

# Landscape

**Fertilizers**

**Herbicides**

**Insecticides**

**Rodenticides &  
Repellants**

**Fungicides**

**Amendments & Specialty  
Chemicals**

**Tank Additives**

**Safety Products**

**Spreaders & Sprayers**

**Seeds & Sod**

**Erosion Control**

**Landscape Accessories**

**Tools**

**Reference**



Formulated for the specific needs of your region –  
**your turf, your soil & your weather.**

#### TurfGro Fertilizer Program

- Easy to follow program for green, healthy turf all year
- Specialty fertilizers such as high iron, slow release nitrogen, and weed & feed
- Incorporate technologies designed to improve plant health and appearance

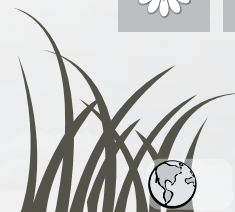
Spring, Summer, Fall  
& Winter blends



Slow Release  
(blue label)



Traditional  
(green label)



Organic/Natural  
(brown label)



Combination/Pest Control  
(yellow label)



Ornamental Plants  
(pink label)

TurfGro Professional Fertilizers  
powered by



# GRANULAR FERTILIZER – SLOW RELEASE



TurfGro Professional Fertilizers are formulated for your region – your soil, turf and plant needs – and are available exclusively at Horizon! There are 5 types of TurfGro Fertilizer to suit your situation – Look for the **BLUE labels** for **Slow Release Turf formulas**, which offer the most efficient feeding for lawns and increase the time between applications, saving you labor and maintenance costs.

## **TURFGRO 15-5-10 “TEXAS STANDARD PLUS”**

- ◆ The #1 turf analysis in Texas, plus non-staining Iron and XCU Slow Release Nitrogen
- ◆ Provides lawns with deep green color, without excessive shoot growth
- ◆ Great for Iron-loving bermudagrass and St. Augustine grass
- ◆ A 3-1-2 ratio of Nitrogen, Phosphorus and Potassium
- ◆ Performs consistently on all varieties of turfgrass, and under all but the most severe climate conditions
- ◆ 50 lb. bag
- ◆ Available in TX



## **TURFGRO 16-0-8 FLORIDA TURF**

- ◆ The university recommended analysis for Florida lawns
- ◆ 50% slowly available Nitrogen from XCU polymer-coated-sulfur-coated urea provides uniform growth and sustained feeding
- ◆ Phosphorus-free formulation poses a lower risk of nutrient runoff to water sources and does not encourage weed germination
- ◆ High iron for additional quick color without flush growth
- ◆ 50 lb. bag
- ◆ Available in FL



## **TURFGRO 18-0-0 WITH STABILIZED NITROGEN**

- ◆ **All Nitrogen fertilizer with 50% slowly available from Uflexx stabilized nitrogen**
- ◆ Dual-inhibitor technology protects against nitrogen loss due to volatilization, leaching and denitrification, keeping nutrients readily available for plant uptake and sustaining a healthy green appearance between feedings
- ◆ 50 lb. bag
- ◆ Available in TX



## **TURFGRO 20-0-4 WITH UFLEXX**

- ◆ **50% slowly available fertilizer from Uflexx stabilized nitrogen**
- ◆ Dual-inhibitor technology protects against nitrogen loss due to volatilization, leaching and denitrification, keeping nutrients readily available for plant uptake and sustaining a healthy green appearance between feedings
- ◆ 50 lb. bag
- ◆ Available in CO



## **TURFGRO 21-0-15 WINTERIZER**

- ◆ Premium fertilizer for fall application on cool season turf
- ◆ 50% slow release Nitrogen (XRT & XCU) provides sustained feeding from fall through winter, with emphasis on root—not shoot— development
- ◆ High potassium strengthens plant structure and builds winter stress resistance
- ◆ **Minimizes need for mid-winter fertilization and aids in early spring greenup**
- ◆ **New Wolf Trax Iron makes grass greener, lasts longer than other iron sources with little to no stain potential**
- ◆ Phosphorus-free formulation meets recently passed legislation restricting phosphorus in lawn fertilizer
- ◆ 50 lb. bag
- ◆ Available in ID, OR, WA



## **TURFGRO 21-2-15 WINTERIZER**

- ◆ Premium fertilizer for fall application on cool season turf
- ◆ 50% slow release Nitrogen (XRT & XCU) provides sustained feeding from fall through winter, with emphasis on root—not shoot— development
- ◆ High potassium strengthens plant structure and builds winter stress resistance
- ◆ **Minimizes need for mid-winter fertilization and aids in early spring greenup**
- ◆ **New Wolf Trax Iron makes grass greener, lasts longer than other iron sources with little to no stain potential**
- ◆ 50 lb. bag
- ◆ Available in CA



**LOOK FOR THE GREEN SYMBOL (♣)  
THROUGH-OUT THE SOURCE BOOK TO EASILY  
IDENTIFY GREEN PRODUCTS**

**TURFGRO**



### **TURFGRO 21-2-15 WINTERIZER**

- ◆ Premium fertilizer for fall application on cool season turf
- ◆ 50% slow release Nitrogen (Nutralene & XCU) provides sustained feeding from fall through winter, with emphasis on root—not shoot—development
- ◆ High potassium strengthens plant structure and builds winter stress resistance
- ◆ **Minimizes need for mid-winter fertilization and aids in early spring greenup**
- ◆ 2% Iron for deep green color
- ◆ 50. lb bag
- ◆ Available in CO



### **TURFGRO 21-2-16 EXTENDED FEED**

- ◆ 70% slow release Nitrogen from XCU polymer-sulfur-coated urea provides 12+ weeks of feeding
- ◆ Controlled release Nitrogen reduces the number of applications required, lowering labor and product costs
- ◆ 50. lb bag
- ◆ Available in ID, WA



### **TURFGRO 22-8-15 WINTERIZER**

- ◆ Premium fertilizer for fall application
- ◆ 63% slow release Nitrogen from XCU polymer-sulfur-coated urea provides sustained feeding from fall through winter, with emphasis on root—not shoot—development
- ◆ High potassium strengthens plant structure and builds winter stress resistance
- ◆ **Minimizes need for mid-winter fertilization and aids in early spring green-up**
- ◆ 50. lb bag
- ◆ Available in TX



**SOIL SAMPLES ARE THE MOST ACCURATE WAY TO ENSURE YOUR TURF GETS THE NUTRIENTS AND MICRONUTRIENTS IT NEEDS. BRING YOUR SOIL SAMPLE TO HORIZON FOR PROCESSING BY LEADING SOIL LABORATORIES!**

### **TURFGRO 23-0-10 SPRING AND SUMMER**

- ◆ 50% slow release Nitrogen from XCU polymer-sulfur-coated urea provides 10+ weeks of feeding and reduces the number of applications required, lowering labor and product costs.
- ◆ **New Wolf Trax Iron makes grass greener, lasts longer than other iron sources, with little to no stain potential**
- ◆ Phosphorus-free formulation meets recently passed legislation restricting phosphorus in lawn fertilizer
- ◆ 50. lb bag
- ◆ Available in OR, WA



### **TURFGRO 24-0-9 SUMMER**

- ◆ 50% slow release Nitrogen – half from XCU polymer-sulfur-coated urea and half from Nutralene
- ◆ Nitrogen is released by a combination of temperature, moisture and microbial activity – promoting slow, healthy turfgrass growth
- ◆ **Nutralene provides lengthened residual, even in hot weather or heavy rains**
- ◆ **New Wolf Trax Iron makes grass greener, lasts longer than other iron sources, with little to no stain potential**
- ◆ Phosphorus-free formulation meets recently passed legislation restricting phosphorus in lawn fertilizer
- ◆ 50. lb bag
- ◆ Available in ID, OR, WA



### **TURFGRO 24-0-11 PREMIUM TURF**

- ◆ 50% slow release Nitrogen from XCU polymer-sulfur-coated urea provides uniform growth and sustained feeding
- ◆ Controlled release Nitrogen reduces the number of applications required, lowering labor and product costs
- ◆ Phosphorus-free formulation poses a lower risk of nutrient runoff to water sources and does not encourage weed germination
- ◆ 50. lb bag
- ◆ Available in FL, MD, VA



### **TURFGRO 24-2-9 SUMMER**

- ◆ A premium turf fertilizer with 50% slow release Nitrogen (25% Methylene Urea, 25% PCSCU) that provides a longer nutrient release during warmer weather
- ◆ Nitrogen is released by a combination of temperature, moisture, and microbial activity — Promoting slow, healthy turfgrass growth
- ◆ Slower growth results in fewer clippings, which means reduced labor and wear on equipment
- ◆ Contains 4% Iron for a deep green look
- ◆ 50. lb bag
- ◆ Available in CO



### TURFGRO



#### TURFGRO 24-3-12 EXTENDED FEED

- ◆ 70% slow release Nitrogen from XRT provides gradual release over 90 days, meaning enhanced nutrient uptake, uniform color & growth, and minimal nitrogen loss to leaching & volatilization
- ◆ Increases your bottom line – Efficient feeding means fewer applications, lower total product cost, and reduced labor in application, mowing & cleanup
- ◆ Durable XRT coating is virtually unaffected by transport and handling
- ◆ 5% water insoluble Nitrogen from SoundGro natural biosolids provides food source for soil microbes
- ◆ New Wolf Trax Iron makes grass greener and lasts longer than other iron sources, with little to no stain potential
- ◆ 50. lb bag
- ◆ Available in CA



#### TURFGRO 24-5-11 SPRING AND SUMMER

- ◆ 50% slow release Nitrogen from XCU polymer-sulfur-coated urea provides 10-12 weeks of feeding
- ◆ New Wolf Trax Iron makes grass greener, lasts longer than other iron sources, posing little to no stain potential
- ◆ Controlled release Nitrogen reduces the number of applications required, lowering labor and product costs
- ◆ 50. lb bag
- ◆ Available in AZ, CA, NV



#### TURFGRO 28-0-0 XCU + IRON

- ◆ 50% slow release Nitrogen from XCU polymer-sulfur-coated urea provides 10-12 weeks of feeding
- ◆ Controlled release Nitrogen reduces the number of applications required, lowering labor and product costs
- ◆ 50. lb bag
- ◆ Available in TX



#### TURFGRO 28-0-10 SPRING AND SUMMER PHOS-FREE

- ◆ 50% slow release Nitrogen from PCSCU for longer Nitrogen release through warmer weather
- ◆ Promotes slow, healthy turfgrass growth vs. a "feast and famine" cycle
- ◆ Slower growth results in fewer clippings, which means reduced labor and wear on equipment
- ◆ 2% non-staining Iron virtually eliminates damage to sidewalks and gives turf deep green color
- ◆ 50 lb. bag
- ◆ Available in TX



#### TURFGRO 28-3-10 SPRING & SUMMER

- ◆ Balanced, premium lawn fertilizer with 50% slowly available from Uflexx stabilized nitrogen
- ◆ Dual-inhibitor technology protects against nitrogen loss due to volatilization, leaching and denitrification, keeping nutrients readily available for plant uptake and sustaining a healthy green appearance between feedings
- ◆ 2% non-staining Iron virtually eliminates damage to sidewalks and gives turf deep green color
- ◆ 50. lb bag
- ◆ Available in TX



#### TURFGRO 30-3-6 HIGH NITROGEN

- ◆ A premium turf fertilizer with 50% slow release Nitrogen from XCU
- ◆ High Nitrogen in controlled release form reduces the number of applications and rates required, lowering product and labor costs
- ◆ 50 lb. bag
- ◆ Available in ID



#### TURFGRO 32-0-8 UFLEX/UMAXX

- ◆ 80% slowly available fertilizer from Uflexx AND Umaxx stabilized nitrogen provides 2 levels of controlled release
- ◆ Dual-inhibitor technology protects against nitrogen loss due to volatilization, leaching and denitrification, keeping nutrients readily available for plant uptake and sustaining a healthy green appearance between feedings
- ◆ 50. lb bag
- ◆ Available in CO



**SPREAD IT & FORGET IT**  
for greener turf all season long

#### SIFI 35-0-10 NORTHERN BLEND

- ◆ An advanced, high-efficiency fertilizer that's formulated to give turf consistent feeding for 6 months or more with just 1 application – saving you time, labor and money, while reducing environmental impact
- ◆ Combines 4 variations of Duration controlled-release Nitrogen, which release at various temperatures
- ◆ Northern Blend contains a higher percentage of Duration that will release in cooler temperatures
- ◆ No need to worry about growth flushes or nitrogen runoff from excessive moisture
- ◆ Coating is very durable, so granules stand up to rough handling
- ◆ 50. lb bag



**SPREAD IT & FORGET IT**  
for greener turf all season long

**SIFI 37-0-8 SOUTHERN BLEND** ★

- ◆ An advanced, high-efficiency fertilizer that's formulated to give turf consistent feeding for 6 months or more with just 1 application – saving you time, labor and money, while reducing environmental impact
- ◆ Combines 4 variations of Duration controlled-release Nitrogen, which release at various temperatures
- ◆ Southern Blend contains a higher percentage of Duration that will release once warmer temperatures are achieved
- ◆ No need to worry about growth flushes or nitrogen runoff from excessive moisture
- ◆ Coating is very durable, so granules stand up to rough handling
- ◆ 50 lb. bag



**SIFI 43-0-0** ★

- ◆ An advanced, high-efficiency fertilizer that's formulated to give turf consistent feeding for 6 months or more with just 1 application – saving you time, labor and money, while reducing environmental impact
- ◆ Combines 4 variations of Duration controlled-release Nitrogen, which release at various temperatures
- ◆ Straight Nitrogen formula when additional nutrients are not needed and lowest application rates are desired
- ◆ No need to worry about growth flushes or nitrogen runoff from excessive moisture
- ◆ Coating is very durable, so granules stand up to rough handling
- ◆ 50 lb. bag



**See SIFI Combo/Pre-Emergent Herbicide blends on page 340**

**OTHER SLOW RELEASE**

**XCU 43-0-0**

- ◆ 100% Poly-Coated Sulfur Coated Urea



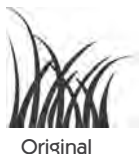
**NITROFORM 38-0-0**

- ◆ 100% Methylene Urea



**GRANULAR FERTILIZER – ORIGINAL**

**TURFGRO**



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**TURFGRO 0-10-10**

- ◆ A suitable starter fertilizer when only Phosphorus and Potassium are needed, or when Nitrogen is restricted
- ◆ 50 lb. bag
- ◆ Available in CA

**TURFGRO 5-5-20 WINTERIZER**

- ◆ A low Nitrogen, high Potassium fertilizer ideal for fall application to non-overseeded warm-season turf
- ◆ 50 lb. bag
- ◆ Available in TX

**TURFGRO 6-20-10 PROSTARTER**

- ◆ Formulated specifically for pre-plant applications of turfgrass and ornamental plants
- ◆ High Phosphorus stimulates root development for healthier plants and grass
- ◆ Contains essential minors necessary for plant establishment
- ◆ Available in CA
- ◆ 50 lb. bag

**TURFGRO 6-20-20 PROSTARTER**

- ◆ Premium Starter Fertilizer with 2% Iron
- ◆ Formulated for pre-plant turf and ornamentals
- ◆ High phosphorus stimulates root development for healthier plants and grass
- ◆ Essential minors ideal for starter fertilizer, including calcium and sulfur
- ◆ 50 lb. bag
- ◆ Available in AZ, NV, ID

**TURFGRO 10-6-8 MINI**

- ◆ A balanced, 100% soluble turf fertilizer for quick greening all season
- ◆ Smaller prill size is distributed more evenly in close-cut turf, which eliminates the common "spotty" look
- ◆ New WolfTrax Iron makes grass greener, lasts longer than other iron sources, with little to no stain potential
- ◆ 50 lb. bag
- ◆ Available in AZ





Fill your spreader with me and I'll go to work for you, working longer in a single application.

So you **SAVE LABOR**. And **FUEL**. And **TIME**.

I'll free up your crew to do more of whatever needs doing.

There's **A BETTER WAY TO FERTILIZE**, and I humbly say, it starts with me.



## WORD IS SPREADING.

More and more turfgrass managers are choosing a better way to fertilize.

And it starts with a single application of

SPREAD IT & FORGET IT® fertilizer. An advanced polymer coating makes it possible to reduce the number of applications, saving time, fuel and labor costs without sacrificing the turf's look and vigor. It also frees up your crews to do more. See how SPREAD IT & FORGET IT can economically keep your turf green and healthy.

