



## ORGANIC FERTILIZERS

## CHEMICAL FERTILIZERS

WEEDS	Turf density inhibits weed seed germination	Herbicides
SAFETY	Safest for homeowners, applicators, kids, and pets	Somewhat
CONSERVATION	Deeper roots for drought tolerance and water savings	Chemical salts reduce mineralization
DISEASES	Reduced disease potential	More chemicals to treat diseased plants and soil
PLANT COLOR	Amino acids chelate soil minerals minimizing chlorosis	Chemical Salts Reduce mineralization
LONGEVITY	Natural slow-release nutrient availability up to 12 weeks	Slower release with poly coat, methylene urea
GROWTH RATE	Measured consistent plant growth	Possible flash growth with soluble fertilizers
THATCH	Organically degrade thatch	Induces increased thatch
PET URINE BURN	Enables lawn regrowth	Chemical salts deter lawn regrowth
FUNGAL DISEASES	Organically feed beneficial fungi	More chemicals (fungicides) necessary
SOIL HEALTH	Amino acids feed soil microbes and microorganisms	Detrimental to beneficial soil organisms
SOIL COMPACTION	Humic acid value with aeration helps reduce compaction	Chemical fertilizers contribute to compaction
GROWTH NUTRIENTS	Greater nutrient availability in alkaline soils	Soil Alkalinity reduces chemical element availability
ECONOMICS	Extended release, fewer applications	Chemical solubility uneven release