



# WILDLIFE FOOD PLOT (645)

## Biology Job Sheet #2

### Natural Resources Conservation Service (NRCS) - Minnesota

#### DEFINITION

A food plot is an annual or perennial planting of grain, grass or legumes to provide food for a variety of wildlife on rural land.



- Perennial food plots should be located downwind from protected areas to minimize snow accumulation.
- Locate food plots within ¼ mile of quality winter cover.
- Food plots should be located on the least erosive areas of each field. Adequate vegetative cover must be developed and maintained to provide both wildlife and erosion control benefits. If food plots are relocated or discontinued, the site will be re-established to acceptable cover.
- Food plots may be located on slopes > 5% provided soil losses do not exceed tolerable levels. Food plots planted on the contour are recommended.
- Plantings shall be seeded early enough to assure maturity of food plants.

#### USES OF FOOD PLOTS

A food plot adds plant diversity, food and cover to the landscape. It can also be considered where land is planned to provide a winter or early spring food source. Where fall plowing buries the majority of crop residue, food plots are an excellent choice to encourage wildlife survival.

Without a reliable food source, even the best winter cover is useless to wildlife.

#### SPECIFICATIONS

Site-specific requirements will be listed on the attached specification sheet. Additional provisions are entered on the practice sketch sheet. Specifications are prepared in accordance with the NRCS Field Office Technical Guide practice standard 645-Upland Wildlife Habitat Management.

#### PLANNING CONSIDERATIONS

- The recommended food plot size 2-5 acres with a minimum size of 1/4 acre. However, large 3-10 acre plots may be desirable for countering winter blizzards and can serve as both winter food and cover.
- Annual plots should be configured in a block or square as opposed to linear plots, to counter winter snow drifting. Minimum width of food plot will be 33 feet.
- Annual food plots should be located adjacent to winter cover on the downwind side. Snow drifting into food plots can be lessened by establishing snow traps. Harvest 12-20 rows just inside of the outer 4-6 rows on the windward side.

#### RECOMMENDED WILDLIFE FOOD AND PLANTING DEPTH

Food Type ANNUALS	Seeding Rate (lbs/acre)	Seeding Depth (inches)
Corn (short duration)	15.0	0.5 - 2.0
Sorghum	15.0	1.0 - 2.0
Sunflowers (oil)	4.0	1.0 - 2.0
Soybeans	45.0	1.5 - 2.0
Buckwheat	40.0	1.0 - 2.0
Millet	20.0	0.5 - 1.0
Barley/Spring Wheat	80.0	1.0 - 2.0
Flax	40.0	1.0 - 2.0
Rye/Winter Wheat	65.0	1.0 - 2.0

## FERTILIZER AND LIME CONSIDERATIONS

Food Type PERENNIAL <sup>1/</sup>	Seeding Rate (lbs/acre)	Seeding Depth (inches)
Alfalfa	15.0	¼ - ½
Red Clover	10.0	¼ - ½
Alsike Clover	6.0	¼ - ½
Ladino Clover	5.0	¼ - ½
Dutch White Clover	5.0	¼ - ½

<sup>1/</sup>

- \* Select a winter hardy variety adapted to the site.
- \* Recommended companion crop for spring seeding  
Oats at ¾ - 1 ¼ bushel/acre.

## RECOMMENDED PLANTING DATES

Food	Planting Date
Corn	May 1
Sorghum	May 15
Sunflowers, Soybeans, Millets	May 1
Buckwheat	June 1
Barley, Spring wheat	April 1
Rye, Winter wheat	Aug. 20 – Sept. 20
Flax	April 15
Alfalfa, Clovers	April 1 or August 1

## RECOMMENDED RANGE AND SUITABILITY

### ANNUAL FOOD PLOTS:

**Target Species:** Upland game birds, White-tailed deer.

**Function:** Primarily to establish safe winter foraging areas that restrict unnecessary movements, and provide a dependable winter food source to carry game through the winter in good condition. Food plots provide additional value as winter cover.

**Suitability:** Statewide.

### PERENNIAL FOOD PLOTS:

**Target Species:** Ruffed Grouse, Moose, Elk, and Forestland Deer.

**Function:** Provide open space and foraging areas for large mammals and woodland game birds.

**Suitability:** North of Highway 10, and East of Highways 52/56 from the Twin Cities to the Iowa border.

To determine the need for commercial fertilizer and liming materials, a soil test from the current planting year or during the previous two years is recommended for annual and perennial food plots.