*Consult with your distributor today for*

## A BETTER WAY TO FERTILIZE.

## CALCULATE YOUR SQUARE FOOT ADVANTAGE.

Go online to find out how fewer applications can save you time, labor and improve your bottom line. Visit: **DrivenByDuration.com**

For questions regarding SPREAD IT & FORGET IT® fertilizer contact:

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[www.KASTurf.com](http://www.KASTurf.com)

**K KOCH**

KOCH AGRONOMIC SERVICES, LLC

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Original

**TURFGRO 12-8-6 STARTER**

- ◆ High Phosphorous in this 50% organic-based fertilizer stimulates root development for rapid establishment of new seedlings
- ◆ **Great for new lawns and overseeding applications**
- ◆ 50 lb. bag
- ◆ Available in ID, OR, WA

**TURFGRO 15-5-10 TEXAS STANDARD**

- ◆ **The #1 turf analysis in Texas, plus non-staining Iron**
- ◆ Provides lawns with deep green color, without excessive shoot growth
- ◆ Great for Iron-loving bermudagrass and St. Augustine grass
- ◆ A 3-1-2 ratio of Nitrogen, Phosphorus and Potassium
- ◆ Performs consistently on all varieties of turfgrass, and under all but the most severe climate conditions
- ◆ 50 lb. bag
- ◆ Available in TX

**TURFGRO 16-0-8 / QUICK GREEN FOR ARID LANDSCAPES**

- ◆ Multi-season fertilizer designed for Western soils
- ◆ Phosphorus-free has less environmental impact and does not encourage new weeds
- ◆ 4% Iron for deep green color without excess flush growth
- ◆ 16% Sulfur to correct alkaline soil
- ◆ Performs consistently on all species of turfgrass, under all but the most severe climate conditions
- ◆ 50 lb. bag
- ◆ Available in CA, ID, OR, NV, WA

**TURFGRO 16-0-8 / QUICK GREEN COASTAL PNW**

- ◆ 100% available Nitrogen and 4% Iron for quick greening in warm weather
- ◆ Lower sulphur content than traditional formula is suitable for Coastal Pacific Northwest soils
- ◆ Phosphorus-free has less environmental impact and does not encourage new weeds
- ◆ 50 lb. bag
- ◆ Available in OR, WA

**TURFGRO 16-0-8 LANDSCAPER**

- ◆ 100% available Nitrogen and 4% Iron for quick greening in warm weather
- ◆ Phosphorus-free has less environmental impact and does not encourage new weeds
- ◆ 50 lb. bag
- ◆ Available in AZ

**TURFGRO 16-6-8 LANDSCAPER**

- ◆ 100% available Nitrogen and 4% Iron for quick turf greenup spring through fall
- ◆ 16% Sulfur to correct alkaline soil
- ◆ 50 lb. bag
- ◆ Available in CA, NV

**TURFGRO 18-18-18 HYDROMULCH FORMULA**

- ◆ 1:1:1 ratio of soluble NPK is ideal for Hydroseeding applications
- ◆ 50 lb. bag
- ◆ Available in TX

**TURFGRO 21-0-7 COOL SEASON**

- ◆ Keeps lawns green throughout fall and winter
- ◆ 10% nitrate Nitrogen: Enough to ensure quick greening of turf in cold weather, with minimal Nitrogen loss from leaching
- ◆ Phosphorus-free reduces concern of run-off and does not encourage new weeds
- ◆ 4% Iron for deep green without excess flush growth
- ◆ Lasts longer than Calcium Nitrate
- ◆ 50 lb. bag
- ◆ Available in AZ, CA, ID, NV, OR, WA

**TURFGRO 21-0-14 COOL SEASON**

- ◆ Keeps lawns green throughout fall and winter
- ◆ **Compare to Turf Royale – Same nitrate nitrogen for quick results in cool temperatures, but with new Wolf Trax Iron for long-lasting green color**
- ◆ Phosphorus-free formula does not encourage winter weed growth or pose a risk for runoff
- ◆ 50 lb. bag
- ◆ Available in AZ

**0-45-0 TRI-SUPER PHOSPHATE**

- ◆ 50 lb. bag

**OTHER TRADITIONAL FERTILIZERS****SULFATE OF POTASH**

- ◆ 0-0-52 OR 0-0-50
- ◆ 50 lb. bag

**POTASSIUM NITRATE 13-0-44**

- ◆ Prilled or Solution Grade

**CALCIUM NITRATE 15-0-0**

- ◆ Prilled or Solution Grade
- ◆ 50 lb. bag 50 lb. bag

**AMMONIUM PHOSPHATE 16-20-0**

- ◆ Standard Grade or Fines
- ◆ 50 lb. bag

**TURF ROYALE 21-7-14**

- ◆ 50 lb. bag

**UREA 46-0-0**

- ◆ 50 lb. bag



### TURFGRO



TurfGro Professional Fertilizers are formulated for your region – your soil, turf and plant needs – and are available exclusively at Horizon! There are 5 types of TurfGro Fertilizer to suit your situation – Look for the **BROWN labels** for **Organic & Natural-Based formulas**, which are ideal for environmentally-sensitive areas or any landscape in need of improved soil biology.

#### TURFGRO 7-2-3

- ◆ A Hybrid Organic product containing synthetic and natural nutrient sources
- ◆ Urea Nitrogen provides quick greening, while SoundGro natural biosolids provide slowly available Nitrogen, a food source for soil microbes, and micronutrients
- ◆ 50 lb. bag
- ◆ Available in CA



#### TURFGRO 8-0-4 ORGANIC

- ◆ **100% organic; comprised of all OMRI Certified inputs**
- ◆ Nitrogen comes from feather meal, and is slow release
- ◆ Appropriate for environmentally sensitive sites
- ◆ **Contains beneficial mycorrhizae, which colonize plant roots and improve uptake of nutrients and water**
- ◆ 40 lb. bag
- ◆ Available in CA, ID, OR, WA



#### TURFGRO 8-1-2 SOIL MD

- ◆ **A 75% Organic fertilizer, powered by Sanctuary protein meal-based organic inputs**
- ◆ 25% of the Nitrogen is available for quick greening
- ◆ Contributes low levels of salts and provides nutrition to stimulate soil bacteria, which results in a more porous soil capable of holding and supplying plants with more water
- ◆ 40 lb. bag
- ◆ Available in AZ, CO, NV, TX



#### TURFGRO 8-4-5 NATURAL BASED

- ◆ A hybrid fertilizer containing nitrogen from natural biosolids and from synthetic ammonium sulfate
- ◆ Provides immediate and some residual feeding
- ◆ **Contains beneficial mycorrhizae, which colonize plant roots and improve uptake of nutrients and water**
- ◆ 50 lb. bag
- ◆ Available in CA, ID, OR, WA



#### TURFGRO 12-4-6 WITH NATURAL BIOSOLIDS

- ◆ 34% slowly-available Nitrogen from SoundGro Natural Organic Biosolids
- ◆ Releases slowly, contains micronutrients, and provides a food source to soil microbes
- ◆ Urea Nitrogen provides quick response in growth and color
- ◆ 50 lb. bag
- ◆ Available in CA



#### TURFGRO 16-20-0 WITH NATURAL BIOSOLIDS

- ◆ **The same NPK analysis as straight Ammonium Phosphate, but with 17% slowly available nitrogen plus minors from SoundGro natural biosolids**
- ◆ New WolfTrax Iron makes grass greener, lasts longer than other iron sources, with little to no stain potential
- ◆ 50 lb. bag
- ◆ Available in CA



#### TURFGRO 18-5-0

- ◆ **If you like Ammonium Sulfate 21-0-0, try this product which adds organic content, phosphorus for root development, iron for color, plus additional micronutrients**
- ◆ 13% slowly available Nitrogen from SoundGro natural biosolids
- ◆ Perfect for regular feeding of lawns, and can be used on shrubs, flowers & vegetable gardens
- ◆ 50 lb. bag
- ◆ Available in CA, NV



#### TURFGRO 21-0-4 ORGANIC + QUICK RELEASE N

- ◆ A Hybrid Organic product containing synthetic and natural nutrient sources
- ◆ **Urea Nitrogen provides quick greening, while 16% slowly available Nitrogen from Sanctuary Feather, Soybean & Cottonseed meals provides a food source for soil microbes**
- ◆ 40 lb. bag
- ◆ Available in TX



#### TURFGRO 23-0-4 ORGANIC + SLOW RELEASE N

- ◆ A Hybrid Organic product containing 3 sources of Nitrogen
- ◆ Urea Nitrogen provides quick greening, while 26% of the Nitrogen is slowly available – **Sanctuary Feather, Soybean & Cottonseed meals are a food source for soil microbes, and Nutralene provides long residual feeding**
- ◆ 40 lb. bag
- ◆ Available in TX





## **SANCTUARY 8-0-4 PROBIOTIC** ✦

- ◆ **50% slow release Nitrogen from Feather, Fish & Blood meals plus beneficial soil bacteria and mycorrhizal fungi**
- ◆ Builds and enhances biological soil activity and aids in the release of organic nutrients
- ◆ Promotes rooting & recovery, and reduces transplant shock
- ◆ Ideal for installation or seeding applications, as well as general maintenance of turf or plants
- ◆ 50 lb. bag

## **SANCTUARY ALL NATURAL 8-3-6** ✦

- ◆ **An all-natural blend of protein meals (feather, fish blood and bone), carbohydrates and Humic Acid**
- ◆ Provides nutrition to stimulate soil bacteria, aiding in nutrient, stress and disease management
- ◆ A low salt, non-burning nutrient source
- ◆ Provides outstanding turf color and density
- ◆ 50 lb. bags in standard grade (200 SGN), greens grade (120 SGN), and super fine (80 SGN)

## **SANCTUARY HYBRID ORGANIC STARTER 8-8-8** ✦

- ◆ A balanced organic fertilizer with protein meals, Urea, and Diammonium Phosphate as nutrient sources
- ◆ Stimulates root development
- ◆ **Great for new construction and landscape installation, spring and fall feeding, or throughout the growing season when balanced feeding is needed**
- ◆ Ideal for shrubs, trees, groundcovers, flowers and turf
- ◆ Standard grade in 50 lb. bag

## **SANCTUARY STRESS LIFE 12-2-12** ✦

- ◆ A blend of protein meals, Urea, and minors for nutrient-depleted soils
- ◆ **1:1 ratio of Nitrogen and low-salt Potassium, ideal for heat and stress tolerance + turf recovery**
- ◆ 50lb. bags in standard and greens grade
- ◆ Standard grade in 50lb. bag

## **SANCTUARY COOL SEASON 14-1-2** ✦

- ◆ A blend of organic and quick-release Nitrate Nitrogen sources plus Iron for color response in cooler weather
- ◆ **Ideal for all turf types to initiate spring color, or for overseeded warm season turf in the winter months**
- ◆ Standard grade in 50 lb. bag

## **SANCTUARY LAWN AND LANDSCAPE 14-2-2** ✦

- ◆ Cost-effective, natural-based fertilizer product for lawn and landscape
- ◆ Organic and traditional ingredient content
- ◆ Use in all seasons:
  - **Spring Energizer** — Cool temperature release
  - **Summer Stress** — Residual color and improved density; Non-burning and low salts
  - **Fall Recovery** — Improved rooting; Aids with spring color
- ◆ Also a great after-aeration product, for enhanced rooting and thatch management
- ◆ Standard grade in 50 lb. bag

## **SANCTUARY 16-2-4** ✦

- ◆ Blends traditional and organic nutrients that promote excellent nutrient availability.
- ◆ Organic protein meals add carbon energy which feed microbes in tired soils, Methylene urea provides residual color and slow, even growth, and Ammonium sulfate provides initial color and growth.
- ◆ 38% slowly available Nitrogen
- ◆ Available in a dust-free fairway grade – a 200 SGN ideal for tee and fairway applications.
- ◆ 50 lb. bag

## **SANCTUARY SYNERGY COLOR 18-2-6** ✦

The Sanctuary's premier granular organic. Combines the release characteristics and benefits of three different Nitrogen sources

- ◆ **Protein meals** for carbon energy and microbial food source
- ◆ **Methylene Urea** for residual color and slow, even growth
- ◆ **Ammonium Sulfate** for initial color and disease management
- ◆ Available in standard grade – 50 lb. bags and 1,000 lb. totes

## **SANCTUARY 24-2-2 FAIRWAY 50#** ✦

- ◆ Blends traditional and organic nutrients that promote excellent nutrient availability.
- ◆ **Organic protein meals stimulate and build microbial populations while polymer coated urea provides extended residual color.**
- ◆ Available in a dust-free fairway grade – a 200 SGN ideal for tee and fairway applications.
- ◆ 50 lb. bag

### MEAL-BASED

#### **BIO-SOL 7-2-3** ★

- ◆ Derived from soybean meal and cottonseed meal
- ◆ 55lb. bag

#### **“PAR 4” 9-3-7** ★ ★

- ◆ **OMRI Listed (Certified Organic) Multi-Purpose Natural Fertilizer**
- ◆ Feather & Bone meals plus mined potassium sulfate provide slowly available Nitrogen plus Calcium, Sulfur and trace elements
- ◆ Contains no manures or compost, is low in heavy metals, and has minimal environmental impact on waterways or aquatic organisms
- ◆ 50 lb. bag

#### **GARDNER & BLOOME 4-5-2 FOR ACID AND SHADE LOVING PLANTS** ★

- ◆ Great for acid & shade loving plants like rhododendron, azaleas & camellias.
- ◆ Made from 100% organic ingredients with quick-released nutrients for great results.
- ◆ Feeds for several months.
- ◆ **OMRI Listed (Certified Organic)**



#### **BLOOD MEAL** ★

- ◆ 50 lb. bag

#### **BONE MEAL** ★

- ◆ 4 lb. bag and 50 lb. bag

#### **COTTONSEED MEAL** ★

- ◆ 55 lb. bag

### BIOSOLIDS AND MANURES

#### **SOUNDGRO 6-7-0** ★

- ◆ 100% organic from biosolids w/minors

#### **MILORGANITE 6-2-0 / 5-2-0** ★

- ◆ 36 lb. bag

#### **RICHLAWN CHICKEN MANURE 5-3-2** ★

- ◆ 40 lb. bag

#### **STEER MANURE** ★

- ◆ 2 cu. ft. bag

### GRANULAR FERTILIZER – COMBO WITH PEST CONTROL

#### WITH PRE-EMERGENT HERBICIDES

#### **TURFGRO**



TurfGro Professional Fertilizers are formulated for your region – your soil, turf and plant needs – and are available exclusively at Horizon! There are 5 types of TurfGro Fertilizer to suit your situation – Look for the **YELLOW bags** for **Combo formulas**, which combine fertilizer with Pest Control products, making it easy to feed turf AND control weeds or insects in ONE step.

#### **TURFGRO 12-4-16 W/ BARRICADE PRE-EMERGENT HERBICIDE**

- ◆ 20% slow release nitrogen provides immediate and residual feeding
- ◆ 0.37% Barricade (Prodiamine) herbicide prevents germination of annual grasses and broadleaf weeds in turf and ornamental plantings for 4 - 6 months
- ◆ **A good fall formulation for preventing Poa annua while building winter stress resistance with high potassium**
- ◆ 50 lb. bag
- ◆ Available in AZ, CA, NV, OR, WA



#### **TURFGRO 15-0-5 W/ DIMENSION PRE-EMERGENT HERBICIDE**

- ◆ Fertilizer with 20% slow release nitrogen provides immediate and residual feeding
- ◆ 0.15% Dimension (Dithiopyr) herbicide prevents germination of annual grasses and broadleaf weeds in turf and ornamental plantings for 4 - 6 months
- ◆ **A good spring formulation that will also control young emerged crabgrass if ideal application window is missed**
- ◆ Phosphorous-free formula does not encourage new weeds
- ◆ 50 lb. bag
- ◆ Available in CA, ID, OR, WA



#### **TURFGRO 15-3-5 W/ DIMENSION PRE-EMERGENT HERBICIDE**

- ◆ 20% slow release nitrogen provides immediate and residual feeding
- ◆ 0.13% Dimension (Dithiopyr) herbicide prevents germination of annual grasses and broadleaf weeds in turf and ornamental plantings for 4 - 6 months
- ◆ **A good spring formulation that will also control young emerged crabgrass if ideal application window is missed**
- ◆ 50 lb. bag
- ◆ Available in AZ, CO, NV



## WITH PRE-EMERGENT HERBICIDES



### **TURFGRO 18-0-6 W/ DIMENSION PRE-EMERGENT HERBICIDE**

- ◆ 40% slow release nitrogen provides immediate greenup and 10+ weeks of extended feeding
- ◆ 0.22% Dimension (Dithiopyr) herbicide prevents germination of annual grasses and broadleaf weeds in turf and ornamental plantings for 4 - 6 months
- ◆ **A good spring formulation that will also control young emerged crabgrass if ideal application window is missed**
- ◆ Phosphorous-free formula does not encourage new weeds
- ◆ 50 lb. bag
- ◆ Available in CA, ID, OR, WA



### **TURFGRO 18-3-6 W/ DIMENSION PRE-EMERGENT HERBICIDE**

- ◆ 40% slow release nitrogen provides immediate greenup and 10+ weeks of extended feeding
- ◆ 0.172% Dimension (Dithiopyr) herbicide prevents germination of annual grasses and broadleaf weeds in turf and ornamental plantings for 4 - 6 months
- ◆ **A good spring formulation that will also control young emerged crabgrass if ideal application window is missed**
- ◆ 50 lb. bag
- ◆ Available in AZ, CO, NV



### **TURFGRO 19-0-7 WITH 0.43% BARRICADE HERBICIDE**

- ◆ Feed Turf + Prevent Weed Germination in 1 Step!
- ◆ **A higher load of Barricade pre-emergent herbicide ensures long-lasting residual weed control – a great fall option for preventing winter and early spring weeds, without breakthroughs**
- ◆ 50 lb. bag
- ◆ Available in TX

### **TURFGRO 22-0-5 WITH 0.37% PRODIAMINE HERBICIDE**

- ◆ Feed Turf + Prevent Weed Germination in 1 Step!
- ◆ **Prodiamine pre-emergent herbicide (Barricade equivalent) is long-lasting – a great fall option for preventing winter and early spring weeds**
- ◆ 50 lb. bag
- ◆ Available in TX

### **TURFGRO 22-0-6 WITH 0.17% DIMENSION HERBICIDE**

- ◆ Feed Turf + Prevent Weeds in 1 Step!
- ◆ **Dimension herbicide will also control early emerged crabgrass, making this a great spring option if ideal application window is missed**
- ◆ 50 lb. bag
- ◆ Available in TX



### **BCF 0-0-7 / .38% BARRICADE HERBICIDE**

- ◆ Potassium fertilizer with .38% Barricade pre-emergent herbicide
- ◆ Barricade herbicide is long-lasting – a great fall option for preventing winter and early spring weeds
- ◆ 50 lb. bag
- ◆ Available in TX

