

**Present - Forage, Roughage and Livestock Balance Worksheet (EXAMPLE)**

Producer: \_\_\_\_\_ Planned by: \_\_\_\_\_ Date: 1/25/2010

**Section B: Present Forage Availability and Grazing Needs - Page 1**

**TABLE 1. Present Grazing and Harvested Roughage Available.**

Forage Source	Acres	Total AUMs	Harvested Roughage	Acres	Total Tons	Total AUMs
Rangeland	6229.0	969.0	Hay Source #1	341.0	257	561.7
Dryland Pasture	533.0	189.0	Hay Source #2	290.0	145	316.9
Irrigated Pasture			Silage			
Hayland Aftermath	341.0	68.0	Other:			
Crop Aftermath	59.0	12.0				
Leased Grazing			<b>TOTAL</b>		402	(2) <b>878.7</b>
Other			Excess to be sold: _____			
<b>TOTAL</b>	7162.0	<b>1238.0</b> (1)	Excess to emergency reserve: _____			

**TABLE 2. Present Forage and Harvested Roughage Balance.**

AUMs from Forage (1)	1238.0	<b>Animal Units by Month Available from Forage:</b>	
AUMs from Roughage (2)	878.7	AUMs Forage (1)	<u>1238</u> / # Months Grazed <u>8.5</u> = <u>145.6</u> AUs
Total AUMs (3)	2116.7		
Total AUMs (3) <u>2116.7</u> / 12 Months = <u>176.4</u> AUs (4) Present from Forage and Roughage by Month		<b>Animal Units by Month Available from Roughage:</b>	
		AUMs Roughage (2)	<u>878.7</u> / # Months fed <u>3.5</u> = <u>251.1</u> AUs

**TABLE 3. Grazing Needs Inventory (Livestock and Wildlife)**

Kind and Class of Animal, Including Wildlife					AUs by MONTH (5)											
Animal	AUE	Number	AUs	TOTAL AUMs	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cow/calf *	1.40	77.0	107.8	754.6				107.8	107.8	107.8	107.8	107.8	107.8	107.8		
Cow, dry **	1.08	77.0	83.2	416.0	83.2	83.2	83.2								83.2	83.2
Yearlings ***																
Heifers ***	0.90	20.0	18.0	216.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
Bull, mature	1.70	8.0	13.6	163.2	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
Ewes	0.17															
Lambs, weaned	0.12															
Rams	0.25															
Horse	1.25	5.0	6.3	75.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Deer	0.17															
Elk	0.50															
Antelope	0.13															
Young cow/calf	1.20	54.0	64.8	453.6				64.8	64.8	64.8	64.8	64.8	64.8	64.8		
Young cow/dry	0.91	54.0	49.1	245.5	49.1	49.1	49.1								49.1	49.1
<b>TOTAL</b>				2324.5	170.2	170.2	170.2	210.5	210.5	210.5	210.5	210.5	210.5	210.5	170.2	170.2

**Notes:** The general rule of thumb for animal unit month (AUM) forage requirements for a 1000 pound cow is 915 pounds. Reference: NRPH, Chapter 6.

\* For lactating cows, use a 0.1 of an animal unit per 100# of body weight plus 0.1 for the calf to figure AUE.

(For example, A 1200# cow with calf would be 1.3 AU).

\*\* For a dry cow, multiply the AU factor of the cow, without the .1 added in for the calf, by .83 to get the AUE.

(For example, A 1200# cow would be 1.2 x .83 = 1 AU).

\*\*\* For yearling cattle and heifers, Figure 0.1 of an AU per 100# of body weight.

(For example, A 950# yearling would be 0.95 AU).

**Present - FORAGE, ROUGHAGE AND LIVESTOCK BALANCE WORKSHEET (EXAMPLE)**

**Section B: Present Forage Availability and Grazing Needs - Page 2**

**TABLE 4. Production vs. Needs.**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
<b>Total Grazable AUMs Available(1) per month</b>	145.6	72.8				145.6	145.6	145.6	145.6	145.6	145.6	145.6	1237.6
<b>Total Roughage AUMs Available(2) per month</b>		125.5	251.1	251.1	251.1								878.8
<b>Total AUMs Needed (5) per month</b>	170.2	170.2	170.2	210.5	210.5	210.5	210.5	210.5	210.5	210.5	170.2	170.2	2324.5
<b>Balance + or -</b>	-24.6	28.1	80.9	40.6	40.6	-64.9	-64.9	-64.9	-64.9	-64.9	-24.6	-24.6	-208.1

NOTES: There is currently enough roughage for the 3.5 months fed. 3.5 months is not long enough for most winters. More grazing AUMs are needed.

