Project Site Name:
Total number of Map units within Project Site:

Map Unit Number:	Dates of map unit transects:
Total number of transects: Names of transects:	Total number of photos: Aspect of MU: Slope of MU:

Map Unit Description (1 to 2 sentences describing vegetation, topography, and other features relevant to sage-grouse within map-unit):

Notes:

Score Sheet for Rating Resistance and Resilience to Disturbance to Invasive Annual Grasses in the Great Basin (adapted from Miller et al. 2014)

Map Unit Name/Number:	Ecological Site Name/Number:	Date:
Acreage of Map Unit/Ecosite:	**UTMs:**	

SITE CHARACTERISTICS	SITE CONDITION (select one)	SITE SCORE
Temperature (Soil temperature regime + Species or subspecies of sagebrush) - Desktop		
Soil temperature regime https://casoilresource.lawr.ucdavis.edu/soil-properties/ -> Land Use -> Soil Temp Reg	**1** = hot-mesic (4" precip.) **2** = warm-mesic (4-8" precip.) **3** = cool-mesic or cool-cryic (8-12" or 18+" precip.) **4** = warm frigid (12-14" precip.) **5** = cool-frigid (14+" precip.) **6** = warm-cryic (16+" precip.)	
Species or subspecies of sagebrush	**1** = Wyoming, low, black, or Lahontan **2** = basin, Bonneville, or xeric **3** = mountain	
Moisture (Precipitation + Soil Texture + Soil Depth) – Desktop Derive from NRCS Official Soil Series Description (OSDs) based on Soil Web Survey's Map Unit Descriptions		
Precipitation (in)	**1** = <10 **2** = 10-12 **3** = 12-14 **4** = >14	
Soil texture (from the taxonomic class or typical pedon, not the soil layers)	**1** = clay, sand, or silt **2** = silty loam, sandy loam, or clay loam **3** = loam	
Soil depth (in)	**0 =** very shallow (<10) **1 =** shallow (10-20) **3 =** moderately deep to deep	
Vegetation (Plant groups modified by soil depth) - On-Site		
Plant Groups Deep-rooted perennial grasses (DRPR) potentially dominant in shallow to deep soils >10 in. Sandberg bluegrass (POSE) potentially dominant in very shallow soils <10 in. Perennial forbs (PF) Invasive annual grasses (IAG)	**0 =** DRPG and POSE scarce to severely depleted (DRPG < 2-3/m^2) and less than 5% foliar cover **3 =** DRPG on soils >10 in. scarce, but POSE or PF >50% foliar cover **6 =** DRPG on soils >10 in. depleted (2-3/m^2 or about 5-10% foliar cover) and/or co-dominant with IAG, **or** on soils < 10 in. POSE and PF 5-15% foliar cover and co-dominant with IAG. **9 =** DRPG and PF dominant on soils > 10 in. **or** POSE and PF dominant on soils < 10 in.	
	TOTAL:	
R & R RATING (circle one)	**Very low** < 10; **Low** = 10-14; **Moderate** = 15-20; **High** > 20	

Ability to Control Wildfire Scorecard

Map Unit Name/Number:	Ecological Site Name/Number:	Date:
Acreage of Map Unit/Ecosite:	**UTMs:**	