### **BCF 0-0-7 / .22% DIMENSION**

- ◆ Potassium fertilizer with 0.22% Dimension pre-emergent herbicide
- ◆ Dimension herbicide will also control early emerged crabgrass, making this a great spring option if ideal application window is missed
- ◆ 50 lb. bag
- ◆ Available in TX

### **BCF 0-0-7 W/ PENDULUM PRE-EMERGENT HERBICIDE**

- ◆ Potassium fertilizer with 0.86% Pendulum pre-emergent herbicide
- ◆ Four to six months control of crabgrass as well as other annual grasses and broadleaf weeds common in lawns
- ◆ 50 lb. bag
- ◆ Available in TX

### WITH PRE-EMERGENT HERBICIDES

**SPREAD IT & FORGET IT™**  
for greener turf all season long

#### **SIFI 35-0-7 WITH 0.1% DIMENSION HERBICIDE (NORTHERN BLEND)**

- ◆ **An advanced, high-efficiency fertilizer PLUS Dimension pre-emergent herbicide provides season-long feeding of turf and prevents the germination of annual weeds**
- ◆ Formulated to give turf consistent feeding for 6 months or more with just 1 application – saving you time, labor and money, while reducing environmental impact
- ◆ Combines 4 variations of Duration controlled-release Nitrogen, which release at various temperatures
- ◆ **Northern Blend contains a higher percentage of Duration that will release in cooler temperatures**
- ◆ Dimension herbicide will also control early emerged crabgrass, making this a great spring option if ideal application window is missed
- ◆ No need to worry about growth flushes or nitrogen runoff from excessive moisture
- ◆ Coating is very durable, so granules stand up to rough handling
- ◆ 50 lb. bag



#### **SIFI 37-0-5 WITH 0.125% DIMENSION (SOUTHERN BLEND)**

- ◆ **An advanced, high-efficiency fertilizer PLUS Dimension pre-emergent herbicide provides season-long feeding of turf and prevents the germination of annual weeds**
- ◆ Formulated to give turf consistent feeding for 6 months or more with just 1 application – saving you time, labor and money, while reducing environmental impact
- ◆ Combines 4 variations of Duration controlled-release Nitrogen, which release at various temperatures
- ◆ **Southern Blend contains a higher percentage of Duration that will release once warmer temperatures are achieved, and a higher load of Dimension to match the longer weed germination season**
- ◆ Dimension herbicide will also control early emerged crabgrass, making this a great spring option if ideal application window is missed
- ◆ No need to worry about growth flushes or nitrogen runoff from excessive moisture
- ◆ Coating is very durable, so granules stand up to rough handling
- ◆ 50 lb. bag



### WITH POST-EMERGENT HERBICIDES

**TURFGRO**



#### **TURFGRO 15-0-5 WITH SURGE BROADLEAF HERBICIDE**

- ◆ **Feed Turf & Remove Unsightly Broadleaf Weeds in 1 Step!**
- ◆ **Reduced labor means more profit to your bottom line**
- ◆ 20% Slow Release Nitrogen from XCU polymer coated-sulfur coated urea, for uniform growth and sustained feeding
- ◆ Phos-Free Formulation does not encourage weeds
- ◆ Surge® herbicide (2,4-D + MCPP + dicamba + sulfentrazone) removes Dandelion, Chickweed, Plantain, Clover and other Broadleaf Weeds from Turf FAST!
- ◆ Great for spring & fall, or any time broadleaf weeds are present and actively growing
- ◆ 50 lb. bag
- ◆ Available in CA, ID, OR, WA



#### **TURFGRO 15-3-5 W/ VIPER BROADLEAF HERBICIDE**

- ◆ Fertilizer with 20% slow release nitrogen provides immediate and residual feeding
- ◆ 1.56% Viper herbicide (2,4-D ester, 2,4-D acid, MCPP and dicamba) provides post-emergent control on a range of common broadleaf weeds including dandelion, plantain, henbit, chickweed, spurge, and even hard to kill weeds like clover and ground ivy.
- ◆ **Longer feeding, heavier herbicide load, and better results compared to common fertilizers with Trimec**
- ◆ 50 lb. bag
- ◆ Available in AZ, CO, NV



#### **TURFGRO 16-0-8 ST. AUGUSTINE WEED & FEED WITH 0.92% ATRAZINE**

- ◆ Fertilize and control weeds in sensitive turf in 1 step!
- ◆ **Atrazine herbicide controls emerged broadleaf weeds and prevents new weed seeds from germinating, without damaging sensitive St. Augustine and Centipedegrass**
- ◆ 50% slowly available Nitrogen from XCU polymer coated-sulfur coated urea, for uniform growth and sustained feeding
- ◆ Minors package provides color for turf that can otherwise experience temporary yellowing from an herbicide application
- ◆ 50 lb. bag
- ◆ Available in FL





## WITH POST-EMERGENT HERBICIDES



### **TURFGRO 16-3-4 WEED & FEED WITH 0.53% TRIMEC**

- ◆ **Feed Turf & Remove Unightly Broadleaf Weeds in 1 Step!**
- ◆ **Reduced labor means more profit to your bottom line**
- ◆ Trimec® herbicide (2,4-D + MCPP + dicamba) removes a wide range of broadleaf weeds, including Dandelion, Chickweed, Knotweed, Plantain, Henbit and Spurge
- ◆ Great for spring & fall, or any time broadleaf weeds are present and actively growing
- ◆ 50 lb. bag
- ◆ Available in TX

### **TURFGRO 25-3-5 ST. AUGUSTINE WEED & FEED WITH 1.15% ATRAZINE**

- ◆ Fertilize and control weeds in sensitive turf in 1 step!
- ◆ **Atrazine herbicide controls emerged broadleaf weeds and prevents certain weeds such as Crabgrass, Paspalums and Spotted Spurge—without damaging sensitive St. Augustine and Centipedegrass**
- ◆ 50 lb. bag
- ◆ Available in TX

## WITH PRE & POST-EMERGENT HERBICIDES



### **HJE 20-0-2 WITH CUATRO**

- ◆ **Feed Turf + Control Existing Broadleaf Weeds + Prevent New Weeds in 1 Step!**
- ◆ High quality weed & feed fertilizer contains 4 powerful herbicides for post broadleaf weed control and pre AND post-emergent control of grassy weeds
- ◆ 20% slowly available Nitrogen from XCU Polymer Coated-Sulfur Coated urea, for uniform growth and sustained feeding
- ◆ Safe for use on established cool season turf (except bentgrass or annual bluegrass) as well as Bermuda, Zoysia and Buffalograss.
- ◆ Do not use on St. Augustinegrass
- ◆ 50 lb. bag

## WITH INSECTICIDE



### **TURFGRO 17-0-6 WITH 0.225G ALLECTUS INSECTICIDE**

- ◆ **Feed Turf + Control Insects in 1 Step!**
- ◆ Turf formula fertilizer with 27% slowly available Nitrogen from XCU polymer-sulfur-coated urea
- ◆ **Contains Allectus insecticide – an innovative new tool for insect control both above and below the ground**
- ◆ Controls all major surface feeding and subsurface insects, including Chinch Bugs, Mole Crickets, Fire Ants, Grubs, Sod Webworms, Aphids, Armyworms and more
- ◆ Because Allectus controls multiple insect stages, turf managers have a wide window of application for convenient management options
- ◆ 50 lb. bag
- ◆ Available in FL



### **TURFGRO 22-0-8 WITH 0.069% BIFENTHRIN INSECTICIDE**

- ◆ **Feed Turf + Control Insects in 1 Step!**
- ◆ Turf formula fertilizer with 30% slowly available Nitrogen from XCU polymer-sulfur-coated urea
- ◆ Contains Bifenthrin insecticide, which controls many surface feeding insects, including Ants, Chinch Bugs, Billbugs, Cutworms and Leafhoppers
- ◆ 50 lb. bag
- ◆ Available in TX



## OTHER FERTILIZER WITH INSECTICIDE



### **HJE 8-0-0 WITH 0.069% BIFENTHRIN INSECTICIDE**

- ◆ 100% available Nitrogen plus Insect control in 1 product
- ◆ Contains Bifenthrin insecticide, which controls many surface feeding insects, including Ants, Chinch Bugs, Billbugs, Cutworms and Leafhoppers
- ◆ 50 lb. bag



TurfGro Professional Fertilizers are formulated for your region – your soil, turf and plant needs – and are available exclusively at Horizon! There are 5 types of TurfGro Fertilizer to suit your situation – Look for the **PINK** labels for **Ornamental Plant formulas**, which provide the perfect balance of nutrients to support healthy trees, shrubs, flowers and other landscape plantings.

### **TURFGRO 8-2-10 HIGH IRON**

- ◆ **A fertilizer suitable for both Turf and Palms, or in other landscape situations where high Iron and other micronutrients are needed**



- ◆ 50% slowly available Nitrogen from XCU polymer coated-sulfur coated urea
- ◆ 50 lb. bag
- ◆ Available in FL

### **TURFGRO 8-2-12 PREMIUM PALM WITH KIESERITE**

- ◆ Specialty fertilizer formulated with a complete minors package to meet the needs of palms and other tropical plants
- ◆ **Contains Kieserite – A controlled-release Magnesium source, which is university recommended to treat Magnesium deficiencies common in palms**
- ◆ Nitrogen, Phosphorus and Potassium sources are polymer-coated, ensuring sustained feeding and low burn potential
- ◆ 50 lb. bag
- ◆ Available in FL

### **TURFGRO 9-9-9 HIGH IRON**

- ◆ A balanced fertilizer with 11% Iron and 11% Sulfur for acid-loving plants like Azaleas, Camellias, Rhododendrons, Roses and Evergreens
- ◆ **High Iron helps to overcome Chlorosis (yellowing of the leaves) and with the formation of chlorophyll for greener plants**
- ◆ Acidifying fertilizer to improve alkaline Western soils
- ◆ 50 lb. bag
- ◆ Available in AZ, CA, CO, ID, NV, OR, TX, WA

### **TURFGRO 13-5-13 PALM AND TROPICAL**

- ◆ **Specialty fertilizer formulated for the needs of palms, other tropical plants, citrus and annual color beds**
- ◆ Slow release Nitrogen from Methylene Urea provides three months of extended feeding
- ◆ Contains a complete package of essential micronutrients, including Magnesium, Iron, Manganese, and Zinc
- ◆ Apply two to four times per growing season
- ◆ 50 lb. bag
- ◆ Available in AZ, CA, NV, TX



### **TURFGRO 14-14-14 PLANT PRO PLUS**

- ◆ A premium balanced plant food with micronutrients and over 60% of the Nitrogen from Nitroform
- ◆ Provides uniform growth and sustained feeding for six to twelve months
- ◆ **Does not encourage flush growth like 100% available fertilizers, which can encourage insect activity**
- ◆ **Perfect for trees, shrubs, evergreens, flowers, vegetables, ferns, potted plants, ground cover, and bulbs**
- ◆ 50 lb. bag
- ◆ Available in CA, CO, OR, TX, WA



### **TURFGRO 14-14-14 PLANT PRO PLUS**

- ◆ A premium balanced plant food with micronutrients and slowly available Nitrogen from Nutralene
- ◆ Provides uniform growth and feeding for 3+ months
- ◆ **Does not encourage flush growth like 100% available fertilizers, which can encourage insect activity**
- ◆ **Contains a complete package of essential micronutrients important for development of healthy tree, shrubs and other landscape plantings**
- ◆ 50 lb. bag
- ◆ Available in FL, MD, VA



### **TURFGRO 14-18-14 ANNUAL BOOSTER**

- ◆ **Specialty fertilizer formulated for the needs of annuals**
- ◆ 65% slow release Nitrogen ensure development of annuals even in cooler conditions
- ◆ Includes extensive micronutrient package From Wolf Trax
- ◆ **Compare to Osmocote**
- ◆ 50 lb. bag
- ◆ Available in CA, OR, WA



### **TURFGRO 15-15-15 PLANT PRO**

- ◆ Uniform 1:1:1 ratio of 100% available Nitrogen, Phosphorous, & Potash, plus Sulphur for balanced feeding
- ◆ High phosphate and potash stimulate root development at planting of new turf seed and ornamentals
- ◆ Great for spring and fall feeding of shrubs, trees and groundcovers
- ◆ 50 lb. bag
- ◆ Available in AZ, CA, CO, NV, TX

### **TURFGRO 16-16-16**

- ◆ Uniform 1:1:1 ratio of 100% available Nitrogen, Phosphorous, & Potash, plus Sulphur for balanced feeding
- ◆ High phosphate and potash stimulate root development at planting of new turf seed and ornamentals
- ◆ Great for spring and fall feeding, or throughout the growing season when balanced feeding is needed
- ◆ Ideal for shrubs, trees, groundcovers, flowers and turf
- ◆ 50 lb. bag
- ◆ Available in ID, OR, WA

## OTHER ORNAMENTAL PLANTS

### 18-6-12 ORNAMENTAL

- ◆ For use on trees, shrubs, evergreens, flowers, vegetables, ferns, potted plants, ground cover, bulbs, and all turfgrasses mowed at one half inch or higher
- ◆ 100% Nitrogen is from Nitroform, providing uniform growth and sustained feeding
- ◆ 50 lb. bag

## GRANULAR FERTILIZER – GREENS GRADE

### K-MAG 0-0-22

- ◆ Properly balanced potassium (K), magnesium (Mg) and sulfur (S) in a highly available water-soluble form.
- ◆ 50 lb. bag

### SULFATE OF POTASH 0-0-50

- ◆ An excellent high-potassium and sulfate sulfur source, with virtually no chloride and one of the lowest salt indexes of any potassium fertilizer
- ◆ 50 lb. bag

### MAP 11-52-0

- ◆ With its low pH levels, it is best used for high-alkaline soils at planting
- ◆ It is an ideal starter fertilizer because MAP contains less ammonia-nitrogen than DAP, reducing potential seed damage
- ◆ 50 lb. bag

See Organic Greens Grade Fertilizers on page 337

### COLOR STAR 19-13-6

- ◆ Plant Food formulated to increase bloom quality, size and number in all flowering plants
- ◆ Provides immediate results and residual feeding for up to 4 months
- ◆ Perfect for annuals, perennials, bulbs and flowering shrubs
- ◆ 25 lb bag



### 13-2-13 GREENS GRADE + MICROS

- ◆ 100% of N: Immediately Available From Ammonium Sulfate and Ammonium Phosphate
- ◆ 100% of K: Sulfate of Potash
- ◆ Contains plant-available micronutrients (B, Cu, Fe, Mn, Mo, Zn) to correct and prevent deficiencies
- ◆ 50 lb. bag

### 18-4-18 GREENS GRADE + MICROS

- ◆ 50% of N: Immediately Available From Urea and Ammonium Phosphate
- ◆ 50% of N: From Methylene Urea
- ◆ 100% of K: Sulfate of Potash
- ◆ Contains plant-available micronutrients (B, Cu, Fe, Mn, Mo, Zn) to correct and prevent deficiencies
- ◆ 50 lb. bag



We also offer a selection of fertilizers for Maryland and Virginia areas.

Contact your local store for more information.

## LIQUID FERTILIZER – GREENS GRADE

### GROWTH PRODUCTS 0-0-25

#### LIQUID POTASSIUM SOLUTION

- ◆ 100% soluble Potassium for immediate plant uptake
- ◆ It can be used throughout the growing season to correct soil deficiencies, and as a fall fertilization product to improve stress tolerance
- ◆ 2.5 gal. jug and 30 gal. drum



### GROWTH PRODUCTS 0-29-26 TKO PHOSPHITE

- ◆ Phosphite is a form of Phosphorus that is highly available to plants, unlike other forms which can become bound in soil
- ◆ When applied as a foliar spray, "TKO" Phosphite quickly enters turf through the leaves, crowns and roots
- ◆ It moves through both xylem and phloem, and quickly increases root mass and improves turf vigor
- ◆ Applications of "TKO" Phosphite have been shown to significantly reduce summer stress on turf
- ◆ 2.5 gal. jug and 30 gal. drum



### GROWTH PRODUCTS 0-30-0

#### LIQUID PHOSPHORUS SOLUTION

- ◆ 100% soluble form of Phosphate used to improve root growth or correct soil deficiencies
- ◆ It can also be used as a buffer-activator by lowering the pH of pesticide solutions to a more effective level of acidity
- ◆ 2.5 gal. jug



### GROWTH PRODUCTS RECOVER RX 3-18-18

- ◆ A salicylic acid + phosphorus blend formulated to improve plant growth and development
- ◆ Helps bring trees and plantings out of stress and decline, and rejuvenate from damage
- ◆ 2.5 gal jug





### **GROWTH PRODUCTS 6-12-12 AUTUMN CARE**

- ◆ In the fall, deciduous trees and shrubs need a low Nitrogen, high Phosphorus, high Potassium fertilizer
- ◆ **Autumn Care 6-12-12 will prepare trees and shrubs for the stresses of winter, and improve rooting and carbohydrate reserves**
- ◆ Its 40% slow release Nitrogen from Methylene Diurea provides excellent residual release, will not leach or volatilize, and will remain in the soil for spring uptake
- ◆ 2.5 gal. jug



### **GROWTH PRODUCTS 7-2-21 K-BUILDER**

- ◆ Formulated for year-round application and provides the ideal ratio of Potash to Nitrogen to improve stress tolerance from traffic, drought, and winter
- ◆ 50% slow release Nitrogen from Methylene Urea
- ◆ 2.5 gal. jug and 30 gal. drum



### **GROWTH PRODUCTS 8-32-5 STARTER PLUS**

- ◆ **A high Phosphorus solution, ideal for newly seeded areas**
- ◆ Starter Plus provides a continuous steady source of Nitrogen from Methylene Urea along with quickly available Nitrogen to promote top growth with limited thatch formation
- ◆ Both the P and K are readily available to assure good rooting.
- ◆ 2.5 gal. jug



