

CLOVER, CRIMSON (*Trifolium incarnatum*)

Crimson clover is probably the most commonly used cool season legume cover crop. It does not produce as much biomass or nitrogen as vetch but is less prone to reseed. It is one of the largest seeded clovers and tends to be one of the earliest flowering of winter legumes. Choosing an early-maturing variety that blooms before termination maximizes the amount of N fixation. Conversely, allowing crimson clover to produce seed lowers nutrient quality and availability for the cash crop and termination should occur when approximately 50% of plants are blooming. Use with caution if there is high nematode pressure in your field.

Recommended Varieties

Variety	Reasons Why	Source
AU Robin	More suitable for corn. Good biomass, early	
	maturing- flowers about 2 weeks before Dixie. Seed	
	is generally more expensive than Dixie. Moderate	
	host to root-knot nematodes. In some years seed	
	may be difficult to find.	
AU Sunrise	More suitable for corn. Good biomass, early	
	maturing- flowers about 1 to 2 weeks before AU	
	Robin and about 3 to 4 weeks earlier than Dixie.	
	Seed is generally more expensive than Dixie. In	
	some years seed may be difficult to find.	
AU Sunup	Earliest flowering crimson clover.	
Dixie	More suitable for cotton. Good biomass. Seed is	
	available and affordable. The standard crimson	
	clover variety when variety is not specified. Good	
	host to root-knot nematodes.	

Planting Information

Information		Comments	Source
Drilled Seed	1/4 - 1/2		Managing Cover Crops Profitably
Depth (inches)			
Drilled Seeding	8-15	Use Rhizobium leguminosarum biovar trifolii	Managing Cover Crops Profitably
Rate (lbs/acre)		inoculant	
Broadcast	15- 20	Into cotton – can use highboy sprayer to spread	Managing Cover Crops Profitably
Seeding Rate		seed before defoliating.	
(lbs/acre)		Into soybeans – broadcast before leaf drop.	
		In corn – after harvest.	
Aerial Seeding	N/A	There is not much information on aerial seeding of	
Rate (lbs/acre)		clover. Timing should be similar to broadcast.	

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Termination Information

	Information	Source
Ī	Crimson clover can be terminated by herbicides, mowing or tillage.	Balkcom - personal
	Herbicides - legumes take longer to kill with herbicides than grains. Plan on 2 $\%$ to	communication, Managing
	3 weeks for clover to fully die. Mowing - Clover decomposes quickly and mowing	Cover Crops Profitably
	will accelerate decomposition and may increase nitrogen loss before crops are	
	able to use it. Rolling/crimping kill at bloom – It is difficult to kill clover with	
	rolling/crimping alone. Several passes may be needed as clover may not reach the	
	minimum 14 inches in height needed for effective crimping. Clover may be	
	terminated by mowing after early bud stage.	
	Consult your local Extension and state Pest Management Handbook for herbicide	
	recommendations. Always follow the herbicide label.	

Cultural Traits

Traits	Comments		Source
Typical Dry	2,500 - 5,000		Managing Cover Crops
Matter Range			Profitably, Unpublished
(lbs/acre)			Literature Review in Piedmont –
			Gaskin
Typical Total N	50 - 125		Managing Cover Crops
Range (lbs/acre)			Profitably, Unpublished
			Literature Review in Piedmont –
			Gaskin
Life Cycle	Cool season		Managing Cover Crops
	annual legume		Profitably
Growth Habit	Semi-upright		Managing Cover Crops
			Profitably
Preferred Soil pH	6.0 – 7.0 Tolerant o	f a wide variety of soil types	Managing Cover Crops
			Profitably
Relative Seed	\$\$		Based on survey of seed costs
Cost (\$/acre)			using maximum price and max
			seeding rate
Min. Germination N/A			
Temp (F)			
Cautions	Cotton – to ensure best sta	nd wait at least 10 days after clover	Bastola and Davis 2017,
	termination. Use with cauti	on if there is high nematode	Culpepper – personal
	pressure in your field. 'Dixie' is a good host for root knot		communication, Timper et al.
		moderate host for root knot	2006;
		ld be killed by mid-March to	
		n build up. Risk of susceptibility to	Clemson University
		olfsii (<i>Athelia rolfsii</i>). Do not plant	
	before legume cash crops or hemp unless fumigating before		
planting cash crop.			

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Sources:

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

Timper, P., R.F. Davis, and P.G. Tillman. 2006. Reproduction of *Meloidogyne incognita* on winter cover crops used in cotton production. J. Nematology 38(1):83-89.