118 (4.65)	107 (4.21)	127 (5.00)	117 (4.61)	132 (5.20)	122 (4.80)	132 (5.20)	122 (4.80)	132 (5.20)	122 (4.80)		
May	148 (5.83)	120 (4.72)	152 (5.98)	126 (4.96)	157 (6.18)	132 (5.20)	162 (6.38)	146 (5.75)	170 (6.69)	165 (6.50)	176 (6.93)	175 (6.89)	176 (6.93)	175 (6.89)	176 (6.93)	175 (6.89)		
June	178 (7.01)	148 (5.83)	182 (7.17)	157 (6.18)	185 (7.28)	168 (6.61)	192 (7.56)	179 (7.05)	202 (7.95)	187 (7.36)	210 (8.27)	191 (7.52)	210 (8.27)	191 (7.52)	210 (8.27)	191 (7.52)		
July	208 (8.19)	201 (7.91)	211 (8.31)	204 (8.03)	213 (8.39)	207 (8.15)	219 (8.62)	210 (8.27)	231 (9.09)	219 (8.62)	235 (9.25)	225 (8.86)	235 (9.25)	225 (8.86)	235 (9.25)	225 (8.86)		
Aug	152 (5.98)	146 (5.75)	154 (6.06)	149 (5.87)	156 (6.14)	152 (5.98)	159 (6.26)	155 (6.10)	163 (6.42)	159 (6.26)	164 (6.46)	162 (6.38)	164 (6.46)	162 (6.38)	164 (6.46)	162 (6.38)		
Sep	110 (4.33)	98 (3.86)	112 (4.41)	102 (4.02)	113 (4.45)	106 (4.17)	115 (4.53)	111 (4.37)	118 (4.65)	115 (4.53)	122 (4.80)	119 (4.69)	122 (4.80)	119 (4.69)	122 (4.80)	119 (4.69)		
Oct	69 (2.72)	54 (2.13)	72 (2.83)	57 (2.24)	75 (2.95)	62 (2.44)	77 (3.03)	68 (2.68)	80 (3.15)	72 (2.83)	81 (3.19)	74 (2.91)	81 (3.19)	74 (2.91)	81 (3.19)	74 (2.91)		
Season	993 (39.10)	864 (34.02)	1014 (39.92)	899 (35.39)	1033 (40.67)	938 (36.92)	1064 (41.90)	994 (39.14)	1115 (43.89)	1054 (41.50)	1146 (45.12)	1089 (42.86)	1146 (45.12)	1089 (42.86)	1146 (45.12)	1089 (42.86)		

REGION: 25 Pine and Eagle valleys  
CROP: Peas

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
April	42 (1.65)	31 (1.22)	34 (1.34)	43 (1.69)	37 (1.46)	40 (1.57)	45 (1.77)	37 (1.46)	46 (1.81)	40 (1.57)	48 (1.89)	45 (1.77)	49 (1.93)	47 (1.85)	49 (1.93)	47 (1.85)	47 (1.85)	
May	150 (5.91)	122 (4.80)	127 (5.00)	153 (6.02)	132 (5.20)	163 (6.42)	157 (6.18)	132 (5.20)	163 (6.42)	146 (5.75)	175 (6.89)	167 (6.57)	180 (7.09)	177 (6.97)	180 (7.09)	177 (6.97)	177 (6.97)	
June	203 (7.99)	171 (6.73)	181 (7.13)	207 (8.15)	194 (7.64)	219 (8.62)	211 (8.31)	194 (7.64)	219 (8.62)	205 (8.07)	231 (9.09)	215 (8.46)	239 (9.41)	223 (8.78)	239 (9.41)	223 (8.78)	223 (8.78)	
July	184 (7.24)	180 (7.09)	186 (7.32)	186 (7.32)	182 (7.17)	188 (7.40)	188 (7.40)	185 (7.28)	193 (7.60)	187 (7.36)	204 (8.03)	195 (7.68)	208 (8.19)	201 (7.91)	208 (8.19)	201 (7.91)	201 (7.91)	
Season	579 (22.79)	504 (19.84)	524 (20.64)	589 (23.18)	524 (20.64)	601 (23.66)	601 (23.66)	548 (21.58)	621 (24.45)	578 (22.75)	658 (25.90)	622 (24.48)	676 (26.62)	648 (25.51)	676 (26.62)	648 (25.51)	648 (25.51)	

REGION: 25 Pine and Eagle valleys  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	
May	37 (1.46)	24 (0.94)	27 (1.06)	38 (1.50)	31 (1.22)	35 (1.38)	38 (1.50)	31 (1.22)	39 (1.54)	35 (1.38)	39 (1.54)	38 (1.50)	40 (1.57)	40 (1.57)	40 (1.57)	40 (1.57)	40 (1.57)	
June	100 (3.94)	79 (3.11)	87 (3.43)	102 (4.02)	87 (3.43)	104 (4.09)	104 (4.09)	93 (3.66)	109 (4.29)	100 (3.94)	114 (4.49)	105 (4.13)	116 (4.57)	107 (4.21)	116 (4.57)	107 (4.21)	107 (4.21)	
July	217 (8.54)	211 (8.31)	214 (8.43)	219 (8.62)	214 (8.43)	222 (8.74)	222 (8.74)	217 (8.54)	229 (9.02)	219 (8.62)	240 (9.45)	229 (9.02)	244 (9.61)	236 (9.29)	244 (9.61)	236 (9.29)	236 (9.29)	
Aug	174 (6.85)	168 (6.61)	172 (6.77)	176 (6.93)	172 (6.77)	178 (7.01)	178 (7.01)	175 (6.89)	183 (7.20)	178 (7.01)	187 (7.36)	183 (7.20)	188 (7.40)	186 (7.32)	188 (7.40)	186 (7.32)	186 (7.32)	
Sep	117 (4.61)	104 (4.09)	109 (4.29)	120 (4.72)	109 (4.29)	121 (4.76)	121 (4.76)	113 (4.45)	123 (4.84)	118 (4.65)	127 (5.00)	123 (4.84)	131 (5.16)	128 (5.04)	131 (5.16)	128 (5.04)	128 (5.04)	
Oct	18 (0.71)	16 (0.63)	17 (0.67)	19 (0.75)	17 (0.67)	20 (0.79)	20 (0.79)	18 (0.71)	20 (0.79)	19 (0.75)	21 (0.83)	20 (0.79)	21 (0.83)	21 (0.83)	21 (0.83)	21 (0.83)	21 (0.83)	
Season	663 (26.11)	602 (23.69)	626 (24.65)	674 (26.54)	626 (24.65)	683 (26.89)	683 (26.89)	647 (25.47)	703 (27.68)	669 (26.35)	728 (28.67)	698 (27.48)	740 (29.14)	718 (28.26)	740 (29.14)	718 (28.26)	718 (28.26)	

REGION: 26 Malheur  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
April	88 (3.46)	74 (2.91)	89 (3.50)	78 (3.07)	93 (3.66)	82 (3.23)	96 (3.78)	85 (3.35)	99 (3.90)	94 (3.70)	101 (3.98)	99 (3.90)	101 (3.98)	99 (3.90)	101 (3.98)	99 (3.90)		
May	134 (5.28)	110 (4.33)	136 (5.35)	115 (4.53)	138 (5.43)	119 (4.69)	140 (5.51)	125 (4.92)	144 (5.67)	134 (5.28)	151 (5.94)	137 (5.39)	151 (5.94)	137 (5.39)	151 (5.94)	137 (5.39)		
June	160 (6.30)	139 (5.47)	163 (6.42)	145 (5.71)	166 (6.54)	151 (5.94)	169 (6.65)	158 (6.22)	173 (6.81)	167 (6.57)	181 (7.13)	173 (6.81)	181 (7.13)	173 (6.81)	181 (7.13)	173 (6.81)		
July	199 (7.83)	194 (7.64)	201 (7.91)	196 (7.72)	203 (7.99)	200 (7.87)	205 (8.07)	203 (7.99)	207 (8.15)	207 (8.15)	212 (8.35)	209 (8.23)	212 (8.35)	209 (8.23)	212 (8.35)	209 (8.23)		
Aug	156 (6.14)	149 (5.87)	157 (6.18)	152 (5.98)	158 (6.22)	156 (6.14)	160 (6.30)	159 (6.26)	165 (6.50)	164 (6.46)	168 (6.61)	166 (6.54)	168 (6.61)	166 (6.54)	168 (6.61)	166 (6.54)		
Sep	110 (4.33)	103 (4.06)	113 (4.45)	106 (4.17)	115 (4.53)	110 (4.33)	118 (4.65)	114 (4.49)	122 (4.80)	118 (4.65)	124 (4.88)	120 (4.72)	124 (4.88)	120 (4.72)	124 (4.88)	120 (4.72)		
Oct	56 (2.20)	47 (1.85)	57 (2.24)	50 (1.97)	59 (2.32)	53 (2.09)	60 (2.36)	56 (2.20)	61 (2.40)	59 (2.32)	63 (2.48)	62 (2.44)	63 (2.48)	62 (2.44)	63 (2.48)	62 (2.44)		
Season	903 (35.54)	816 (32.13)	916 (36.05)	842 (33.15)	932 (36.69)	871 (34.29)	948 (37.32)	900 (35.43)	971 (38.23)	943 (37.13)	1000 (39.37)	966 (38.03)	1000 (39.37)	966 (38.03)	1000 (39.37)	966 (38.03)		

REGION: 26 Malheur  
CROP: Corn (Field)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	63 (2.48)	46 (1.81)	64 (2.52)	49 (1.93)	64 (2.52)	52 (2.05)	65 (2.56)	56 (2.20)	66 (2.60)	60 (2.36)	68 (2.68)	62 (2.44)	68 (2.68)	62 (2.44)	68 (2.68)	62 (2.44)		
June	120 (4.72)	100 (3.94)	122 (4.80)	107 (4.21)	124 (4.88)	112 (4.41)	126 (4.96)	118 (4.65)	132 (5.20)	127 (5.00)	135 (5.31)	133 (5.24)	135 (5.31)	133 (5.24)	135 (5.31)	133 (5.24)		
July	234 (9.21)	228 (8.98)	237 (9.33)	231 (9.09)	239 (9.41)	235 (9.25)	242 (9.53)	238 (9.37)	244 (9.61)	244 (9.61)	250 (9.84)	247 (9.72)	250 (9.84)	247 (9.72)	250 (9.84)	247 (9.72)		
Aug	192 (7.56)	185 (7.28)	193 (7.60)	189 (7.44)	194 (7.64)	193 (7.50)	197 (7.76)	197 (7.76)	204 (8.03)	202 (7.95)	207 (8.15)	205 (8.07)	207 (8.15)	205 (8.07)	207 (8.15)	205 (8.07)		
Sep	117 (4.61)	109 (4.29)	119 (4.69)	112 (4.41)	122 (4.80)	115 (4.53)	125 (4.92)	119 (4.69)	130 (5.12)	124 (4.88)	131 (5.16)	127 (5.00)	131 (5.16)	127 (5.00)	131 (5.16)	127 (5.00)		
Oct	17 (0.67)	14 (0.55)	17 (0.67)	15 (0.59)	18 (0.71)	16 (0.63)	18 (0.71)	17 (0.67)	19 (0.75)	18 (0.71)	19 (0.75)	18 (0.71)	19 (0.75)	18 (0.71)	19 (0.75)	18 (0.71)		
Season	743 (29.25)	682 (26.85)	752 (29.61)	703 (27.67)	761 (29.96)	723 (28.47)	773 (30.44)	745 (29.34)	795 (31.31)	775 (30.51)	810 (31.89)	792 (31.18)	810 (31.89)	792 (31.18)	810 (31.89)	792 (31.18)		

REGION: 26 Malheur  
CROP: Corn (Silage)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	69 (2.72)	50 (1.97)	69 (2.72)	54 (2.13)	70 (2.76)	57 (2.24)	71 (2.80)	61 (2.40)	72 (2.83)	65 (2.56)	74 (2.91)	67 (2.64)						
June	146 (5.75)	125 (4.92)	148 (5.83)	131 (5.16)	150 (5.91)	137 (5.39)	153 (6.02)	143 (5.63)	161 (6.34)	155 (6.10)	165 (6.50)	159 (6.26)						
July	241 (9.49)	236 (9.29)	244 (9.61)	238 (9.37)	247 (9.72)	242 (9.53)	249 (9.80)	247 (9.72)	251 (9.88)	251 (9.88)	257 (10.12)	254 (10.00)						
Aug	192 (7.56)	185 (7.28)	193 (7.60)	189 (7.44)	194 (7.64)	193 (7.60)	197 (7.76)	197 (7.76)	204 (8.03)	202 (7.95)	207 (8.15)	205 (8.07)						
Sep	129 (5.08)	121 (4.76)	131 (5.16)	124 (4.88)	134 (5.28)	128 (5.04)	138 (5.43)	132 (5.20)	143 (5.63)	137 (5.39)	144 (5.67)	140 (5.51)						
Oct	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)						
Season	780 (30.72)	720 (28.34)	788 (31.04)	739 (29.10)	798 (31.43)	760 (29.92)	811 (31.93)	783 (30.83)	834 (32.83)	813 (32.00)	850 (33.47)	828 (32.60)						