### **GROWTH PRODUCTS 10-10-10 TRIPLE TEN**

- ◆ A perfect balance of Nitrogen (40% slow release), Phosphorus, and Potassium
- ◆ Ideal for annual and perennial beds, new seeding, or wherever equal amounts of N-P-K are needed
- ◆ 1 qt. and 2.5 gal. jugs



### **GROWTH PRODUCTS 12-4-12 PALM PRO**

- ◆ Formulated for all tropical landscape plants and turf
- ◆ Contains the Magnesium, Manganese, other micronutrients, Organic Humic Acids and sugars that Palms need to thrive
- ◆ 60% Smart Nitrogen feeds for 3 – 4 months
- ◆ 100% chelated micronutrients deliver fast greening results
- ◆ 2.5 gal jug



### **GROWTH PRODUCTS 15-2-15 PRO-BALANCE**

- ◆ Equal ratio of Nitrogen (50% slow release) and soluble, readily available Potassium for immediate plant uptake
- ◆ **Potassium thickens cell walls and builds disease resistance, and is known to improve winter hardiness in turfgrass**
- ◆ 2.5 gal. jug and 30 gal., 55 gal. drums



### **GROWTH PRODUCTS 15-8-4 ARBOR CARE**

- ◆ Arbor Care 15-8-4 with 40% Slow Release Nitrogen Plus micronutrients is an **ideal product for feeding trees and shrubs**
- ◆ Applied from early spring to early summer, Arbor Care 15-8-4 provides evergreens of all types with an excellent ratio of Nitrogen, Phosphorous and Potassium
- ◆ It also contains four fully chelated micronutrients (Cu, Fe, Mn, and Zn) which are necessary for tree health and are immediately available for plant uptake
- ◆ 2.5 gal. jug



### **GROWTH PRODUCTS 18-3-6 THE CLASSIC** ✦

- ◆ 50% SRN Plus Micronutrients
- ◆ Safe and easy to apply through traditional spray applicators or through fertigation, 18-3-6 provides a perfect balance of quick-release Nitrogen for fast green-up and slow release Nitrogen for continuous, steady feeding without flush growth
- ◆ 2.5 gal. jug and 30 gal., 55 gal. drums



### **GROWTH PRODUCTS 18-3-6 PRO FORMANCE ULTRA** ✦

- ◆ A complete package in a single bottle, Pro-Formance Ultra not only provides N-P-K in an 18-3-6 analysis, but five essential micronutrients: Calcium, chelated Iron, Manganese, Magnesium and Zinc
- ◆ **It also contains multiple organic enhancers — Humic Acid, L-amino acids, kelp and yucca extracts, and hydrolyzed soy protein — all powerhouses when it comes to plant development and soil improvement**
- ◆ 2.5 gal. jug



### **GROWTH PRODUCTS 18-6-12**

- ◆ Provides a balance of quick release Nitrogen for initial green-up and 60% slow release Nitrogen for a continuous steady feeding
- ◆ 18-6-12 contains Methylene Urea from Nitro-30, which resists leaching and provides a release over 8 to 12 weeks
- ◆ 2.5 gal. jug and 30 gal. drum



### **GROWTH PRODUCTS 20-3-3 QUICK RESPONSE**

- ◆ General purpose turf fertilizer, with most of the Nitrogen available for immediate uptake and quick green-up, and 20% as Methylene Urea for residual feeding
- ◆ 2.5 gal. jug and 55 gal. drum



**GROWTH PRODUCTS 22-0-0 AMMOS**

- ◆ AMMOS contains 40% Smart Nitrogen™ slow release Nitrogen and 60% quick release Nitrogen, providing the benefits of a rapid green-up and then a slow, continuous feed of Nitrogen
- ◆ It also contains immediately available Sulfur and Sulfur with longer-term release, which is ideal for reducing the pH of alkaline soils
- ◆ 55 gal. drum

**GROWTH PRODUCTS 22-0-16 NITRO+K**

- ◆ 82% slow release Nitrogen with Potassium Carbonate
- ◆ This concentrated solution provides the most efficient and reliable sources of Nitrogen and Potassium, resists leaching and volatilization, and provides a food source for soil microbes
- ◆ 2.5 gal. jug and 30 gal., 55 gal. drums

**GROWTH PRODUCTS 30-0-0 NITRO-30 SRN**

- ◆ **Known as the Smart Nitrogen™**, Nitro-30 SRN (30-0-0) provides rapid correction of Nitrogen deficiencies and gives steady, even feeding without harmful surge growth. It also acts as a sticker/spreader, so it will not be washed away by rain or irrigation; will not leach or volatilize, making it good for the environment and good for your bottom line; and does not contribute to thatch build-up associated with fast release Nitrogen products
- ◆ **With Nitro-30 SRN you can get healthier, greener turf, all while saving time, labor and money**
- ◆ 2.5 gal. jug and 30 gal., 55 gal. drums, 275 gal. tote

**PLANT FOOD CO 10-10-10**

- ◆ A perfect balance of Nitrogen, Phosphorus, and Potassium, plus Sulfur and micronutrients
- ◆ Ideal for annual and perennial beds, new seeding, or wherever equal amounts of N-P-K are needed
- ◆ 2.5 gal. jugs

**PLANT FOOD CO 12-3-12**

- ◆ Equal ratio of Nitrogen and Potassium, plus Sulfur and micronutrients
- ◆ 50% of Nitrogen is slow release
- ◆ Potassium thickens cell walls and builds disease resistance, and is known to improve winter hardiness in turfgrass
- ◆ 2.5 gal. jug

**PLANT FOOD CO 10-4-6**

- ◆ Nitrate, Ammoniacal, and Urea Nitrogen for quick green-up and residual growth, plus Sulfur and micronutrients
- ◆ 2.5 gal. jug

**PLANT FOOD CO 18-3-6**

- ◆ Complete liquid fertilizer with 50% slow release Nitrogen, Sulfur, and micronutrients
- ◆ Ideal for all types of turf, as well as trees and shrubs
- ◆ 2.5 gal. jug

**LIQUID FERTILIZERS – IRON****GROWTH PRODUCTS 6-0-0 X-TRA IRON 10%**

- ◆ **X-TRA Iron 6-0-0 contains more Iron than the closest competitive product on the market**
- ◆ It provides 100% soluble, chelated Iron in an immediately available form, and with its low Nitrogen to Iron ratio, it provides rapid green-up without any harmful surge growth
- ◆ **It's a difference you can see in just 24 hours! X-TRA Iron is formulated with citric acid as the chelating source, which is quickly absorbed through plant tissue for correction of Iron deficiency and Chlorosis**
- ◆ 2.5 gal. jug and 30 gal., 55 gal. drums

**GROWTH PRODUCTS 15-0-0 IRON MAX AC 6%**

- ◆ 15% Nitrogen solution with 6% chelated Iron and 2% chelated Manganese, plus 3.5% Sulfur
- ◆ Can be used for regular turf maintenance to enhance green color and promote strong root systems in high traffic areas and stress conditions
- ◆ 2.5 gal. jug and 30 gal., 55 gal. drums







### **GROWMORE 12-0-0 FERTA-MIC MN**

- ◆ 12% Nitrogen solution with 6% chelated Iron and 2% chelated Manganese, plus 4% Sulfur
- ◆ Can be used for regular turf maintenance to enhance green color and promote strong root systems in high traffic areas and stress conditions
- ◆ 2.5 gal. jug and 30 gal., 55 gal. drums, 275 gal. tote



### **FERROMECH 15-0-0 LIQUID IRON COMPLEX**

- ◆ 15% Nitrogen solution with 6% Iron and 4% Sulfur from ferrous Sulfate
- ◆ Corrects Chlorosis and gives turf a dark green color
- ◆ 2.5 gal. jug

## LIQUID FERTILIZERS – MICRONUTRIENTS & SPECIALTY



### **GROWTH PRODUCTS 5-0-0 MICREL TOTAL**

- ◆ 5% Nitrogen with a complete micronutrient package — Sulfur, Magnesium, Boron, Copper, Iron, Manganese, Molybdenum, and Zinc
- ◆ Treats overall micronutrient deficiencies and aids in resistance to disease, winter desiccation, and tolerance to stress
- ◆ 2.5 gal. jug



### **GROWTH PRODUCTS 6-0-0 CAL-TEC CALCIUM GLUCOHEPTONATE 9%**

- ◆ A unique sugar acid chelate that forms a 100% soluble Calcium/Nitrogen solution
- ◆ Calcium is essential for plant membrane integrity, proper cell division, and overall plant vigor and stiffness
- ◆ It also improves soil structure by reducing salt build-up and soil compaction
- ◆ 2.5 gal. jug



### **GROWTH PRODUCTS 7-0-3 CAL MAG MAX**

- ◆ Chelated Calcium and Magnesium from Glucoheptonates
- ◆ Corrects Calcium to Magnesium ratio in plant tissues, which is important for sugar formation
- ◆ Also strengthens cell walls and aids in utilization of other nutrients
- ◆ 2.5 gal. jug



### **GROWTH PRODUCTS MAGNESIUM CHELATE 3%**

- ◆ An organic Glucoheptonate (sugar acid) chelate that provides magnesium in soluble form, making it readily available for both soil and foliar application
- ◆ Corrects Magnesium deficiencies in turf and ornamentals, and assists in chlorophyll production
- ◆ 2.5 gal. jug



### **GROWTH PRODUCTS MANGANESE CHELATE 5%**

- ◆ An organic Glucoheptonate (sugar acid) chelate with 2% Sulfur
- ◆ Corrects Manganese deficiencies and assists in enzyme formulation
- ◆ 2.5 gal. jug



### **GROWTH PRODUCTS 0-2-5 GREEN-SPEED SI**

- ◆ 7% Potassium Silicate, with Phosphate and 2% Humic Acid
- ◆ Green Speed Si (0-2-5) is a proprietary liquid formula that combines silica, Potassium Phosphate, and Humic Acid to give both a faster ball roll and healthier turf
- ◆ 2.5 gal. jug



### **GROWMORE 0-0-3 SILO TEC**

- ◆ Soluble Silicate solution that increases turf turgidity and resistance to disease, heat and drought
- ◆ 2.5 gal. jug

### **PLANT FOOD CO SUGAR CAL CALCIUM 10%**

- ◆ A unique sugar Calcium Acetate that when used in a program with other nutrients, makes the other nutrients more available to the plant
- ◆ Increased nutrient absorption improves plant turgidity and vigor
- ◆ 2.5 gal. jug



### **PLANT FOOD CO 1-0-0 MICRO MIX**

- ◆ A complete foliar micronutrient liquid that enters the plant within 12 hours
- ◆ The small amount of Nitrogen aids in foliar absorption of the micronutrients
- ◆ 2.5 gal. jug

**SANCTUARY K PLUS** ✦

- ◆ Contains multiple potassium sources to improve turf's wear and stress tolerance
- ◆ Low salt index, no chlorides
- ◆ Rich in carbohydrates to feed soil microbes
- ◆ 2.5 gal. jug

**SANCTUARY POLYSACCHARIDES** ✦

- ◆ Deliver micronutrients using "Activated Carbohydrate Technology" (ACT) – **ACT polysaccharides protect the micronutrients and control their release rate** into the soil through microbial breakdown, while also enhancing the proliferation of beneficial bacteria in the soil

Product	Description
Micro Turf ME – 2.5 gal	Iron, Manganese, Zinc, Copper, Silicate
Iron ME – 2.5 gal	Iron 5.5%
Synergy ME – 2.5 gal	Iron, Manganese, Zinc, Silicate
Vigor ME – 2.5 gal	Magnesium, Manganese, Silicate
Vitality ME – 2.5 gal	Nitrogen, Calcium, Silicate

**GROWTH PRODUCTS ORGANIC IRON 5%** ✦

- ◆ A new organic chelate made from a Glucoheptonate (naturally fermented sugar acid) chelating agent
- ◆ A very stable chelate that will remain available longer than other types
- ◆ **Perfect for plants in high pH soils that are showing signs of Iron deficiency**
- ◆ **Non-staining**
- ◆ 2.5 gal jug, 30 gal. drum

**GROWTH PRODUCTS MICRO-GREEN ORGANIC CHELATE** ✦

- ◆ An organic Glucoheptonate (sugar acid) chelate with Iron, Manganese, Copper, Zinc, and Sulfur to correct compound deficiencies
- ◆ Perfect for high-pH soils where minor nutrients often become unavailable to plants
- ◆ 2.5 gal. jug

**FISH EMULSION 5-1-1**

- ◆ 1 gal jug

**WATER SOLUBLE FERTILIZERS – INORGANIC FORMULA****10-20-30**

- ◆ **Fall Formula**
- ◆ High Potassium to build winter stress tolerance
- ◆ 5 lb. and 25 lb. bags

**25-15-10**

- ◆ **Spring formula**
- ◆ Moderate to high Phosphorous to encourage root growth and budding
- ◆ 5 lb. and 25 lb. bags

**28-8-18**

- ◆ **Summer Formula**
- ◆ High Nitrogen for growing season
- ◆ 5 lb. and 25 lb. bags

**10-52-10**

- ◆ High Phosphorus root starter, ideal for deficiency correction or as a young plant starter
- ◆ 25lb. bag

**20-10-20**

- ◆ Contains 60% Nitrate Nitrogen, 40% Ammoniacal Nitrogen
- ◆ Fast acting in foliar sprays or liquid fertilizer injector systems
- ◆ Designed for cool temperature climates when plants need extra vigor and growth
- ◆ May also be used in soil-less growing media
- ◆ 25lb. bag

**Recommended for use with the EZ-FLO Injection System.**

**For more information, please see page 98.**



### 20-20-20

- ◆ Balanced Formula — All purpose, balanced, high analysis formula for all field or greenhouse grown ornamental or agricultural crops
- ◆ Appropriate starter fertilizer, or for wherever equal amounts of NPK are needed
- ◆ 25lb. bag

### 30-10-10

- ◆ High Nitrogen formula especially designed for foliar sprays
- ◆ 84% of the Nitrogen is Low Biuret Urea for long lasting effects
- ◆ May be combined with insecticides or fungicides
- ◆ Popular for spring applications, providing that extra Nitrogen boost
- ◆ 25lb. bag

### SEQUESTAR 7% IRON CHELATE

- ◆ A fully chelated, water soluble, powdered form of Iron recommended for the prevention and correction of Iron deficiency
- ◆ Dissolve in water or fluid fertilizer, or dry blend with other water soluble fertilizers
- ◆ For trees or individual plants, the chelate may be blended with an inert (such as soil or sand) or sprinkled directly on the soil uniformly under the plant's drip line, then watered in
- ◆ May also be used in fertigation systems
- ◆ 5lb. bag



## WATER SOLUBLE FERTILIZERS – ORGANIC FORMULA



### MICRO-TURF MICRONUTRIENTS ★

- ◆ A blend of micronutrients (Zinc, Manganese, Copper), including high (10%) Iron content for exceptional turf color
- ◆ Contains Silicate, which builds cell wall thickness for tolerance to heat and traffic
- ◆ Enriches the soil with carbohydrates for microbial stimulation
- ◆ 24 lb. case

### SYNERGY MICRONUTRIENTS ★

- ◆ A blend of Zinc and Manganese for disease management
- ◆ Contains Silicate, which builds cell wall thickness for tolerance to heat and traffic
- ◆ Enriches the soil with carbohydrates for microbial stimulation
- ◆ 24 lb. case

## OTHER FERTILIZER



### TURFGRO GROPAKS 20-10-5 + MINORS

- ◆ Gradual release of Nitrogen for up to 12 months
- ◆ Perfect at time of planting, to improve chances of survival and reduce call-backs
- ◆ **More efficient nutrient supply than from competitor tablets**
- ◆ Nutrients only supplied when conditions are ideal for growth
- ◆ Biodegradable packet
- ◆ 100 count and 500 count boxes

### PALM TREE FERTILIZER SPIKES

- ◆ Feed uniformly for up to 12 months and can be installed any time of the year

# COMPLETE SOLUTIONS FOR LANDSCAPERS & TURF MANAGERS



## Essential® Plus 1-0-1

- Soil Amendment & Root Biostimulant
- Boosts Seed Germination
- Adds Organic Matter to Poor Soils
- Serves as a Food Source for Soil Microbes
- Reduces Compaction and High Salts

## The Landscaper's BioNutrition™ 3-0-3

- Conditions Soil Structure
- Improves Water Retention
- Stimulates Root Growth
- Adds Important Carbon to Soil
- Provides Slow Release Nitrogen



Fertilizers  
Micronutrients  
Biological Fungicide

### PRIMERA ONE APEX-10

- ◆ **Proprietary peat humic bio-stimulant**, that is in its most active state compared to humic acids extracted from coal-based products such as Leonardite & lignite
- ◆ Provides **fertilizer and irrigation reduction** by up to 66% and 30% respectively
- ◆ Cuts plant loss rate due to transplant shock by 50% or more
- ◆ Treated plants have a greater ability to maintain root mass and visual quality during periods of drought
- ◆ Stimulates soil microbe population and increases soil's nutrient retention
- ◆ **Return on Investment through decreased fertilizer & irrigation expenses, labor costs, plant & sod replacements, and the ability to bring turf to maturity faster**
- ◆ OMRI Listed
- ◆ ½ gal, 1 gal and 2.5 gal jugs



### MYCORRHIZAL APPLICATIONS, INC.

From the Greek translation "fungus-roots," mycorrhizae are beneficial fungi that attach themselves to plant roots and create a mutually beneficial relationship between themselves and the plant. The fungus mines for nutrients, minerals and water that benefit the plant, while the plant provides the fungus with essential sugars to fuel its own growth. **Mycorrhizal fungi literally become extensions of the root system, allowing more effective nutrient and water absorption.** The results – Stronger, healthier plants below and above the ground, and a reduced requirement for fertilizer inputs.



