

Table 1. Annual cool season grasses cover crop. Planting information courtesy of Dr. Dewey Lee, Dept. of Crops and Soil Sciences, UGA, Tifton, Ga. except where noted.

Species ¹	PLS ² Seeding Rate (lb./acre)	Seeding Date ³			Planting Depth
		Mountain – Limestone Valleys	Piedmont	Coastal Plain	
Barley	48-96	9/1-11/1	10/01-11/15	10/15-12/1	¾ - 1½
Black oats	50-70	No ⁴	10/15-11/15 ^{5,6}	10/15-11/15 ^{5,6}	¾ - 1½
Oats	64-96	9/1-11/1	9/15-11/15	10/1-11/15	¾ - 1½
Rye	56-112	8/15-11/1	9/15-12/1	9/15-1/1	¾ - 1½
Triticale	48-96	-	-	10/15-12/15	¾ - 1½
Wheat	60-120	9/15-11/15	10/1-12/1	10/15-12/15	¾ - 1½

^{1,2,3} See footnotes at the end of the document.

⁴ Not recommended for extreme north Georgia.

⁵ Recommended only for the lower Coastal Plain, USDA Plant Hardiness Zones 8b-10a <http://www.usna.usda.gov/Hardzone/ushzmap.html>?. (Anon. 2002).

⁶ Fall planting preferred. Plant from October 15 to November 15. Earlier fall plantings may be more susceptible to frost in January. An early spring planting is a secondary option, in the Coastal Plain (January 25-February 7) or southern edge of the Piedmont (Macon area, February 5-10). Use when planting a cash crop, such as vegetables, late in the summer. Personal communication Dr. Wayne Reeves, USDA-ARS, Watkinsville, Georgia.

Table 2. Annual warm season grasses and non-legume broadleaf plants for cover crop. Planting information courtesy of Dr. Dewey Lee, Dept. of Crops and Soil Sciences, UGA, Tifton, Ga..

Species ¹	PLS ² Seeding Rate (lb./acre)	Seeding Date ³			Planting Depth
		Mountain – Limestone Valleys	Piedmont	Coastal Plain	
Buckwheat	50-70	5/15-8/1	5/1-8/1	4/15-8/15	½-1½
Millet, Browntop	20-25	5/15-8/1	5/1-8/1	4/1-8/15	½ -1
Millet, Pearl	20-25	5/15-8/1	4/15-7/15	4/1-7/15	½ -1½
Sorghum- Sudan Hybrids & Sudangrass	20-25	5/1-8/1	4/15-8/1	4/1-8/15	¾ -1½

^{1,2,3} See footnotes at the end of the document.

Table 3. Annual and perennial cool season legumes for cover crop. Planting information courtesy of Dr. Dewey Lee, Dept. of Crops and Soil Sciences, UGA, Tifton, Ga. Except where noted.

Species ¹	PLS ² Seeding Rate (lb./acre)	Seeding Date ³			Planting Depth
		Mountain – Limestone Valleys	Piedmont	Coastal Plain	
Clover, Arrowleaf	5-8	9/1-10/15	9/15-11/1	10/1- 11/15	0-1/2 ⁴
Clover, Ball	2-3	9/1-10/15	9/15-11/1	10/1- 11/15	0-1/4 ⁴
Clover, Balansa ⁵	4-6	9/1-10/15	9/15-11/1	10/1- 11/15	1/4-1/2 ⁴
Clover, Crimson	15-20	9/1-10/15	9/15-11/1	10/1- 11/15	1/4-1/2 ⁴
Clover, Red	10-15	9/1-10/15	9/15-11/1	10/1- 11/15	1/4 -1/2 ⁴
Clover, Subterranean	8-10	9/1-10/15	9/15-11/1	10/1- 11/15	1/4-1/2 ⁴
Clover, white	3-4 ⁶	9/1-10/15	9/1-10/15	9/1-10/15	1/4-1/2 ⁴
Lupine, drilled/ broadcast	60-90/ 75-100	9/5-10/1	9/15-10/15	10/15-11- 15	3/4-1
Pea, Austrian Winter	30-40	9/1-10/1	9/15-10/15	10/1-11/1	1-2
Vetch, Cahaba White	15-20	9/1-10/15	9/15-11/1	10/1- 11/15	3/4 -1 1/2
Vetch, Common	30-40	-	-	10/1- 11/15	1/2 - 1
Vetch, Hairy	20-25	9/1-10/15	9/15-11/1	10/1- 11/15	1/2 - 1

^{1,2,3} See footnotes at the end of the document.

