

# CONSERVATION RECORDS

## Grazed Land Inventory

**G-2** ..... *Table G1: Animal Unit Equivalent*  
..... *Worksheet G1: Livestock Inventory*

**G-4** ..... *Worksheet G2: Grazing System Plan*

**G-8** ..... *Worksheet G3: Forage Inventory*  
..... *Table G2: Dominant Shrub and Grass Species*

**G-10**..... *Worksheet G4: Pasture Nutrient Input*

**G-12**..... *Worksheet G5: Pasture & Range Pest Management*

**G-14**..... *Worksheet G6: Pasture Irrigation Management*

**G-16**..... *Notes*

Name: \_\_\_\_\_

Farm/Ranch: \_\_\_\_\_

# Livestock Inventory

The next two worksheets will help you document your herd inventory needs (demands) and corresponding forage and roughage inventory available (supply). This will help you and your conservation planner determine whether your grazing system is balanced for the most sustainable use of your grazing land.

The **Livestock Inventory Worksheet** captures an overall description of your livestock operation, including the number of animals and the corresponding Animal Units (au). First, refer to Table G1 below to determine the appropriate Animal Unit Equivalents (aue) for your livestock or wildlife type. For example, the intake required for one 1,000-pound mature cow and her calf equals one Animal Unit (1.0 au). An Animal Unit Month (AUM) is the amount of forage needed to sustain an animal unit, or its equivalent, for one month. Your total AUMs/year (shown with an asterisk\* in the example) depicts the total number of AUMs of forage or roughage needed for your operation. Please refer to the example below when entering your information on the following page.

**Table G1: Animal Unit Equivalents**

Type of Livestock	Animal Unit Equivalent (aue)
1,000 lb Cow w/calf	1.0 au
1200 lb Cow w/calf	1.15 au
850 lb Replacement Heifers	.9 au
1,500 lb Bull	1.35 au
1,500 lb Horse	1.25 au
200 lb Ewe/Doe	.16 au
Geese	.07 au
Deer	.2 au
Elk	.6 au

**EXAMPLE**

**Worksheet G1: Livestock Inventory, Total AUMs Needed**

	1	2	3	4	5	6
Herd Designation	Livestock or Wildlife Type	Number of Animals	Animal Unit Equivalent (aue) from Table G1 above	Total AUs (multiply columns 2 & 3)	Months on Farm	Total AUMs Needed per year (multiply column 4 by column 5)
Pairs	Cow w/calf (1,200 lb)	350	X 1.15 aue	= 403 AUs	X 12	= 4,836 AUMs/year
Heifers	Replacement Heifers	30	0.9 aue	27 AUs	12	324 AUMs/year
Wildlife	Elk	50	.6 aue	30 AUs	3	90 AUMs/year
Bulls	Bulls	20	1.35 aue	27 AUs	12	324 AUMs/year
	<b>Totals</b>	450		487 AUs		* 5,574 AUMs/year

# Livestock Inventory

## Worksheet G1: Livestock Inventory, Total AUMs Needed

	1	2	3	4	5	6
<i>Herd Designation</i>	<i>Livestock or Wildlife Type</i>	<i>Number of Animals</i>	<i>Animal Unit Equivalent (aue) from Table G1 above</i>	<i>Total AUs (multiply columns 2 &amp; 3)</i>	<i>Months on Farm</i>	<i>Total AUMs Needed per year (multiply column 4 by column 5)</i>
		(# animals) X (aue) = AU's X (# months) = AUMs/year				
	<b>Totals</b>		X	AUs	X	AUMs/year

# Grazing System Plan

The **Grazing System Plan Worksheet** documents your grazing management system. Use the information identified in the previous worksheet to complete the field and Herd Designation. This worksheet shows the yearly grazing system for each herd or movement group for your operation. Use additional sheets to document each year.

For the Conservation Security Program, at least two year of records should be completed.

To complete this worksheet, please use the same Herd Designations used on the previous worksheet. Please show the grazed time period in half-month increments. Also, show the stubble height for each field in the first month and last month of use.

**EXAMPLE**

**Worksheet G2: Grazing System Plan**

**YEAR:** 2003

Field/Unit	Field Type	Herd Designation	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tract 2395	Feedlot	Pairs	-----Fed Hay-----									-----Fed Hay----		
Miller Place	Pasture	Pairs				12 in.	X	6 in.						
Tract 523	Grazed Forest	Pairs						15 in.	X	X	X	7 in.		
Home Place	Range	Heifers	Fed Hay			10 in.	X	6 in.						
Fields 11, 15	Range	Heifers							16 in.	X	7 in.	-----Fed Hay-----		







# Forage Inventory

The **Forage Inventory Worksheet** documents the total amount of forage on your operation. This worksheet and the previous grazing worksheets will help you to create a balanced grazing program. To calculate total AUMs on your field (column 4), one of the following two calculations will be needed:

- 1) If your yield/acre per year (column 3) is calculated number of **Acres per AUM** then:
  - ↳ Total Acres (column 2) divided by #Acres per AUM (column 3) equals Total AUMs per year (column 4). See line 1 of the example below.
- 2) If your yield/acre per year (column 3) has been calculated as number of **AUMs per Acre** then:
  - ↳ Total Acres (column 2) multiplied by #AUMs (column 3) equals Total AUMs per year (column 4). See line 2 of the example below.

