**DRAFT PLAN adapted and modified from** *NATURAL RESOURCES CONSERVATION SERVICE*

*SYRACUSE, NEW YORK*

**PRESCRIBED GRAZING MANAGEMENT PLANNING WORKSHEET**

LANDOWNERS NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­

**STEP 1a. Estimate the Forage Demand:**

The forage demand is the amount of forage dry matter (DM) required to feed a group of livestock for one day. It is calculated based on the rule of thumb that grazing animals require an amount of forage DM equal to about 2.5 to 3.0% of their body weight per day. For lactating animals and growing stock use 3.0% of body weight. For all other classes of livestock use 2.5%.

1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ X .025 or .03 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_X \_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_

Average Weight/Animal Lbs DM/Head/Day # of Animals Forage Demand

2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ X .025 or .03 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_X \_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_

Unadjusted Daily Forage Demand \_\_\_\_\_\_\_\_\_\_\_\_\_

Lbs/Dm/Day

**Step 1b. Adjust Daily Forage Demand as a result of supplemental feed use by deducting the pounds of supplemental feeds from the daily forage demand.**

If supplemental forages are provided, they are substituted on a pound for pound basis. If supplemental grain is fed, the substitution rate is one pound of grain equals .5 pounds of forage.

Unadjusted Daily Forage Demand\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- Lbs of supplemental feed\_\_\_\_\_\_\_\_\_\_\_\_\_=

Lbs/DM/Day Lbs/DM/Day

Adjusted Daily Forage Demand\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lbs/DM/Day

**STEP 2. Estimate the Forage Supply:**

This is the amount of forage dry matter that is estimated to be available for grazing after a 20-day

growth period in the spring and a 30-day growth period in the summer and fall.

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| **\*\*NOTE*\*\**** *These values are for planning purposes only. They reflect average growing conditions, pastures that are in good condition, soil fertility maintained to soil test recommendations and pH not less than 5.8. Unless actual measured yields are available, use estimated yields from NRCS data, New York Agricultural Land Classification data or the Cornell University Forage Species Selection Tool located on the website www.forages.org. Use the following table to convert hay yields in Tons/DM/Acre/Year to Forage Availability in Lbs/DM/Acre/rotation.* |

Forage Availability Estimates

Hay Yield Tons/DM/Acre/Year 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0

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Forage Availability Lbs/DM/Acre/Rotation 2200 2000 1800 1600 1400 1200 1000 800

\* Depending on pasture conditions and forage density:

100-150lbs/DM/inch of forage (fair)

200-250lbs/DM/inch of forage (av.)

250-300lbs/DM/inch of forage (good)

300-400lbs/DM/inch of forage (Ex)

Soil Map Symbol 1\_\_\_\_\_\_\_\_\_2\_\_\_\_\_\_\_\_\_3\_\_\_\_\_\_\_\_\_4\_\_\_\_\_\_\_\_\_

Number of Acres 1\_\_\_\_\_\_\_\_\_2\_\_\_\_\_\_\_\_\_3\_\_\_\_\_\_\_\_\_4\_\_\_\_\_\_\_\_\_

Forage Supply 1\_\_\_\_\_\_\_\_\_2\_\_\_\_\_\_\_\_\_3\_\_\_\_\_\_\_\_\_4\_\_\_\_\_\_\_\_\_

Lbs/DM/Acre/Rotation

|  |
| --- |
| ***Note\*\**** *One half to 1-day residency periods are recommended for lactating dairy cows. Residency periods of 2 to 7 days may be used for all other livestock. To maximize harvest efficiency, use shorter residency periods.* |

**Step 3. Select Residency Period:**

Residency Period\_\_\_\_\_\_\_\_

Days

**Step 4. Determine Paddock Size by Major Soil Type:**

Paddock size is based on meeting the forage demand of the livestock for the designated residency period.

1\_\_\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ X \_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Forage Demand Forage Supply Acres Required/Day Residency Period Paddock Size (Ac)

2\_\_\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_X \_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Forage Demand Forage Supply Acres Required/Day Residency Period Paddock Size (Ac)

3\_\_\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_X \_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Forage Demand Forage Supply Acres Required/Day Residency Period Paddock Size (Ac)

4\_\_\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_X \_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Forage Demand Forage Supply Acres Required/Day Residency Period Paddock Size (Ac)

**Step 5. Determine the Number of Paddocks**

20 days rest ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_ + 1 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Residency Period Number of Paddocks

30 days rest ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_ + 1 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Residency Period Number of Paddocks

45 days rest ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_ + 1 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Residency Period Number of Paddocks

60 days rest ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_ + 1 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Residency Period Number of Paddocks

90 days rest ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_ + 1 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Residency Period Number of Paddocks

**Step 6. Estimate the Total Number of Acres Needed:** Use the average paddock size of the most prevalent soil types to estimate

**Note:** During spring and early summer, only about 40% to 60% of planned acres will be required for grazing. The remaining grazing acres could be mechanically harvested, planned to be grazed by another class/group of livestock, clipped, deferred for wildlife habitat or stockpiled for extended grazing depending on the goals of the family.

\_\_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

Paddock Size Number of Paddocks Acres Needed for 20 days rest

\_\_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

Paddock Size Number of Paddocks Acres Needed for 30 days rest

\_\_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

Paddock Size Number of Paddocks Acres Needed for 45 days rest

\_\_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

Paddock Size Number of Paddocks Acres Needed for 60 days rest

\_\_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

Paddock Size Number of Paddocks Acres Needed for 90 days rest

**Step 7. Determine the Number of Actual Acres Planned:**

Pad Size/ Ac. Needed/day = # Days available

11\_\_\_\_\_\_\_\_\_\_\_ ÷\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_

12\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_

13\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

14\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

15\_\_\_\_\_\_\_\_\_\_\_ ÷\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

16\_\_\_\_\_\_\_\_\_\_\_ ÷\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_

17\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

18\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

19\_\_\_\_\_\_\_\_\_\_\_ ÷\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_

20\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

1\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_

2\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_

3\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

4\_\_\_\_\_\_\_\_\_\_\_\_÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

5\_\_\_\_\_\_\_\_\_\_\_\_÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

6\_\_\_\_\_\_\_\_\_\_\_\_÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

7\_\_\_\_\_\_\_\_\_\_\_\_÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

8\_\_\_\_\_\_\_\_\_\_\_\_÷\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

9\_\_\_\_\_\_\_\_\_\_\_\_÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

10\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_

Total actual Acres\_\_\_\_\_\_\_\_ Total # days rest \_\_\_\_\_\_\_\_\_\_\_\_\_\_