⁴ Use a drill with a small seed attachment and place the drop tubes outside the furrow. A drag chain or wide furrow closer will firm or drag soil and debris over the seed. Planting seed directly in the furrow may result in deeper-than-desired placement and reduced stand.

⁵ Personal communication Dr. Wayne Reeves, USDA-ARS, Watkinsville, Georgia.

⁶ Reproduces by root (perennial) and seed. Unlike other species in the list, the rates for drill or broadcast application are the same.

Table 4. Annual warm season legumes for cover crop. Planting information courtesy of Dr. Dewey Lee, Dept. of Crops and Soil Sciences, UGA, Tifton, Ga.

Species ¹	PLS ² Seeding Rate (lb./acre)	Seeding Date ³			Planting Depth
		Mountain – Limestone Valleys	Piedmont	Coastal Plain	
Cowpeas	60-90	5/4-6/15	5/1-6/15	4/15-6/1	1-3
Lespedeza					
Korean	25-35	3/1-4/1	2/15-3/15	2/1-3/15	¼-½ ⁴
Striate	25-35	3/1-4/1	2/15-3/15	2/1-3/15	¼-½ ⁴
Velvet bean	30-40	-	-	3/15-5/1	1-3

^{1,2,3} See footnotes at the end of the document.

⁴ Use a drill with a small seed attachment and place the drop tubes outside the furrow. A drag chain or wide furrow closer will firm or drag soil and debris over the seed. Planting seed directly in the furrow may result in deeper-than-desired placement and reduced stand.

Table 5. Canola (rapeseed), mustard, radish and turnip for cover crops (Clark, 2007).

Species ¹	Drilling		Broadcast Rate PLS (lb./ac)	Fall Climate and Soil Conditions
	Rate PLS ² (lb./ac)	Depth (in.)		
Canola	5-10	< ³ / ₄	8-14	<ul style="list-style-type: none"> • Well-drained soil • pH 5.5-8.5 • Min. 4 wks. prior to avg. 28 degree F air temperature • Soil temperature min. 45 and max 85 degrees F
Mustard ⁴	5-12	¹ / ₄ - ³ / ₄	10-15	
Radish ^{4,5}	8-12	¹ / ₄ - ¹ / ₂	12-20	
Turnip ^{4,6}	4-7	¹ / ₂	10-12	

^{1,2,3} See footnotes at the end of the document.

⁴ May be a weed when allowed to seed and followed by row crops.

⁵ Plant in the late summer or early fall after the average daytime temperature is less than 80 degrees F.

⁶ Plant in the fall after the average daytime temperature is less than 80 degrees F.

¹Other species may be considered for listing as the need arises.

² PLS represents pure live seed. To calculate PLS, multiply the purity times the germination rate. Then divide the recommended seeding rate by the PLS to get the actual seeding rate.

For example, a bag of rye seed has a purity of 90% and germination of 85%.

- The PLS = $0.90 \times 0.85 = 0.77$. In other words, only 77% of the material in a sack that will germinate.
- Divide the recommended seeding rate of 60 lbs by 0.77 and get the actual seeding rate of 78 pounds. You will need to plant 78 pounds of the rye seed per acre in order to be planting 60 lbs of pure live seed.

³ A map showing the major land resource areas (MLRAs) that are included in the three crop production areas of Georgia is available at

http://efotg.nrcs.usda.gov/references/public/GA/MLRA_GA_01-03-08.pdf

- Mountain-Limestone Valleys. Blue Ridge, Sand Mountain and Southern Appalachian Ridges and Valleys MLRAs.
- Piedmont. Southern Piedmont MLRA
- Coastal Plain. Southern Coastal Plain, Sand Hills and Atlantic Coast Flatwoods MLRAs.