### LANDSCAPER'S BIONUTRITION

#### 3-0-3 GRANULAR

- ◆ **Use in new construction sites, to properly prepare soils and ensure that expensive plant materials will survive the stress of transplanting**
- ◆ Contains Yucca, Humic Acid, Kelp, Beneficial Bacteria, Endo- and Ecto-Mycorrhizae, Organic Polymer Gel and Slow Release Nitrogen
- ◆ It will:
  - Condition soil structure
  - Stimulate root growth
  - Introduce valuable soil microbes
  - Colonize soils with mycorrhizal fungi
  - Improve a soil's water retention
- ◆ 8oz packets, 5 lb and 20 lb bulk sizes

### MYCOAPPLY® ULTRAFINE ENDO

- ◆ Four-species of Endomycorrhizae
- ◆ 130,000 propagules per pound
- ◆ Fine powder formulation – Can pass #70 screen
- ◆ **Apply to grass seed as a dust prior to planting, use in water-in (drench) applications, or for hydroseeding**
- ◆ 20 lb. bag



### MYCOAPPLY® ENDO

- ◆ Four-species of Endomycorrhizae
- ◆ 60,000 propagules per pound
- ◆ **Granular formulation is great for broadcast lawn applications, transplanting of trees & shrubs, and hydroseeding**
- ◆ 40 lb. bag



### MYCOAPPLY® SOLUBLE ENDO

- ◆ Four-species of Endomycorrhizae
- ◆ 40,000 propagules per pound
- ◆ **Also contains soluble 5-0-2 organic fertilizer**
- ◆ Fine powder formulation – Can pass #70 screen
- ◆ Apply to grass seed as a dust prior to planting, use in water-in (drench) applications, or for hydroseeding
- ◆ 1 lb. bag



### ESSENTIAL PLUS 1-0-1

- ◆ 100% Natural Rooting Substance and Biostimulant
- ◆ This highly concentrated liquid organic solution is loaded with Iron, Humic Acid, natural plant hormones, vitamins, natural wetting agents and L-amino acids to help repair stressed plants, prevent transplant shock, and act as an insurance policy for all your installations
- ◆ 1 qt, 1 gal, 2.5 gal jugs and 30 gal drum

### REPAIR PLUS 3-0-3 DRY

- ◆ Combining the best of Growth Products' Companion and Essential Plus products, Repair Plus is a granular that is incorporated into soil or top dressing mixes
- ◆ Its array of beneficial microbes, biological soil amendments and plant growth stimulants provide quick results when it is time to reseed, top dress, or repair divot damage from a horse's hoof or player's cleats on any type of sports turf.
- ◆ 5lb. tote



**PH REDUCER** ★

- ◆ A gentle but effective Citric Acid solution
- ◆ Non-burning organic formula that is safer on turf, as well as on skin and clothing, than phosphoric or Sulfuric acids
- ◆ Can be used to acidify high pH soils, or as a tank mix buffer solution.
- ◆ 2.5 gal

**CONTROL DE-THATCHER** ★

- ◆ A rich organic solution with 15% slow release Nitrogen and enzyme-producing microbes that assist in the breakdown of thatch
- ◆ 2.5 gal

**RESTORE PLUS 3-0-2 LIQUID** ★

- ◆ The All-In-One Solution For Quick Green-Up and Improved Soils
- ◆ Contains 10% Humic Acid, 5% L-amino acids, 3% chelated Iron, 1% chelated Manganese, hydrolyzed soy protein, and yeast
- ◆ 2.5 gal

**PLANT FOOD CO ADAMS EARTH**

- ◆ An organic blend of humic and amino acids, North Atlantic kelp extract, natural sugars, vitamins and other organic compounds
- ◆ Improves soil structure, rooting and the uptake of nutrients
- ◆ 2.5 gal jug

**GRO POWER 5-3-1**

- ◆ 70% Humus, 15% Humic Acids, micronutrients, and soil enhancers for soil preparation, backfill, hydroseeding, maintenance, and for all purpose use
- ◆ 50 lb. bag

**GRO POWER PLUS 5-3-1**

- ◆ Original formula + soil penetrant. Designed for soil conditions that are impossible, such as highly-compacted, hard pan areas (clay, adobe, caliche soils) or areas that have extremely high levels of salt (EC), sodium, boron or pH problems
- ◆ 50 lb. bag

**GRO POWER 12-8-8 SLOW RELEASE**

- ◆ For color areas and sensitive plants
- ◆ Will release slowly, over three to four months, under normal conditions
- ◆ 100% of Nitrogen from Methylene Urea
- ◆ 40 lb. bag

**GRO POWER 3-12-12 FLOWER 'N BLOOM**

- ◆ Used in areas where a higher phosphorus and Potassium nutrient is desired, i.e. blooming plants, color, fruit or vegetable gardens and new turf
- ◆ 35% Humus, 7% Humic Acids, micronutrients, and soil enhancers
- ◆ 50 lb. bag

**TRI-C HUMATE PLUS** ★

- ◆ Homogenous blend of Humate (minerals, carbon, organic matter, humic acids, beneficial bacteria) and Gypsum
- ◆ Improves soil structure and water holding capacity
- ◆ Granular formulation eliminates dust which is often a problem with organic materials
- ◆ OMRI Listed (Certified Organic)

**OYSTER SHELL FLOUR** ★

- ◆ Calcium Carbonate
- ◆ 50lb. bag

**WORM CASTINGS** ★

- ◆ 50lb. bag

**GROWMORE CITRA-GROW CITRIC ACID** ★

- ◆ Provides Carbon for ammonium assimilation in roots and synthesis of amino acids
- ◆ Also plays a major role in detoxification of plant root system, and is particularly effective in protecting plant root from the harmful effects of aluminum



### **EZ ORGANIC SUPPLEMENT** ✦

- ◆ This all-natural bio-stimulant contains micro-nutrients, vitamins, enzymes, amino acids, complex carbohydrates, rooting hormones, and other natural growth stimulants
- ◆ Drastically improves uptake and availability of fertilizers and those nutrients presently in the soil, giving plants a boost in growth, vigor and health
- ◆ Also energizes soil by stimulating the production of beneficial bacteria, which break down thatch, build humus, and fight against soil-borne pathogens
- ◆ Stimulates massive root development, not only improving nutrient and water uptake, but enabling plants to better withstand extreme temperatures
- ◆ The mild acid base dissolves hard water mineral deposits that can clog sprinkler heads and drip emitters, keeping them clean and running efficiently
- ◆ Can be used to enhance any fertilization program, but is particularly beneficial at transplant
- ◆ 1 pint and 2.5 gal jug

### **TURF PRO/TURF PRO PLUS - BIO-STIMULANT AND SOIL CONDITIONER/TURF PRO** ✦

- ◆ 100% Organic Bio-Stimulant/Soil Conditioner/Nutrient Converter
- ◆ In addition to micro-nutrients, plant extracts, enzymes, carbon, and vitamins, Turf Pro Bio-Stimulant contains Lignin, Humic and Fulvic acids, 73 trace elements, and 20 beneficial soil microbes
- ◆ Turf Pro replenishes and maintains the microbial colonies that are often eliminated by excessive fertilizer and chemical use. Microbes amplify a plant's ability to absorb nutrients by more than 100 times. That means plants can meet their genetic growth potential on lower levels of supplemental nutrition, as well as increased tillering, thicker walls, thicker vascular system, and generally higher quality plants and trees with better color and texture
- ◆ Lignin and Humic/Fulvic acids are excellent sources of food for these beneficial soil fungi, and help to minimize leachate pollutants
- ◆ Turf Pro is non-toxic, can be applied as a soil drench or foliar spray, and is systemically absorbed throughout the plant for optimum response
- ◆ Turf Pro available in 1 gal and 2.5 gal jugs
- ◆ Turf Pro Plus (with Iron) available in 1 gal and 2.5 gal jugs

### **TURF AND GARDEN PRO PLUS IRON** ✦

- ◆ A pasteurized/homogenized/deodorized manure in liquid form
- ◆ Combined with plant hormones as well as Humic and Fulvic acids to develop root mass and length, it is ideal for the establishment of new turf
- ◆ 2.5 gal jug and 55 gal drum

### **SUPERTHRIVE - THE ORIGINAL VITAMINS-HORMONES SOLUTION** ✦

- ◆ A vitamins-hormones solution added to any fertilizer program to activate nutrients to their full potential and revive plants
- ◆ Highly effective for jump-starting transplanted material, increasing seed germination rates, deepening and toughening root systems, and speeding up the growth in size of trees and shrubs
- ◆ 1 qt. and 1 gal. jugs

### **VITAMIN B-1** ✦

- ◆ Solution with vitamin B-1 for use in transplanting
- ◆ 1 gal. jug



## CALTRISAL ST

- ◆ Speeds up the solubilization process of Calcium, and interrupts the crystallization of Calcium Carbonate
- ◆ More Calcium is active in the soil solution to replace harmful sodium ions, bind small clay particles together and re-aggregate the soil, so soil structure is improved
- ◆ **Aggregated soil is more porous, allowing for greater infiltration and leaching of water**
- ◆ 5.9 gal. pail

## BLAST INJECTABLE & BLAST SPRAYABLE

- ◆ **Synthetic acid-based soil recovery tool used to dissolve carbonate build-up in the soil, which opens soil pores for better infiltration of water**
- ◆ Frees up calcium, magnesium and other bound-up nutrients in the soil for plant use
- ◆ Patented Synergy Technology
- ◆ **Regular use will improve soil structure and increase infiltration & nutrient availability**
- ◆ Injectable formula in 30 gal drum and 258 gal tote
- ◆ Sprayable formula in 2.5 gal jug and 30 gal drum

# SOIL SURFACTANTS & WETTING AGENTS



## AQUEDUCT SOIL SURFACTANT

- ◆ A curative surfactant formulation designed specifically to provide rapid recovery from existing water management problems such as Localized Dry Spot
- ◆ Moves water deeply into problem areas, reducing water repellency and restoring the rootzone's ability to regain optimum moisture levels
- ◆ **Quickly reduces turf wilt and promotes recovery of stressed turf**
- ◆ Liquid formulation in 2.5 gal. jug, 5 gal. pail, 30 gal. and 55 gal. drums
- ◆ **Granular formulation in convenient 20lb. pail — perfect for landscaper use**
- ◆ SWDG (Spreadable, Water Dispersible Granule) in 50lb. bag



## SIXTEEN90

- ◆ **"Sixteen Ounces, 90 Days." — Provides guaranteed safe protection against water repellency problems for ninety days**
- ◆ Reduces water repellency (the cause of localized dry spots) and promotes turf uniformity
- ◆ Liquid in 5 gal. pail and 30 gal. drum; Granular in 40lb. bag



## ADVANTAGE PELLETS

- ◆ **Makes touching up problem spots easy**
- ◆ Offers temporary relief of Localized Dry Spots
- ◆ Turf safety in any weather
- ◆ Box of 12 pellets



## AQUATROLS APPLICATOR

- ◆ **Automatically mixes Aqueduct liquid with water flowing through at a constant proportion of 1:320 (4 oz. of Aqueduct concentrate per minute at 10 gals. of water per minute)**



## ADVANTAGE APPLICATOR

- ◆ **For use with Advantage Pellets**
- ◆ Can be adapted for a 3/4" or 1" hose fitting
- ◆ Fittings able to handle high pressure normally used to operate irrigation systems





### DISPATCH

- ◆ Increases the penetration and infiltration of irrigation or rainfall, making it more readily available for plant uptake
- ◆ **Improved irrigation efficiency and reduced water use**
- ◆ Mix with pre-emergent herbicides or soil applied insecticides to ensure uniform chemical distribution
- ◆ Injectable formulation in 5 gal. pail, 30 gal. and 55 gal. drums and 260 gal. SpaceKraft
- ◆ Sprayable formulation in 2.5 gal. jug and 30 gal. drum



### REVOLUTION

- ◆ **Patent-pending technology that balances air-to-water ratios in the soil**
- ◆ By providing better moisture access and gas exchange in the rootzone, overall turf health is improved and it is much more resilient under all types of stresses
- ◆ Keep leaf turgor stable for more consistent play, and maintains evapotranspiration rates to keep turf canopy cooler
- ◆ Exceptionally safe on fine turf species and is **backed by Aquatrols' exclusive money-back performance guarantee**
- ◆ 2.5 gal. jug, 30 gal. and 55 gal. drums, and 50lb. bag SWDG

### PRIMER SELECT

- ◆ A high-performance soil surfactant that is the foundation of an effective rootzone management program
- ◆ **Enhances turfgrass uniformity by establishing matrix flow in the rootzone**
- ◆ 5 gal. pail, 30 gal. drums, and 50lb. bag SWDG



### AQUATROLS INFILTRX

- ◆ An economical penetrant developed specifically to move water off the surface and into the rootzone, for less puddling and healthier turf
- ◆ **Reduces water loss due to surface evaporation and run-off**
- ◆ 55 gal drum

### GROWTH PRODUCTS HYDRO-MAX

- ◆ **All-Natural Wetting Agent plus Humic Acid**
- ◆ Derived from Yucca and Leonardite
- ◆ Loosens compacted soils, increases water & fertilizer penetration, alleviates dry spots and helps leach salts
- ◆ **Can also be used to reduce surface tension of pesticide sprays (as a spreader)**
- ◆ 2.5 gal jug

## FIELD CARE / POROUS SOIL AMENDMENTS



### TURFACE MVP

- ◆ The leader in field conditioning products!
- ◆ Can be incorporated into infield mix to fight compaction that leads to running, sliding and bad ball hop injuries
- ◆ Can also be used as a topdressing to quickly turn muddy conditions into dry, safe surfaces
- ◆ **Holds moisture and increases drainage as a result of balanced air and water pore space**
- ◆ 50lb. bag, 2000 lb. sack



### TURFACE PROLEAGUE

- ◆ A smaller, more consistent particle size that delivers the color, safety and performance of a Major League infield
- ◆ Offers same safety and drainage features as MVP
- ◆ **Also flows easily into aerification holes, used as an amendment to increase soil porosity**
- ◆ Available in natural, red, brown, and heritage red
- ◆ 50lb. bags



### TURFACE QUICK DRY


- ◆ After a rain, Turface Quick Dry makes muddy, slippery conditions a thing of the past
- ◆ Will not cake, become slippery or turn a field rock-hard, and works over and over again
- ◆ 50lb. bag





## Dependable Performance.

It's why you trust  **Aquatrols®**  
aquatrols.com

 **Revolution®**

 **AQUEDUCT®**  
SOIL SURFACTANT

 **Dispatch®**  
Injectable

 **Dispatch®**  
Sprayable

 **PRIMER®** Select  
Enhanced  
Matrix Flow  
Soil Surfactant

 **Sixteen**  
30

 **Advantage II**

**AQUAPLEX amino®**   
**BLAST®**  **BLAST®**   
SPRAYABLE® INJECTABLE®

**CALTRISAL ST®** 



## YOUR HOME FIELD ADVANTAGE

The #1 Conditioner for Safe & Playable Fields

Visit [www.turface.com](http://www.turface.com) for product and field maintenance education



 Find us on Facebook  
[facebook.com/Turface](https://facebook.com/Turface)





### **MOUND CLAY AND MOUNDMASTER BLOCKS**

- ◆ Virgin packing clay without any additives that diminish a clay's quality
- ◆ High degree of plasticity provides the best footing and wear resistance, allowing it to stand up to the intense activity received by pitching mounds and batter's and catcher's boxes
- ◆ Blocks (bag of 8) are great for mound and box renovation; Clay (50 lb. bag) is easy-to-handle for smaller repairs



### **FIELD AND FAIRWAY**

- ◆ Incorporated into the root zone, it adds porosity to prevent compaction in high traffic areas
- ◆ **Medium-sized particle holds moisture and nutrients and provides a permanent balance of air and water space to increase drainage and prevent muddy conditions that destroy turf**
- ◆ Two colors available — Incorporate **Natural** into rootzones to prevent compaction and amend poor soils; **Emerald** covers up rough spots on the field, masks worn or high-traffic areas and adds color and strength to turf
- ◆ 50 lb. bag



### **PERLITE**

- ◆ Lightweight soil conditioner increases the soil's air and water holding capacity
- ◆ Comes from volcanic material, so it does not break down like organic matter
- ◆ 4 cu ft bag

## **BASIC SOIL AMENDMENTS**

### **PELLETIZED GYPSUM**

- ◆ Regular, Mini and Solution Grade
- ◆ 40 and 50 lb. bags

### **LIQUID GYPSUM**

- ◆ A very good substitute for powdered gypsum
- ◆ Contains binding agents and surfactants
- ◆ 1 qt. and 1 gal. jug

### **PRILLED LIME – CALCITIC**

- ◆ Regular and Mini Grade
- ◆ 50 lb. bag

### **PRILLED DOLOMITE**

- ◆ 50 lb. bag

### **SULFUR – 90% DISINTIGRATING**

- ◆ 50 lb. bag

### **SULFUR FOR BURNERS – 99% PURITY**

- ◆ 50 lb. bag 50 lb. bag

### **IRON SULFATE 20%**

- ◆ 50 lb. bag 50 lb. bag

### **FERROUS SULFATE 31% MONOHYDRATE**

- ◆ Use for quick and full greening of turf, to reduce alkalinity of soil, or to control moss
- ◆ Best form of Iron for green response, however it will stain surfaces
- ◆ Regular and Fine granule
- ◆ 50 lb. bag

### **GRANUSOL IRON 50%**

- ◆ Greens Grade
- ◆ 50 lb. bag

### **MAGNESIUM SULFATE**

- ◆ 50 lb. bag

### **MANGANESE SULFATE**

- ◆ 50 lb. bag

### **ZINC SULFATE 36%**

- ◆ 50 lb. bag

## **MULCHES AND SOIL MIXES**

### **MULCH & POTTING SOIL**

- ◆ Bagged & Bulk Options available
- ◆ Specific mulches & soils vary by region – contact your local store for details

- Hardwood Mulch
- Bark Bits
- Bark Chunks
- Composted Mulch/Bark Blends
- Playground Chips (meet specific safety standards)
- Amended Top Soil
- Potting Soil
- Peat Moss
- Organic Amendment





- **PROVEN:**  
Monsanto products have built a reputation for consistent quality and professional performance while meeting the expectations of the Industrial Turf and Ornamental industry.
- **RELIABLE:**  
With more than 30 years of manufacturing experience and containing the highest quality ingredients, Monsanto products deliver consistent performance.
- **SUPPORTED:**  
Monsanto's high-quality products are backed by the most experienced team of experts in the business.