REGION: 26 Malheur  
CROP: Corn (Sweet)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
May	64 (2.52)	45 (1.77)	64 (2.52)	49 (1.93)	64 (2.52)	52 (2.05)	65 (2.56)	56 (2.20)	66 (2.60)	60 (2.36)	68 (2.68)	62 (2.44)						
June	125 (4.92)	104 (4.09)	127 (5.00)	112 (4.41)	129 (5.08)	117 (4.61)	132 (5.20)	124 (4.88)	137 (5.39)	133 (5.24)	141 (5.55)	138 (5.43)						
July	236 (9.29)	230 (9.06)	239 (9.41)	233 (9.17)	241 (9.49)	237 (9.33)	244 (9.61)	240 (9.45)	246 (9.69)	246 (9.69)	252 (9.92)	249 (9.80)						
Aug	84 (3.31)	82 (3.23)	85 (3.35)	84 (3.31)	86 (3.39)	85 (3.35)	87 (3.43)	87 (3.43)	89 (3.50)	89 (3.50)	90 (3.54)	90 (3.54)						
Season	509 (20.04)	461 (18.15)	515 (20.28)	478 (18.82)	520 (20.48)	491 (19.34)	528 (20.80)	507 (19.96)	538 (21.18)	528 (20.79)	551 (21.69)	539 (21.21)						



REGION: 26 Malheur  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
March	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	4 (0.16)	3 (0.12)		
April	56 (2.20)	42 (1.65)	58 (2.28)	45 (1.77)	59 (2.32)	49 (1.93)	60 (2.36)	52 (2.05)	61 (2.40)	57 (2.24)	62 (2.44)	60 (2.36)	114 (4.49)	103 (4.06)	114 (4.49)	103 (4.06)		
May	104 (4.09)	82 (3.23)	105 (4.13)	86 (3.39)	106 (4.17)	91 (3.58)	108 (4.25)	96 (3.78)	110 (4.33)	101 (3.98)	114 (4.49)	103 (4.06)	205 (8.07)	199 (7.83)	205 (8.07)	199 (7.83)		
June	184 (7.24)	161 (6.34)	187 (7.36)	168 (6.61)	190 (7.48)	175 (6.89)	194 (7.64)	182 (7.17)	200 (7.87)	193 (7.60)	205 (8.07)	199 (7.83)	241 (9.49)	238 (9.37)	241 (9.49)	238 (9.37)		
July	226 (8.90)	221 (8.70)	229 (9.02)	224 (8.82)	231 (9.09)	228 (8.98)	234 (9.21)	231 (9.09)	236 (9.29)	236 (9.29)	236 (9.29)	236 (9.29)	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)		
Aug	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	17 (0.67)	18 (0.71)	18 (0.71)	18 (0.71)	18 (0.71)		
Season	590 (23.22)	526 (20.71)	599 (23.58)	543 (21.38)	606 (23.85)	563 (22.17)	617 (24.29)	582 (22.92)	628 (24.72)	608 (23.94)	644 (25.36)	621 (24.45)						

REGION: 26 Malheur  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.		
Feb	8 (0.31)	1 (0.04)	8 (0.31)	1 (0.04)	9 (0.35)	1 (0.04)	9 (0.35)	3 (0.12)	10 (0.39)	5 (0.20)	12 (0.47)	9 (0.35)						
March	38 (1.50)	22 (0.87)	40 (1.57)	24 (0.94)	41 (1.61)	27 (1.06)	42 (1.65)	30 (1.18)	44 (1.73)	35 (1.38)	45 (1.77)	39 (1.54)						
April	87 (3.43)	73 (2.87)	90 (3.54)	76 (2.99)	92 (3.62)	80 (3.15)	97 (3.82)	85 (3.35)	100 (3.94)	94 (3.70)	101 (3.98)	99 (3.90)						
May	150 (5.91)	127 (5.00)	154 (6.06)	132 (5.20)	157 (6.18)	138 (5.43)	159 (6.26)	145 (5.71)	164 (6.46)	152 (5.98)	171 (6.73)	156 (6.14)						
June	195 (7.68)	171 (6.73)	199 (7.83)	179 (7.05)	202 (7.95)	187 (7.36)	206 (8.11)	194 (7.64)	213 (8.39)	205 (8.07)	220 (8.66)	212 (8.35)						
July	165 (6.50)	162 (6.38)	168 (6.61)	164 (6.46)	170 (6.69)	166 (6.54)	171 (6.73)	168 (6.61)	172 (6.77)	171 (6.73)	176 (6.93)	173 (6.81)						
Season	643 (25.33)	556 (21.89)	659 (25.92)	576 (22.68)	671 (26.40)	599 (23.58)	684 (26.92)	625 (24.61)	703 (27.68)	662 (26.06)	725 (28.54)	688 (27.09)						

REGION: 26 Malheur  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.
Jan	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	2 (0.08)	0 (0.00)	5 (0.20)	0 (0.00)	6 (0.24)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)	9 (0.35)	0 (0.00)
Feb	9 (0.35)	1 (0.04)	10 (0.39)	1 (0.04)	12 (0.47)	1 (0.04)	13 (0.51)	2 (0.08)	14 (0.55)	4 (0.16)	15 (0.59)	4 (0.16)	15 (0.59)	10 (0.39)	15 (0.59)	10 (0.39)	15 (0.59)	10 (0.39)
March	22 (0.87)	6 (0.24)	22 (0.87)	8 (0.31)	23 (0.91)	11 (0.43)	23 (0.91)	23 (0.91)	24 (0.94)	16 (0.63)	25 (0.98)	16 (0.63)	25 (0.98)	21 (0.83)	25 (0.98)	21 (0.83)	25 (0.98)	21 (0.83)
April	52 (2.05)	40 (1.57)	53 (2.09)	42 (1.65)	54 (2.13)	45 (1.77)	55 (2.17)	48 (1.89)	57 (2.24)	52 (2.05)	58 (2.28)	55 (2.17)	58 (2.28)	55 (2.17)	58 (2.28)	55 (2.17)	58 (2.28)	55 (2.17)
May	81 (3.19)	59 (2.32)	82 (3.23)	63 (2.48)	83 (3.27)	68 (2.68)	84 (3.31)	73 (2.87)	85 (3.35)	77 (3.03)	88 (3.46)	80 (3.15)	88 (3.46)	80 (3.15)	88 (3.46)	80 (3.15)	88 (3.46)	80 (3.15)
June	132 (5.20)	111 (4.37)	134 (5.28)	117 (4.61)	136 (5.35)	123 (4.84)	139 (5.47)	129 (5.08)	144 (5.67)	137 (5.39)	148 (5.83)	143 (5.63)	148 (5.83)	143 (5.63)	148 (5.83)	143 (5.63)	148 (5.83)	143 (5.63)
July	213 (8.59)	208 (8.19)	215 (8.46)	211 (8.31)	218 (8.58)	214 (8.43)	220 (8.66)	217 (8.54)	222 (8.74)	222 (8.74)	227 (8.94)	224 (8.82)	227 (8.94)	224 (8.82)	227 (8.94)	224 (8.82)	227 (8.94)	224 (8.82)
Aug	188 (7.40)	181 (7.13)	189 (7.44)	184 (7.24)	190 (7.48)	188 (7.40)	193 (7.60)	192 (7.56)	199 (7.83)	198 (7.80)	202 (7.95)	201 (7.91)	202 (7.95)	201 (7.91)	202 (7.95)	201 (7.91)	202 (7.95)	201 (7.91)
Sep	132 (5.20)	125 (4.92)	136 (5.35)	128 (5.04)	138 (5.43)	132 (5.20)	142 (5.59)	136 (5.35)	148 (5.83)	141 (5.55)	149 (5.87)	144 (5.67)	149 (5.87)	144 (5.67)	149 (5.87)	144 (5.67)	149 (5.87)	144 (5.67)
Oct	85 (3.35)	75 (2.95)	90 (3.54)	79 (3.11)	92 (3.62)	83 (3.27)	94 (3.70)	87 (3.43)	96 (3.78)	93 (3.66)	98 (3.86)	96 (3.78)	98 (3.86)	96 (3.78)	98 (3.86)	96 (3.78)	98 (3.86)	96 (3.78)
Nov	22 (0.87)	2 (0.08)	23 (0.91)	5 (0.20)	24 (0.94)	10 (0.39)	28 (1.10)	15 (0.59)	30 (1.18)	18 (0.71)	32 (1.26)	20 (0.79)	32 (1.26)	20 (0.79)	32 (1.26)	20 (0.79)	32 (1.26)	20 (0.79)
Dec	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	1 (0.04)	0 (0.00)	3 (0.12)	0 (0.00)	5 (0.20)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)	6 (0.24)	0 (0.00)
Season	938 (36.95)	808 (31.81)	956 (37.64)	838 (32.99)	973 (38.30)	875 (34.45)	999 (39.34)	913 (35.94)	1030 (40.55)	958 (37.72)	1057 (41.61)	994 (39.14)	1057 (41.61)	994 (39.14)	1057 (41.61)	994 (39.14)	1057 (41.61)	994 (39.14)

REGION: 26 Malheur  
CROP: Onions

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.
April	47 (1.85)	37 (1.46)	48 (1.89)	40 (1.57)	49 (1.93)	42 (1.65)	50 (1.97)	45 (1.77)	51 (2.01)	48 (1.89)	52 (2.05)	50 (1.97)	52 (2.05)	50 (1.97)	52 (2.05)	50 (1.97)	52 (2.05)	50 (1.97)
May	84 (3.31)	65 (2.56)	85 (3.35)	69 (2.72)	86 (3.39)	73 (2.87)	87 (3.43)	78 (3.07)	88 (3.46)	81 (3.19)	91 (3.58)	83 (3.27)	91 (3.58)	83 (3.27)	91 (3.58)	83 (3.27)	91 (3.58)	83 (3.27)
June	139 (5.47)	120 (4.72)	140 (5.51)	126 (4.96)	143 (5.63)	132 (5.20)	146 (5.75)	136 (5.35)	151 (5.94)	144 (5.67)	156 (6.14)	150 (5.91)	156 (6.14)	150 (5.91)	156 (6.14)	150 (5.91)	156 (6.14)	150 (5.91)
July	216 (8.50)	212 (8.35)	219 (8.62)	214 (8.43)	221 (8.70)	216 (8.50)	223 (8.78)	220 (8.66)	225 (8.86)	225 (8.86)	231 (9.09)	228 (8.98)	231 (9.09)	228 (8.98)	231 (9.09)	228 (8.98)	231 (9.09)	228 (8.98)
Aug	149 (5.87)	144 (5.67)	151 (5.94)	146 (5.75)	152 (5.98)	148 (5.83)	153 (6.02)	153 (6.02)	158 (6.22)	157 (6.18)	160 (6.30)	160 (6.30)	160 (6.30)	160 (6.30)	160 (6.30)	160 (6.30)	160 (6.30)	160 (6.30)
Season	635 (25.00)	578 (22.76)	643 (25.31)	595 (23.43)	651 (25.63)	611 (24.05)	659 (25.95)	632 (24.87)	673 (26.49)	655 (25.79)	690 (27.16)	671 (26.43)	690 (27.16)	671 (26.43)	690 (27.16)	671 (26.43)	690 (27.16)	671 (26.43)

