

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 seed bed, good stand, absence of disease, adequate moisture, aeration and good cultural practices. Where soil conditions and soil and crop management practices are very favorable, even higher rates of fertilization than those shown may be economically advantageous.

LAND RESOURCE AREAS

- A East Texas Timberlands
- B Coast Marsh
- C Coast Prairie
- D Blackland Prairies
- E East Cross Timbers
- F 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

Developed by Personnel of the Departments of Agronomy and Horticulture, College Station and

> Substation No. 17, Ysleta Substation No. 9, Pecos of the Texas A. & M. College System

Upper Rio Grande and Trans-Pecos

Irrigated Areas

POUNDS OF NUTRIENTS TO BE APPLIED PER ACRE AT OR BEFORE PLANTING RECOMMENDATIONS ARE LISTED IN LB. N, LB. P₂O₅ and LB. K₂O

	Clays and clay loams	Loams and sandy loams	Sands	Additional treatment
FIELD CROPS Alfalfa	10-40-0	15-60-0	15-60-0	Topdress 0-60-0 annually in spring for maintenance
Corn, grain sorghum	40-40-0	40-40-0	60-60-0	Sidedress with 80-0-0 in 35 days
Sweet sorghum, Sudan, Johnsongrass	30-0-0	30-30-0	30-60-0	Side or topdress with 60-0-0 after each cutting or each time grazed down
Cotton—Rio Grande and Pe Flood Plains, Lobo Flats and Madera Valley	ecos 60-0-0	60-0-0	60-0-0	Sidedress with 40-0-0 in late May or early June. Apply 60 lb. P_2O_5 to land once every 5 years
Pecos, Dell City, Wild Horse Ft. Stockton and Coyanosa Areas*	60-0-0	60-60-0	60-60-0	Sidedress with 100-0-0 in late May or early June
Annual legumes	0-40-0	0-40-0	15-60-0	
Pastures Grasses only, grasses and legumes including small grains	40-0-0	40-0-0	60-60-0	Topdress with 60-0-0 each time cut or grazed down
TRUCK CROPS Lettuce	30-30-0	60-60-0	60-60-0	Sidedress with 60-0-0 when plants begin to head
Tomatoes, peppers	20-40-0	30-60-0	40-80-0	Sidedress with 40-0-0 at set of first fruit
Cantaloupes	40-40-0	40-80-0	40-80-0	Sidedress with 50-0-0 at first bloom
Onions	40-80-0	50-100-0	50-100-0	7 E

Adequate water supply must be available at all times.

Under heavy water application, the amount of fertilizer may be increased.

^{*}Rates may vary, depending upon soil permeability, water and management practices. With frequent irrigation, some additional nitrogen should be applied in small quantities in the summer irrigation waters.

GRADES OF FERTILIZER

The fertilizer recommendations are expressed in pounds of nutrients per acre and do not represent fertilizer grades. For example, 60-60-0 means 60 pounds nitrogen, 60 pounds P_2O_5 and no K_2O per acre. The nutrients must be obtained from materials or fertilizer mixtures sold on the market.

For example, a recommendation calling for 100-50-0 can be obtained by applying 250 pounds of 10-20-0 at planting and sidedressing an additional 75 pounds of nitrogen as a straight nitrogen fertilizer. If the recommendation calls for a 60-0-0, any nitrogen fertilizer can be used to supply 60 pounds actual nitrogen.

METHOD OF APPLICATION

Row Crops: Fertilizers are most efficiently used by row crops when applied either at planting time or several weeks later. At planting, applications should be 2 to 3 inches to the side and 2 to 3 inches below the seed. Avoid putting seed too close to the fertilizer, as germination may be impaired. Later applications should be 6 to 8 inches deep and 8 to 10 inches

from the row. Do not sidedress too late in the season so as to avoid pruning roots.

If large quantities of nitrogen fertilizer are to be applied, part of the nitrogen should be drilled into the soil as side dressing and part applied in small quantities in the irrigation water during summer irrigations. Application of anhydrous ammonia in irrigation water is not recommended because of poor distribution and loss by vaporization. Potash fertilizers are not needed by crops in the Trans-Pecos area.

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

The phosphorus and part of the nitrogen should be applied at or before seeding. The rest of the nitrogen should be applied in the spring or before plants begin to head up.

Pastures: For establishing improved pastures, fertilizer should be applied in bands when possible. Otherwise, it should be broadcast, drilled or plowed in. For maintenance of grass pasture, topdress with 60-0-0 as needed. Repeat basic fertilizer treatment annually as suggested or according to a soil test.

Have You Met





.... YOUR COUNTY EXTENSION AGENTS? If not, drop by to see them soon. They represent both the United States Department of Agriculture and The Texas A. & M. College System in your county and they can furnish the latest information on farming, ranching and homemaking.

Most county extension agents have their offices in the county courthouse or agriculture building. Get to know them and take advantage of their services.

This publication is one of many prepared by the Texas Agricultural Extension Service to present up-to-date, authoritative information, based on results of research. Extension publications are available from your local agents or from the Agricultural Information Office, College Station, Texas.