# Get to the root of the problem. **Faster.**

**ROUNDUP PROMAX® IS A CONCENTRATED AND SUPERIOR FORMULATION THAT CONTROLS TOUGH WEEDS, BRUSH AND VINES IN TOUGH CONDITIONS IN UNDER 30 MINUTES.**

Roundup PROMAX is weatherproof in significantly less time than imitators. **Roundup PROMAX offers a 30-minute rainfast warranty.** Roundup PROMAX provides fast, consistent results every time you spray.



**YOUR TIME IS IMPORTANT – SO ROUNDUP QUIKPRO™ DELIVERS VISIBLE RESULTS WITHIN 24 HOURS FOR FEWER CALLBACKS.**

Roundup QuikPRO is rainfast in one hour and its dry formulation creates a true solution that **won't clog nozzles.**

For more information, contact your local dealer or visit **MonsantoITO.com**



Roundup Technology® includes Monsanto's glyphosate-based herbicide technologies. **Individual results may vary**, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Roundup PROMAX and Design®, Roundup PROMAX®, Roundup QuikPRO™, Roundup Technology® and TRUEBLUE ADVANTAGE PROVEN RELIABLE SUPPORTED and Design™ are trademarks of Monsanto Technology LLC. ©2014 Monsanto Company.

**NOTE: A Soil Surfactant mixed with Pre-Emergent Herbicide ensures the Herbicide is distributed uniformly in the soil profile.**  
**See Dispatch Soil Surfactant on page 357.**

**LOOK FOR THE GREEN SYMBOL (✦) THROUGHOUT THE SOURCE BOOK TO EASILY IDENTIFY GREEN PRODUCTS**

### **QUALI-PRO OXADIAZON 50 WSB**

- ◆ Pre-emergent control of grassy annuals and small-seeded broadleaf weeds
- ◆ Safe in cool-season turf, warm-season turf, and ornamental beds
- ◆ **Best Goosegrass control**
- ◆ **Ronstar 50 WSB equivalent**
- ◆ 2 X 1lb. water soluble bags



### **QUALI-PRO DITHIOPYR 40 WSB**

- ◆ Pre-emergent control of grassy annuals and small-seeded Broadleaf weeds
- ◆ **Plus, it offers early post-emergent control of Crabgrass, and it's non-staining**
- ◆ Safe in cool-season turf, warm-season turf, and ornamental beds
- ◆ **Dimension 40 WSB equivalent**
- ◆ 4 X 5 oz. water soluble bags



### **QUALI-PRO PRODIAMINE**

- ◆ Pre-emergent control of grassy annuals and small-seeded Broadleaf weeds
- ◆ Safe in cool-season turf, warm-season turf, and ornamental beds
- ◆ **Longest-lasting pre-emergent weed control at lowest application rates, and it's non-staining**
- ◆ **Barricade 65 WDG equivalent**
- ◆ Available in 5lb. 65WDG formulation or 2.5 gal. liquid



### **QUALI-PRO ORYZALIN/SURFLAN/ MONTEREY WEED IMPEDE**

- ◆ Pre-emergent control of grassy annuals and small-seeded broadleaf weeds
- ◆ Safe, economical control in warm-season turf and ornamental beds
- ◆ **Excellent tank mix with Roundup for pre- and post-emergent control in one step**
- ◆ Not safe for cool-season turf
- ◆ 2.5 gal., 1 qt. and 1 pt. jugs



### **PENDULUM AQUACAP**

- ◆ Pre-emergent control of grassy annuals and small-seeded broadleaf weeds
- ◆ Safe in cool-season turf, warm-season turf, and ornamental beds
- ◆ **Encapsulated water-based formula has virtually no odor and reduced staining potential compared to the 3.3 EC version**
- ◆ 2.5 gal. jug, 30 gal. drum

### **PENDULUM 3.3 EC**

- ◆ Pre-emergent control of grassy annuals and small-seeded broadleaf weeds
- ◆ Safe in cool-season turf, warm-season turf, and ornamental beds
- ◆ 2.5 gal. jug

### **QUALI-PRO ISOXABEN 75 WG**

- ◆ **The only sprayable preemergence herbicide that controls 95 species of Broadleaf weeds** — including dandelion — for up to eight months
- ◆ An excellent tank mix with other pre-emergent herbicides that primarily control grassy weeds, for the broadest spectrum of weed control
- ◆ **Gallery DF equivalent**
- ◆ 1lb. jar



**SEE TURFGRO COMBINATION FERTILIZERS FOR WEED & FEED OPTIONS ON PAGE 340**

## PRE-EMERGENT HERBICIDES - SPRAYABLE (CONT.)

### **TREFLAN/MONTEREY VEG & ORNAMENTAL WEEDEER/TRIFLURALIN**

- ◆ Pre-emergent control of grassy annuals and small-seeded broadleaf weeds in flower beds, around trees, shrubs, and certain vegetables
- ◆ **Provides excellent control when applied prior to mulching of planting bed area**
- ◆ **Not safe in turf**
- ◆ 2.5 gal., 1 gal. and 1 qt. jugs



### **Sim-Trol® 4L** Simazine Flowable Herbicide

#### **SIM-TROL 4L**

- ◆ Provides pre-emergent control of most annual grasses and broadleaf weeds, with **exceptional control of winter annuals when applied in the fall**
- ◆ Safe for use in Bermudagrass, Centipedegrass, St Augustinegrass and Zoysiagrass
- ◆ Active ingredient: Simazine
- ◆ 2.5 gal jug

## PRE-EMERGENT HERBICIDES - GRANULAR

### **QUALI-PRO OXADIAZON 2G**

- ◆ Pre-emergent control of grassy annuals and small-seeded broadleaf weeds
- ◆ Safe in cool-season turf, warm-season turf, and ornamental beds
- ◆ **Best Goosegrass control**
- ◆ **Ronstar 2G equivalent**
- ◆ 50lb. bag



### **Surflan XL 2G**

#### **SULFLAN XL 2G**

- ◆ Pre-emergent control of grassy annuals and small-seeded broadleaf weeds
- ◆ Contains Oryzalin and Benefin
- ◆ **Safe, economical control in warm-season turf and ornamental beds**
- ◆ **Not safe for cool-season turf**
- ◆ 50lb. bag

## PRE-EMERGENT HERBICIDES - GRANULAR (CONT.)

### **CASORON 4G/BARRIER**

- ◆ **Spectrum of weed control is limited, but controls many difficult weeds such as horsetails in many established woody ornamentals**
- ◆ It is volatile, so should only be used in the late fall, winter, or early spring
- ◆ Does provide some post-emergent activity to certain weed species
- ◆ **Not for use in turf**
- ◆ 50lb. bag

### **TREFLAN GRANULAR**

- ◆ Pre-emergent control of grassy annuals and small-seeded broadleaf weeds in flower beds, around trees, shrubs, and certain vegetables
- ◆ **Provides excellent control when applied prior to mulching of planting bed area**
- ◆ **Not for use in turf**
- ◆ 40lb. bag

### **DIMENSION GRANULAR**

- ◆ Pre-emergent control of grassy annuals and small-seeded broadleaf weeds
- ◆ **Plus, it offers early post-emergent control of Crabgrass**
- ◆ Safe in cool-season turf, warm-season turf, and ornamental beds
- ◆ 0.27G in 40lb. bag, 0.27G in 50 lb. bag



### **PENDULUM 2G**

- ◆ Pre-emergent control of grassy annuals and small-seeded broadleaf weeds
- ◆ Safe in cool-season turf, warm-season turf and ornamental beds
- ◆ 40 lb bag

## PRE-EMERGENT HERBICIDES - GRANULAR (CONT.)

### FREEHAND 1.75G

- ◆ Combination herbicide of dimethenamid-P (new chemistry) with tried-and-true pendimethalin
- ◆ **Broad range of pre-emergent weed control — Annual grasses, certain Sedge species and many small-seeded Broadleaf weeds**
- ◆ Flexible rates, easy spreading, and excellent residual control
- ◆ Safe in ornamentals and in warm-season turf
- ◆ 37.5 lb and 50 lb bags



### QUALI-PRO T/I

- ◆ **Controls more Broadleaf and Grassy weeds — in more ornamentals — than any other preemergent herbicide**
- ◆ Contains Trifluralin and Isoxaben, the same active ingredients as in Treflan and Gallery
- ◆ Provides excellent plant tolerance and long-lasting broad-spectrum control
- ◆ Bonds tightly with soil particles and is low in water solubility, so it won't move out of the application zone
- ◆ **Snapshot Equivalent**
- ◆ 50lb. bag



### PREMERGE/ CORN GLUTEN ★

- ◆ Corn gluten is a **naturally occurring substance** that inhibits the growth of a seed's tiny feeder roots, causing weed seedlings to die before they germinate
- ◆ With 9% Nitrogen, it is also a good natural fertilizer
- ◆ 50lb. bag

## PRE-EMERGENT HERBICIDES - OTHER

### BIO-BARRIER ROOT CONTROL FABRIC

- ◆ **Geotextile fabric impregnated with Trifluralin herbicide, to redirect root growth of trees away from sidewalks, foundations, pipes and other structures**
- ◆ Prevents root tip cell division but does not impact overall plant health
- ◆ Fabric allows water, air and nutrients to pass through, is easily cut to size, and is guaranteed for 15 years
- ◆ 12" x 20', 12" x 100', 19 1/2" x 100', 58" x 100' sizes

## POST-EMERGENT HERBICIDES - NON-SELECTIVE CONTROL

**NOTE: Certain Post-Emergent Herbicides require or recommend the addition of a tank adjuvant for expected performance.**

**See TurfGro Tank Adjuvants on page 383.**



### ROUNDUP PROMAX

- ◆ The next big thing in weed control is also the smallest! Roundup PROMAX is the latest addition to the Roundup family of herbicides — and it's the most compact, powerful PRO ever
- ◆ **More Concentrated** — More active ingredients in every gallon means lower usage rates, and a smaller jug that is easier to handle and uses less of the world's resources
- ◆ **Consistent, Professional Performance** — Like the Roundup PRO you've come to know and trust, Roundup PROMAX controls a broad spectrum of weeds with virtually no re-growth
- ◆ **30-Minute Rainfast Warranty** — The unique surfactant system of Roundup PROMAX allows the solution to penetrate weed leaf surfaces faster, which means Roundup PROMAX is rainfast in half the time of Roundup PRO
- ◆ 1.67 gal. jug and 30 gal. drum



### ROUNDUP QUICKPRO

- ◆ The **POWER & SPEED** you need — there is simply no better choice for immediate, visible results AND unsurpassed weed control!
- ◆ Visible results in as little as 24 HOURS
- ◆ Quick uptake speeds weed-killing power right to the root, where it can't wash away
- ◆ Rain-fast in one hour
- ◆ **Quick burndown of top growth AND complete control, roots and all, reduce hassle of customer complaints and callbacks**
- ◆ High-level performance even in cool temperatures
- ◆ Packaging designed for easy storage, handling & application — labeled measuring cup, English & Spanish label, child-resistant cap, 30% of the weight of liquid, easy clean-up
- ◆ 6.8lb. jug and 5-pack of 1.5 oz. pre-measured doses





## RANGER PRO

- ◆ 41% Glyphosate + Surfactant
- ◆ 2.5 gal. jug and 30 gal. drum

## SCYTHE

- ◆ Provides fast burndown of emerged, actively-growing, green vegetation, **including Moss and Lichens**
- ◆ Visible results on most weeds occur within hours
- ◆ Does not damage mature, non-green, woody parts of plants, and is not translocated to the root — however it is wise to occasionally alternate such a product with applications of Glyphosate (Roundup) to prevent weed resistance
- ◆ 2.5 gal. and 1 gal. jugs



## NUFARM DIQUAT SPC 2L

- ◆ Fast-acting, non-selective, non-systemic herbicide with an aquatic label
- ◆ Spreads quickly through the water and makes fast contact with aquatic weeds
- ◆ Water-soluble, so it is absorbed by target plants in just minutes, providing broad-spectrum control of floating, submersed and marginal weeds without any worry about groundwater contamination or toxicity to fish, other organisms or wildlife
- ◆ Also suitable for quick burndown of weeds in landscaped areas
- ◆ **Requires a non-ionic surfactant for expected performance**
- ◆ **Reward equivalent**
- ◆ 1 gal. jug



# FINALSAN

## TOTAL VEGETATION KILLER ✦

- ◆ A non-selective herbicide formulated with ammoniated soap of fatty acids, which penetrates the wax layer of the leaf and destroys the epidermis cell membranes so that the plant dries up
- ◆ Controls grassy and broadleaf weeds, as well as moss & algae growing on roofs, decks and other surfaces
- ◆ Kills within one hour and works even in cool weather
- ◆ **OMRI Listed and organic certified**
- ◆ 2.5 gal jug

# Finale®

## FINALE

- ◆ **Contact herbicide applied for top-growth burndown of emerged weeds**
- ◆ In addition to annual grasses & broadleaves, it will also control certain woody species
- ◆ 2.5 gal. jug

## PRONTO VEGETATION KILLER

- ◆ Season-long control of tough weeds, grass and brush
- ◆ **Eliminates AND prevents unwanted growth**
- ◆ Imazapyr + Glyphosate
- ◆ **Addition of a non-ionic surfactant or MSO will enhance performance**
- ◆ 2.5 gal and 1 quart jugs



## BURNOUT ✦

- ◆ An **organic grass and weed killer** made from food grade ingredients including Cove Oil and Citric Acid
- ◆ For non-selective control of herbaceous (non-woody) Broadleaf and Grass weeds
- ◆ Safe to use around ponds and streams
- ◆ 1 gal. and 2.5 gal. concentrate, 24 oz. ready-to-use

**SEE TURFGRO SPREADER-STICKER NON-IONIC SURFACTANT ON PAGE 380**



### QUALI-PRO QUINCLORAC 75DF

- ◆ **Excellent post-emergent control of Crabgrass, even in its mature stages**
- ◆ Also eliminates other Grassy & Broadleaf weeds such as Foxtail, Kikuyugrass, Clover, Dandelion, Dollarweed and Violet, without harming turf
- ◆ Application and seeding flexibility — can be applied before or after overseeding
- ◆ St Augustinegrass and Bentgrass are susceptible to injury
- ◆ **Drive 75DF equivalent**
- ◆ **Include Methylated Seed Oil (MSO) for maximum performance**
- ◆ 1 lb. jar



### FUSILADE II

- ◆ Broad-spectrum, systemic control of Annual & Perennial grasses
- ◆ **Labeled to spray over the top of ornamentals, or as a directed spray, without damaging valuable plantings**
- ◆ At reduced rates, will safely remove Bermudagrass from Tall Fescue and Zoysia Grass
- ◆ Extremely fast & effective control, and rain-fast in only one hour
- ◆ Active ingredient: Fluazifop
- ◆ **Requires a non-ionic surfactant for expected performance**
- ◆ 1 qt. tip and pour jug for easy measuring



**SEE TURFGRO BOOSTER MSO+ORGANOSILICONE ON PAGE 380**

### ORNAMEC

- ◆ The same active ingredient and applications as Fusilade II, in a less-concentrated formulation
- ◆ **Also may be sprayed over the top of ornamentals; also requires a non-ionic surfactant**
- ◆ 1 gal. and 1 qt. jugs



### KATANA

- ◆ Post-emergence control of 58 sedges, grassy and broadleaf weeds in warm-season turf
- ◆ **Especially effective in removing Poa Annua, Clumpy Ryegrass, Tall Fescue, Sedges and Kyllingias**
- ◆ More active in cooler temperatures than many Sulfonyleurea herbicides used to remove cool-season grasses from warm-season turf
- ◆ Active ingredient: Flazasulfuron
- ◆ 3 oz jar



### GRASSGETTER

- ◆ **Systemic selective herbicide kills weedy grasses without injuring desirable plants**
- ◆ Labeled for homeowner use on and around flowers, evergreens, ornamental groundcovers, bedding plants, shrubs, trees, and certain fruits & vegetables
- ◆ Active ingredient: Sethoxydim
- ◆ **Include Methalated Seed Oil (MSO) for maximum performance**
- ◆ 1 gal. jug and 1 pt. twin-pack w/Herbicide Helper crop oil concentrate



### QUALI-PRO RIMSULFURON

- ◆ **Unsurpassed control of Ryegrass and Poa on warm-season turf**
- ◆ Enhances rapid and complete spring transition of bermudagrass
- ◆ Prevents and controls Bluegrass infestations in fall overseeding
- ◆ **TranXit equivalent**
- ◆ **Must add a non-ionic surfactant or MSO for expected results**
- ◆ 15 oz jar



