Threat-Based Land Management: Field Documentation Form Updated 6/26/2019															
General	Observer	D	Date			Previous precipitation (past year)				/ear)	Allotment			Pasture	
information						□High □Low □Avg. □Unknown									
	Potential or expressed	thre	reat(s) (circle)			Ecological state (circle)									
	IAG ² Dual	Ju	Juniper			A B C D E Oth				ner					
Ecological	GIS datasets used to map ecological state polygon described on this form. (Check all that apply and specify source)												pecify source)		
threats ¹ and state			NAIP imagery										☐ GRSG seasonal		
			-0-7			resilience			· ·				hak		
	☐ Conifer cover	□ Sa	Sagebrush cover			□ Invasive			e plants 🗆 Soils					□ Other	
Habitat acreage within polygon	Priority habitat							Priority areas for		r					
	management area							conservation							
	General habitat management area					C			Other						
Random	Random meander GPS	trac	k file ³	3											
meander track / photo point location(s)	Photo 1 (coordinates)		<u>'</u>				Photo 4 (coo			ordir	nates)				
	Photo 2 (coordinates)							Photo 5 (coordinates			nates)				
	Photo 3 (coordinates)							Photo 6 (coordinates)							
Vegetation	Vegetation type⁴														
	Dominant plant species														
	Grasses		Forbs				Shrubs			Trees					
			•	_											
	Estimated average der	isity	1		1	e perennial bunchgrasses			i					individuals/m ²	
	Sagebrush present?		No	Yes	If, ye										
					Spec			obruch covor							
					Estimated sagel										
	Juniper present?					stimated juniper co									
		=				croachment phase ⁵									
	Invasive annual grass					pecies									
	present?		Invasion phase ⁶				1								
	Infestations mappe					ate mapped									
	Other weeds present?					ecies									
	Infestations mapped? Key area(s) ⁷ identified in		Da Da		Date	ate mapped									
	ecological state stratum				Coordinates										
Potential threats ⁸ (check all that apply)	☐ Fragmentation	□ Juniper encre			ncroad	pachment			□ Lack of fire			☐ Recreation		on	☐ Feral horses
	□ Wildfire	Livestock gra													□ Insecticide
	□ Vegetation treatment □ Invasive v			•				_	-			□ Other			
												virus			

Footnotes

- ¹ Ecological threats are based on the predominant threats posed at the site: invasive annual grasses, both invasive annual grasses and juniper expansion, or primarily juniper expansion.
- ² IAG = Invasive annual grass.
- ³ If used, the GPS track of the random meander should be permanently archived for assessment repeatability.
- ⁴ Write a brief description of vegetation. For example, "mountain big sagebrush Idaho fescue plant community."
- ⁵ See Miller, R.F., Bates, J.D., Svejcar, T.J., Pierson, F.B., and Eddleman, L.E., 2007, Western Juniper Field Guide: Asking the Right Questions to Select Appropriate Management Actions: U.S. Geological Survey Circular 1321, 61 p.
- ⁶ **Phase I:** 90% or more of interspaces are primarily bare ground, and multiple bunchgrass age classes are represented; generally associated with ecological states A & B. **Phase II:** Up to 50% of interspaces are occupied by invasive annual grasses, and multiple bunchgrass age classes represented; generally associated with IAG and dual states A & B that are at risk of conversion to IAG States C & D or dual state E, respectively. **Phase III:** More than 50% of interspaces are occupied by invasive annual grasses, and only 1 bunchgrass age class or none at all is represented; generally associated with IAG states C & D and dual states D & E.

	Factors to consider ⁹ :											
Estimate of apparent trend	For IAG and dual threats: If shrubs are present, what is the dominant vegetation in the shrub interspaces?9			Prima	rily occupied ba	□ Stable□ Increasing						
				Invas	ive annual grass	□ Decreasing						
	For IAG and dual threats: If shrubs are largely absent, what occupies the interspaces between perennial bunchgrasses? ¹⁰				ground, litter, d	□ Stable□ Increasing						
					Invasive annual grasses							
	For dual and juniper threats: Are juniper seedlings, leader growth ¹¹ , or both, common?				Yes							
					No							
		ce of recruitment (i.e. multiple age		Yes		□ Stable□ Increasing						
	or functional gr	roups present) or d with desired pla	is all	No	□ Decreasing							
	How would the plant community most				Perennial bunchgrasses are primarily located under shrub canopies and thus are more susceptible to mortality during a fire event.							
	likely respond after wildfire?				al bunchgrasses are loc	□ Stable□ Increasing						
	Will current grazing management				est/recovery is planned	□ Stable						
	(including wild horses) maintain or				growing. Forage dema	□ Increasing						
	promote desirable vegetation?				ontinuous (every year) on is actively growing.	□ Decreasing						
	Observed apparent trend (circle)				ırd Stab	le Dowi	nward	Not apparent ¹²				
Rationale for ecological state determination and trend ¹³												
Other relevant data (legacy or collected concurrently)	□ AIM	□ HAF	□ Range health		□ Utilization	□ ESD	□ Trend	□ Other				
	□ Legacy	□ Legacy	□ Legacy		□ Legacy	□ Legacy	□ Legacy	□ Legacy				
	□ Concurrent	□ Concurrent	□ Concurrent		☐ Concurrent	☐ Concurrent ☐ Concurren		☐ Concurrent				
Additional notes												

Footnotes, continued

- ⁷ A "key area" is a representative area in the pasture pertaining to a specific management question.
- ⁸ Potential threats are those that either currently exist or pose an imminent threat in the foreseeable future.
- ⁹ See Figure 11 (page 19) for guidance on developing rationale for observed apparent trend.
- ¹⁰ IAG (or its seed) is present in most sagebrush/bunchgrass plant communities. Be aware that, some years, climatic conditions are ideal for expression of invasive annuals, which can skew your assessments of plant community dominance and apparent trend. In your observations, focus instead on the density of perennial bunchgrasses because it fluctuates much less than the relative abundance of invasive annual grasses. Rule of thumb: if you can easily step from one perennial bunchgrass to another, their density is likely adequate to suggest an apparent stable or upward trend. Conversely, if you must leap from one bunchgrass to another, that suggests a downward trend, particularly if invasive annuals fill the spaces between bunchgrasses.
- ¹¹ Leader growth = new growth on the ends of branches or top of tree.
- ¹² Overall trend is "not apparent" if "increasing" and "decreasing" are indicated for an equal number of the individual factors considered to determine the overall trend.
- ¹³ Explain the ecological state and apparent trend determination. List any factors considered in addition to those listed on the first page of this form.