**TABLE 5. Wildlife Use Information.**

Wildlife Species Present:				
Key Areas for:	Field(s)	Acres	Months of Use	Additional Information
Foraging				
Hiding Cover				
Thermal Cover				
Riparian Areas				
Calving/Fawning				
Strutting Grounds				
Other				

**Planned - Forage, Roughage and Livestock Balance Worksheet (EXAMPLE)**

Producer: Rancher Joe Planned by: Range Con Luhan Date: 1/25/2010

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**TABLE 6. Planned Grazing and Harvested Roughage Available After Conservation Practices.**

Forage Source	Acres	Total AUMs	Harvested Roughage	Acres	Total Tons	Total AUMs
Rangeland	6229.0	1096.0	Hay Source #1	341.0	257	561.7
Dryland Pasture	533.0	189.0	Hay Source #2	290.0	145	316.9
Irrigated Pasture			Silage			
Hayland Aftermath	341.0	68.0	Other:			
Crop Aftermath	59.0	12.0				
Leased Grazing		125.0				
Other						
<b>TOTAL</b>	<b>7162.0</b>	<b>1490.0 (6)</b>	<b>TOTAL</b>	<b>631</b>	<b>402</b>	<b>(7) 878.7</b>

**TABLE 7. Planned Forage and Harvested Roughage Balance After Conservation Practices.**

AUMs from Forage (6)	1490.0	Animal Units by Month Available from Forage:
AUMs from Roughage (7)	878.7	AUMs Forage (6) <input type="text" value="1490"/> / # Months Grazed <input type="text" value="7.5"/> = <input type="text" value="198.7"/> AUs
Total AUMs (8)	2368.7	
Total AUMs (8) <input type="text" value="2368.7"/> / 12 Months = <input type="text" value="197.4"/> AUs (9) Present		Animal Units by Month Available from Roughage:
from Forage and Roughage by Month		AUMs Roughage (7) <input type="text" value="878.7"/> / # Months fed <input type="text" value="4.5"/> = <input type="text" value="195.3"/> AUs

**TABLE 8. Planned Stocking Rates to Balance Livestock with Forage Resources by Month**

Kind and Class of Animal, Including Wildlife					AUs by MONTH (10)											
Animal	AUE	Number	AUs	TOTAL AUMs	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cow/calf *	1.40	77.0	107.8	754.6				107.8	107.8	107.8	107.8	107.8	107.8	107.8		
Cow, dry **	1.08	77.0	83.2	416.0	83.2	83.2	83.2								83.2	83.2
Yearlings ***																
Heifers ***	0.90	20.0	18.0	216.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
Bull, mature	1.70	8.0	13.6	163.2	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
Ewes	0.17															
Lambs, weaned	0.12															
Rams	0.25															
Horse	1.25	5.0	6.3	75.6	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Deer	0.17															
Elk	0.50															
Antelope	0.13															
Young cow/calf	1.20	54.0	64.8	453.6				64.8	64.8	64.8	64.8	64.8	64.8	64.8		
Young cow/dry	0.91	54.0	49.1	245.5	49.1	49.1	49.1								49.1	49.1
<b>TOTAL</b>				<b>2324.5</b>	<b>170.2</b>	<b>170.2</b>	<b>170.2</b>	<b>210.5</b>	<b>170.2</b>	<b>170.2</b>						

**Notes:** The general rule of thumb for animal unit month (AUM) forage requirements for a 1000 pound cow is 915 pounds. Reference: NRPH Chapter 6.

\* For lactating cows, use a 0.1 of an animal unit per 100# of body weight plus 0.1 for the calf to figure AUE.

(For example, A 1200# cow with calf would be 1.3 AU).

\*\* For a dry cow, multiply the AU factor of the cow, without the .1 added in for the calf, by .83 to get the AUE.

(For example, A 1200# cow would be 1.2 x .83 = 1 AU).

\*\*\* For yearling cattle and heifers, Figure 0.1 of an AU per 100# of body weight.

(For example, A 950# yearling would be 0.95 AU).

**Planned - FORAGE, ROUGHAGE AND LIVESTOCK BALANCE WORKSHEET (EXAMPLE)**

**Section B: Planned Forage Availability and Grazing Needs - Page 4**

**TABLE 9. Production vs. Needs.**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
<b>Total Grazable AUMs Available (6) per month</b>	99.3					198.7	198.7	198.7	198.7	198.7	198.7	198.7	1490.2
<b>Total Roughage AUMs Available (7) per month</b>	97.6	195.3	195.3	195.3	195.3								878.8
<b>Total AUMs Needed (9) per month</b>	170.2	170.2	170.2	210.5	210.5	210.5	210.5	210.5	210.5	210.5	170.2	170.2	2324.5
<b>Balance + or -</b>	26.7	25.1	25.1	-15.2	-15.2	-11.8	-11.8	-11.8	-11.8	-11.8	28.5	28.5	44.5

NOTES: The producer had enough roughage to increase feeding by one month. Stock water development increased the graziability of the big pasture by 100 AUMs. With the current stocking rate 125 AUMs are still needed. The producer is able to lease 125 AUM from his cousin.

**TABLE 10. Wildlife Use Information.**

Wildlife Species Present:				
Key Areas for:	Field(s)	Acres	Months of Use	Additional Information
Foraging				
Hiding Cover				
Thermal Cover				
Riparian Areas				
Calving/Fawning				
Strutting Grounds				
Other				