REGION: 26 Malheur  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	
March	8 (0.31)	8 (0.31)	8 (0.31)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)	10 (0.39)	10 (0.39)	10 (0.39)	10 (0.39)	
April	101 (3.98)	84 (3.31)	89 (3.50)	102 (4.02)	89 (3.50)	93 (4.21)	107 (4.21)	93 (3.66)	109 (4.29)	97 (3.82)	113 (4.45)	106 (4.17)	116 (4.57)	112 (4.41)	160 (6.30)	146 (5.75)	146 (5.75)	146 (5.75)	146 (5.75)
May	142 (5.59)	118 (4.65)	122 (4.80)	144 (5.67)	122 (4.80)	127 (5.00)	146 (5.75)	127 (5.00)	149 (5.87)	133 (5.24)	153 (6.02)	143 (5.63)	160 (6.30)	146 (5.75)	192 (7.56)	185 (7.28)	185 (7.28)	185 (7.28)	185 (7.28)
June	170 (6.69)	148 (5.83)	154 (6.06)	174 (6.85)	154 (6.06)	162 (6.38)	177 (6.97)	162 (6.38)	181 (7.13)	169 (6.65)	186 (7.32)	179 (7.05)	192 (7.56)	185 (7.28)	226 (8.90)	222 (8.74)	222 (8.74)	222 (8.74)	222 (8.74)
July	212 (8.35)	207 (8.15)	209 (8.23)	213 (8.39)	209 (8.23)	213 (8.39)	216 (8.50)	213 (8.39)	219 (8.62)	216 (8.50)	221 (8.70)	220 (8.66)	226 (8.90)	222 (8.74)	179 (7.05)	178 (7.01)	178 (7.01)	178 (7.01)	178 (7.01)
Aug	164 (6.46)	160 (6.30)	166 (6.54)	166 (6.54)	163 (6.42)	168 (6.61)	167 (6.57)	171 (6.73)	171 (6.73)	170 (6.69)	177 (6.97)	175 (6.89)	179 (7.05)	178 (7.01)	132 (5.20)	127 (5.00)	127 (5.00)	127 (5.00)	127 (5.00)
Sep	120 (4.72)	110 (4.33)	121 (4.76)	121 (4.76)	113 (4.45)	122 (4.80)	116 (4.57)	126 (4.96)	126 (4.96)	120 (4.72)	130 (5.12)	124 (4.88)	132 (5.20)	127 (5.00)	87 (3.43)	85 (3.35)	85 (3.35)	85 (3.35)	85 (3.35)
Oct	78 (3.07)	65 (2.56)	79 (3.11)	79 (3.11)	68 (2.68)	82 (3.23)	71 (2.80)	83 (3.27)	83 (3.27)	76 (2.99)	85 (3.35)	82 (3.23)	87 (3.43)	85 (3.35)	1102 (43.40)	1065 (41.93)	1065 (41.93)	1065 (41.93)	1065 (41.93)
Season	995 (39.17)	900 (35.44)	1008 (39.69)	1008 (39.69)	926 (36.45)	1027 (40.42)	958 (37.72)	1047 (41.22)	990 (38.96)	1075 (42.32)	1039 (40.90)	1102 (43.40)	1065 (41.93)	1065 (41.93)					

REGION: 26 Malheur  
CROP: Potatoes

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	
April	22 (0.87)	17 (0.67)	19 (0.75)	23 (0.91)	19 (0.75)	20 (0.91)	23 (0.91)	20 (0.79)	24 (0.94)	21 (0.83)	24 (0.94)	23 (0.91)	25 (0.98)	24 (0.94)	74 (2.91)	68 (2.68)	68 (2.68)	68 (2.68)	68 (2.68)
May	69 (2.72)	50 (1.97)	53 (2.09)	69 (2.72)	53 (2.09)	57 (2.24)	70 (2.76)	57 (2.24)	71 (2.80)	62 (2.44)	72 (2.83)	66 (2.60)	74 (2.91)	68 (2.68)	186 (7.32)	179 (7.05)	179 (7.05)	179 (7.05)	179 (7.05)
June	165 (6.50)	144 (5.67)	150 (5.91)	167 (6.57)	150 (5.91)	157 (6.18)	170 (6.69)	157 (6.18)	174 (6.85)	163 (6.42)	179 (7.05)	173 (6.81)	186 (7.32)	179 (7.05)	260 (10.24)	258 (10.16)	258 (10.16)	258 (10.16)	258 (10.16)
July	244 (9.61)	239 (9.41)	242 (9.53)	247 (9.72)	242 (9.53)	244 (9.61)	250 (9.84)	244 (9.61)	252 (9.92)	249 (9.80)	254 (10.00)	254 (10.00)	260 (10.24)	258 (10.16)	200 (7.87)	199 (7.83)	199 (7.83)	199 (7.83)	199 (7.83)
Aug	186 (7.32)	180 (7.09)	183 (7.20)	187 (7.36)	183 (7.20)	188 (7.40)	187 (7.36)	191 (7.52)	191 (7.52)	191 (7.52)	197 (7.76)	196 (7.72)	200 (7.87)	199 (7.83)	76 (2.99)	73 (2.87)	73 (2.87)	73 (2.87)	73 (2.87)
Sep	68 (2.68)	65 (2.56)	66 (2.60)	69 (2.72)	66 (2.60)	70 (2.76)	68 (2.68)	73 (2.87)	73 (2.87)	69 (2.72)	75 (2.95)	72 (2.83)	76 (2.99)	73 (2.87)	821 (32.31)	801 (31.53)	801 (31.53)	801 (31.53)	801 (31.53)
Season	754 (29.70)	695 (27.37)	762 (30.00)	762 (30.00)	713 (28.08)	771 (30.36)	733 (28.86)	785 (30.90)	755 (29.73)	801 (31.53)	784 (30.87)	821 (32.31)	801 (31.53)	801 (31.53)					

REGION: 27 Jordan Valley  
CROP: Alfalfa Hay

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
April	78 (3.07)	59 (2.32)	80 (3.15)	64 (2.52)	84 (3.31)	69 (2.72)	88 (3.46)	78 (3.07)	91 (3.58)	83 (3.27)	92 (3.62)	87 (3.43)	121 (4.76)	93 (3.66)	123 (4.76)	126 (4.96)	106 (4.17)	130 (5.12)	115 (4.53)	135 (5.31)	127 (5.00)	138 (5.43)	132 (5.20)	
May	147 (5.79)	121 (4.76)	151 (5.94)	129 (5.08)	153 (6.02)	135 (5.31)	157 (6.18)	145 (5.71)	161 (6.34)	154 (6.06)	166 (6.54)	158 (6.22)	181 (7.13)	175 (6.89)	183 (7.20)	186 (7.32)	181 (7.13)	188 (7.40)	184 (7.24)	190 (7.48)	186 (7.32)	194 (7.64)	188 (7.40)	
June	142 (5.59)	139 (5.47)	145 (5.71)	142 (5.59)	148 (5.85)	144 (5.67)	151 (5.94)	149 (5.87)	156 (6.14)	154 (6.06)	160 (6.30)	159 (6.26)	103 (4.06)	93 (3.66)	106 (4.17)	98 (3.86)	107 (4.21)	105 (4.13)	109 (4.29)	108 (4.25)	113 (4.45)	112 (4.41)	115 (4.53)	114 (4.49)
July	54 (2.13)	42 (1.65)	55 (2.17)	45 (1.77)	57 (2.24)	48 (1.89)	58 (2.28)	51 (2.01)	60 (2.36)	57 (2.24)	61 (2.40)	60 (2.36)	826 (32.53)	722 (28.41)	843 (33.18)	755 (29.73)	861 (33.89)	788 (31.02)	881 (34.67)	850 (32.68)	906 (35.66)	873 (34.36)	926 (36.46)	898 (35.36)
Aug																								
Sep																								
Oct																								
Season																								

REGION: 27 Jordan Valley  
CROP: Corn (Silage)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years								
	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.								
May	65 (2.56)	43 (1.69)	66 (2.60)	47 (1.85)	67 (2.64)	52 (2.05)	69 (2.72)	57 (2.24)	70 (2.76)	62 (2.44)	70 (2.76)	66 (2.60)	135 (5.31)	110 (4.33)	138 (5.43)	118 (4.65)	140 (5.51)	125 (4.92)	143 (5.63)	133 (5.24)	150 (5.91)	155 (6.10)	150 (5.91)	
June	220 (8.66)	212 (8.35)	223 (8.78)	214 (8.43)	225 (8.86)	217 (8.54)	227 (8.94)	221 (8.70)	231 (9.09)	225 (8.86)	237 (9.53)	228 (8.98)	174 (6.85)	172 (6.77)	177 (6.97)	175 (6.89)	182 (7.17)	179 (7.05)	186 (7.32)	184 (7.24)	191 (7.52)	190 (7.48)	197 (7.76)	196 (7.72)
July	121 (4.76)	109 (4.29)	124 (4.88)	114 (4.49)	126 (4.96)	118 (4.65)	128 (5.04)	123 (4.84)	133 (5.24)	129 (5.08)	136 (5.35)	132 (5.20)	2 (0.08)	2 (0.08)	2 (0.08)	2 (0.08)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)
Aug																								
Sep																								
Oct																								
Season	717 (28.22)	648 (25.51)	730 (28.74)	670 (26.39)	743 (29.26)	694 (27.33)	756 (29.77)	721 (28.38)	778 (30.64)	754 (29.69)	798 (31.42)	775 (30.53)												

REGION: 27 Jordan Valley  
CROP: Grain (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	
March	3 (0.12)	2 (0.08)	2 (0.08)	3 (0.12)	2 (0.08)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)	3 (0.12)
April	52 (2.05)	32 (1.26)	37 (1.46)	55 (2.09)	37 (1.46)	41 (1.61)	56 (2.20)	46 (1.81)	58 (2.28)	50 (1.97)	58 (2.28)	50 (1.97)	58 (2.28)	50 (1.97)	58 (2.28)	50 (1.97)	58 (2.28)	50 (1.97)	58 (2.28)
May	96 (3.78)	68 (2.68)	76 (2.99)	100 (3.94)	76 (2.99)	82 (3.23)	103 (4.06)	90 (3.54)	106 (4.17)	97 (3.82)	106 (4.17)	97 (3.82)	106 (4.17)	97 (3.82)	106 (4.17)	97 (3.82)	106 (4.17)	97 (3.82)	106 (4.17)
June	170 (6.69)	143 (5.63)	152 (5.98)	177 (6.97)	152 (5.98)	158 (6.22)	181 (7.13)	167 (6.57)	185 (7.28)	178 (7.01)	185 (7.28)	178 (7.01)	192 (7.56)	183 (7.20)	192 (7.56)	183 (7.20)	222 (8.74)	214 (8.43)	18 (0.71)
July	206 (8.11)	199 (7.83)	203 (7.99)	211 (8.31)	203 (7.99)	205 (8.07)	213 (8.39)	208 (8.19)	217 (8.54)	211 (8.31)	217 (8.54)	211 (8.31)	222 (8.74)	214 (8.43)	222 (8.74)	214 (8.43)	18 (0.71)	18 (0.71)	18 (0.71)
Aug	16 (0.63)	15 (0.59)	16 (0.63)	16 (0.63)	16 (0.63)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)	16 (0.63)	17 (0.67)
Season	543 (21.38)	459 (18.07)	486 (19.13)	562 (22.14)	486 (19.13)	505 (19.88)	573 (22.57)	530 (20.86)	586 (23.06)	556 (21.90)	586 (23.06)	556 (21.90)	604 (23.78)	572 (22.53)	604 (23.78)	572 (22.53)	604 (23.78)	572 (22.53)	604 (23.78)

REGION: 27 Jordan Valley  
CROP: Grain (Winter)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	ET crop mm in.	Net IRR mm in.	Net IRR mm in.	Net IRR mm in.
Feb	8 (0.31)	1 (0.04)	1 (0.04)	9 (0.35)	1 (0.04)	1 (0.04)	9 (0.35)	1 (0.04)	9 (0.35)	1 (0.04)	1 (0.04)	1 (0.04)	11 (0.43)	6 (0.24)	6 (0.24)	12 (0.47)	8 (0.31)	8 (0.31)	8 (0.31)
March	33 (1.30)	14 (0.55)	17 (0.67)	36 (1.42)	17 (0.67)	21 (0.83)	37 (1.46)	25 (0.98)	40 (1.57)	30 (1.18)	40 (1.57)	30 (1.18)	45 (1.77)	32 (1.26)	45 (1.77)	32 (1.26)	45 (1.77)	32 (1.26)	45 (1.77)
April	78 (3.07)	58 (2.28)	63 (2.48)	85 (3.35)	63 (2.48)	69 (2.72)	88 (3.46)	78 (3.07)	91 (3.58)	84 (3.31)	91 (3.58)	84 (3.31)	93 (3.66)	87 (3.43)	93 (3.66)	87 (3.43)	157 (6.18)	149 (5.87)	157 (6.18)
May	136 (5.35)	107 (4.21)	115 (4.53)	145 (5.71)	115 (4.53)	123 (4.84)	148 (5.83)	131 (5.16)	155 (6.10)	144 (5.67)	155 (6.10)	144 (5.67)	196 (7.72)	189 (7.44)	196 (7.72)	189 (7.44)	203 (7.99)	193 (7.60)	203 (7.99)
June	179 (7.05)	152 (5.98)	161 (6.34)	187 (7.36)	161 (6.34)	168 (6.61)	191 (7.52)	177 (6.97)	196 (7.72)	189 (7.44)	196 (7.72)	189 (7.44)	203 (7.99)	193 (7.60)	203 (7.99)	193 (7.60)	162 (6.38)	156 (6.14)	162 (6.38)
July	151 (5.94)	145 (5.71)	147 (5.79)	154 (6.06)	147 (5.79)	150 (5.91)	155 (6.10)	152 (5.98)	158 (6.22)	154 (6.06)	158 (6.22)	154 (6.06)	162 (6.38)	156 (6.14)	162 (6.38)	156 (6.14)	162 (6.38)	156 (6.14)	162 (6.38)
Season	585 (23.02)	477 (18.77)	504 (19.85)	616 (24.25)	504 (19.85)	532 (20.95)	628 (24.72)	564 (22.20)	651 (25.62)	607 (23.90)	651 (25.62)	607 (23.90)	672 (26.65)	625 (24.61)	672 (26.65)	625 (24.61)	672 (26.65)	625 (24.61)	672 (26.65)

