# **Cover Crop Information Sheet**

## **Other Brassicas**

Canola (Brassica napus), Turnips (Brassica rapa L. var. rapa (L.) Thell), Collards (B. oleracea var. acephala and B. juncea), Kale (Brassica napus L. var. pabularia), Mustards (Brassica spp.)

Several brassicas are used in cover crop mixtures. If planted early in fall, they provide weed suppression. These also loosen the soil, scavenge nitrogen, and provide early flowers for beneficial insects and pollinators. All brassicas need to be planted early, preferably before Halloween for adequate growth. They can be planted early in hotter August weather.

#### **Recommended Varieties**

Variety	Reasons Why	Source	
Dwarf Essex, Bonar, Pasja	Rapeseed varieties provide early flowers and		
(Forage), Appin (Forage)	fibrous root systems. Forage varieties typically		
	produce more aboveground biomass. Can be used		
	in row crop/animal operations.		
T-Raptor	Hybrid between turnips and rape.		
Hunter and Winfred Hybrid	Provide good cover and some weed control.	Green Cover Seed	
turnips			

### **Planting Information**

Information	Comments	Source
Drilled Seed	1/4 - 3/4	Managing Cover Crops Profitably
Depth (inches)		
Drilled Seeding	5 - 12	Managing Cover Crops Profitably
Rate (lbs/acre)		
Broadcast	8 - 15	Managing Cover Crops Profitably
Seeding Rate		
(lbs/acre)		
Aerial Seeding	N/A	
Rate (lbs/acre)		

#### **Termination Information**

Information	Source
Brassicas do not reliably winterkill in the Coastal Plain. Brassicas can be terminated	Managing Cover Crops
by herbicides, mowing, heavy grazing, and tillage. They need to be killed before full	Profitably, USDA Field Mustard
bloom to prevent seed set. Termination with herbicides is most effective when the	Plant Guide, VA county agent –
plant is less than 10 inches tall. Rapeseed has proved difficult to kill with	personal communication
glyphosate, requiring a higher than normal rate of application – at least 1 quart/ac	
of glyphosate – and possibly multiple applications. Many Extension	
recommendations are for glyphosate + 2,4-D at 1 pt to 1 qt/acre. Addition of	
atrazine before corn/sorghum or metribuzin before soybeans should be	
considered. Dicamba has no herbicide activity. If not completely killed, rapeseed	
volunteers can be a problem in the subsequent crop. Turnips can be rolled and	
crimped when they are in flower, but roller crimping is not usually a reliable	
termination method for brassicas.	
Consult your local Extension and state Pest Management Handbook for herbicide	
recommendations. Always follow the herbicide label.	



### **Cultural Traits**

Traits		Comments	Source	
Typical Dry	2,000 - 5,000		Managing Cover Crops	
Matter Range			Profitably	
(lbs/acre)				
Typical Total N	N/A	Rapeseed is very good at N scavenging and	Managing Cover Crops	
Range (lbs/acre)		mustards are good.	Profitably	
Life Cycle	Winter		Managing Cover Crops	
	annuals or		Profitably	
	biennials			
Growth Habit	Upright		Managing Cover Crops	
			Profitably	
Preferred Soil pH	5.5 - 8.0		Managing Cover Crops	
			Profitably	
Relative Seed	\$\$ - \$\$\$\$	Kale and mustard are more expensive than	Based on survey of seed costs	
Cost (\$/acre)		rapeseed.	using maximum price and max	
			seeding rate	
Min. Germination	40 - 45°		Managing Cover Crops	
Temp (F)			Profitably, USDA Field Mustard	
			Plant Guide	
Cautions	You should use caution including brassicas in mixtures if other			
	brassicas are in your crop rotations. These could serve as a			
disease bridge. Whiteflies are known to overwinter on				
collards.				

#### **Sources:**

Green Cover Seed: <a href="https://www.greencoverseed.com/">https://www.greencoverseed.com/</a>

Managing Cover Crops Profitably: <a href="https://www.sare.org/Learning-Center/Books">https://www.sare.org/Learning-Center/Books</a>

USDA Field Mustard Plant Guide: <a href="https://plants.usda.gov/plantguide/pdf/pg">https://plants.usda.gov/plantguide/pdf/pg</a> brrar.pdf