



RECOMMENDATIONS for fertilizers in this leaflet are those found best by experiments, soil test summaries and practical experience in the field. The recommendations are general in scope. Since soils vary so much in nutrient levels, soil tests should be made in order to obtain more definite and economical fertilizer recommendations.

For best results with fertilizers, other factors should be favorable, such as a well-prepared seedbed, good stand, absence of disease, adequate moisture, aeration and good cultural practices. Good cropping systems with legumes in rotation aid in a favorable response of crops to fertilizers. When crops follow legumes turned under, the amount of nitrogen needed may be reduced. Where soil and crop management practices are favorable, even higher rates of fertilization than those shown may be economically advantageous.

The letters NR mean that the crop is not recommended for this class of soils.

LAND RESOURCE AREAS

- A East Texas Timberlands
- B Coast Marsh
- C Coast Prairie
- D Blackland Prairies
- E East Cross Timbers
- Grand Prairie
- G West Cross Timbers
- H North Central Prairies
- I Central Basin
- J Rio Grande Plain
- K Edwards Plateau
- L Rolling Plains
- M High Plains
- N Trans-Pecos

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Coast Prairie

POUNDS OF NUTRIENTS TO BE APPLIED PER ACRE AT OR BEFORE PLANTING RECOMMENDATIONS ARE LISTED IN LB. N, LB. P_2O_5 and LB. K_2O

	Bottomland Upland						
	Calcareous clays and clay loams	Calcareous loams and sandy loams	Non- calcareous loams and sandy loams	Clays and clay loams		Sands	Additional Treatment
		N	NAMES OF	IMPORTANT	SOIL TY	PES	
	Miller Pledger	Norwood Yahola	Kaufman Navasota	Lake Charles Beaumont Bernard	Katy Edna Hockley	Galveston Kinny	
Lir	me is need	ed on mai	ny Coast l	Prairie soils	s. Detern	nine need v	with a soil test.
TIELD CRO	OPS					· JAGG	
Alfalfa	0-40-0	15-60-0 In those are		15-60-0* ood subsurf		NR .ge.	Apply 0-60-0 annually for maintenance.
Corn	110-40-0	110-40-0	80-40-40	90-30-0	80-40-40	80-40-80	
Grain sorghum	80-30-0	80-30-0	80-40-40	90-30-0	80-40-40	80-40-80	
Cotton	60-40-0	60-40-0	30-60-30	60-30-0	60-60-30	60-60-60	
Pastures Grass a legume		15-30-0	15-60-30	15-60-0	15-60-30	15-60-60	Apply in fall. Omit Non established legume stands.
Pastures	60-30-0 Includes g	60-30-0 grasses, sm	60-60-30 all grains,	60-40-0 sweet sorgh	60-60-30 num and s		Topdress with 40-0-0 after each cutting of 30-0-0 each time grazed down.
Coastal Bermuda		100-60-0	100-60-30	100-60-0	100-60-30	100-60-60	Topdress 50-0-0 every 2 or 3 months is grazed and 70-0-0 each time cut for hay if soi moisture is adequate.
Flax	30-30-0	30-30-0	30-60-30	30-30-0	30-30-30	30-60-60	Topdress in January with 30-0-0.
Legumes	0-40-0	0-40-0	0-60-30	0-60-0	0-60-30	15-60-60	
Peanuts	NR	NR	NR	20-40-0	20-40-20	20-40-40	Apply 300 lb. gypsum at bloom over peg zone.
Rice	NR	NR	80-40-0	80-40-0	40-40-20	40-40-20	

[†]Apply fertilizer in early spring as plants begin to grow.