REGION: 27 Jordan Valley  
CROP: Grass Seed (Spring)

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.
Jan	1 (0.04)	0 (0.00)	0 (0.00)	1 (0.04)	0 (0.00)	0 (0.00)	2 (0.08)	0 (0.00)	0 (0.00)	5 (0.20)	0 (0.00)	0 (0.00)	6 (0.24)	0 (0.00)	0 (0.00)	6 (0.24)	0 (0.00)	0 (0.00)
Feb	8 (0.31)	1 (0.04)	1 (0.04)	9 (0.35)	1 (0.04)	1 (0.04)	13 (0.51)	1 (0.04)	1 (0.04)	13 (0.51)	1 (0.04)	1 (0.04)	14 (0.55)	8 (0.31)	7 (0.28)	14 (0.55)	8 (0.31)	8 (0.31)
March	18 (0.71)	2 (0.08)	3 (0.12)	18 (0.71)	3 (0.12)	6 (0.24)	21 (0.83)	6 (0.24)	6 (0.24)	21 (0.83)	6 (0.24)	10 (0.39)	24 (0.94)	15 (0.59)	13 (0.51)	24 (0.94)	15 (0.59)	15 (0.59)
April	48 (1.89)	30 (1.18)	33 (1.30)	49 (1.93)	33 (1.30)	37 (1.46)	52 (2.05)	44 (1.73)	44 (1.73)	54 (2.13)	47 (1.85)	54 (2.13)	56 (2.20)	50 (1.97)	47 (1.85)	56 (2.20)	50 (1.97)	50 (1.97)
May	76 (2.99)	51 (2.01)	56 (2.20)	78 (3.07)	56 (2.20)	79 (3.11)	81 (3.19)	68 (2.68)	68 (2.68)	82 (3.23)	74 (2.91)	83 (3.27)	83 (3.27)	78 (3.07)	74 (2.91)	83 (3.27)	78 (3.07)	78 (3.07)
June	123 (4.84)	98 (3.86)	106 (4.17)	126 (4.96)	106 (4.17)	128 (5.04)	131 (5.16)	112 (4.41)	112 (4.41)	134 (5.28)	129 (5.08)	140 (5.51)	140 (5.51)	135 (5.31)	129 (5.08)	140 (5.51)	135 (5.31)	135 (5.31)
July	195 (7.68)	188 (7.40)	197 (7.76)	197 (7.76)	190 (7.48)	199 (7.83)	202 (7.95)	197 (7.76)	197 (7.76)	206 (8.11)	201 (7.91)	208 (8.19)	208 (8.19)	203 (7.99)	201 (7.91)	208 (8.19)	203 (7.99)	203 (7.99)
Aug	171 (6.73)	168 (6.61)	174 (6.85)	174 (6.85)	172 (6.77)	178 (7.01)	182 (7.17)	181 (7.13)	181 (7.13)	187 (7.36)	186 (7.32)	193 (7.60)	193 (7.60)	192 (7.56)	186 (7.32)	193 (7.60)	192 (7.56)	192 (7.56)
Sep	125 (4.92)	113 (4.45)	128 (5.04)	128 (5.04)	118 (4.65)	129 (5.08)	131 (5.16)	128 (5.04)	128 (5.04)	137 (5.39)	133 (5.24)	140 (5.51)	140 (5.51)	136 (5.35)	133 (5.24)	140 (5.51)	136 (5.35)	136 (5.35)
Oct	83 (3.27)	66 (2.60)	85 (3.35)	85 (3.35)	72 (2.83)	86 (3.39)	90 (3.56)	80 (3.15)	80 (3.15)	94 (3.70)	90 (3.54)	96 (3.78)	96 (3.78)	93 (3.66)	90 (3.54)	96 (3.78)	93 (3.66)	93 (3.66)
Nov	20 (0.79)	2 (0.08)	21 (0.83)	21 (0.83)	3 (0.12)	23 (0.91)	27 (1.06)	12 (0.47)	12 (0.47)	29 (1.14)	16 (0.63)	31 (1.22)	31 (1.22)	21 (0.83)	16 (0.63)	31 (1.22)	21 (0.83)	21 (0.83)
Dec	1 (0.04)	0 (0.00)	1 (0.04)	1 (0.04)	0 (0.00)	1 (0.04)	3 (0.12)	0 (0.00)	0 (0.00)	3 (0.12)	0 (0.00)	3 (0.12)	6 (0.24)	0 (0.00)	0 (0.00)	6 (0.24)	0 (0.00)	0 (0.00)
Season	869 (34.21)	719 (28.31)	887 (34.93)	754 (29.68)	904 (35.60)	793 (31.23)	935 (36.82)	841 (33.11)	841 (33.11)	967 (38.08)	896 (35.27)	997 (39.25)	997 (39.25)	931 (36.64)	896 (35.27)	997 (39.25)	931 (36.64)	931 (36.64)

REGION: 27 Jordan Valley  
CROP: Pasture

MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years		
	ET mm	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.	ET crop mm in.	Net IRR mm in.	Net IRR in.
March	7 (0.28)	6 (0.24)	6 (0.24)	8 (0.31)	6 (0.24)	7 (0.28)	8 (0.31)	7 (0.28)	7 (0.28)	8 (0.31)	7 (0.28)	7 (0.28)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)	9 (0.35)
April	89 (3.50)	68 (2.68)	92 (3.62)	92 (3.62)	73 (2.87)	96 (3.78)	101 (3.98)	88 (3.46)	88 (3.46)	101 (3.98)	88 (3.46)	104 (4.09)	106 (4.17)	99 (3.90)	88 (3.46)	106 (4.17)	99 (3.90)	99 (3.90)
May	128 (5.04)	100 (3.94)	135 (5.31)	135 (5.31)	107 (4.21)	137 (5.39)	139 (5.47)	123 (4.84)	123 (4.84)	139 (5.47)	123 (4.84)	145 (5.71)	148 (5.83)	140 (5.51)	123 (4.84)	148 (5.83)	140 (5.51)	140 (5.51)
June	157 (6.18)	131 (5.16)	161 (6.34)	161 (6.34)	140 (5.51)	164 (6.46)	167 (6.57)	154 (6.06)	154 (6.06)	167 (6.57)	154 (6.06)	172 (6.77)	178 (7.01)	169 (6.65)	154 (6.06)	178 (7.01)	169 (6.65)	169 (6.65)
July	193 (7.60)	185 (7.28)	195 (7.68)	189 (7.44)	189 (7.44)	198 (7.80)	200 (7.87)	196 (7.72)	196 (7.72)	203 (7.99)	199 (7.83)	207 (8.15)	207 (8.15)	201 (7.91)	199 (7.83)	207 (8.15)	201 (7.91)	201 (7.91)
Aug	151 (5.94)	149 (5.87)	154 (6.06)	154 (6.06)	151 (5.94)	158 (6.22)	161 (6.34)	159 (6.26)	159 (6.26)	165 (6.50)	164 (6.46)	170 (6.69)	170 (6.69)	169 (6.65)	164 (6.46)	170 (6.69)	169 (6.65)	169 (6.65)
Sep	111 (4.37)	98 (3.86)	114 (4.49)	114 (4.49)	105 (4.13)	116 (4.57)	118 (4.65)	116 (4.57)	116 (4.57)	121 (4.76)	120 (4.72)	123 (4.84)	123 (4.84)	121 (4.76)	120 (4.72)	123 (4.84)	121 (4.76)	121 (4.76)
Oct	75 (2.95)	58 (2.28)	77 (3.03)	77 (3.03)	62 (2.44)	79 (3.11)	81 (3.19)	71 (2.80)	71 (2.80)	84 (3.31)	79 (3.11)	85 (3.35)	85 (3.35)	83 (3.27)	79 (3.11)	85 (3.35)	83 (3.27)	83 (3.27)
Season	911 (35.86)	795 (31.31)	936 (36.84)	833 (32.78)	956 (37.64)	872 (34.34)	975 (38.38)	914 (35.99)	914 (35.99)	1003 (39.48)	966 (38.02)	1026 (40.39)	1026 (40.39)	991 (39.00)	966 (38.02)	1026 (40.39)	991 (39.00)	991 (39.00)

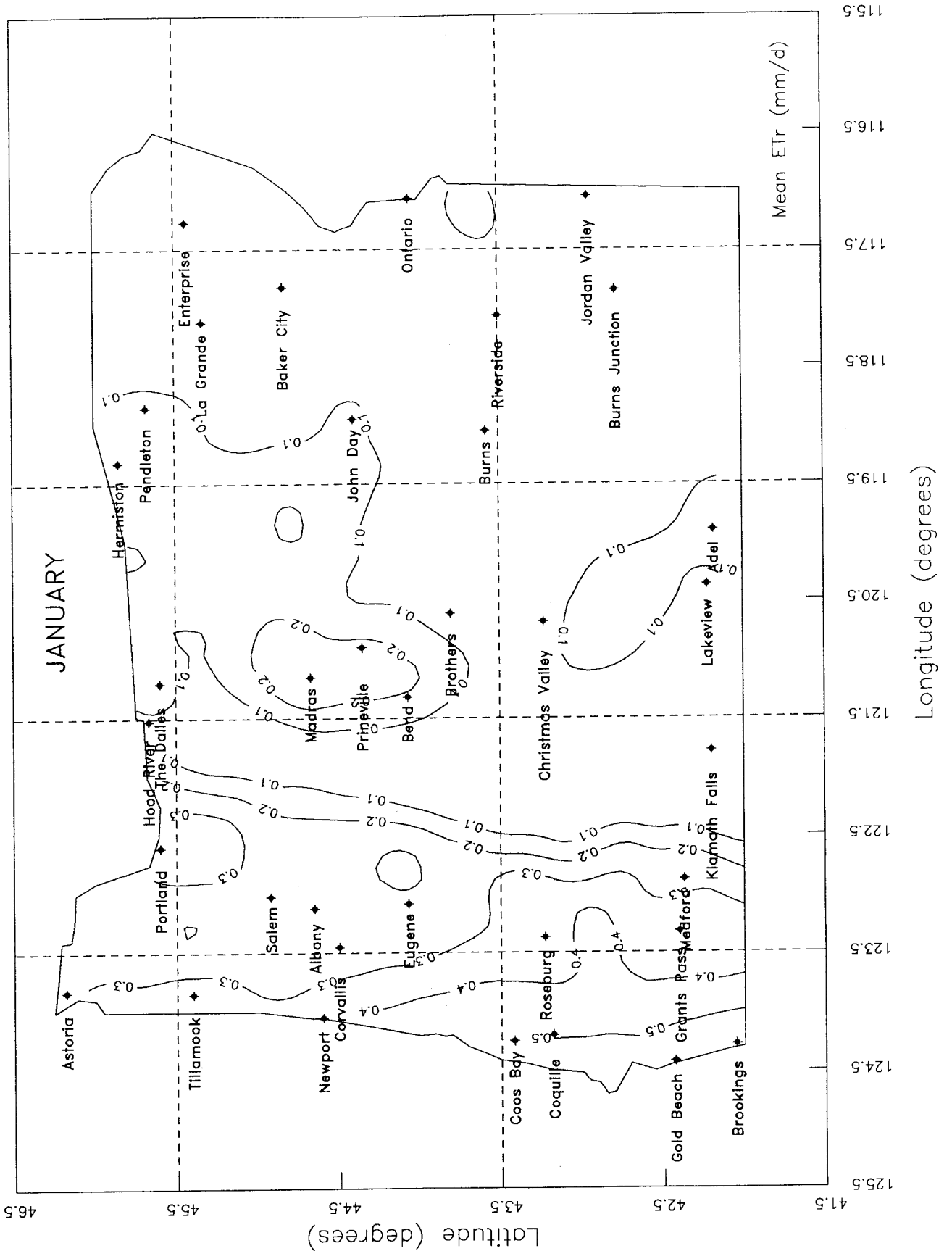
REGION: 27 Jordan Valley  
CROP: Potatoes

