## Grazing Cover Crops (example)

Step 1 - Determine available forage from measuring average height of cover crops Available Forage			
Total production minus the minimum allowable residual. Ex. total prod. = 5,000 lbs./ac min. residual (1,200 lbs./ac.) = available forage: 5,000 - 1,200 = 3,800 lbs./ac.			
Total Production Estimates Warm-season dominant: first 4 inches = 1,275 lbs./ac. + 200 lbs./ac. per inch of height above 4 inches Cool-season dominant: first 4 inches = 140 lbs./ac. + 250 lbs./ac. per inch of height above 4 inches Mix of cool- and warm-season: roughly 215 lbs./ac. for each inch of height Warm- or cool-season dominant: <u>140</u> first 4 in. + <u>250</u> lbs./inch X <u>18</u> Height - 4 in. =			
Total air-dry production    Mix of cool- and warm season:  total inches X 215 lbs./ac. = Total air-dry production			
Available Forage    Warm- or cool season dominant:  140  first 4 in. + 250  lbs./inch X 4  resid. ht 4 inches =    1140  Residual air-dry production    Mix of cool - and warm-season:  min. residual ht. X 215 lbs./ac.  residual air-dry prod.    Total production from above:  4640  - residual air-dry 1140  = Available forage 3500			
Step 2 - Determine usable forage based on utilization    Utilization %: The utilization percent is higher the shorter the occupation period due to less waste.    The occupation period can be shortened by fencing out smaller areas for grazing.    0.5-1 day: 80%; 2 days: 75%; 3 days: 75%; 4 days: 70%; 5 days: 65%; 6-30 days: 60%    Usable Forage Supply			
Step 3 - Determine forage demand from animals    Forage Demand			
Last Step - two options    You know the number of acres, but need to determine the number of days they can graze:    _2275  lbs./ac. usable forage (Step 2) X  _40  acres = _91000  Total lbs.    _91000  Total lbs. ÷  _3600  Total Forage Demand (Step 3) = _25  days			
You know the number of days you want to graze, but need to determine the number of acres: <u>3600</u> Total Forage Demand (Step 3) X <u>5</u> days = <u>18000</u> Total lbs. <u>18000</u> Total lbs. $\div$ <u>2275</u> lbs./ac. usable forage (Step 2) = <u>8</u> acres (This second option can be used if you have a larger area, but want to divide it up into smaller paddocks in order to increase utilization and increase the overall number of days that grazing can take place.)			

## Grazing Cover Crops

	<u> </u>		
Step 1 - Determine available forage from measuring average height of cover crops			
Available Forage			
Total production minus the minimum allowable residual.			
Ex. total prod. = 5,000 lbs./ac min. residual (1,200 lbs./ac.) = available forage: 5,000 - 1,200 = 3,800 lbs./ac.			
Total Production Estimates			
Warm-season dominant: first 4 inches = 1,275 lbs./ac. + 200 lbs./ac. per inch of height above 4 inches			
Cool-season dominant: first 4 inches = 140 lbs./ac. + 250 lbs./ac. per inch of height above 4 inches			
Mix of cool- and warm-season: roughly 215 lbs./ac. for each inch of height			
Warm- or cool-season dominant:	first 4 in. + lbs./inch X _	Height - 4 in. =	
	Total air-dry production		
Mix of cool- and warm season:	total inches X 215 lbs./ac. =	Total air-dry production	
Available Forage			
Warm- or cool season dominant:	first 4 in. + lbs./inch X _	resid. ht 4 inches =	
	Residual air-dry production		
Mix of cool - and warm-season:	min. residual ht. X 215 lbs./ac	residual air-dry prod.	
Total production from above:	residual air-dry = Avail	able forage	
Step 2 - Determine usable forage based on utilization			
<b>Utilization %:</b> The utilization percent is higher the shorter the occupation period due to less waste.			
The occupation period can be shortened by fencing out smaller areas for grazing.			
0.5-1 day: 80%; 2 days: 75%; 3 days: 75%; 4 days: 70%; 5 days: 65%; 6-30 days: 60%			
······································			
Usable Forage Supply:			
lbs./ac. Available forage	X% utilization =lbs./a	c. usable forage	
Step 3 - Determine forage demand from animals			
Forage Demand			
lbs. average animal X 3% of body weight/day = lbs. forage required/AU//day			
X number of animals = Total Forage Demand for the herd per day			
Last Step - two options			
You know the number of <u>acres</u> , but need to determine the number of days they can graze:			
lbs./ac. usable forage (Step 2) X acres = Total lbs.			
Iotai ids. ÷ Io	tal Forage Demand (Step 3) = da	ys	
You know the number of <u>days</u> you want to graze, but need to determine the number of acres:			
Total Forage Demand (Step 3) X days = Total lbs.			
Total lbs. ÷ lbs./ac. usable forage (Step 2) = acres			
(This second option can be used if you have a larger area, but want to divide it up into smaller paddocks			
in order to increase utilization and increase the overall number of days that grazing can take place.)			
	morease the overall number of days that gr	azing van lake plave.	