		-Bottomland			-Upland-		
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		N	AMES OF	IMPORTANT	SOIL TYP	ES	
	Miller Pledger	Norwood Yahola	Kaufman Navasota	Lake Charles Beaumont Bernard	Katy Edna Hockley	Galveston Kinny	
TRUCK CR Lettuce Cabbage Mustard Collards	OPS†† 40-40-0	40-80-0	40-80-40	40-80-0	40-80-40	40-80-80	Sidedress with 60-0-0 when heads begin to form. For mustard 10 days from emergence.
Carrots Beets Turnips	40-40-0	40-80-0	40-80-40	40-80-0	40-80-80	30-120-120	
Sweet	s NR	40-80-0	40-80-40	NR	40-80-40	40-80-80	
Irish potatoe	s NR	80-80-0	80-80-40	NR	80-80-40	80-80-80	
Tomatoes Peppers Eggplants	40-40-0	40-80-0	40-80-40	40-80-0	40-80-40	40-80-80	Sidedress with 30-0-0 if soil moisture is adequate.
Canta- loupes	30-30-0	30-60-0	30-60-30	30-60-0	30-60-30	30-60-60	
Squash Cucumber	30-30-0	30-60-0	30-60-30	30-60-0	30-60-30	30-60-60	Sidedress with 30-0-0 when vines start to bloom.
Water- melons	NR	20-40-80	20-40-120) NR	20-80-160	20-80-160	Sidedress with 20-0-0 when vines start to bloom.
Onions	NR	40-80-0	40-80-40	NR	40-80-40	40-80-80	
General garden	40-80-0	40-80-40	40-40-40	40-80-0	40-80-40	40-80-80	Sidedress in 40 days with 40-0-0
		r fertilizer better star				he time of	transplanting has been
FRUIT TRE	EES 30-30-0	30-60-0	30-60-30	30-60-0	30-60-30	30-60-60	Sidedress in May or June with 30-0-0.
Pecans	For be or ear pendir Zinc—A If the ency, of war	ly March. ng on the si ll soil types re are any spray pecan	For young ze of the to signs of real leaves we are or	trees apply cree. osette or if	the orch	e-fourth to ard has any percent zinc	ameter in late February one-half as much N, de- y history of zinc defici- sulfate per 100 gallons dar casebearer spray in

To insure good yields, the recommendations given above are based on normal moisture conditions for the area. In years when subsoil moisture is very low and surface soil moisture is below normal, use one-third to one-fourth less at planting time, using the remainder as a sidedressing if rains come within 30 days from planting. When supplementary irrigation is available for field crops, double the nitrogen recommended and increase phosphorus and potassium by one-half.

GRADES OF FERTILIZER

These fertilizer recommendations are expressed in pounds of nutrients per acre and do not represent fertilizer grades. For example, 30-60-0 means 30 pounds nitrogen (N), 60 pounds P₂O₅ and no K₂O. The nutrients must be obtained from materials or fertilizer mixtures sold on the market.

For example, a recommendation calling for 30-60-30, which is a 1:2:1 ratio, can be obtained by applying 500 pounds of 6-12-6 or 250 pounds of 12-24-12 or 300 pounds of 10-20-10. Again, if a recommendation calls for 30-60-0, this may be obtained by applying about 300 pounds of a 10-20-0 or 375 pounds of 8-16-0.

METHOD OF APPLICATION

Row Crops: Fertilizer can be applied prior to or at planting. Fertilizers are more efficiently used by most crops when applied in a band 2 to 3 inches to the side and 2 to 3 inches below the seed. Fertilizer can be applied while planting or cultivating if equipment is available.

It can also be applied in the furrow prior to last rebedding in heavy textured soil. Avoid putting the seed too close to the fertilizer because germination may be impaired. If large quantities of nitrogen fertilizer are to be applied, part of the nitrogen can be applied with the phosphorus and potassium and the remainder applied 35 to 45 days later as a side or topdressing.

Small Grains (except rice): Fertilizers for small grains may be broadcast, drilled in or plowed in. Fertilizers containing nitrogen and potassium should not be allowed to touch the seed.

Phosphorus, potassium and part of the nitrogen should be applied at or before seeding. The rest of the nitrogen should be applied in the spring before plants begin to joint.

Pastures: For establishing improved pastures, fertilizer should be applied broadcast, drilled or plowed in. For maintenance of grass pasture, topdress with 30-0-0 as needed. Repeat annually the basic fertilizer treatment as suggested or according to a soil test.

Fruit Trees: Fertilizer for fruit trees may be applied over the entire area covered by the orchard when the trees are mature. In non-bearing orchards, the fertilizer should be applied over the area covered by the spread of the limbs. Keep fertilizer 1 foot away from tree trunks. Cultivate fertilizer applications into the soil.

GENERAL LIMESTONE RECOMMENDATIONS

Many soils in the eastern half of the Coast Prairie are slightly to strongly acid. Many soils also are low to very low in calcium. Crop quality and yields are lowered when soils become too acid or deficient in calcium.

The application of limestone or other liming materials will correct soil acidity and supply calcium.

Many Coast Prairie upland soils, particularly lighter textured soils, will respond to the application of 1 ton of limestone per acre. Loams, clay loams and clays that are acid usually will require a larger application.

Use a soil test to determine exact soil needs.