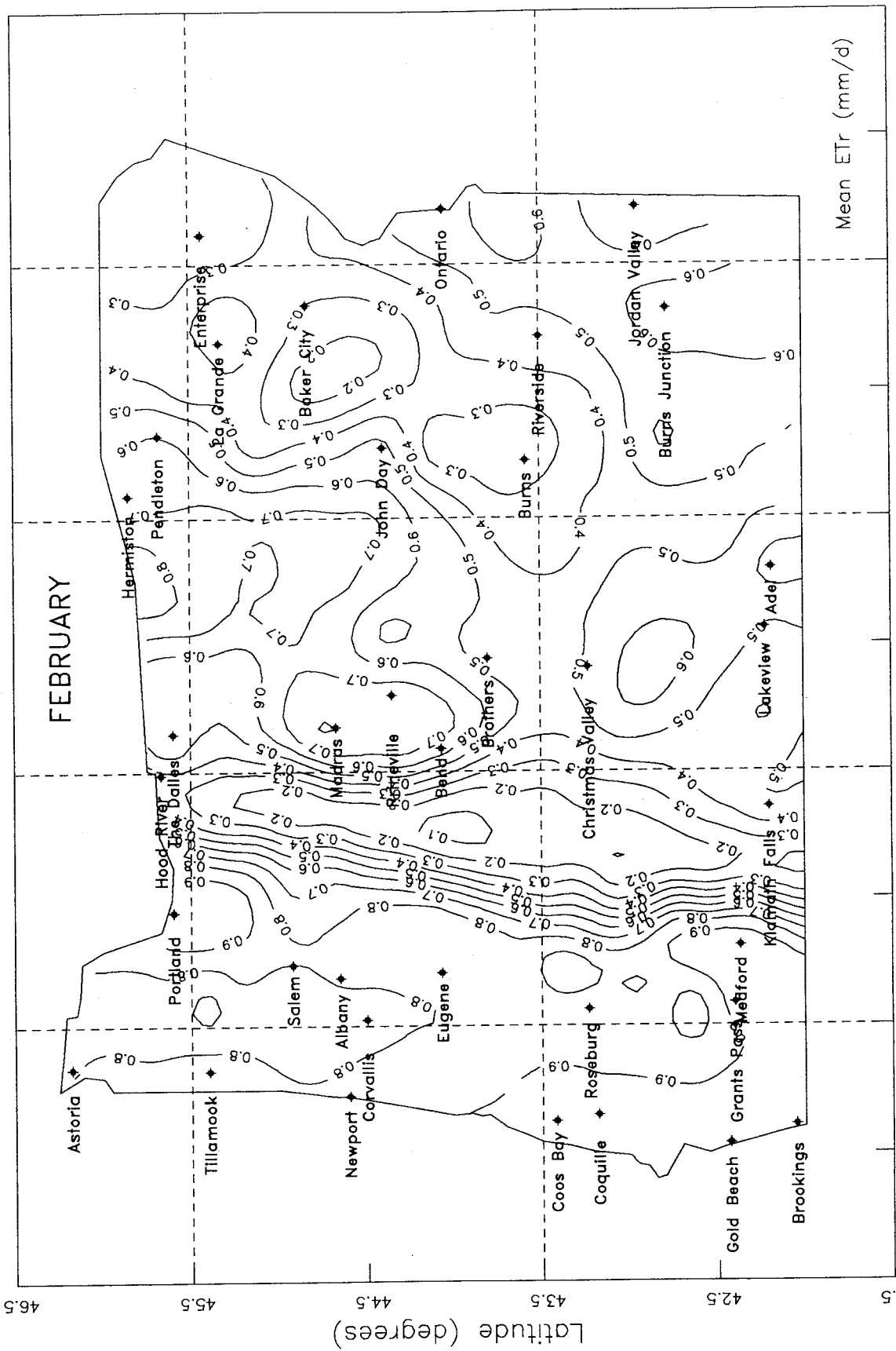
MONTH	5 out of 10 years			6 out of 10 years			7 out of 10 years			8 out of 10 years			9 out of 10 years			19 out of 20 years			
	ET crop mm	Net IRR mm in.	ET crop in.	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	ET crop mm	Net IRR mm in.	
April	20 (0.79)	12 (0.47)	21 (0.83)	15 (0.59)	22 (0.87)	16 (0.63)	22 (0.87)	19 (0.75)	23 (0.91)	21 (0.83)	24 (0.94)	22 (0.87)	24 (0.94)	22 (0.87)	24 (0.94)	22 (0.87)	24 (0.94)	22 (0.87)	24 (0.94)
May	65 (2.56)	42 (1.65)	66 (2.60)	47 (1.85)	67 (2.64)	52 (2.05)	68 (2.68)	57 (2.24)	70 (2.76)	62 (2.44)	70 (2.76)	65 (2.56)	70 (2.76)	65 (2.56)	70 (2.76)	65 (2.56)	70 (2.76)	65 (2.56)	70 (2.76)
June	152 (5.98)	126 (4.96)	156 (6.14)	137 (5.39)	158 (6.22)	142 (5.59)	162 (6.38)	148 (5.83)	166 (6.54)	160 (6.30)	172 (6.77)	164 (6.46)	172 (6.77)	164 (6.46)	172 (6.77)	164 (6.46)	172 (6.77)	164 (6.46)	172 (6.77)
July	222 (8.74)	215 (8.46)	225 (8.86)	218 (8.58)	227 (8.94)	221 (8.70)	229 (9.02)	224 (8.82)	233 (9.17)	228 (8.98)	239 (9.41)	231 (9.09)	239 (9.41)	231 (9.09)	239 (9.41)	231 (9.09)	239 (9.41)	231 (9.09)	239 (9.41)
Aug	170 (6.69)	167 (6.57)	172 (6.77)	170 (6.69)	176 (6.93)	174 (6.85)	180 (7.09)	179 (7.05)	185 (7.28)	185 (7.28)	191 (7.52)	190 (7.48)	191 (7.52)	190 (7.48)	191 (7.52)	190 (7.48)	191 (7.52)	190 (7.48)	191 (7.52)
Sep	64 (2.52)	58 (2.28)	65 (2.56)	61 (2.40)	66 (2.60)	64 (2.52)	67 (2.64)	67 (2.64)	70 (2.76)	69 (2.72)	72 (2.83)	71 (2.80)	72 (2.83)	71 (2.80)	72 (2.83)	71 (2.80)	72 (2.83)	71 (2.80)	72 (2.83)
Season	693 (27.28)	620 (24.39)	705 (27.76)	648 (25.50)	716 (28.20)	669 (26.34)	728 (28.68)	694 (27.33)	747 (29.42)	725 (28.55)	768 (30.23)	743 (29.26)	768 (30.23)	743 (29.26)	768 (30.23)	743 (29.26)	768 (30.23)	743 (29.26)	768 (30.23)

## 3.2 $ET_{ref}$ CONTOUR MAPS

Contour plots of  $ET_{ref}$  are a useful tool for private firms and government agencies involved in water resources management, hydrologic balance studies, water quality planning, and environmental analysis. A series of plots, one for each month, are included which indicate the mean (50 percent probability or 5 out of 10 years) monthly  $ET_{ref}$  over the state in millimeters per day (mm/d). The monthly total  $ET_{ref}$  in millimeters is obtained by multiplying the plotted value for the site of interest by the number of days in the month. Recall that  $ET_{ref}$  represents the water use by a fully developed grass cover of uniform height, disease and weed free, in a well-watered environment. For other vegetation covers,  $K_c$  values should be applied as shown in Equation (2).





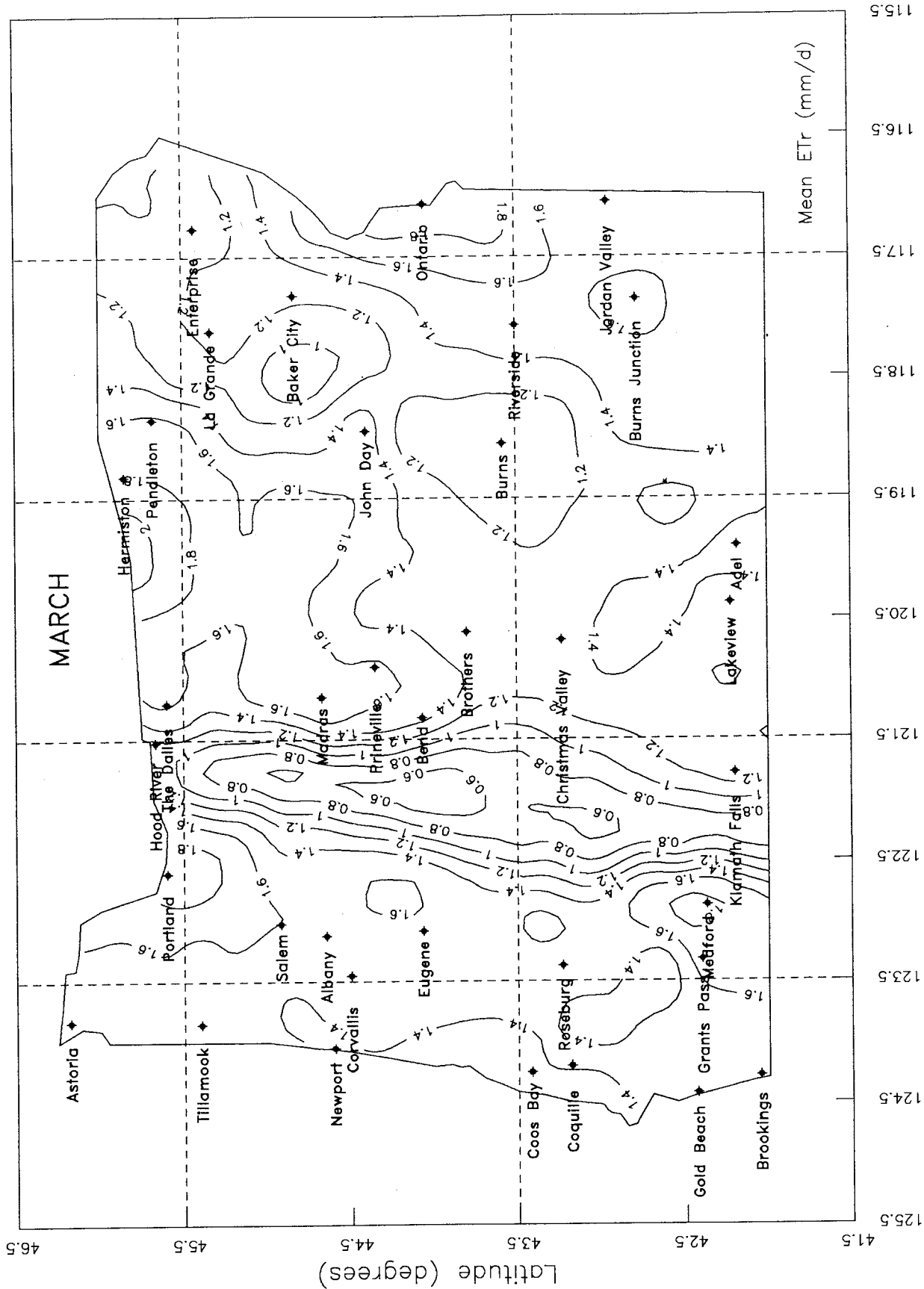


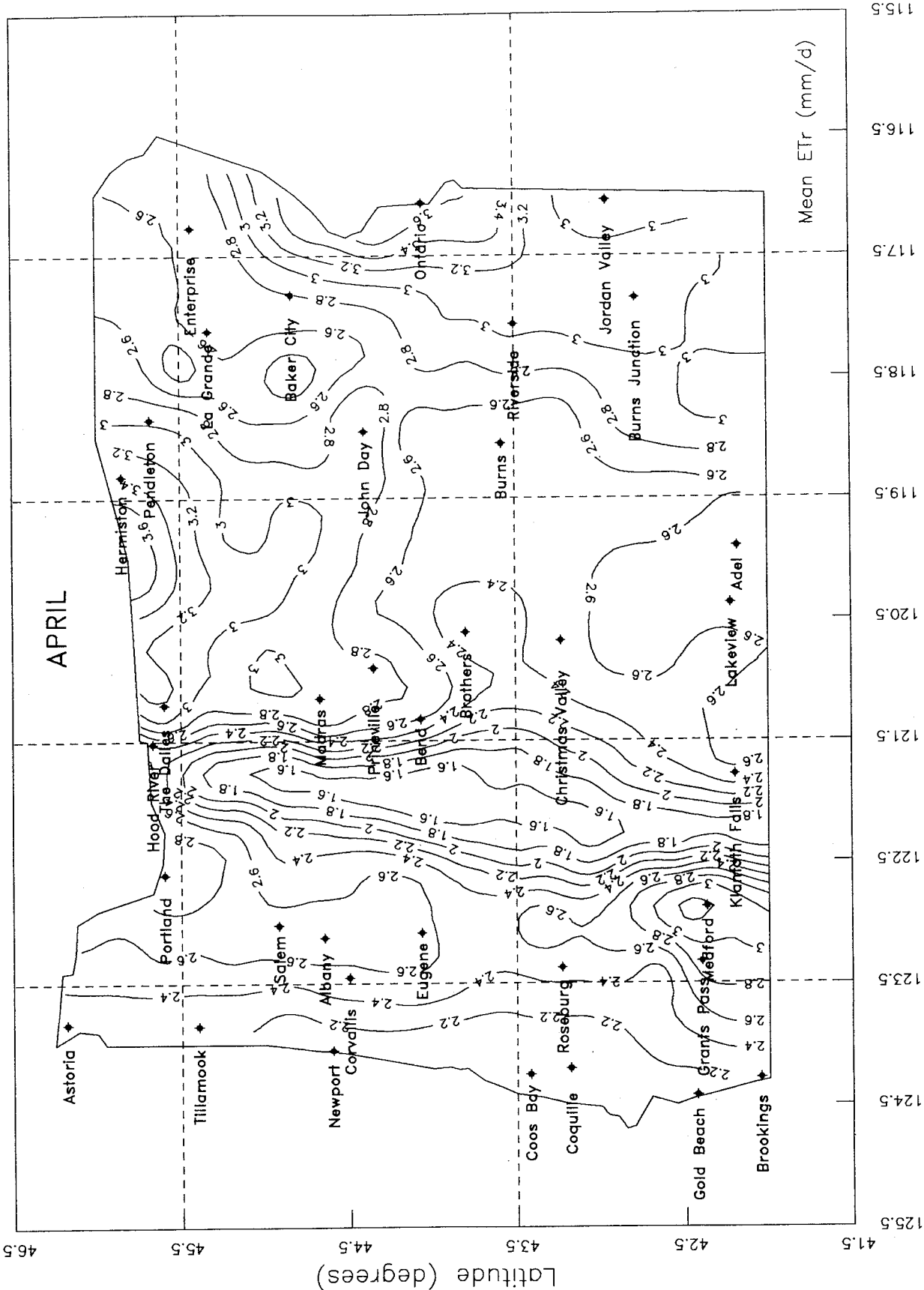
FEBRUARY

Mean ETr (mm/d)

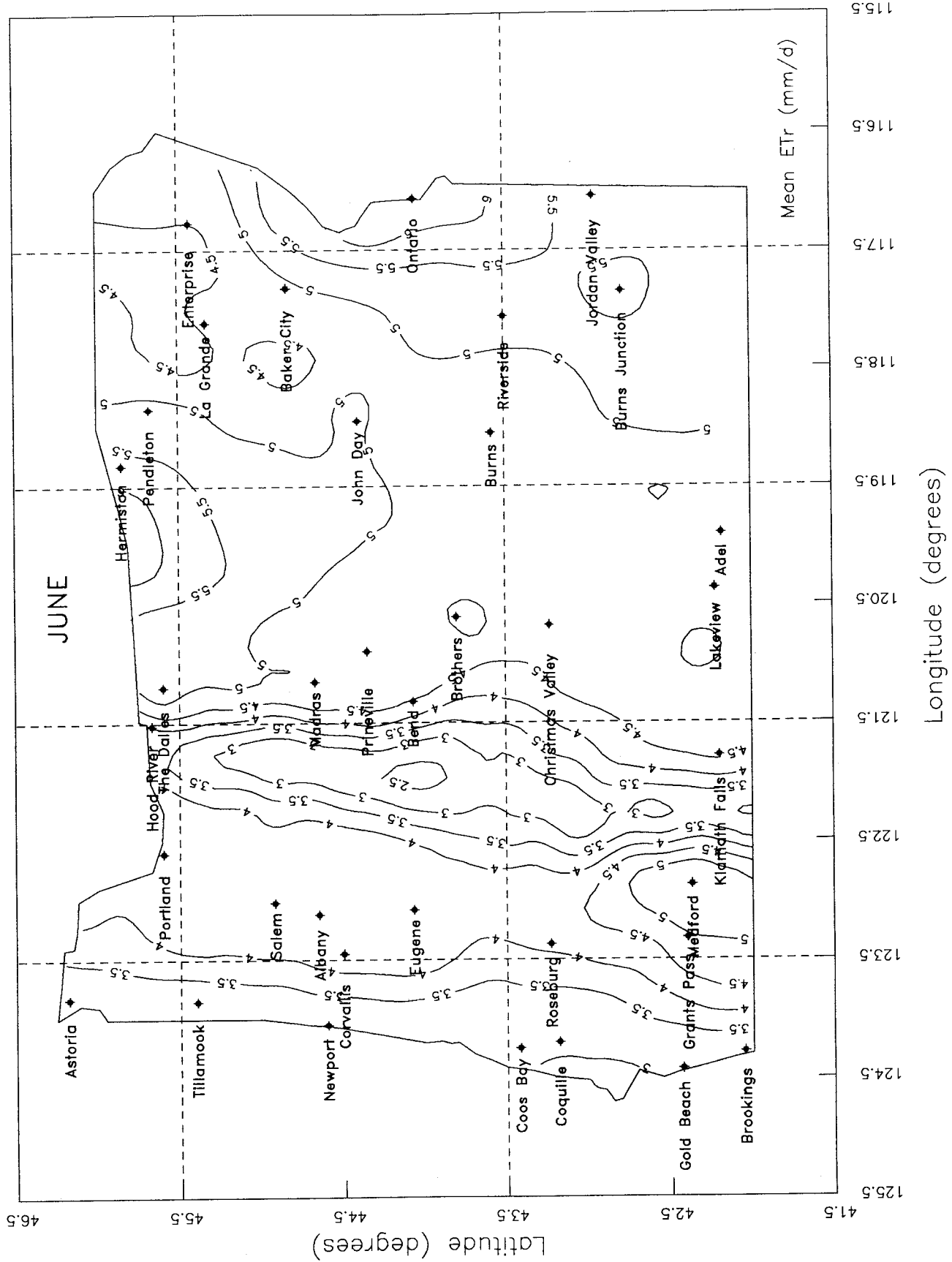
Latitude (degrees)

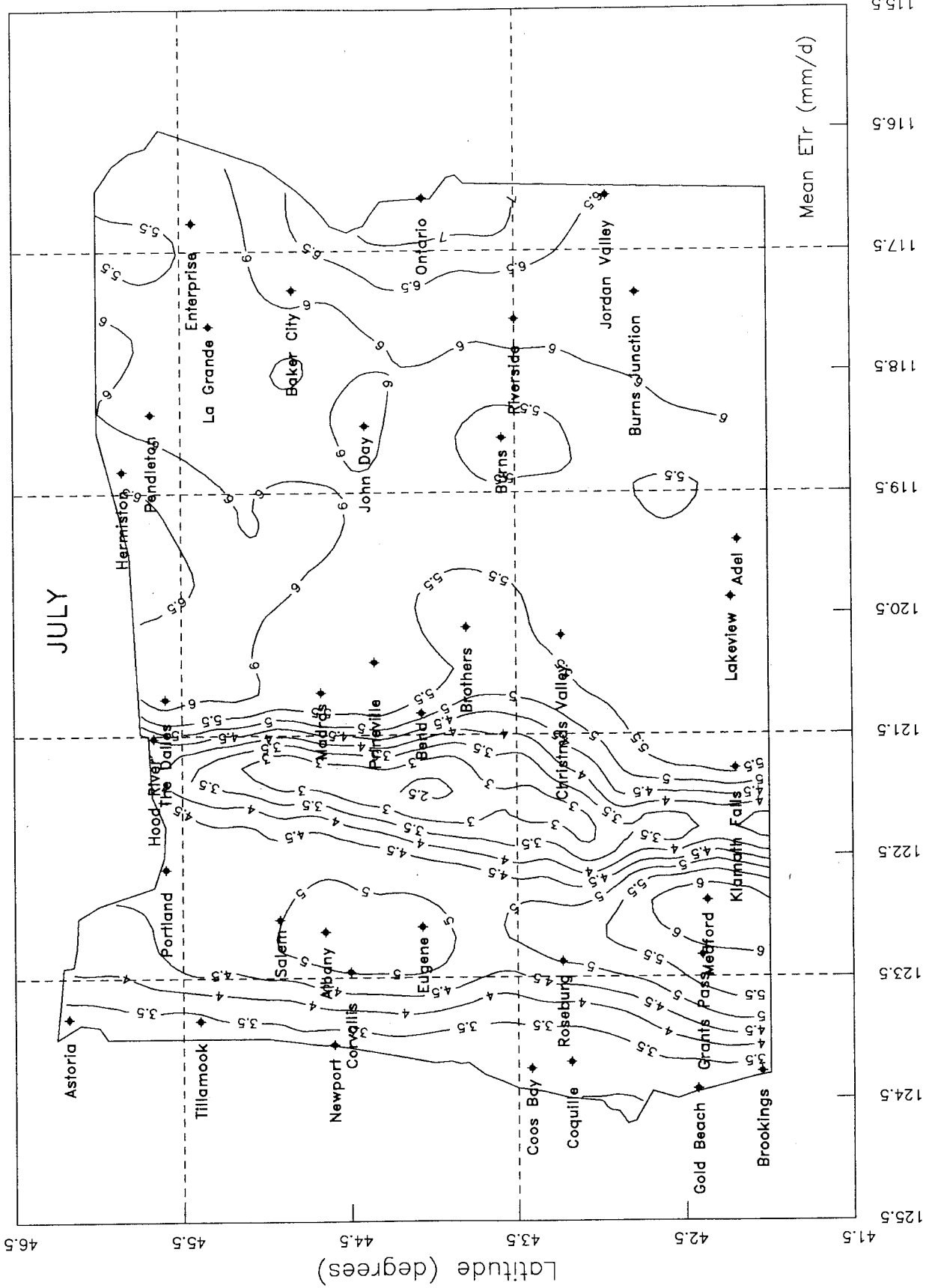
Longitude (degrees)





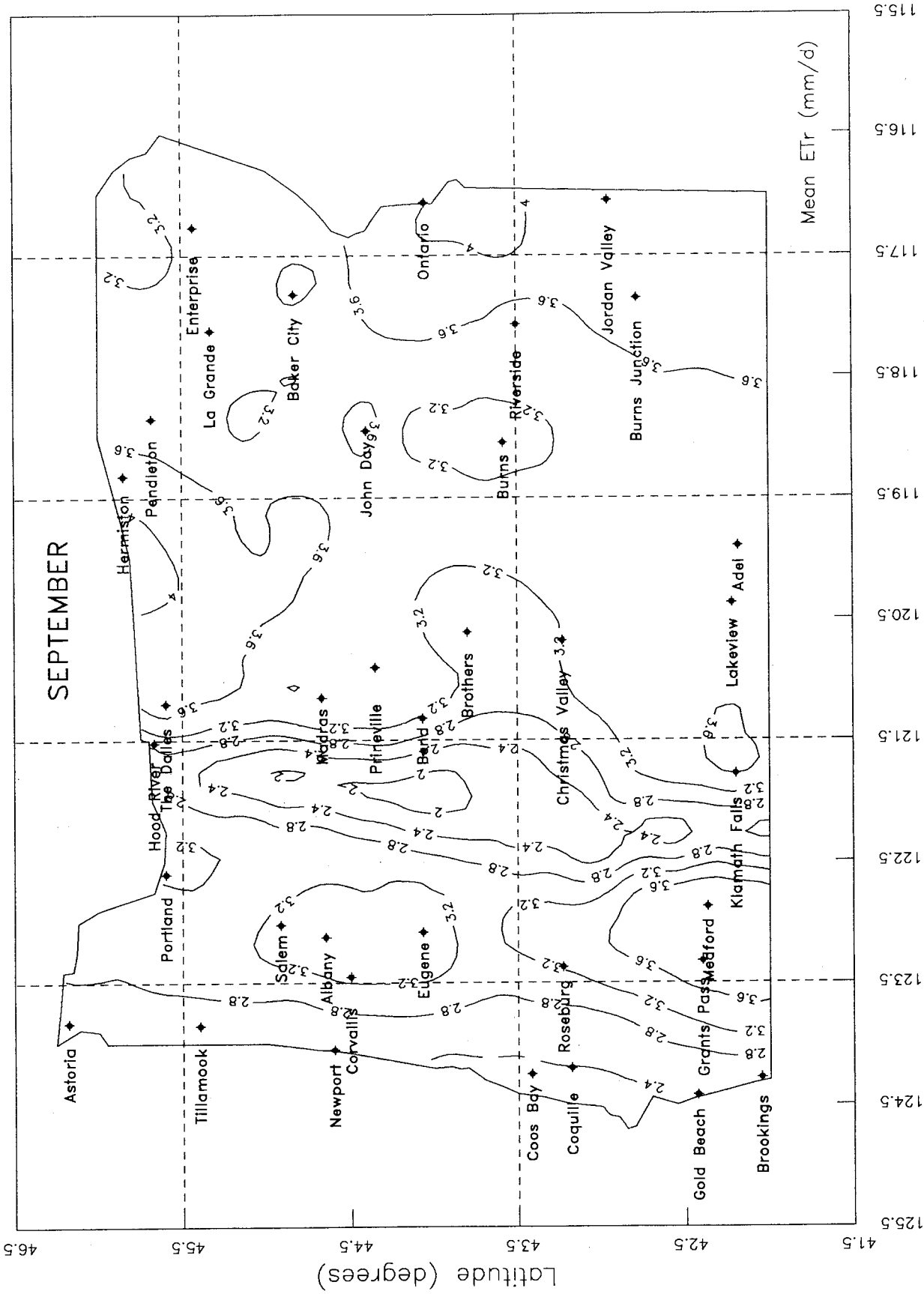


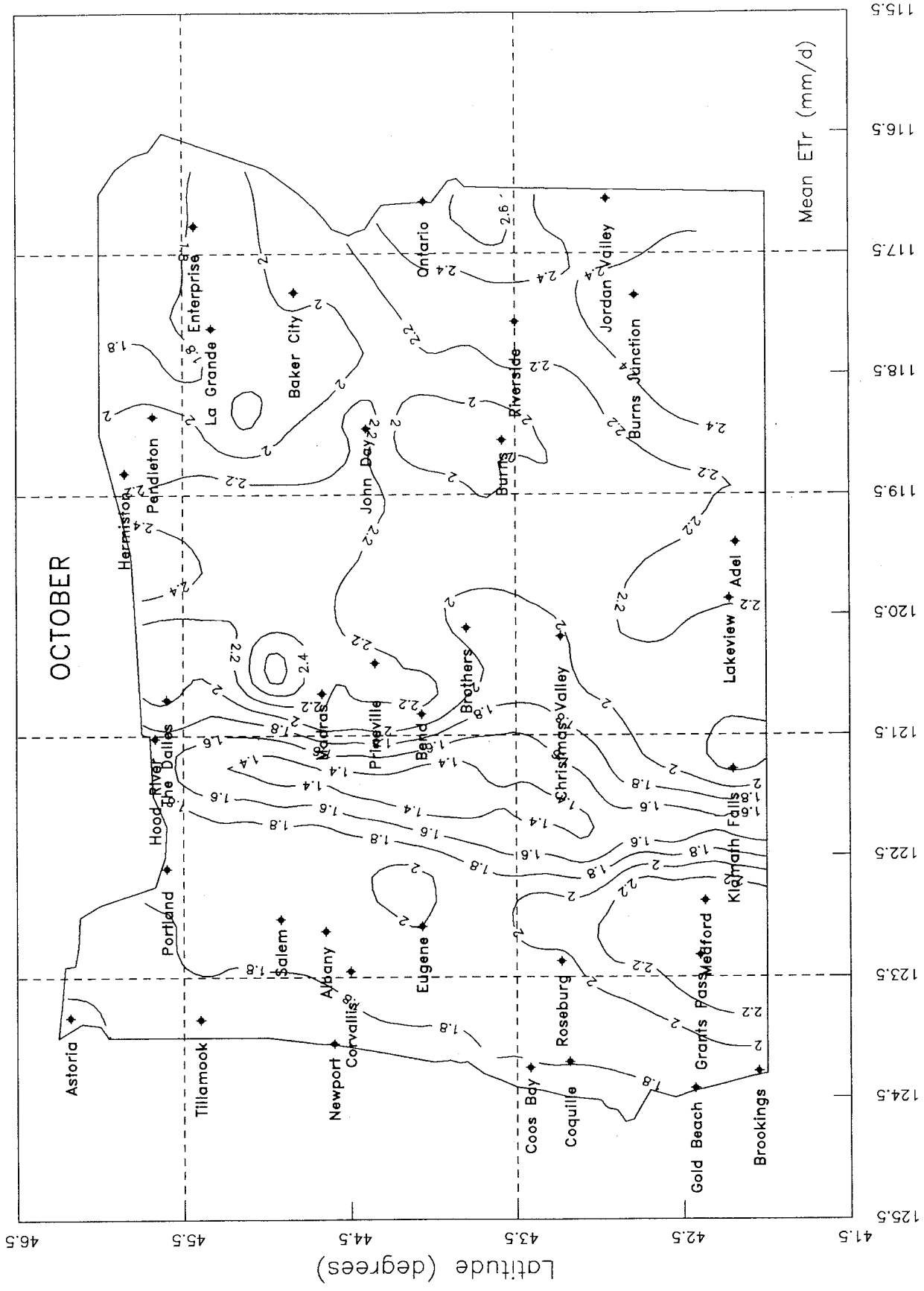


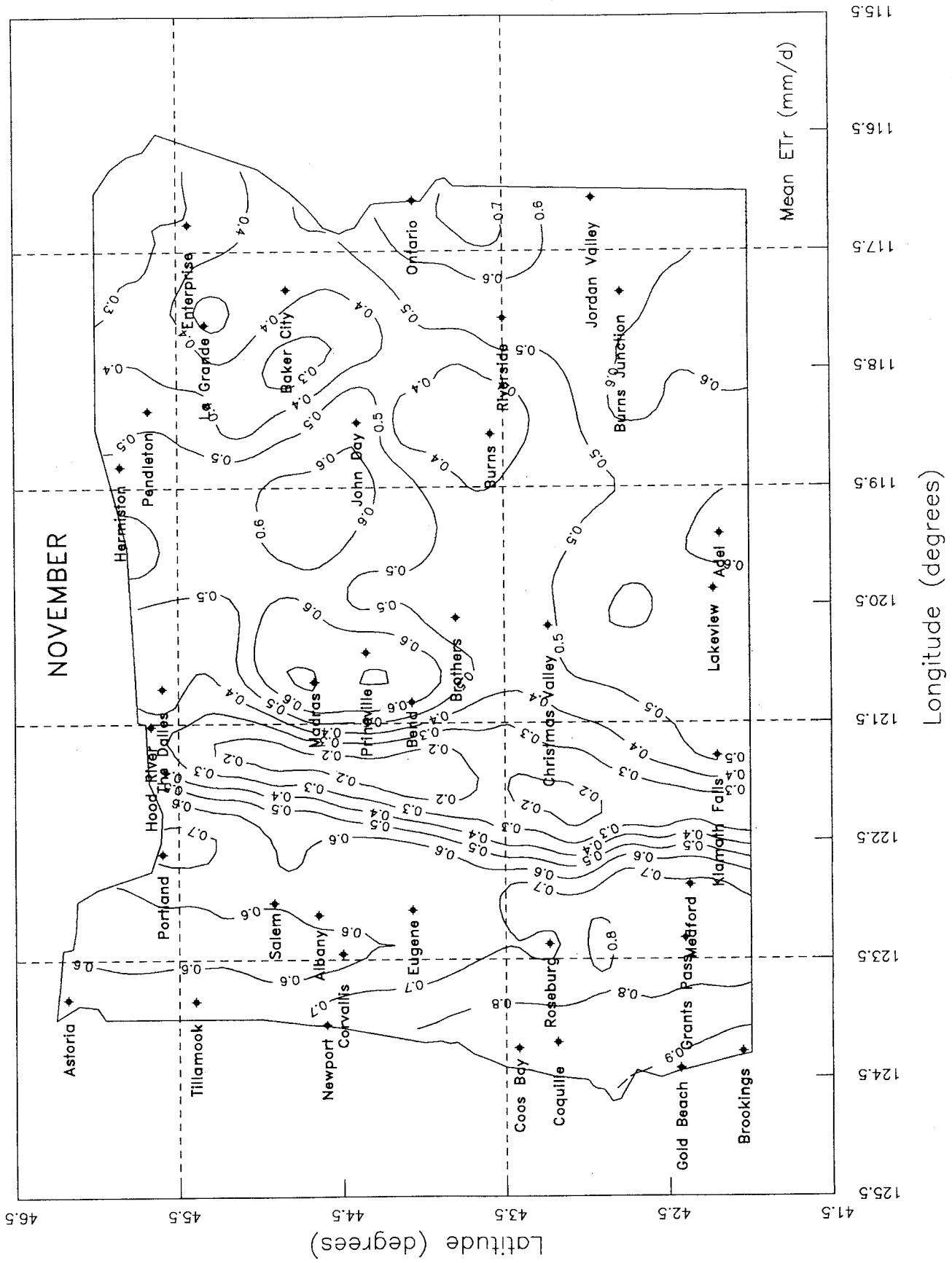


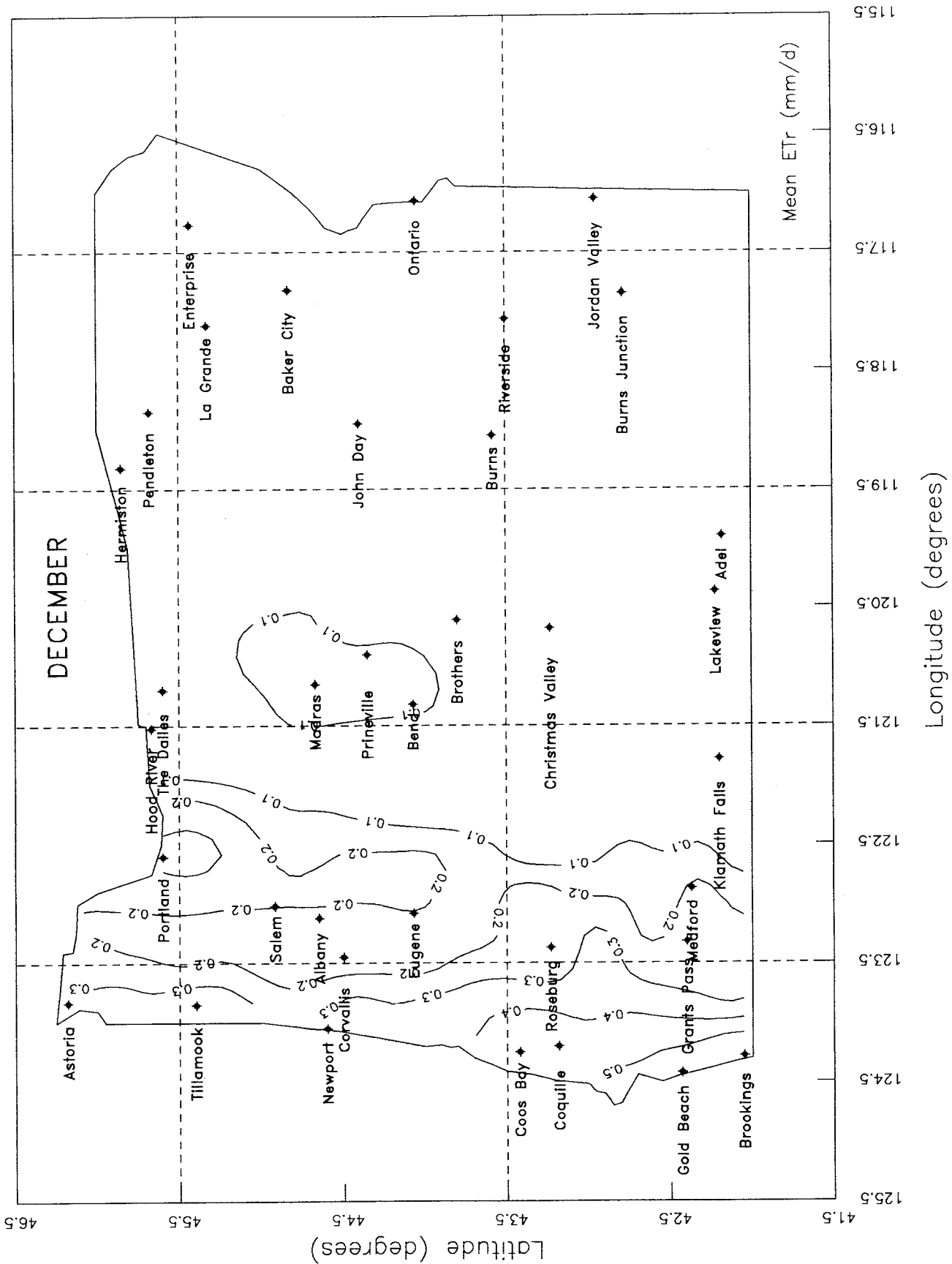












## 4 EXAMPLES

### 4.1 APPLICATION TO SYSTEM DESIGN

In this section, we will demonstrate application of the  $ET_{crop}$  and Net Irrigation Requirement tables for irrigation system design using the example of potatoes grown in the Hermiston area. First, locate those tables applicable to the Hermiston area. Figure 1 and Table 1 show that Hermiston is in region number 14. Table 2 indicates that the pages corresponding to this area for  $ET_{crop}$  and Net Irrigation Requirements are from 103 to 111. Turning to this section, we see that the crops are listed in alphabetical order. There are three tables for potatoes, depending on an early, mid, or late planting dates. Assume that for contract purposes, the growing season will correspond to the mid planting date (April 10) shown in Table 1. Planting dates and growing seasons indicated in Table 1 are general guidelines, but are generally accurate enough for irrigation system design and management purposes in Oregon.