**\*Note:** If your yield is recorded in tons, multiply the total number of tons by 2.54 to get the number of AUMs per acre for column 3. If you are unable to determine the yearly AUMs for your pasture or range, leave columns 5 and 6 blank, and contact your local NRCS conservation planner for assistance. This information is critical in order to complete all of the Grazed Land Worksheets.

Please refer to the example below when entering your information on the following page.

**EXAMPLE**

## Worksheet G3: Forage Inventory, Number of AUMs Available

1	2	3	4	5	6
<b>Field/Unit</b>	<b>Dominant Shrub Species or Type</b> (species name or select from options in Table G2)	<b>Dominant Grass Species or Type</b> (species name or select from options in Table G2)	<b>Acres</b>	<b>Yield/Acre per Year</b> (if known)	<b>Total Forage Yield (AUMs)</b>
Field 11,15, & 16	serviceberry	intermediate wheatgrass	18.4 ac	x 3.74 AUM/ac	= 68.8 AUMs
Tract 523	sage brush	basin wildrye	5000 ac	/ 4 ac/AUM	= 1250 AUMs
Tract 2395	medium height	Idaho fescue	103	4.5 AUM/ac	464 AUMs
Miller Place	sage brush	Sandberg bluegrass	2000	0.33 AUM/ac	660 AUMs
Home Place	-----	annuals	55	1.36 AUM/ac	75 AUMs
<b>Totals</b>			7,176.4		2,619.8 AUMs

## Table G2: Dominant Shrub and Grass Species

If the dominant species is unknown, enter one of the following in columns 2 and 3 of the **Forage Inventory, Number of AUMs Available Worksheet** above.

<b>Shrub Species Types</b>	short	medium	tall			
<b>Grass Species Types</b>	short bunchgrass	medium bunchgrass	tall bunchgrass	sod-forming	annual	introduced

# Forage Inventory

## Worksheet G3: Forage Inventory, Number of AUMs Available

1	2	3	4	5	6
<i>Field/Unit</i>	<i>Dominant Shrub Species or Type</i> <small>(species name or select from options in Table G2)</small>	<i>Dominant Grass Species or Type</i> <small>(species name or select from options in Table G2)</small>	<i>Acres</i>	<i>Yield/Acre per Year</i> <small>(if known)</small>	<i>Total Forage Yield (AUMs)</i>
				X	=
				/	=
<b>Totals</b>					

# Pasture Nutrients

This worksheet captures information on the nutrient applications on your pastures. In the **Soil Test** column, please indicate whether your fertilizer application rate is based on soil test results and how often a test is completed.

Refer to the example below when entering your information on the following page.

**EXAMPLE**

## Worksheet G4: Pasture Nutrient Input

Forage Grown	Field/ Unit	Nutrient Source	Application Rate lbs/ac	Application Method and Date	Application Depth	Soil/Plant Tissue Test
Irrigated Orchardgrass	3 & 4	20-0-0	400 lbs/ac	Surface Broadcast 3 times	---	No
Int. Wheatgrass and Alfalfa	6	20-10-10	150 lbs/ac	Surface Broadcast 1 time	----	Yes. Completed every 2 years

<b>1. Do you irrigate grazed lands?</b> <i>*If you irrigate extensively, please complete the Irrigation System Description section of the Conservation Records.</i>	<b>*Yes</b> ✓	<b>No</b>
<b>2. If irrigated, has irrigation water been tested for nitrates?</b> <i>If you have the results from this test, please attach them to this page.</i>	<b>Yes</b>	<b>No</b> ✓
<b>3. Do you apply nutrients according to NRCS, Extension, or accredited industry recommendations or realistic yield goals?</b>	<b>Yes</b> ✓	<b>No</b>
<b>4. Do you properly dispose of rinse water after cleansing fertilizer application equipment?</b>	<b>Yes</b> ✓	<b>No</b>

<b>5. Do you alter your irrigation schedule based on when nutrients and pesticides are applied? How?</b>
<i>Yes—irrigation applied after animal waste application to incorporate nutrients.</i>
<b>6. Do you utilize your irrigation system for application of pesticides and fertilizers (chemical/fertigation)? If yes, how?</b>
<i>No</i>