**SEE TURFGRO BOOSTER MSO + ORGANOSILICONE AND TURFGRO SPREADER-STICKER NON-IONIC SURFACTANT ON PAGE 380**

## **SPEEDZONE (RED LABEL)**

- ◆ **The fastest broadleaf weed control — ever!**
- ◆ Carfentrazone + 2, 4-D + MCPP + Dicamba
- ◆ Visible activity in HOURS
- ◆ Effective, fast-acting, **cool-weather performance**
- ◆ Clover control in as little as one week
- ◆ Rain-fast in three hours
- ◆ Can reseed treated area in two weeks
- ◆ CAUTION signal word (compared to Trimec's DANGER)
- ◆ 2.5 gal. and 1 gal. jugs, 20 oz bottle, 30 gal. drum



## **SPEEDZONE SOUTHERN (GREEN LABEL)**

- ◆ **The fastest broadleaf weed control ever — in a gentler formulation more suitable for sensitive warm-season grasses**
- ◆ Carfentrazone + 2, 4-D + MCPP + Dicamba
- ◆ Visible activity in HOURS
- ◆ Broadleaf weed control in as little as one week
- ◆ Can also be used in cool-season grasses
- ◆ Rain-fast in three hours
- ◆ Can reseed treated area in one week
- ◆ CAUTION signal word (compared to Trimec's DANGER)
- ◆ 2.5 gal. and 1 gal. jugs



## **SURGE (BLUE LABEL)**

- ◆ Warm-weather weed control — fast!
- ◆ Sulfentrazone + 2,4-D + MCPP + Dicamba
- ◆ **Amine formulation (vs. Ester) is less volatile and can be applied up to 90°F**
- ◆ Up to 2X faster than other Amine-formulated products
- ◆ Yellow Nutsedge suppression
- ◆ 2.5 gal. and 1 gal. jugs



## **TRIMEC CLASSIC**

- ◆ The original low odor 2,4-D, MCPP & dicamba formulation
- ◆ Controls all major broadleaf weeds in turf
- ◆ Gets many hard-to-kill weeds without repeated applications
- ◆ 2.5 gal., 1 gal. and 1 pt. jugs, 30 gal. drums



## **TRIMEC SOUTHERN**

- ◆ High degree of tolerance in sensitive warm-season turfgrasses
- ◆ Economical Clover control option — North or South
- ◆ Wide spectrum of post-emergent broadleaf weed control
- ◆ Best amine Trimec for Clover and Chickweed
- ◆ MCPP + 2,4-D + Dicamba
- ◆ 1 qt. bottle, 2.5 gal. jug



## **TRIMEC 992**

- ◆ **The “applicator formula” Trimec complex, with a little extra 2,4-D for the quick visual response, especially on dandelion**
- ◆ Also labeled for use on sod farms
- ◆ Registered for use on cool-season and warm-season grasses, although should NOT be applied to Floratam St. Augustinegrass
- ◆ 2,4-D + Dicamba + MCPP
- ◆ 2.5 gal jug and 30 gal drum



## **2,4-D AMINE**

- ◆ 2.5 gal. and 1 gal. jugs



## **TRIPLET 80Z**

- ◆ Broadleaf weed control — Full strength formula in small 8-oz packaging
- ◆ 2,4-D + MCPP + Dicamba

## **TRIAMINE JET SPRAY / WEED WHACKER JET SPRAY**

- ◆ 3-way broadleaf weed killer in a **unique foam formula which marks treated weeds, making it easy to spot spray and see where applicator has been**
- ◆ 22 or 23 oz aerosol can
- ◆ Weed Whacker also available in 1 qt ready-to-spray bottle



### QUALI-PRO 2-D

- ◆ Combination of Triclopyr + Clopyralid provides superior control of up to 35 “difficult-to-manage” species of broadleaf weeds
- ◆ Provides broad-spectrum weed control with one application, saving product & labor costs from repeat treatments
- ◆ Labeled for use on most established cool- and warm-season turfgrasses
- ◆ **Not for use on residential turf, and no clippings may be used for mulching or composting**
- ◆ 1 gal. jug



### MECOME 2.5

- ◆ Premium MCPP-p formulation for enhanced broadleaf control in turfgrass including bentgrass
- ◆ **Excellent for extreme infestations of Clover – can be used alone or added to other broadleaf herbicides for inexpensive enhanced control**
- ◆ 2.5 gal jug



### FIESTA LAWN WEED KILLER

- ◆ A formulated iron chelate solution that selectively controls broadleaf weeds, moss and algae in turf
- ◆ **Approved by the EPA's Biopesticide Division and can be used in turf areas with pesticide bans/concerns**
- ◆ How it works: Broadleaf weed absorb chelated iron easily and in larger quantities than grass, which leads to cellular damage and ultimately plant death in broadleaf weeds while the grass remains unharmed
- ◆ Delivers visible same-day results, even in cool weather, and has no unpleasant odor
- ◆ 1 gal and 2.5 gal jug

**SEE TURFGRO COMBINATION FERTILIZERS FOR WEED & FEED OPTIONS ON PAGE 340**

### TURFLON ESTER

- ◆ For the control of Annual & Perennial Broadleaf weeds, as well as Kikuyugrass, in cool-season ornamental turfgrasses
- ◆ **Offers broad-spectrum control of the most stubborn, hard-to-control weeds such as Wild Violet, Oxalis, Spurge, Ground Ivy and many others**
- ◆ Also offers suppression of Bermudagrass to accelerate the transition to cool-season turf
- ◆ Active ingredient: Triclopyr
- ◆ 2.5 gal., 1 gal. and 1 qt. jugs



### SPURGE POWER

- ◆ 3-way selective broadleaf herbicide for use on residential turf
- ◆ MCPA + Triclopyr + Dicamba
- ◆ Controls Dandelion, Chickweed, Clover, Oxalis, Spurge, Wild Violet and many other broadleaf weeds
- ◆ Treat warm-season turf at lower use rates and only when temperatures are below 85°F, or at higher rates only if turf is completely dormant
- ◆ 1 qt. and 1 pt. bottles



### LONTREL/STAR THISTLE KILLER

- ◆ Superior control of Clover, Dandelion, Thistle and Dollarweed
- ◆ **Particularly effective on hard-to-control Yellow Starthistle, a noxious weed that infests many parts of California, is toxic to livestock, and chokes out native plant species**
- ◆ Labeled for use on both warm- and cool-season turf, but sets the standard for safety in closely-mowed Bentgrass and Bermudagrass fairways
- ◆ Ideal for use on warm-season varieties because it does not harm or discolor them the way some broadleaf herbicides do
- ◆ **Not for use on residential turf, and no clippings may be used for mulching or composting**
- ◆ Rain-fast within two hours
- ◆ Active ingredient: Clopyralid
- ◆ 1 qt. and 8oz. bottles



### SAPPHIRE

- ◆ Post-emergent control of annual and perennial broadleaf weeds, with **particular effectiveness on English Lawn Daisy and White Clover**
- ◆ Eliminates the need to tank-mix multiple herbicides
- ◆ Non-phenoxy herbicide – **May be used in 2,4-D restricted areas**
- ◆ Labeled for use on golf course fairways & roughs
- ◆ Active ingredient: Penoxsulam
- ◆ 1 pint tip-and-measure bottle



## TRICLOPYR 4EC (GARLON 4/REMEDY ULTRA)

- ◆ Selective control of woody plants such as Blackberry and Poison Oak, as well as broadleaf weeds
- ◆ Used primarily along right-of-ways for the control of brush & small undesirable trees
- ◆ May be used in grazing areas, rangeland & non-irrigated ditchbanks
- ◆ 1 gal. and 2.5 gal. jug

## CROSSBOW

- ◆ Targets woody plants & brush, plus an extended list of Annual and Perennial Broadleaf weeds, while leaving cool-season grasses unharmed
- ◆ Triclopyr + 2, 4-D Ester
- ◆ Appropriate for rangeland, permanent grass pastures, fencerows, non-irrigated ditchbanks, roadsides and industrial sites
- ◆ 2.5 gal., 1 gal. and 1 qt. jugs



## MONTEREY BRUSH & VINE CONTROL

- ◆ Controls woody plants such as Blackberry, Poison Ivy & Poison Oak in residential areas
- ◆ Can also be used in concentrate as a stump treatment
- ◆ 1 pt. bottle



## T-ZONE SE (PURPLE LABEL)

### Broadleaf Herbicide for Tough Weeds.

- ◆ Tough weed formulation – Applies nearly two times more triclopyr than many leading brands
- ◆ Solvent-free ester formula cuts through the cuticle of the toughest weeds
- ◆ Cool-weather weed control option (as low as 50°F)
- ◆ Suitable for applications up to 85°F
- ◆ Rain-fast in three hours
- ◆ Yellow nutsedge suppression
- ◆ Designed for residential, commercial and golf sites
- ◆ 2.5 gal., 1 gal. and 1 quart jugs



## POST-EMERGENT HERBICIDES – GRASSY & BROADLEAF WEED CONTROL

## Q4 PLUS (ORANGE LABEL)

- ◆ Versatile ALL-IN-ONE herbicide for use in cool-season turfgrass
- ◆ Fast-acting Broadleaf control + Crabgrass & Foxtail control + Yellow Nutsedge suppression
- ◆ Quinclorac + Sulfentrazone + 2,4-D + Dicamba
- ◆ Replacement for Trimec Plus following EPA ban of MSMA
- ◆ Rain-fast in six hours
- ◆ Can be applied up to 90°F
- ◆ 30 gal. drums, 2.5 gal. 1 gal. and 1 quart jugs



## QUINCEPT 80Z

- ◆ Broadleaf & Grassy weed control – Full strength formula in small 8-oz packaging
- ◆ 2, 4-D + Quinclorac + Dicamba



## QUALI-PRO MSM TURF 60 DF

- ◆ Highly selective control of certain broadleaf weeds and grassy weeds, including the removal of Bahiagrass from Bermudagrass and St. Augustinegrass
- ◆ Very low use rates and can be used on Sod Farms
- ◆ Manor equivalent
- ◆ Active ingredient: Metsulfuron methyl
- ◆ Include a non-ionic surfactant for maximum performance
- ◆ 8 oz bottle



## ATRAZINE 4L

- ◆ Post-Emergent broadleaf weed control that is safe in sensitive Bermudagrass, St. Augustinegrass, Zoysiagrass and Centipedegrass
- ◆ Also provides Pre-Emergent control of certain annual weeds
- ◆ 2.5 gal., 1 gal. and 1 quart jugs



SEE TURFGRO SPREADER-STICKER NON-IONIC SURFACTANT ON PAGE 380



### **CERTAINTY**

- ◆ **Outstanding control of Purple & Yellow Nutsedge with one application**
- ◆ Translocates through Nutsedge to attached Rhizomes, Nutlets and Tubers
- ◆ 95% to 100% control of emerged Nutsedge plants
- ◆ Also controls Kyllinga species and other Annual sedges, as well as 24 additional grass & Broadleaf weeds
- ◆ Excellent safety in all major warm-season grasses — Bermudagrass, Zoysiagrass, St. Augustinegrass, Buffalograss, Bahiagrass, Centipedegrass, Kikuyugrass and Seashore Paspalum
- ◆ **Requires a non-ionic surfactant for expected performance**
- ◆ Active ingredient: Sulfosulfuron
- ◆ 1.25 oz. bottle with single dose scoop



**SEE TURFGRO BOOSTER MSO + ORGANOSILICONE AND TURFGRO SPREADER-STICKER NON-IONIC SURFACTANT ON PAGE 380**

### **PROSEDGE/SEDGEHAMMER**

- ◆ **Post-emergent control of Purple & Yellow Nutsedge and certain tough broadleaves such as Horsetail**
- ◆ Also suppresses Kyllinga species
- ◆ Safe application in warm- and cool-season turf — Bermudagrass, St. Augustinegrass, Kentucky Bluegrass, Tall & Fine Fescues, and Perennial Ryegrass
- ◆ **Requires a non-ionic surfactant for expected performance**
- ◆ Active ingredient: Halosulfuron-methyl; **Manage equivalent**
- ◆ 1.3 oz. bottle and 0.9 gram single-dose water soluble bag
- ◆ 13.5 gram single-dose "Sledgehammer Plus" contains non-ionic surfactant. No additional mixtures are necessary.



### **NUTGRASS KILLER**

- ◆ For control of Yellow Nutsedge & certain Broadleaf weeds in established turf
- ◆ Will not control Purple Nutsedge or any grasses
- ◆ Effective mainly through contact action, so only top-growth is affected
- ◆ **Requires a crop oil concentrate for expected performance**
- ◆ Active ingredient: Bentazon
- ◆ 1 pt. twin pack with Herbicide Helper crop oil concentrate



## POST-EMERGENT HERBICIDES - MOSS CONTROL

### **MOSS OUT™ FOR LAWNS CONCENTRATE**

- ◆ 35% Ferric Sulfate
- ◆ **Keep away from sidewalks and driveway concrete, because it will stain the concrete**
- ◆ 1 gal. and 1 qt. jugs



### **MOSS OUT™ FOR ROOFS & WALKS**

- ◆ Alkaline cleaner to remove moss, algae, mold, and mildew stains from decks, roofs, siding, windows, and other outdoor surfaces
- ◆ 1/2 gal. and 27 oz. bottles

### **QUICKSILVER**

- ◆ Quick burndown of Silvery Thread Moss & certain Broadleaf weeds in turf
- ◆ Active ingredient: Carfentrazone
- ◆ 8 oz. bottle

**SEE FERTILIZER - BASICS FOR GRANULAR FERROUS SULFATE ON PAGE 330**

## Quik-Fire

FAST ACTING • KILLS WEEDS, ALGAE AND MOSS

### QUIK-FIRE

- ◆ Fast-acting moss & algae killer for use on structural surfaces
- ◆ Does not stain concrete, pavement, stucco or wood
- ◆ Is non-selective and will also control many annual weeds and suppress perennial weeds growing around buildings, fences and driveways
- ◆ 2.5 gal jug

### ST GABRIEL ORGANIC MOSS KILLER ★

- ◆ Kills all types of moss
- ◆ Made from natural essential oils and soap
- ◆ **Spray directly on bricks, concrete anywhere moss is growing. Do not spray on grass**
- ◆ Kills overnight, just sweep away the dead moss in the morning
- ◆ Won't stain wood decks or bricks
- ◆ Safe to use around ponds and streams
- ◆ 1 gal. concentrate, and 1 gal and 24 oz. ready-to-use bottles



## PRE + POST-EMERGENT HERBICIDES

### GOAL2XL/QUALI-PRO OXYFLUORFEN 2SE

- ◆ **Combines residual (pre-emergence) and contact (post-emergence) activity** — provides knockdown and/or extended weed control depending upon use rate, can provide up to six months residual
- ◆ Outstanding control of "hard to kill" weeds
- ◆ Enhances activity of Glyphosate formulations — improves weed spectrum and speed of kill
- ◆ Safe in certain vegetable crops; **Not safe in turf**
- ◆ Binds tightly to soil — will not leach to groundwater
- ◆ 2.5 gal. jug



### POACONSTRICTOR

- ◆ Intended for professional use on various cool- and warm-season turfgrasses, for the control or suppression of specific weeds,
- ◆ **Has both pre- and post-emergence activity of certain weeds such as Poa annua, and works best in programs emphasizing both approaches**
- ◆ Active ingredient: Ethofumesate; **Prograss equivalent**
- ◆ 3/4 gal. jug



### PRODEUCE

- ◆ **Unique formulation combining pre- and post-emergent herbicides (Prodiamine + Glyphosate)** that deliver contact and residual control of a variety of weeds
- ◆ 3-ounce rate delivers up to three to six months control for a number of annual, grassy weeds
- ◆ As compared with soil sterilants, less concern for lateral movement and off target damage to trees and turf
- ◆ **Perfect for application to cracks and crevices in driveways & sidewalks, along fences & walls, around the base of trees, and on gravel areas**
- ◆ 1/2 gallon squeeze-and-measure container provides applicator convenience and reduces wasted product





### **ROUNDUP CUSTOM**

- ◆ **Where weeds & water meet — a non-selective, aquatic formulation of glyphosate that controls emerged vegetation in environments where water is present**
- ◆ Has favorable environmental characteristics, such as degradation over time in soil, sediment, and natural waters, and tight binding to most soils and sediment, which reduces bioavailability soon after application
- ◆ An excellent fit for golf courses, residential and commercial areas and in municipalities, roadside areas and irrigation districts
- ◆ **Formerly named “Aquamaster”**
- ◆ 2.5 gal. jug and 30 gal. drum



### **RADIANCE**

- ◆ **Prevents algae blooms in ponds, lakes & fountains and protects against re-infestation for up to a full month**
- ◆ A biologically active, self-dispersing form of copper held in a proprietary carrier that allows Radiance to stay suspended in water and maintain effective copper concentrations throughout the body of water being treated
- ◆ Requires no special equipment or application practices
- ◆ 1 gal., 2.5 gal. and 5 gal. jugs

### **COPPER SULFATE**

- ◆ 50lb. bag

### **NUFARM DIQUAT SPC 2L**

- ◆ Fast-acting, non-selective, non-systemic herbicide with an aquatic label
- ◆ Spreads quickly through the water and makes fast contact with aquatic weeds
- ◆ Water-soluble, so it is absorbed by target plants in just minutes, providing broad-spectrum control of floating, submersed and marginal weeds without any worry about groundwater contamination or toxicity to fish, other organisms or wildlife
- ◆ Also suitable for quick burndown of weeds in landscaped areas
- ◆ **Requires a non-ionic surfactant for expected performance**
- ◆ **Reward equivalent**
- ◆ 1 gal. jug



**POND BIOLOGICALS CAN BE FOUND ON PAGE 301**

**SEE TURFGRO SPREADER-STICKER NON-IONIC SURFACTANT ON PAGE 380**

### Insecticide Application Tip:

Selecting the proper rotation in an insecticide resistance program is critical. To develop an effective rotation, use insecticides with different Group Codes (from the IRAC - Insecticide Resistance Action Committee), which denote different insecticide families or classes. Be particularly cautious with insecticides containing "oil" or "sulfur" in their descriptions, as these may have a higher burn potential on certain plants. Always read product labels thoroughly before tank-mixing or applying any products.

