

Fertilizer Brand	Type of Fertilizer	Fertilizer Name	Ratio of Blend	Additional Nutrients	Uses	When to Apply	How to Apply
Espoma							
	Organic	Bio-Tone	4% Nitrogen, 3% Phosphate, 3% Potash	Magnesium, Calcium, Sulfur	Used to help quickly establish roots for new plantings.	Apply at time of planting according to package instructions.	Planting Beds: Mix into the top 4-6" of soil prior to planting. Trees & Shrubs: Mix into the soil used to backfill the planting hole. Potting Mixes: Mix thoroughly into the soil mix prior to planting.
	Organic	Garden Lime			Can be used anywhere in the garden and landscape where a higher (less acidic) soil pH is desired. Will turn blue hydrangeas pink due to higher soil pH.	Apply in early spring, late spring, and fall according to package instructions.	Garden Beds: Broadcast evenly over the soil surface and water thoroughly. Individual Plants: Spread evenly under the plant out to and just beyond the drip line. Water thoroughly.
	Organic	Gypsum			Helps loosen clay soils and promotes better root growth. Minimizes winter salt damage to plants & neutralizes pet urine burn	Any time during the growing season	For lawns a drop or broadcast spreader is recommended. For garden applications sprinkle evenly on the soil surface. Always water following the application.
	Organic	Holly Tone	4% Nitrogen, 3% Phosphate, 4% Potash	Magnesium, Calcium, Sulfur	To feed acid-loving Plants	Feed in the spring, and late fall at half the spring rate according to package instructions	Apply at drip line and water thoroughly after application. Follow dosing instructions on package. If area is mulched, remove mulch before application or double rate on top of the mulch.
	Organic	Plant Tone	5% Nitrogen, 3% Phosphate, 3% Potash	Magnesium, Calcium, Sulfur	To feed flowers, vegetables, trees, and shrubs	Trees & Shrubs: spring and late fall Flowers and Vegetables: Once per month during growing season according to package instructions	Garden Beds: Mix thoroughly into the soil to a depth of at least 4" New Plants: Add to the soil used to backfill the planting hole Established Plants: Sprinkle onto the soil around the drip line Always water after applying

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	Organic	Tree Tone	6% Nitrogen, 3% Phosphate, 2% Potash	Magnesium, Calcium	Used to feed all fruit, shade and ornamental trees	One time each in spring and fall according to package instructions spring – Feed early spring before growth starts fall – Feed after leaf drop but before the ground freezes.	Small trees: Sprinkle on ground over area equal to root spread. This can be estimated as the area under and slightly beyond the branch spread. Large trees: Make holes 2 to 3" in diameter, 2 to 3' apart, and 12 to 18" deep under the drip line (outer edges of branches) of the tree with an auger. Divide Tree-tone evenly among the holes, top hole with soil. Water thoroughly.
	Chemical	Acid-Loving Water Soluable Plant Food	31% Nitrogen, 11% Phosphate, 11% Potash	Iron	Feeds acid-loving plants with a quick-feeding formula	Every 10-14 days during active growing season	Dissolve 2 tsp in 1 gallon of water, feed at a rate of 1 gallon for 10 sq. ft.
	Chemical	All-Purpose Water-Soluable Plant Food	20% Nitrogen, 20% Phosphate, 20% Potash		Promtes lush green foliage and large blooms. Mainly used for annuals and perennials	Every 10-14 days during active growing season	Dissolve 2 tsp in 1 gallon of water, feed at a rate of 1 gallon for 10 sq. ft.
	Chemical	Chelated Liquid Iron	Contains Chelated Iron, Copper, Manganese, and Zinc		Reverses nutrient deficiency in trees and shrubs that causes chlorosis. Greens up yellow leaves.	When nutrient deficiency is noticed.	Apply 1 pint of diluted solution per 500 sq. ft. Any convenient method of application may be used. If a quart hose-on sprayer is used, dilute 1 pint of equal volume of water and apply with sufficient water to cover 500 sq. ft
	Chemical	Fish Emulsion Fertilizer	5% Nitrogen, 1% Phosphate, 1% Potash		Helps supply the essential primary plant nutrients needed for the development of green foliage, vigorous root systems and solid plant structure.	Once a month during growing season for trees and shrubs. Follow instructions on label for other dosing instructions.	Shrubs: 1 tablespoon per 1 gallon water; once a month during growing season. Trees: 4 tablespoons per 1 gallon water; once a month during growing season.
	Chemical	Fruit, Citrus, and Pecan Food	19% Nitrogen, 10% Phosphate, 5% Postash	Boron, Copper, Manganese, Iron, Zinc	Helps increase yield of fruit or	feed nut trees twice a year, (in early spring before new growth appears and after harvest)	Broadcast evenly over soil under branching area at drip line using the quantities listed on container at each feeding. Water in well after application
	Chemical	Garden Cote	12% Nitrogen, 12% Phosphate, 12% postash	Magnesium, Sulfur, Iron, Manganese	To slowly and evenly feed perennials, vegetables, and annuals, but also for trees and shrubs.	Once in spring, and again 6 months later.	Broadcast evenly over soil, mixing in to the top 1-3 inches of soil's surface. Water in well after application

