

# GREEN MANURES

Common Name	Legume	Soil Preference	Time Requirements (Low, Medium or High)	Adapted to Soils (Low Fertility)	Relative Longevity of Seed	Seeding Rate (lbs. per acre)	Seeding Rate (lbs. per 1000 sq. ft.)	Depth to Cover Seed	Areas For Which Best Adapted				When to Sow	When to Turn Under	Comments
									N.E. and N.C. States	Southern and S.E. States	Gulf Coast and Florida	Northwestern States			
<b>Barley</b>	No	Loams	L	Long	100	2 1/2	3/4	•	•	•	•	Spring Fall	Summer Spring	Not good on sandy or acid soils. Sow spring varieties in north, winter varieties in milder climates.	
<b>Beans</b>	Yes	Widely Adaptable	L	Short	70	2	1	•	•	•	•	Spring or Summer	Summer or Fall	} Warm weather crops. Do not sow until ground is warm and weather is settled.	
<b>Soy Velvet</b>	Yes	Loams	M	Short	90	2 1/2	1 1/2	•	•	•	•	Spring or Summer	Summer or Fall		
<b>Beggar Weed</b>	Yes	Loams	L	Short	120	4	2	•	•	•	•	Spring or Summer	Summer or Fall		
<b>Brome Grass, Field</b>	Yes	Sandy Loams	L	Long	15	1/2	1/2	•				Spring or Early Summer	Summer or Fall	Seeding rate is for scarified seed. Treble the amount if unhusked seed is used.	
<b>Buckwheat</b>	No	Widely Adaptable	L	Long	30	1	1/2	•				Fall Spring	Spring Fall	Good winter cover. Easy to establish. Hardier than rye. More heat tolerant.	
<b>Bur Clover</b>	No	Widely Adaptable	L	Long	50	1 1/2	3/4	•				Late Spring and Summer	Summer or Fall	Quick growing. Plant only after ground is warm.	
<b>Chess or Cheat Grass</b>	Yes	Heavy Loams	M	Long	30	1	1/2	•	•	•	•	Fall	Spring	Not winter/hardy north. One of the best winter crops where mild winters prevail.	
<b>Alsike</b>	No	Loams	L	Long	40	1	3/4	•				Fall	Spring		
<b>Clover</b>	Yes	Heavy Loams	M	Long	8	1/4	1/2	•				Spring Fall	Fall Spring	Less sensitive to soil acidity and poorly drained soils than most clovers.	
<b>Crimson</b>	Yes	Loams	M	Medium	30	1	1/2	•	•	•	•	Fall Spring	Spring Fall	Not winter hardy north. A good winter annual from New Jersey southward.	
<b>Subterranean</b>	Yes	Loams	M	Medium	30	1	1/2	•	•	•	•	Fall	Spring		
<b>Corn</b>	No	Widely Adaptable	L	Medium	90	2 1/2	1	•	•	•	•	Spring or Summer	Summer or Fall	Do not sow until ground is warm.	
<b>Cow-Pea</b>	Yes	Sandy Loams	L	Short	90	2 1/2	1 1/2	•				Late Spring or Early Summer	Summer or Fall	Withstands drought and moderate shade well. Do not sow until weather is warm and settled.	
<b>Crotalaria</b>	Yes	Light Loams	L	Long	15	1/2	3/4	•	•	•	•	Spring or Summer	Summer or Fall	Does well on acid soils. Resistant to root knot nematode. Sow scarified seed.	
<b>Fenugreek</b>	Yes	Loams	L	Long	35	1	1/2	•				Fall	Spring		
<b>Guar</b>	Yes	Widely Adaptable	L	Long	40	1 1/2	1	•				Spring or Early Summer	Summer or Fall	Thrives on warm soils. Do not plant too early.	
<b>Indigo, Hairy</b>	Yes	Sandy Loams	L	Short	10	1/2	1/2	•	•	•	•	Spring or Early Summer	Summer or Fall		
<b>Kale, Scotch</b>	No	Widely Adaptable	H	Long	14	1/4	1/2	•	•	•	•	Summer or Fall	Spring	Can be eaten after serving as winter cover. In Northern areas interplant with winter rye for protection. Except in deep south, plant in summer for good growth before frost.	
<b>Lespedeza</b>	Yes	Loams	L	Short	25	1	1/2	•				Early Spring	Summer or Fall	} Easy to establish on hard, acid soils of badly eroded soils.	
<b>Korean</b>	Yes	Loams	L	Short	25	1	1/2	•				Early Spring	Summer or Fall		
<b>Sericea</b>	Yes	Loams	L	Medium	25	1	1/2	•				Early Spring	Summer or Fall		