### ANNUAL FOOD PLOTS:

- The rate of application of commercial fertilizer shall be from 75-100% of the University of Minnesota recommended rate per acre of each nutrient for the species being established for a low to moderate yield goal. If a soil test is not available, apply 350 lbs of 20-10-10, or equivalent, per acre.

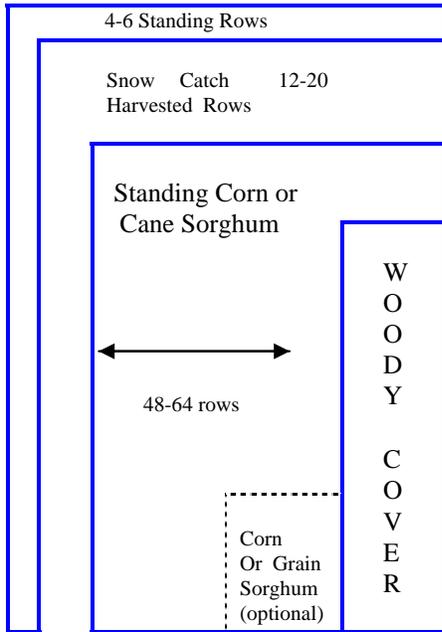
### PERENNIAL FOOD PLOTS:

- The rate of application of commercial fertilizer shall be from 75-100% of the University of Minnesota recommended rate per acre of each nutrient for a 3 ton yield goal for the species being established.
- The recommended per acre rate of liming material shall be used to raise the pH to 6.3 for Alfalfa or 6.0 for other legume species. Liming materials shall be applied and incorporated prior to seeding.

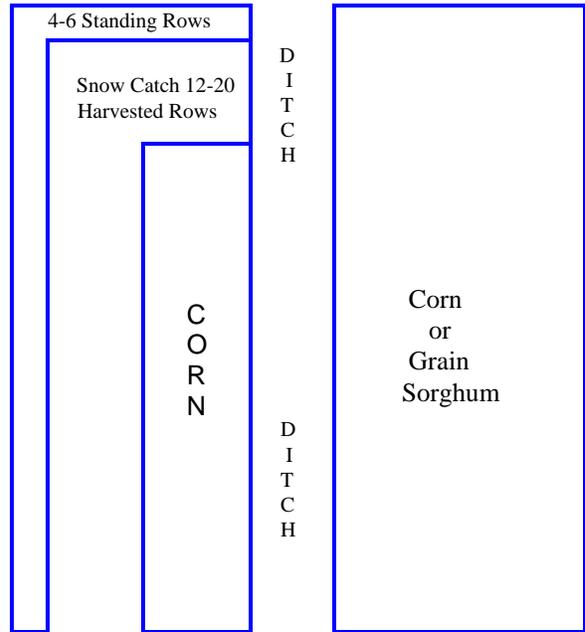
## OPERATION AND MAINTENANCE

1. Control all noxious weeds as identified by state and local laws, by; (1) treating with chemicals per label directions, or (2) spot mow before seed heads form. Delay the use of control measures until after August 1st to protect nesting wildlife
2. Protect the acres from unplanned haying and grazing. Fences may need to be constructed and maintained to exclude livestock.
3. Perennial legume food plots generally will not persist beyond 5-6 years. Manage perennial vegetation every 3-5 years after adequate vegetative establishment. Management may include one or more of the following options: (1) mowing with residue removed or spread evenly across the field, (2) light disking, (3) top dressing with fertilizer (P at 40 lbs/ac and K at 60 lbs/ac), or (4) re-establishment. Management activities, which substantially disturb the vegetative cover, should take place prior to May 1 or between August 1 - September 1.
4. Plots shall be planted early enough to assure maturity of food plants.

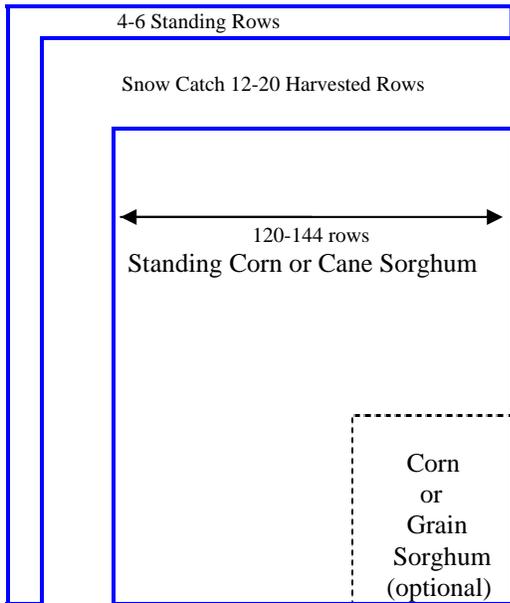
## EXAMPLES OF ANNUAL FOOD PLOT DESIGNS



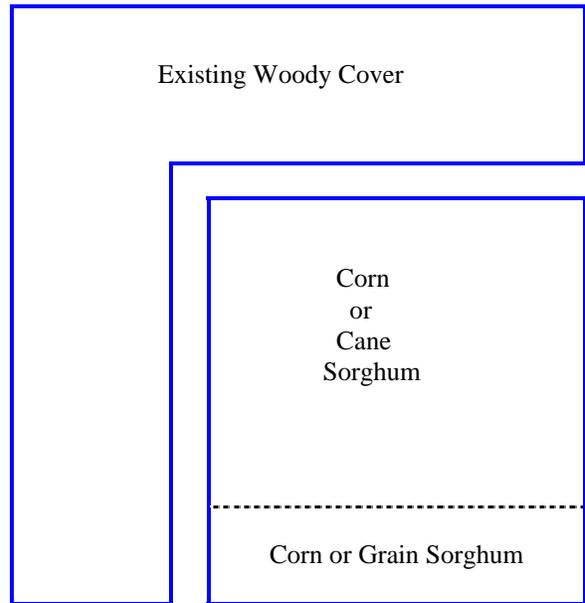
A. Plot designed to protect existing winter cover. Size: 3-4 acres.



B. Plot designed to enhance drainage ditch or other area. Size: 2-3 acres.



C. Plot designed to function alone. Size: 5-10 acres.



D. Plot designed to take advantage of existing woody cover. Size: 5-10 acres

# Wildlife Food Plot - Specifications Sheet

Species	Strain or Variety	(1) Seeding Rate Bulk lbs/ac.	(2) Acres to be seeded	(1x2) Total bulk pounds needed

### Specific Recommendations:

Scheduled Date \_\_\_\_\_

Companion Crop \_\_\_\_\_

Seeding Dates \_\_\_\_\_

Seedbed Preparation Method \_\_\_\_\_

Lime - Fertilizer  
Recommendations \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Prior Herbicide Use:**

Type: \_\_\_\_\_

Year: \_\_\_\_\_

Type: \_\_\_\_\_

Year: \_\_\_\_\_

Note: Plant corn or sorghum on fields where Atrazine carryover may be a problem.

**Additional Operation and  
Maintenance** \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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 \_\_\_\_\_

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## Practice Specifications Approval and Completion Certification

**LANDOWNER/OPERATOR ACKNOWLEDGES:**

- a. They have received a copy of the specifications and understand the contents including the scope and location of the practice.
- b. They have obtained all necessary permits and/or rights in advance of practice application, and will comply with all ordinances and laws pertaining to the application of this practice.
- c. No changes will be made in the installation of the job without prior concurrence of the NRCS.
- d. Maintenance of the installed work is necessary for proper performance during the life of the practice. The practice life is \_\_\_\_\_.

**I have reviewed all specifications and agree to install as specified:**

Landowner/operator name and title (type or print):		
Landowner/operator Signature:		Date:
Landowner/operator name and title (type or print):		
Landowner/operator Signature:		Date:

***NRCS Review Only***

**DESIGN INSTALLATION AND LAYOUT APPROVAL:**

Designed By:	Date:	Job Approval Authority (JAA):
Approved By:	Date:	Job Approval Authority (JAA):

**RECORD OF COMPLETION AND CHECK OUT CERTIFICATION:**

Treated Acres:	Date Completed by Client:	Date Certified:

**Certification Statement:**

I certify that implementation of this conservation practice is complete, meets criteria for the stated purpose(s), and meets the NRCS conservation practice standard and specifications.

NRCS Signature:	Date:	Job Approval Authority (JAA):