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	Chemical	Root Stimulator	4% Nitrogen, 10% Phosphate, 3% Potash	Indole-3-butyric Acid	Helps promote stronger root systems and vigorous growth for greener plants and to reduce transplant shock	At time of planting as the roots are being covered.	Mix 3.5 TBSP per gallon of water. For trees and shrubs 4' and larger, pour diluted solution over the soil as the roots are being covered when planting, making sure that the roots are wet with the solution. Wet soil around plants with water after planting.
	Chemical	Rose & Flower Food With Systemic	14% Nitrogen, 12% Phosphate, 11% Potash	Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl] -N-nitro-2-imidazolidinimine	Feeds roses and other plantings. Acts as a systemic insecticide to help control pests listed on label.	Apply Every 8 weeks during the growing season to roses, flowers and shrubs.	Apply recommended dose (according to the label) spreading evenly. Work lightly into soil and water in. Avoid water runoff.
	Chemical	Rose Food	14% Nitrogen, 12% Phosphate, 11% Potash	Boron, Copper, Manganese, Iron, Zinc	Provide the right nutrients to produce green leaves and essential new growth on which new blooms develop	Just before buds sprout. Make a second application after the first wave of blooms and a third in mid-summer.	Spread 8 ounces around each established bush about 12 inches from the main stem, and water in well.
	Chemical	Start n Grow	19% Nitrogen, 6% Phosphate, 12% Postash	Boron, Copper, Manganese, Iron, Zinc	Both as a new planting fertilizer and as a maintenance application.	Apply Every 3-4 months during growing season. The nutrients and Nitrogen release only when the plant needs them.	Broadcast evenly over soil, mixing in to the top 1-3 inches of soil's surface. Water in well after application
	Chemical	Tree and Shrub Food	19% Nitrogen, 8% Phosphate, 10% Potash	Sulfur, Boron, Copper, Manganese, Iron, Zinc	Fertilizes trees and shrubs	Early spring and early summer	Broadcast evenly according to label's dosing instructions over soil. No need to mix into soil's surface. Water in well after application. Avoid contact with trunk.
Hi-Yield							
	Chemical	Aluminium Sulfate	16% Sulfur		Used to acidify soils. Can change white or pink mophead hydrangeas to blue.	For Water Soluable: Apply a dose in March, April, and May. For Granular: Apply any time during the season and water in thoroughly. This method will take time to take effect.	Shrubs: Drench with aluminum sulfate immediately after planting. A solution of ½ oz (1 Tbsp) per gallon is a good start. Be sure the plants are well-watered before applying the aluminum sulfate to prevent burning the roots. Drench again in 10-14 days then test the soil pH. If your soil pH is greater than 5.6, a third drench will be required. Though more labor-intensive, this method gives faster results. Trees: Use 1 lb. per inch of diameter. Mix in 5 gallons of water or apply dry at the drip line of the tree and water in thoroughly.

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	Chemical	Blood Meal	12% Nitrogen		Used to produce top growth and green foliage.	Any time during the growing season	Apply at rate of ¼ cup per 9 sq. ft. (3' x 3') of planting area. Broadcast evenly under the branches, scratch lightly into soil and water in after application. NOTE: Wash off any fertilizer that may come in contact with leaves and flowers.
	Chemical	Bone Meal	10% Phosphate		Help plant produce sturdy root systems, hastens maturity and stimulates plant growth	Apply in early spring after danger of last frost is past and repeat in early fall to help maintain plants during winter months	Apply recommended dose (according to the label) spreading evenly. Work lightly into soil.
	Chemical	Grower's Special	12% Nitrogen, 6% Phosphate, 6% potash	Boron, Copper, Manganese, Iron, Zinc	Controlled feeding of slow-release nitrogen.	Early spring and late fall for trees and shrubs, dose according to label instructions.	Broadcast evenly over soil under branching area at drip line. Water in well after application
	Chemical	Iron+ Soil Acidifier	11% Nitrogen	Sulfur, Iron	Helps to reverse chlorosis	Any time during the growing season	Spread recommended dose into top 2-4 inches of soil. Water thoroughly. For lawns, apply with a broadcast spreader according to label instructions and water in thoroughly.