Blue	White	Yellow	Yes	Sandy Loams	L	Short	100	2 1/2	1			Spring Fall	Summer Spring Spring Summer Spring	Less popular than the yellow lupine and blue lupine. Good on sour and acid soils.
<b>Lupine</b>	<b>White</b>	<b>Yellow</b>	Yes	Sandy Loams	L	Short	120	2 1/2	1	•	•	Spring Fall	Summer Spring Spring Summer Spring	Less popular than the yellow lupine and blue lupine. Good on sour and acid soils.
<b>Millet</b>			No	Sandy Loams	L	Long	30	1	1/2	•	•	Late Spring or Summer	Summer or Fall	Sow only after ground is warm, a week or ten days after normal corn planting time. Fast growing.
<b>Mustard, White</b>			No	Loams			8	1/4	1/4	•	•	Spring	Summer	
<b>Oats</b>			No	Widely Adaptable	L	Long	100	2 1/2	1	•	•	Spring Fall	Summer or Fall	Winter oats (sown in fall) are suitable only where mild winters prevail.
<b>Field Pea</b>			Yes	Heavy Loams	M	Short	90	2 1/2	1 1/2	•	•	Early Spring	Summer	Sow in fall only where winters are mild. Distinctly a cool weather crop.
<b>Rough Tangier</b>			Yes	Sandy Loams	L	Medium	60	1 1/2	1	•	•	Fall	Spring	
<b>Rape</b>			Yes	Sandy Loams	M	Medium	80	2 1/2	1	•	•	Spring	Summer	
<b>Rape</b>			No	Loams	L		8	1/4	1/4	•	•	Spring or Summer	Summer or Fall	
<b>Rescue Grass</b>			No	Widely Adaptable	L	Long	35	1	3/4	•	•	•		Adapted to mild winters and humid climates.
<b>Rye, Spring</b>			No	Widely Adaptable	L	Long	90	2	3/4	•	•	Spring	Summer	
<b>Rye, Winter</b>			No	Widely Adaptable	L	Long	90	2	3/4	•	•	Fall	Spring	One of the most important winter cover crops. Can be sown late.
<b>Rye-Grass, Italian</b>			No	Widely Adaptable	L	Long	35	1	3/4	•	•	Fall	Spring	An important winter cover crop where winters are mild. In severe climates sow in spring or summer.
<b>Sesbania</b>			Yes	Widely Adaptable	L	Long	25	1	3/4	•	•	Spring or Summer	Summer or Fall	Quick grower. Is better adapted to wet soils and will grow at higher altitudes than crutalaria.
<b>Sorghum</b>			No	Light Loams		Long	90	2 1/2	3/4	•	•	Late Spring or Summer	Summer or Fall	Do not sow until ground is warm and weather is settled. More drought resistant than corn.
<b>Sudan Grass</b>			No	Widely Adaptable	L	Long	35	1	3/4	•	•	Late Spring or Summer	Summer or Fall	Rapid grower. Do not sow until ground is warm and weather is settled.
<b>Sunflower</b>			No	Widely Adaptable	L		20	3/4	3/4	•	•	Spring or Summer	Summer or Fall	Intolerant of acid soils.
<b>Common White Annual (Hubam)</b>			Yes	Heavy Loams	H	Long	15	1/2	1/2	•	•			Quite winter hardy. Best results are from fall sowing.
<b>Sweet-Clover</b>			Yes	Loams	H	Long	15	1/2	1/2	•	•			A true annual. Best results from spring sowings.
<b>Yellow Annual</b>			Yes	Loams	H	Long	15	1/2	1/2	•	•			Stands dry conditions better than common white sweet clover.
			Yes	Loams	H	Long	15	1/2	1/2	•	•			Most useful south of the cotton belt as winter cover. North not winter hardy. Makes short summer growth.
<b>Common</b>			Yes	Widely Adaptable	L	Medium	60	1 1/2	3/4	•	•	Spring Fall	Fall Spring	Not winter hardy where severe cold is experienced. Needs reasonably fertile soil.
<b>Hairy</b>			Yes	Widely Adaptable	L	Long	60	1 1/2	3/4	•	•	Spring Fall	Fall Spring	The most winter hardy vetch. Best sown in fall mixed with winter rye or winter wheat.
<b>Hungarian</b>			Yes	Heavy Loams	L	Long	60	1 1/2	3/4	•	•	Spring Fall	Fall Spring	Next to hairy vetch the most winter hardy of the vetches. Not winter hardy where winters are severe. Needs fairly fertile soil.
<b>Purple</b>			Yes	Loams	L	Long	60	1 1/2	3/4	•	•	Spring Fall	Fall Spring	Least hardy of the vetches. Suited for winter cover in mild climates only.
<b>Woolly Pod</b>			Yes	Widely Adaptable	L	Long	60	1 1/2	3/4	•	•	Spring Fall	Fall Spring	
<b>Wheat, Winter</b>			No	Loams	L	Long	100	2 1/2	3/4	•	•	Fall	Spring	