

Cereal rye is the workhorse small grain cover crop in the Coastal Plain. It produces the most biomass of the small grains. In no-till systems, it is excellent for summer weed suppression when allowed to mature due to a persistent residue.

#### **Recommended Varieties**

Variety	Reasons Why	Source	
Wrens Abruzzi	Cheap, easily available, good biomass, few diseases.		
Winter Grazer	Forage variety, high biomass.		
Elbon, Maton, FL 401	Elbon is a recommended variety from Georgia	Jimmy Carter Plant Materials	
	Statewide Variety Trials.	Center data	
	Maton is an older variety that has good yields in		
	Georgia Statewide Variety Trials.		
	Florida 401 is very early maturing variety.		
Bates, Bates RS4, Maton II,	These varieties have similar performance in OK to	Noble Research Institute	
Oklon	those listed above.		

# **Planting Information**

Information		Comments	Source
Drilled Seed	³∕4 <b>-</b> 2		Managing Cover Crops Profitably
Depth (inches)			
Drilled Seeding	60 - 100	Higher rate may be needed in conservation tillage	Managing Cover Crops Profitably
Rate (lbs/acre)		systems for sufficient biomass to suppress weeds in	
		following cash crop.	
Broadcast	90 - 120	Rye has the highest likelihood of broadcast seeding	GA county agent – personal
Seeding Rate		success of any of the small grains. Broadcasting after	communication, Managing
(lbs/acre)		peanut digging and before peanut harvest works	Cover Crops Profitably
		well, but timing is critical to avoid rye germination	
		before peanut harvest. Broadcasting before cotton	
		defoliation has also worked for many farmers.	
Aerial Seeding	150	Rye has the highest likelihood of aerial seeding	USDA Cereal Rye Plant Guide
Rate (lbs/acre)		success of any of the small grains. Very dependent	
		on favorable weather for success.	

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**Cover Crop Information Sheet** 

SOUTHERN

OVER CROPS COUN



## **Termination Information**

Information	Source
Cereal rye can be terminated by mowing, rolling & crimping, herbicides, tillage,	USDA Cereal Rye Plant Guide
high density grazing and combinations of these practices. Termination timing	
depends on goals. For weed suppression, cereal rye should be terminated at milk	
to soft dough stage. To reduce potential nitrogen immobilization, cereal rye should	
be terminated before flowering (antheses). When planting cash crop into cereal	
rye residue, wait at least two weeks after termination so that the residue is dry	
and crispy. Some farmers plant into green cereal rye and spray an herbicide as	
they plant or shortly afterward. This may increase risk of cut worm damage.	
Consult your local Extension and state Pest Management Handbook for herbicide	
recommendations. Always follow the herbicide label.	

Traits		Comments	Source
Typical Dry Matter Range (lbs/acre)	3,000 - 8,000		Managing Cover Crops Profitably (modified by research data from Coastal Plain)
Typical Total N Range (Ibs/acre)	25 - 50	These values are for total N in cereal rye aboveground biomass is due to N scavenging. N in cereal rye residue is not available during following growing season. Early termination may provide a small amount of N to following cash crop. Late termination can cause N immobilization due to high C:N ratio.	Managing Cover Crops Profitably
Life Cycle	Cool season annual grain		Managing Cover Crops Profitably
Growth Habit	Upright		Managing Cover Crops Profitably
Preferred Soil pH	5.0 - 7.0	Cereal rye is more tolerant of acidic soils than oats or wheat. It is more adapted to sandy soils than other small grains.	Georgia Forages, Managing Cover Crops Profitably
Relative Costs (\$/acre)	\$\$\$		Based on survey of seed costs using maximum price and max seeding rate
Min. Germination Temp (F)	34°	Cereal rye is best choice for late planting as it grows at 5 degrees lower temperatures than other small grains.	Georgia Forages, Managing Cover Crops Profitably, Noble Research Institute
Cautions	High biomass can cause temporary nitrogen immobilization. An additional 20 to 30 lbs N/acre at planting will alleviate this.		

### **Cultural Traits**

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#### Sources:

Georgia Forages: http://www.caes.uga.edu/extension-outreach/commodities/forages/species-and-varieties/cool-season/rye.html

Jimmy Carter Plant Materials Center Annual Reports: https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ga/plantsanimals/?cid=nrcs144p2\_022076

Managing Cover Crops Profitably: <u>https://www.sare.org/Learning-Center/Books</u>

USDA Cereal Rye Plant Guide: https://plants.usda.gov/factsheet/pdf/fs\_sece.pdf