<b>7. If fields are located near a surface water source, do you have designated set-back areas (buffers, vegetation)? If so, what is the approximate width of the area?</b>
<i>Average width is two times the active channel width—mixture of herbaceous vegetation and grasses with equal amount of native trees and shrubs.</i>

# Pasture Nutrients

## Worksheet G4: Pasture Nutrient Input

Forage Grown	Field/ Unit	Nutrient Source	Application Rate lbs/ac	Application Method and Date	Application Depth	Soil/ Plant Tissue Test

<b>1. Do you irrigate grazed lands?</b> <i>*If you irrigate extensively, please complete the <i>Irrigation System Description</i> section of the <i>Conservation Records</i>.</i>	<b>*Yes</b>	<b>No</b>
<b>2. If irrigated, has irrigation water been tested for nitrates?</b> <i>If you have the results from this test, please attach them to this page.</i>	<b>Yes</b>	<b>No</b>
<b>3. Do you apply nutrients according to NRCS, Extension, or accredited industry recommendations or realistic yield goals?</b>	<b>Yes</b>	<b>No</b>
<b>4. Do you properly dispose of rinse water after cleansing fertilizer application equipment?</b>	<b>Yes</b>	<b>No</b>

**5. Do you alter your irrigation schedule based on when nutrients and pesticides are applied? How?**


**6. Do you utilize your irrigation system for application of pesticides and fertilizers (chemical/fertigation)? If yes, how?**


**7. If fields are located near a surface water source, do you have designated set-back areas (buffers, vegetation)? If so, what is the approximate width of the area?**


# Pasture and Range Pest Management

This worksheet documents information on the methods used to control pests and weeds on your operation. The following bullets include additional information to assist in completing this worksheet:

- Under the **Suppression Method** column, please include the product name or the active ingredient of the method used to manage the target pest listed, if you know the EPA Registration Number, list that as well.
- Under the **Pesticide Application Rate** column, include the pounds or ounces of the active ingredient (ai) per acre.
- In the **Broadcast or Banded** column, indicate the pesticide application method: broadcast (more than 50% of field) or banded (less than 50% of field). If these options do not apply, simply indicate that they are not applicable.
- In the **Application Surface, Soil Incorporated or Foliar Applied** column, indicate the pesticide application method: surface-applied (applied to soil surface), soil-incorporated (mixed into the soil with light tillage or irrigation), or a foliar application (sprayed on a nearly full crop/weed canopy and/or on a more than 50 percent residue cover). If none of these practices apply, simply indicate that they are not applicable.

Please refer to the example below for reference when entering your information on the following page.

**EXAMPLE**

## Worksheet G5: Pasture and Range Pest Management

Forage Grown	Field/ Unit	Target Pest	Suppression Method (EPA Reg. #)	Pesticide Application Rate	Date Applied	Broadcast or Banded	Surface, Soil-Incorp., or Foliar-Applied
<i>Irrigated Orchard-Grass</i>	3 & 4	<i>Canada Thistle</i>	<i>Clipping/Mowing</i>	<i>None</i>	----	----	----
<i>Intermediate Wheatgrass and Alfalfa</i>	1	<i>Sage brush</i>	<i>Tebuthiuron 105501</i>	<i>1.0 ai/ acre</i>	<i>Nov.</i>	<i>Broadcast</i>	<i>Surface</i>

<b>1. Do you apply pesticides based on field scouting, treatment thresholds and follow-up evaluations?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>2. Do you replace worn nozzle tips, cracked hoses and faulty gauges?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
<b>3. Do you properly dispose of rinse water after cleansing pesticide application equipment?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

<b>4. If fields are located near a surface water source, do you have designated set-back areas (buffers, vegetation)? If so, what is the approximate width of the area?</b>
<i>Average width is two times the active channel width—mixture of herbaceous vegetation and grasses with equal amount of native trees and shrubs.</i>



# Pasture Irrigation Management

This **Pasture Irrigation Management Worksheet** documents information on your irrigation method. If you irrigate, please complete the **Irrigation System Description** portion of the Conservation Records Book in addition to the worksheet below.

Please refer to the example below when entering your information on the following page.

**EXAMPLE**

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## Worksheet G6: Pasture Irrigation Management

<b>Forage Grown</b>	<b>Field/Unit</b>	<b>Irrigation Dates</b>	<b>Irrigation Application</b>
<i>Alfalfa</i>	5 & 6	5/15 - 7/15	20 in.
<i>Meadow Foxtail</i>	7	5/1 - 7/15	May—4 in. June—6 in. July—7 in.







