

Table 1. Agronomic traits for 2004 USDA-ARS Elite Nursery

	Hermiston Lexington Moro Pendleton Pullman					Average over all locations		
	Grain yield (bu/acre)					Heading date (fr. 1/1)	Height (cm)	Test weight (lb/bu)
A00154	117	43	60	107	88	155	83	58.3
A00248	109	42	61	111	84	155	90	57.4
A00258	115	48	65	104	86	155	87	58.5
A99123	134	41	73	102	91	152	81	59.3
A99165	120	47	55	95	92	156	91	59.4
C960097	118	47	59	87	92	154	88	58.2
C96059-2	123	43	57	102	93	154	93	59.2
X950424-1	114	41	68	99	89	155	89	57.0
X950424-2	91	41	55	98	87	156	100	58.2
X960407	115	39	60	95	93	157	84	58.1
X960414-1	109	43	61	85	90	156	87	59.6
X960414-2	115	46	64	97	88	156	89	59.5
X960418-1	116	44	73	105	81	156	87	59.5
X960418-2	107	48	64	103	91	156	89	60.0
X960491	129	34	65	105	99	154	86	59.3
X960749-1	115	48	56	102	97	156	89	58.0
X960749-2	116	43	62	109	97	158	89	59.1
ELTAN (a)	117	32	70	99	100	156	87	56.6
RESIDENCE	128	31	71	97	107	154	80	57.9
CHUKAR	111	36	57	105	97	157	88	56.0
FINCH	110	46	66	105	97	157	87	57.9
FINCH	104	44	66	96	91	157	85	58.4
FINCH	109	45	53	113	91	157	84	58.1
FINCH	104	47	67	104	102	157	83	58.2
TUBBS	133	39	63	99	87	152	86	56.4
TUBBS	132	42	71	111	105	152	88	55.8
TUBBS	123	48	74	111	110	152	90	56.8
TUBBS	131	50	59	112	103	152	88	56.6
Loc. Mean	117	43	63	102	94			

(a) Yield data were from Lexington and Moro were variable due to rodent damage and problems with fertilizer application, respectively. Yield data from Pullman, WA are reported for reference.

(b) All named cultivars are included as checks. Finch and Tubbs were each included four times in each replication as variability checks.

Table 2. Milling and baking quality characteristics of advanced genotypes in USDA-ARS Wheat Breeding Program, 2004

NAME	Test Weight (lb/bu)	Flour Protein Conc. (%)	Udy Hardness (%)	Flour Yield (%)	Break Flour Yield (%)	Flour Ash (%)	Mill Score	Cookie Diameter (cm)	Viscosity	Cake Volume (cc)
CHUKAR	58.1	9.1	37	67	53	0.40	82	9.6	64	1263
FINCH	59.7	9.2	30	66	50	0.43	78	9.2		1263
ARS00127	60.6	8.9	34	68	53	0.35	85	9.6		
ARS00173	59.1	9.0	36	67	52	0.38	82	9.3		
ARS00226	59.9	8.6	31	67	51	0.42	79	9.3		
ARS00235	59.8	9.0	36	67	51	0.42	79	9.3		
ARS96277	60.7	9.0	27	64	48	0.38	79	9.1		
ARS97135-9	57.6	9.7	34	69	53	0.41	83	9.5		
ARS97173-16	60.5	7.8	34	69	52	0.37	85	9.5		
ARS99105	59.4	8.5	33	66	51	0.37	82	9.1		
ARSC96059-1	60.5	9.3	32	67	51	0.28	89	9.6	71	1253
ARSX960411-2	59.9	8.8	33	67	52	0.32	86	9.4	75	1213
A00154	61.3	7.0	35	70	55	0.35	88	9.6	39	1395
A00248	58.4	9.3	30	68	52	0.44	79	9.6	64	1373
A00258	60.1	9.3	27	65	49	0.45	75	9.1	90	1320
A99123	59.8	8.9	32	69	53	0.38	84	9.2	88	1313
A99165	61.2	9.4	36	68	51	0.37	84	9.6	88	1245
C960097	58.4	10.1	33	68	51	0.41	81	9.6	70	1275
C96059-2	59.0	9.4	36	67	52	0.31	86	9.4	73	1340
X950424-1	57.7	9.9	32	66	50	0.47	75	9.2	73	1223
X950424-2	58.1	10.4	26	66	49	0.43	77	9.3	81	1283
X960407	60.0	9.4	36	66	49	0.39	80	9.2	70	1295
X960414-1	61.5	8.5	37	67	51	0.39	81	9.4	58	1273
X960414-2	61.4	8.5	34	68	52	0.39	82	9.3	58	1250
X960418-1	61.2	8.0	35	68	52	0.32	87	9.4	58	1300
X960418-2	63.9	6.6	36	69	53	0.31	89	9.5	40	1308
X960491	60.9	9.3	31	66	49	0.40	79	9.4	83	1260
X960749-1	59.9	9.0	31	67	51	0.39	81	9.4	68	1265
X960749-2	59.6	9.4	32	67	52	0.37	83	9.5	72	1305

(a) Data are from Moro, Pendleton, and Pullman for 2003 season. All traits were analyzed at the USDA-ARS WWQL, Pullman WA

Figure 1. Coleoptile lengths of the Tall Late Nursery, Pendleton, OR, 2004

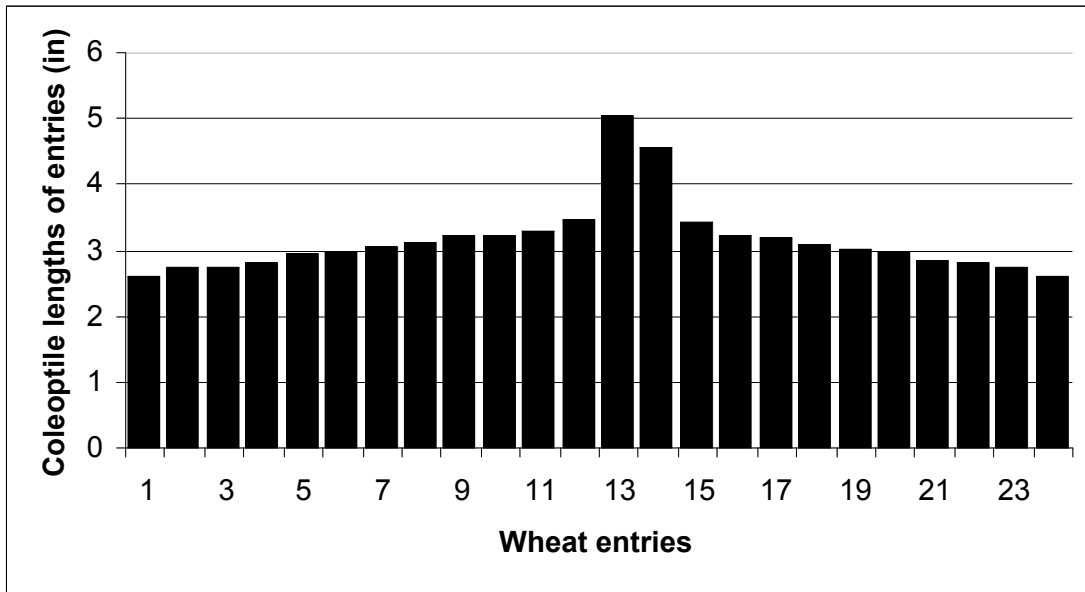


Figure 2. Leaf breadth measurements of the Prelim 1 Nursery, Pendleton, OR, 2004