Next, choose the proper design probability level for your situation. This level depends on the crop's susceptibility to water stress, the value of the crop, and the grower's acceptable level of risk. The higher the probability level you choose, the less risk there will be for crop damage due to extreme weather conditions, but the system costs will be higher. It is a judgement call and what is acceptable to one grower or system designer may not work for another.

Table 4 suggests general guidelines for probability levels for different crop types. These values are based on relative value of the crops, susceptibility to water stress, and adaptability of the crop to explore a large volume of soil within the potential root zone. Values in Table 4 should be considered as starting values that may be modified by the grower and designer for specific cases.

Table 4. Suggested range of probability levels in percent for irrigation system design based on type of crop.

CROP TYPE	PROBABILITY LEVEL	
	MINIMUM	MAXIMUM
Field Crops	50	70
Orchards - New Planting	70	80
Orchards - Mature	50	60
Specialty Crops	80	90

Continuing with the example, let's assume we decide to use the Specialty Crop probability levels for design considering the value of potatoes and the relative susceptibility to quality damage from water stress. Assume that the grower and designer are satisfied with an 80 percent or 8 out of 10 year design level. The irrigation system capacity is based on the peak month water requirement, applying the concept that if the capacity is adequate for the maximum use month, it is adequate for any other month. From the table for Hermiston, the peak month is July with an  $ET_{crop}$  of 226 mm (8.9 in.). Analysis of climatic data for the region indicates that no effective precipitation is expected at this probability level for July and therefore the net irrigation requirement is also 226 mm (8.9 in.).

The net irrigation requirement is the estimate of the amount of water which will be used by the crop. This amount of water must be delivered to the active root zone for maximum production. Certain amounts of water applied to the field will not reach the root zone. Water that leaves the field in spray and wind drift from a sprinkler system, runs off the low point of the field (required for some types of surface irrigation systems), or percolates through the soil past the root zone is not considered to be available to meet the net irrigation requirement of the crop. Some of this water may be used to leach salts out of the root zone or have other beneficial uses, but it is not considered to meet the net irrigation requirement as defined in this report.

We developed a system of irrigation efficiencies to calculate the volume of water required at different points in an irrigation system based on the net irrigation requirement (Cuenca, 1989). The combined application and distribution pattern efficiency,  $E_c$ , accounts for deep percolation, runoff, and water leaving the field as spray and wind drift. It is extremely problematic to estimate the combined efficiency for different types of irrigation systems because it is a function of soil type, crop type, meteorological conditions, system design, and management. Table 5 presents a range of combined efficiencies for different types of irrigation systems. The values given in Table 5 should be considered as starting values if no specific information is available for the particular system in question. These values are based on attainable values for systems that are generally well designed and managed. A lower efficiency is related to systems with a lower level of management or operating in an arid climate. The higher values can be considered for well managed systems or a humid climate. These values should be modified if reliable local information is available for the system in question. See Cuenca (1989) for more details and methods to compute the combined efficiency for various types of systems.

Table 5. Suggested combined application and distribution pattern efficiencies in percent for various types of irrigation systems assuming reasonable system design and management.

SYSTEM	COMBINED EFFICIENCY	
	LOW	HIGH
Basin, level border, level furrow, graded border, or graded furrow surface with tailwater return	80	95
Graded border and graded furrow surface with no tailwater return but with cutback	65	75
Graded border and graded furrow surface with no tailwater return and no cutback	40	65
Hand-move and side-roll sprinkler with offsets	70	80
Solid set sprinkler with low wind design	55	65
Solid set sprinkler with high wind design	65	75
Big gun with low wind design	60	70
Big gun with high wind design	70	80
Continuous move sprinkler - center pivot or linear move	75	85
Trickle (or drip)	80	90
Subsurface	85	95

The gross irrigation requirement, or amount of water that must be applied to the field, is obtained by dividing the net irrigation requirement by the combined distribution and application pattern efficiency. In equation form,

$$i_g = \frac{i_n}{E_c} \quad (3)$$

where  $i_g$  = gross irrigation depth, mm  
 $i_n$  = net irrigation depth, mm  
 $E_c$  = combined efficiency, decimal fraction

For this example, assume that the irrigation system in Hermiston is a graded furrow that is well designed and well managed, with no tailwater return, but uses a cutback of the stream size when the water reaches the end of the furrow. The combined efficiency for this case, from Table 5, is 75 percent and the gross depth is calculated as,

$$i_g = \frac{226 \text{ mm}}{0.75} = 301 \text{ mm} \quad (4)$$

so that  $i_g$  is equal to 301 mm (11.9 in.).

The gross volume of water ( $V_g$ ) required for the irrigation system during the month is equal to the gross depth multiplied by the area ( $A$ ) planted to potatoes, taking care that the units are consistent. The required system flow rate ( $Q$ ) is equal to the gross volume divided by the total time ( $T$ ) of irrigation during the peak month, again paying attention to consistency of units. Let's work an example assuming that the area of potatoes to be irrigated is 25 ha (62 ac) and that the total time of irrigation for the month is 320 h [i.e. two 8 h sets per day, 5 days per week for 4 weeks].

$$V_g = i_g(A) \quad (5)$$

$$V_g = 301 \text{ mm} \left( \frac{1 \text{ m}}{1000 \text{ mm}} \right) 25 \text{ ha} \left( \frac{10,000 \text{ m}^2}{\text{ha}} \right) = 75,250 \text{ m}^3 \quad (6)$$

or

$$V_g = 11.9 \text{ in.} \left( \frac{1 \text{ ft}}{12 \text{ in.}} \right) 62 \text{ ac} = 61.5 \text{ ac} \cdot \text{ft} \quad (7)$$

The flow rate required for the system is,

$$Q = \frac{V_g}{T} \quad (8)$$

$$Q = \frac{75,250 \text{ m}^3}{320 \text{ h}} \left( \frac{1 \text{ h}}{60 \text{ min}} \right) \left( \frac{1000 \text{ L}}{1 \text{ m}^3} \right) = 3916 \text{ L/min} \quad (9)$$

or



$$Q = \frac{61.5 \text{ ac} \cdot \text{ft}}{320 \text{ h}} \left( \frac{326,000 \text{ gal}}{1 \text{ ac} \cdot \text{ft}} \right) \left( \frac{1 \text{ h}}{60 \text{ min}} \right) = 1044 \text{ gpm} \quad (10)$$

The table given in the Appendix may be applied for conversion between English system units and the Système International (SI - commonly called metric system) more generally used throughout the world. Final system design should be based on manufactured capacity of available equipment and cooperative efforts of the grower and an experienced system designer or engineer. Trade-offs will be required considering operating schedule, area to be irrigated, required flow rate, soil water-holding capacity, and soil intake rate.

## 4.2 APPLICATION TO IRRIGATION SCHEDULING

Irrigation scheduling involves determining the time and required depth of irrigation throughout the growing season. Numerous irrigation scheduling methods are available. Traditional methods may depend on a fixed, calendar-based schedule that may be modified depending on observed crop status. Some scheduling methods include monitoring meteorological variables and estimating crop water use over the period of interest using a method such as the FAO Blaney-Criddle applied in this report. Others involve monitoring soil moisture content using devices ranging from a simple soil sampler to a sophisticated neutron probe. The objective of all of the methods is to assist the grower in applying the correct amount of water to replenish that used by the crop since the last irrigation.

The crop water requirements in this report are based on an average of 46 years of meteorological data. Since no year is average, the Crop Water Use tables in this report should only be used for planning irrigations. Actual decisions should be based on observed meteorological and crop conditions since the last irrigation.

The following example shows how to use the crop water requirement tables for scheduling irrigations for the example mid-season potato crop for the Hermiston area. Assume that the irrigation system has been designed, based on the peak month crop water requirement and soil water-holding capacity of the root zone, to apply a net irrigation depth of 50 mm (2.0 in.) for each irrigation. If the system is going to be operated in the same manner (i.e. same set time) all season, the question is what irrigation interval should be anticipated for planning purposes during August.

From the mid-season potato table for Hermiston, the net irrigation requirement for August is seen to be 193 mm (7.60 in.) for 8 out of 10 years. Since there are 31 days in August, the estimated daily water use is 6.2 mm/d (0.25 in./d). If a net depth of 50 mm (2.0 in.) is to be applied for each irrigation, the irrigation interval,  $I_f$ , is calculated as,

$$I_f = \frac{i_n}{ET_{crop}} \quad (11)$$

$$I_f = \frac{50 \text{ mm}}{6.23 \text{ mm/d}} = 8 \text{ d} \quad (12)$$

For planning purposes, we could anticipate irrigating the same field every 8 days during August. This result would have to be modified to account for actual meteorological and crop conditions at the time of operation.

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## 6 APPENDIX

APPENDIX A. Conversion between English and Système International (SI) units for quantities applicable to irrigation system design and management.

QUANTITY	FROM: ENGLISH UNITS	TO: SI UNITS	MULTIPLY BY:
Area	in. <sup>2</sup>	m <sup>2</sup>	0.000 645 16
	ft. <sup>2</sup>	m <sup>2</sup>	0.092 903 04
	in. <sup>2</sup>	mm <sup>2</sup>	645.16
	in. <sup>2</sup>	cm <sup>2</sup>	6.451 6
	acre	ha	0.404 687 3
	mile <sup>2</sup>	km <sup>2</sup>	2.589.998
Flow, mass, rate	lb/min	kg/min	0.453.592 4
	lb/s	kg/s	0.453.592 4
	g/min	g/min	
	ton (short)/h	t/h, Mg/h	0.907 184 7
Flow, volume	ft <sup>3</sup> /s	m <sup>3</sup> /s	0.028 316 85
	ft <sup>3</sup> /s	m <sup>3</sup> /min	1.699 011
	gal/s (gps)	L/s	3.785 412
	gal/s (gps)	m <sup>3</sup> /s	0.003 785 412
	gal/min (gpm)	L/min	3.785 412
	gal/min (gpm)	L/s	0.063 090 20
	oz/s	mL/s	29.573 53
	oz/min	mL/min	29.573 53
	gal/h	L/h	3.785 412
	ft <sup>3</sup> /s	m <sup>3</sup> /s	0.028 316 85
Length	mile	km	1.609 344
	rod	m	5.029 210
	yd	m	0.914.4
	ft	m	0.304 8
	in.	cm	2.54
	in.	mm	25.4
Mass	ton (long)	t, Mg	1.016 047
	ton (short)	t, Mg	0.907 184 7
	lb	kg	0.453 592 4
	slug	kg	14.593 90
	oz	g	28.349 52

QUANTITY	FROM: ENGLISH UNITS	TO: SI UNITS	MULTIPLY BY:
Volume	yd <sup>3</sup>	m <sup>3</sup>	0.764 554 9
	ft <sup>3</sup>	m <sup>3</sup>	0.028 316 85
	bushel	L	35.239 07
	ft <sup>3</sup>	L	28.316 85
	in. <sup>3</sup>	L	0.016 387 06
	in. <sup>3</sup>	cm <sup>3</sup>	16.387 06
	gal	L	3.785 412
	qt	L	0.946 352 9
	pt	L	0.473 176 5
	oz	mL	29.573 53
	acre · ft	m <sup>3</sup>	1 233.489
		dam <sup>3</sup>	1.233.489
		m <sup>3</sup>	0.035 239 07
Volume per area	gal/acre	L/ha	9.353 958
Volume per time	gal/h	L/h	3.785 412

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