SITE CHARACTERISTICS	SITE CONDITION (select one)	SITE SCORE
Topography/ Access/ Response Time - Desktop		
Average percent slope in project area (GIS)	**1 =** 0-10% **3 =** 11-25% **5 =** greater than 25%	
Access to project area for suppression resources	**1 =** paved road **2 =** improved dirt road **4 =** unimproved two-track **5 =** hike or aircraft	
Response Time of Fire Suppression Resources for Initial Attack	**1 =** Less than 1 hour **3 =** 1-2 hours **5 =** greater than 2 hours	
Average aspect of project site (GIS)	**1 =** N, NE **2 =** NW, E **3 =** W, SE **4 =** S, SW, Flat	
Road Distance to Available Water Sources	**0 =** <1 mile **3 =** 1 to 3 miles **5 =** >3 miles	
Vegetation/Fuel Type/Ignition Risk – On-Site		
Dominant fuel type in project area (Fire Behavior Fuel Models based on USDA Forest Service Gen. Tech. Rep. RMRS-GTR-153. 2005; https://www.fs.fed.us/rm/pubs/rmrs_gtr153)	**0 =** Irrigated pasture (NB3) **1 =** Riparian wet meadow (GR3) **3 =** Perennial Grass (GR1, GR2, GR4) **5 =** Shrub (SH1, SH2) **7 =** Grass/Shrub (GS1, GS2) **8 =** Heavy Shrub/Grass (SH5, SH7) **10 =** Pinyon/Juniper (TU1, TU4, TU5)	
Dominant fuel type adjacent to the project area (w/in 1 mile)	**0 =** Irrigated (NB3) / Riparian (GR3) **1 =** Perennial Grass (GR1, GR2, GR4) **5 =** Shrub (SH1, SH2) **7 =** Shrub/Grass (GS1, GS2) **8 =** Heavy Shrub/Grass (SH5, SH7) **10 =** Pinyon/Juniper (TU1, TU4, TU5)	
Invasive Annual Grass Cover (Based on HQT data)	**0 =** 0% **5 =** 1-5% **10 =** >5	
Vegetation Condition Class VCC Click the Globe -> View Data or Download Data (as ArcGrid); LF(Latest Year) -> Fire Regime -> Vegetation Condition Class http://landfire.cr.usgs.gov/viewer/viewer.html	**1 =** Low **2 =** Moderate **3 =** High	
	TOTAL:	
WILDFIRE RATING (circle one)	**High** < 21; **Moderate** = 21-35; **Low =** >35	

Project site:

Date:

Transect ID:

Bearing:

NEVADA CONSERVATION CREDIT SYSTEM HABITAT QUANTIFICATION TOOL

Site-Scale (4th Order) Attribute Measurements

Site Name:				
Date:	Observers:		Start time:	End time:
Transect name:	Transect UTM E:		Transect UTM N:	
Transect Sample Bearing:	GIS/Camera / Photo #'s:			
Is transect located within what would generally be called a meadow? Yes No				
What sagebrush species is the transect dominated by? Big Low/Black N/A				

DISTANCE TO SUITABLE SAGEBRUSH COVER (10% PER 30M X 30M AREA)

Distance from 30m mark (m):   *if transect within suitable cover, distance = 0

LINE INTERCEPT (SHRUB COVER)

Low/Big Sagebrush/ Other	Start (m)	Stop (m)	Sagebrush Height (cm)	Low/Big Sagebrush/ Other	Start (m)	Stop (m)	Sagebrush Height (cm)

Shrub species encountered along transect:	Notes for Line Intercept:

DAUBENMIRE PLOTS (HERBACEOUS COVER)

Percent cover using the following coverage classes: 0 = 0%, 1 = >0-5%, 2 = 6-25%, 3 = 26-50%, 4 = 51-75%, 5 = 76-95%, 6 = >96%

PF = Perennial Forbs; PG = Perennial Graminoids; IAG = Invasive Annual Grasses
(State Listed Noxious Weeds are not Counted)

Plot #	Functional Group	Cover Class
1	PF	
	PG	
	IAG	

Plot #	Functional Group	Cover Class
4	PF	
	PG	
	IAG	

Plot #	Functional Group	Cover Class
2	PF	
	PG	
	IAG	

Plot #	Functional Group	Cover Class
5	PF	
	PG	
	IAG	

Plot #	Functional Group	Cover Class
3	PF	
	PG	
	IAG	

UNIQUE PERENNIAL & ANNUAL FORBS IN DAUBENMIRE FRAMES:

List all unique forb species rooted in all Daubenmire plots within this transect: **Total Count: _____**

(State Listed Noxious Weeds are not Counted)

_____   _____   _____
_____   _____   _____
_____   _____   _____
_____   _____   _____
_____   _____   _____
_____   _____   _____
_____   _____   _____
_____   _____   _____
_____   _____   _____
_____   _____   _____

ALL SPECIES LIST:

Graminoid and other Forb species encountered on plot:	All invasive and noxious (*) weeds encountered on plot and a rough cover estimate of each:	Notes for Daubenmire plots: