# Venison: From Field to Table Food Plots for Deer

Christine Gelley
Extension Educator
Agriculture & Natural Resources
Noble County Extension

# **Discussion Topics**

- Selecting a Menu for Deer
  - What to Plant
- More Bang for Your Buck
  - Management on a Conservative Budget
- Planning for Next Year
  - For Best Results, Plan Ahead

# Selecting a Menu

# A.54. Approximate Diet Selection of Grazing Animals when Offered in a Mixed Pasture.

	Type of diet					
Animal species	Broadleaf weeds Grasses and legumes Browse					
Cattle	65-75	20-30	5-10			
Horses	70-80	15-25	0-5			
Sheep	45-55	30-40	10-20			
Goats	20-30	10-30	40-60			
White-tail deer	10-30	30-50	30-50			
Elk, red, and fallow deer	30-60	40-50	10-30			

<sup>1</sup>Shrubs or trees.

Source: D. Forbes and G.W. Evers, Texas A&M Univ.; D.I. Bransby, Auburn Univ.; M.A. McCann, Virginia Tech Univ.; and W.R. Getz, Fort Valley State Univ.

# Factors to Consider

- What does your property already have?
- What does your property lack?
- How does the plant composition change through the year?
- How does the lifecycle of the deer fit with those changes?

### GOAL:

Build a system that supplies the <u>whole diet</u> of the deer on your property.



### At a Glance

Mating: Polygamous

Peak Breeding Activity: Early to mid-November; begins as early as mid-October and runs through mid-January

Gestation: 187-222 days; average 200 days

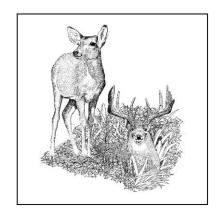
Young are Born: Mid-May through July; peak in late May through mid-June

Litter Size: 1 in first year; 2 and sometimes 3 in later years

Young Leave Parents: Weaned at 10-12 weeks

Number of Litters per Year: 1





Adult Weight: Males-130-300 pounds; females-90-210 pounds

Adult Body Length: 52-95 inches

Life Expectancy: Up to 15 years, but the average is 2 years for males and 3 years for females in the wild

Migration Pattern: Year-round resident; home range is 1/2 -2 square miles

Typical Foods: Include wild crabapple, corn, sumac leaves and stems, grasses, clover leaves, jewelweed leaves, acorns, and dogwood fruits and stems

Native to Ohio: Yes.

# SPRING & FALL

Cool-Season (C<sub>3</sub>)

VS.

Warm-Season (C<sub>4</sub>)

SUMMER

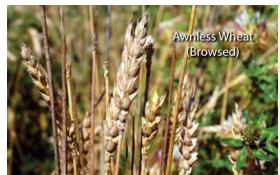
# Perennial VS. Annual

# Grasses: 10-30% of White Tail Diet

- <u>DO NOT</u> plant perennial cool-season grasses
  - fescue, orchardgrass, timothy, bluegrass, etc.
- PLANT annual grasses
  - wheat, rye, oats, millets, corn etc.
- CONSIDER native perennial grasses
  - switchgrass, indiangrass, and/or bluestems

Photos by Dr. Craig Harper







# Legumes & Forbs: 30-50% of White Tail Diet

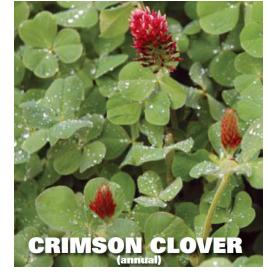
- Legumes provide essential <u>protein</u> for growing animals
  - beans, peas, clovers, alfalfa
- Forbs provide protein and carbohydrates
  - brassicas (turnips, beets, kale, rapeseed, radishes), chicory,

sunflowers

### Remember:

BROWSE is still 30-50% of the deer's diet, so use planted plots to **complement** the browse already available.





A.55. Characteristics of Selected Plants for Wildlife.

	Tolerance to soil	Annual	Fertility needs <sup>2</sup>			Tolerance to wet
	acidity1	perennial	N	P	K	soils
Alfalfa	Р	Р	NA	Н	Н	P
American jointvetch	F		NΛ	M	M	F
Annual lespedeza	G	A	NA	L	L	Pour
Browntop millet	G	Α	н	M	M	F
Chufa	C	A	M	M	M	G
Egyptian wheat	P	Α	Н	M	M	P
Florida beggarweed	G		NA	M	M	
Foxtail millet	G	Α	H	M	M	F
Japanese millet	G	Α	Н	M	M	E
Sorghums	P	Α	Н	M	M	P
Cowpea	G	Α	NA	M	M	P
Partridge pea	G	Α	NA	L	L	G
Proso millet	G	Α	M	M	M	P
Sericea lespedeza	E	Р	NA	L	L	P
Sacana	P		-L	M	M	P
Sesbania	Ġ	Ä	NA	-	t	E
Shrub lespedeza	Ē	P	NA	M	M	P
Sunflower	F	Α	1	Н	Н	P
Velvetbean	F	A	NA	M	M	P
Annual ryegrass	F	Ä	Н	Н	H	G

<sup>&</sup>lt;sup>1</sup>E = Excellent; G = Good; F = Fair; P = Poor

 $<sup>^{2}</sup>NA = Not applicable$ ; properly inoculated legumes fix N that they use for growth.

H = High; M = Medium; L = Low

# More Bang for Your Buck (\$)



\$4/lb. "name brand" from the box store \$2/lb. from SWCD



\$8/lb. "name brand" from the box store \$3-4/lb. from SWCD



\$12/lb. "name brand" from the box store \$5/lb. from SWCD



# Check Seeding Rates & Seed Mix %

## **Planting Chart**

Seed Variety	Seeding Rate Lbs. Per Acre	Seeding Depth/Inches	Suggested Planting Dates	Annual Perennial	Seed Variety	Seeding Rate Lbs. Per Acre	Seeding Depth/Inches	Suggested Planting Dates	Annual Perennial
Wildlife Blends					Alfalfa				
12 Point Buck	18-20	1/4 - 1/2	Spring, Fall & Frost Seed	Perennial	A 5225 Alfalfa	. 15-20	1/4 - 1/2	March-May/AugSept.	Perennial
Beet Max	4-6	1/2 - 1	April-July	Annual	Merit Wetland Alfalfa	15-20	1/4 - 1/2	March-May/AugSept.	Perennial
Chicory Extreme	18-20	1/4 - 1/2	Spring, Fall	Perennial	Merit Gold Alfalfa	15-20	1/4 - 1/2	March-May/AugSept.	Perennial
Classic Whitetail	18-20	1/4 - 1/2	Spring, Fall	Perennial	Birdsfoot Trefoil	12-15	1/4	FebMay / AugSept.	Perennial
Deer Max	8-10	1/4 - 1/2	SeptOct.	Annual	Brassicas				
Frontage Blend	18-20	1/4 - 1/2	Spring, Fall & Frost Seed	Perennial	Bonar Forage rape	8-10	1/4 - 1/2	May-Aug.	Annual
Hidden Spot	25-30	1/4 - 1/2	April-Sept.	Perennial	Dwarf Essex Rape	8-10	1/4 - 1/2	April-Aug.	Annual
Platinum Ultra	18-20	1/4 - 1/2	Spring, Fall & Frost Seed	Perennial	Keeper Kale	8-10	1/4 - 1/2	April-July	Annual
Wilderness Mix	35-40	3/4 - 1	April-June	Annual	Maris Kestrel Kale	8-10	1/4 - 1/2	April-July	Annual
Woodland Trail Mix	40-45	1/4 - 1/2	April-Sept.	Perennial	Oasis Forage Chicory	8-10	1/4 - 1/2	April-May / AugSept.	Perennial
Clovers					Grouse Forage Chicory	8-10	1/4 - 1/2	April-May /AugSept.	Perennial
Alsike Clover	8-12	1/4	Spring, Fall & Frost Seed	Perennial	Pasja Hybrid Forage	8-10	1/4 - 1/2	April-May / AugSept.	Annual
Berseem Clover	12-16	1/4 - 1/2	May-June	Annual	T-Raptor Hybrid	8-10	1/4 - 1/2	April-May / AugSept.	Annual
Crimson Clover	15-20	1/4 - 1/2	April-June / AugOct.	Annual	Wildlife Beets and Turni	ps			
Cyclone Clover	15-20	1/4 - 1/2	Spring, Fall & Frost Seed	Perennial	Appin Turnip	8-10	1/4 - 1/2	April-May / AugSept.	Annual
Durana Clover	8-10	1/8 - 1/4	Spring, Fall & Frost Seed	Perennial	Barkant Turnip	8-10	1/4 - 1/2	April-May / AugSept.	Annual
Duration Clover	18-20	1/4 - 1/2	Spring, Fall & Frost Seed	Perennial	Purple Top Turnip	8-10	1/4 - 1/2	April-May / AugSept.	Annual
Jumbo Ladino Clover	8-10	1/8 - 1/4	Spring, Fall & Frost Seed	Perennial	Winfred Hybrid	4-8	1/4 - 1/2	April-May / AugSept.	Annual
Kopu II Clover	8-10	1/8 - 1/4	Spring, Fall & Frost Seed	Perennial	Sugar Beet	4-8	1/4 - 1/2	April-June	Annual
Kura Clover	10-12	1/4 - 1/2	April-June	Perennial	Major Plus Swede	4-8	1/4 - 1/2	April-June	Annual
Mammoth Clover	15-20	1/4 - 1/2	April-May / AugSept.	Annual	Poly Fodder Beet	4-8	1/4 - 1/2	April-June	Annual
Medium Red Clover	18-20	1/4 - 1/2	Spring, Fall & Frost Seed	Perennial	Millet and Sorghum				
Piatinum Ladino Clover	8-10	1/8 - 1/4	Spring, Fall & Frost Seed	Perennial	Japanese Millet	25-30	1/4 - 1/2	April -Sept.	Annual
Grain and Cover Crops	-		Maria de la companya della companya		Hybrid Pearl Millet	25-30	1/4 - 1/2	April-Sept.	Annual
Buckwheat	40-50	1-2	April-Sept.	Annual	White Proso Millet	25-30	1/4 -1/2	April-Aug.	Annual
Austrian Winter Pea	40-50	3/4 - 1	SeptOct.	Annual	Martin Grain Sorghum	15-20	1 - 1 1/2	May-June	Annual
Buck Forage Oats	100-125	1-2	April-June / AugSept.	Annual	Forage Soybean	60-80	3/4 - 1	April-June	Annual
Egyptian Wheat	8-10	3/4-1	May-June	Annual	Native warm Season Gra	355			
Everleaf 126 Oats	60-80	1-2	April-June / AugSept.	Annual	Switchgrass	8-10 PLS	1/4	April-May	Perennial
Grain Rye	90-125	1-2	AugSept.	Annual	Big Blue Stem	8-10 PLS	1/4	April-June	Perennial
GroundHog Radish	10-12	1/4 - 1/2	May-Aug.	Annual	Little Blue Stem	8-10 PLS	1/4	May-July	Perennial
Packer Forage Pea	25-35	3/4 - 1	May-June / AugSept.	Annual	Indiangrass	8- 10 PLS	1/4	April-June	Perennial

# Tips for Buying and Storing Seed

- In general, as seed ages, germination % decreases, so check the date of production.
- Check for % of inert matter and "other" seed.
- Buying in bulk will yield a better \$/lb., but extra seed will decrease in quality over time.
- Store extra seed in cool and dry location.



# Don't Forget: Consider Establishment and Maintenance Costs...

- What equipment will you need?
  - tractor, ATV, brush hog, plow, drill?
- What management tools will you use?
  - soil tests, fertilizers, herbicides?
- How will you evaluate success?
  - deer counts, exclusion cages, budget goals?



Fig. 4.8 Drilling seed is a most reliable planting technique. All seed are easily planted at the desired depth and germination rates are higher, thus less seed is required per acre.



Photos by Dr. Craig Harper



# Planning for Next Year

"Well this sounds great! How do I get started?"

# Set goals that fit your system, not your neighbor's.

- Bigger plots are not necessarily better plots.
- Plot placement should be carefully considered.
- Soil test.
- Use your calendar to stay on track.
- Identify your limitations.
- Have fun!





Photo Courtesy of ODW

# Plot Location and Size

- Consider Animal Movement
  - Narrow strips, away from roads, in sunny spaces, adjacent to wooded areas <u>are ideal.</u>
- Consider Ease of Access to You
  - This will determine what equipment you can use, your ability to monitor utilization, and overall satisfaction.
- Soil Test
  - A crop is only as good as the soil beneath it.

# Mark Your Calendar

- Make notes of your ideal times to prepare, plant, and care for the plots.
- Buy seed before the ideal day to plant comes.
- Make plans to rent or borrow equipment in advance.

http://nobleswcd.org/

# Stick to Your Budget

- Shop around for the best values.
- Barter with friends and neighbors with similar interests.
- Use public services vs. private services.
- Make efficient choices.
- Consider other ways to save.
  - If you rent out property or host hunters during deer season, use these as opportunities to benefit your system.



# Thank you for coming tonight!

# Questions?