#### QUALI-PRO CHLORPYRIFOS 4E

- ◆ Broad spectrum restricted use insecticide for commercial nursery and greenhouse, on golf course turf, industrial turf and ornamentals
- ◆ Proven long-lasting control of hundreds of insect pests, including Ants, Borers, Cutworms, Fall Webworms, Gypsy Moths, Leaf Feeding Beetles and Mole Crickets
- ◆ Stops pest feeding by inhibiting nervous system activity
- ◆ **RESTRICTED USE PESTICIDE: For retail sale to and use only by certified applicators or persons under their direct supervision**
- ◆ Dursban equivalent
- ◆ 2.5 gal. jug



IRAC Code
1B

#### ACEPHATE / 90SP

- ◆ For the control of ants and other nuisance pests such as Cockroaches, Crickets, Fleas, Firebrats, Earwigs, Pillbugs and Sowbugs
- ◆ Apply directly as pellets or dilute in a spray
- ◆ 1 lb. shaker cans & 5 lb. bag



IRAC Code
1B

#### 1 LB. MALATHION

- ◆ Non-systemic, organophosphate insecticide that is commonly used to control mosquitoes, plus a variety of sucking and chewing insects that attack fruits, vegetables, ornamentals, and shrubs
- ◆ Also effective control of household pests such as flies and cockroaches
- ◆ 1 quart

IRAC Code
1B

#### NUVAN PROSTRIPS

- ◆ **Controlled release vapor insecticide for use in enclosed target areas such as utility boxes, pump houses, sheds, trash bins, closets and attics**
- ◆ Effectively control ants (including fire ants), spiders, wasps, hornets and other pests.
- ◆ Each 16 gram strip treats a 100 to 200 cu. ft. area (approx.. 8' x 8' x 3' = 192 cu. ft.) and lasts up to 4 months
- ◆ Active ingredient: Dichlorvos



IRAC Code
1B

#### QUALI-PRO TAURUS G/FIPRONIL

- ◆ Season-long fire ant control
- ◆ **RESTRICTED USE PESTICIDE: For retail sale to and use only by certified applicators or persons under their direct supervision**
- ◆ May only be used in the following states: AL, AR, CA (Coachella Valley only), FL, GA, LA, MS, NM, NC, OK, SC, TN, TX, VA
- ◆ Active ingredient: Fipronil
- ◆ 30 lb. bag



IRAC Code
2B

#### QUALI-PRO LAMBDA GC-O/CSI CYONARA 9.7

- ◆ Broad-spectrum, fast knock-down control and long residual — at low use rates
- ◆ Offers protection against a wide range of nuisance pests such as Scorpions, Spiders, Ants, Cockroaches and flying insects, as well as surface feeding and foliar insects including Webworms, Leafminers, Spittlebugs, Thrips, Armyworms and Cutworms
- ◆ **Can be used virtually everywhere — broad label allows application to be made outdoors and indoors, for perimeter pest control, food handling areas, turf and ornamentals, and animal health housing**
- ◆ Active ingredient: Lambda-Cyhalothrin
- ◆ Same family of chemistry, and similar pest control as DeltaGard or Suspend (Deltamethrin), Talstar (Bifenthrin), and Tempo (Beta-Cyfluthrin)
- ◆ 1 qt. squeeze and measure bottle
- ◆ Lambda GC-O labeled for golf, nursery, non-residential turf



IRAC Code
3

#### CSI CYONARA L/P — LAWN AND PERIMETER GRANULES

- ◆ **Fast-acting control of many types of insects** — including ants (Carpenter, Field, Fire and others), Armyworms (Fall and Yellow-striped), Billbugs, Chinchbugs, Crickets, Cutworms, Earwigs, European Crane Flies, Fleas, Grubs, Roaches (German and American) and Sod Webworms — in lawns and as a barrier band treatment around house foundation
- ◆ **Convenient granular formulation** — 25lb. resealable bag treats up to 12,500 sq. ft.
- ◆ Active ingredient: Lambda-Cyhalothrin
- ◆ **Same family of chemistry, and similar pest control as DeltaGard or Suspend (Deltamethrin), Talstar (Bifenthrin), and Tempo (Beta-Cyfluthrin)**



IRAC Code
3

### QUALI-PRO BIFENTHRIN I/T 7.9% INSECTICIDE/TERMITICIDE

- ◆ Sure-fire control of the toughest pest problems, including termites, carpenter ants and all species of lawn ants — in and around homes, commercial and industrial buildings, recreational areas, athletic fields, lawns and ornamentals
- ◆ Dependable, long-lasting residual control of other turf and ornamental pests including Armyworms, Cutworms, Sod Webworms, Billbugs, Chinch Bugs, Crickets, Fleas, Ticks and Mole Crickets
- ◆ **For use by individual/firms licensed by the state to apply TERMITICIDE products**
- ◆ **Talstar equivalent**
- ◆ 1 gal. jug



IRAC Code
3

### MONTEREY BUG BUSTER II

- ◆ Synthetic pyrethroid insecticide — **quick knockdown with residual control** — for homeowner use
- ◆ Controls Spiders, Roaches, Ants, Crickets and other insects outside the house
- ◆ Controls Caterpillars, Worms and other insects on vegetables
- ◆ Odorless and non-staining
- ◆ Active ingredient: Esfenvalerate
- ◆ 1 pint ready-to-use



IRAC Code
3

### MONTEREY TAKE DOWN GARDEN SPRAY

- ◆ A dormant and growing season insect spray containing natural Pyrethrin plus canola oil
- ◆ **Combines the fast knockdown of Pyrethrin and the residual activity of horticultural oils**
- ◆ For use in home gardens and home greenhouses
- ◆ Good replacement for Chlorpyrifos or Diazinon products (higher safety rating)
- ◆ Use on vegetables, fruit trees, houseplants, ornamentals, etc.
- ◆ Controls Aphids, Beetles, Mealy Bugs, Caterpillars, Plant Bugs, etc.
- ◆ 1 pint. concentrate and 32 oz. ready-to-use spray



IRAC Code
3

### DELTAGARD G / SUSPEND SC

- ◆ **Quick knockdown and long residual control of more than 50 insect pests**, including: ants, cockroaches, fleas, mosquitoes, scorpions, spiders and ticks
- ◆ Flexible label allows application as perimeter control and for subsurface insect pests in and around lawns and landscapes
- ◆ Low odor, residue & dust
- ◆ Active ingredient: Deltamethrin
- ◆ Granular DeltaGard in 20 lb bag; Liquid Suspend in 1 pint bottle



IRAC Code
3A

### TENGARD / PERMETHRIN

- ◆ For use indoors and around buildings to control Subterranean termites, ants, bees, beetles, carpenter ants, cockroaches, crickets, earwigs, fleas, flies, firebrats, pillbugs, scorpions, silverfish, sowbugs, spiders, ticks and wasps
- ◆ **For use by individuals/firms licensed or registered by the state to apply TERMITICIDE products**
- ◆ 1 quart, 1.25 gal jugs



IRAC Code
3A

### ZYLAM 20 SC

- ◆ **Rapid control of damaging Turfgrass insects**
- ◆ Systemic control — Moves from the soil into the plant
- ◆ More soluble than Imidacloprid (Merit), so it **moves faster and can actually take care of a CURRENT insect problem, in addition to preventing**
- ◆ **Same active ingredient (Dinotefuran) as Safari**
- ◆ 2.7 lb jug treats 1 acre of turf



IRAC Code
4

### ZYLAM LIQUID

- ◆ **Rapid control of damaging Tree & Shrub insects**
- ◆ Systemic control — Moves from point of application or from soil into rest of the plant
- ◆ More soluble than Imidacloprid (Merit), so it **works faster and offers better control of tough insects like Scale and Boring Insects such as EAB**
- ◆ Can be applied as a foliar spray, a soil injection or drench, or in a bark banding application
- ◆ **Bark Banding applications REQUIRE a 100% Organosilicone Surfactant in the tank mix for expected performance**
- ◆ **Same active ingredient (Dinotefuran) as Safari**
- ◆ 1 quart tip and measure jug



IRAC Code
4

**MALLET/IMIDACLOPRID 0.5G**

- ◆ **For broad-spectrum, long-term, systemic control of soil inhabiting pests such as grubs in turfgrass and landscape plantings**
- ◆ Systemic product will be translocated upward within the plant
- ◆ Sufficient residual activity so that applications can be made preceding the egg laying activity of target pests
- ◆ Low use rates, designed specifically for soil application
- ◆ Controls Northern and Southern Masked Chafers, Asiatic Garden Beetle, European Chafer, Green June Beetle, May or June Beetles, Japanese and Oriental Beetles, Billbugs, Annual Bluegrass Weevil, Black Turfgrass Ataenius, European Crane Fly, Mole Crickets and will also suppress Cutworms and Chinchbugs
- ◆ Convenient granular formulation for broadcast application to turf and ornamentals
- ◆ **Merit 0.5G equivalent**
- ◆ 30lb. bag
- ◆ Group: 4A

IRAC Code

4A

**MALLET/IMIDACLOPRID 75WSB**

- ◆ **For foliar AND systemic insect control in turfgrass (including sod farms), landscape ornamentals, fruit and nut trees, and interior landscapes**
- ◆ Controls Northern and Southern Masked Chafers, Asiatic Garden Beetle, European Chafer, Green June Beetle, May or June Beetles, Japanese and Oriental Beetles, Billbugs, Annual Bluegrass Weevil, Black Turfgrass Ataenius, European Crane Fly, Mole Crickets and will also suppress Cutworms and Chinchbugs
- ◆ When soil applied through drenches, injection or broadcast sprays, the systemic product will be translocated upward into the plant system from root uptake — **This systemic activity in woody stems is delayed until active ingredient can reach all parts of the plant, so applications should be made prior to anticipated pest infestation**
- ◆ Foliar applications offer locally systemic activity against insect pests
- ◆ Low use rates for cost-efficient, highly-effective control
- ◆ Water-soluble packets simplify measuring and mixing
- ◆ **Merit 75 WSP equivalent**
- ◆ 4 X 1.6 oz. WSB packs and 48 X 1.6 oz. WSB drums

IRAC Code

4A

**MALLET/IMIDACLOPRID 2F**

- ◆ Same systemic AND foliar control as Imidacloprid 75WSB, in a **flowable formulation that is easy to measure and mix**
- ◆ For turf and ornamental use
- ◆ **Merit 2F equivalent**
- ◆ 1 qt. and 1 gal. jugs

IRAC Code

4A

**BAYER 2-IN-1 SYSTEMIC ROSE & FLOWER CARE**

- ◆ 6-9-6 Fertilizer plus Imidacloprid **feeds plants and protects against insects in 1 step**
- ◆ Controls Aphids, Japanese Beetles (adult), Leafminers, Whiteflies and more
- ◆ Rainproof protection lasts up to 8 weeks
- ◆ 10 lb. jug

IRAC Code

4A

**MONTEREY GARDEN INSECT SPRAY** ✦

- ◆ A bacterial product used on ornamentals, lawns, vegetables and fruit trees to control caterpillars, leafminers, thrips, borers and more
- ◆ **OMRI Listed (Certified Organic)**
- ◆ Active ingredient: Spinosad
- ◆ 1 quart jug

IRAC Code

5

**QUALI-PRO ABAMECTIN 0.15EC INSECTICIDE/MITICIDE**

- ◆ The "hub" product of Mite and Leafminer control measures in ornamentals
- ◆ Reliable, long-lasting control of Mites and Leafminers, along with suppression of Whitefly, Thrips and Aphids on foliage plants, woody ornamentals and Christmas trees grown in greenhouses or fields
- ◆ Outstanding plant safety record including end-of-crop cycles
- ◆ **Avid equivalent**
- ◆ 1 qt. squeeze and measure bottle, and 1 gal. jug

IRAC Code

6

**AMDRO FIRE ANT BAIT**

- ◆ Controls native and imported Fire Ants
- ◆ **Kills the queen and destroys the mound**
- ◆ Apply to individual mounds, or broadcast to large infested areas
- ◆ Active ingredient: Hydramethylnon
- ◆ 1lb. jug

IRAC Code

20



**LOOK FOR THE GREEN SYMBOL (✦) THROUGH-OUT THE SOURCE BOOK TO EASILY IDENTIFY GREEN PRODUCTS**

#### AZATROL EC ★

- ◆ Broad-spectrum botanical insecticide with high efficacy on chewing and sucking insect pests such as White Flies, Leafrollers, Aphids and Mites, but low environmental impact
- ◆ **Multiple modes of action make it virtually impossible for insect resistance to develop,** and the perfect complement to an Integrated Pest Management program
- ◆ **Anti-feedant:** Insects will feed less or not at all on treated foliage, ultimately starving to death
- ◆ **Insect Growth Regulator:** Insects fail to mature and reproduce, reducing or eliminating populations over time
- ◆ **Anti-ovipository and Repellant:** The likelihood of insect infestation is greatly decreased in treated plants, adding a preventative aspect to treatment programs
- ◆ Does not provide the quick “knock-down” of contact poisons, but 21 days after treatment, insect control is comparable to the standards
- ◆ **Certified organic formulation (OMRI listed)**
- ◆ Does not harm beneficial insect populations including Predator Wasps, Ladybugs, Honeybees and Preying Mantis
- ◆ **Active ingredient: Azadirachtin (also found in neem oil)**
- ◆ 1 qt. and 1 gal. jugs



IRAC Code

UN

#### ST GABRIEL SHARPSHOOTER ★

- ◆ **All natural made from Clove Oil and Peppermint Oil**
- ◆ Kills on contact, no noxious odor
- ◆ Can be used indoor around pantries, baseboards and stoves; and outdoor sprayed directly on plants
- ◆ Harmless to pets, humans and the environment
- ◆ Controls: Ants, Aphids, Leafhoppers, Mealybugs, Fleas, Mites, Whiteflies, Earwigs, Slugs, Mosquitoes, Caterpillars, Cockroaches, Palmetto bugs
- ◆ 1 gal. concentrate; 1 gal. and 1/2 gal. ready-to-use



IRAC Code

UN

#### IMPEDE/INSECTICIDAL SOAP ★

- ◆ **Effective against soft-bodied insects and mites**, such as Aphids, Thrips, White Flies, Spider Mites and Immature Leafhoppers
- ◆ No residual activity, so repeated applications usually must be made, which can cause some burn on sensitive plants
- ◆ **Water hardness reduces effectiveness, so use a conditioning agent if necessary**
- ◆ 1 pt. and 2.5 gal. jugs

IRAC Code

UN

#### HORTICULTURAL OIL/DORMANT OIL ★

- ◆ **Effective on Scales, Aphids, Mites that winter on the plant and Caterpillars that winter as eggs on the plant (Leafrollers, Tent Caterpillars)**
- ◆ Advantages as an insecticide alternative are safety, effectiveness and limited effects on beneficial insects
- ◆ Main limitation is the small but real potential to cause injury (phytotoxicity) to sensitive plants
- ◆ **Formerly known as Saf-T-Side**
- ◆ 1 qt., 1 gal. and 5 gal. jugs



IRAC Code

UN

#### BRANDT NEMA-Q NEMATICIDE ★

- ◆ Controls Ectoparasitic and Endoparasitic Nematode species, by contact and through ingestion
- ◆ **OMRI Listed 100% Natural Bio-Pesticide**
- ◆ 5 gal jug

#### HORNET AND WASP SPRAY

- ◆ Aerosol can





**WILCO GOPHER BAITS**

**Type I Bait**

- ◆ Wilco .50% Type I Bait uses Milo grain,
- ◆ Patented attractant which draws the gopher to the bait
- ◆ Single feeding formulation
- ◆ 1lb. and 5lb. container

**Type 2 Bait**

- ◆ For 'Homeowner' use — does not require a permit Type II Bait
- ◆ The active ingredient in Wilco's Type 2 bait is an anti-coagulant
- ◆ **Essential that the gopher(s) consume (or eat) the bait three to four consecutive days**
- ◆ **Ag version is restricted material use label**
- ◆ 1lb., 5lb. 25lb. or 50lb. Container



**WILCO GROUND SQUIRREL BAIT**

- ◆ An anti-coagulant, **requiring the ground squirrel to consume (or eat) the bait for three to four consecutive days**
- ◆ Contains no paraffin or moisture inhibitors, making it more efficacious to the ground squirrel
- ◆ This bait requires placement in a tamper resistant bait station
- ◆ 4lb. or 20lb. container



**EATON GOPHER BAIT BLOCKS**

- ◆ This gopher bait is in 'block form' which makes it very easy to use and a popular alternative to grain baits
- ◆ The taste and aroma of these blocks are unusually irresistible to gophers
- ◆ **For best results, the block should be inserted into the gopher's main runway**
- ◆ 1lb. and 10lb. container



**MOLE AND GOPHER GASSER**

- ◆ Kills gophers and squirrels

**TALPIRID MOLE BAIT**

- ◆ 2 X 10 worm shaped baits
- ◆ One worm contains a lethal dose and can kill in 24 hours
- ◆ **TALPIRID's size, shape and feel let moles consume the bait in the same manner as its primary food source, the earthworm**
- ◆ Special enhancers ensure immediate attraction and excellent product acceptance
- ◆ Box of 20



**WILCO BAIT STATION FOR SQUIRRELS OR RATS**

- ◆ Molded of heavy-duty dark green plastic that withstands abuse
- ◆ BSS design is ideal for ground squirrels, while discouraging non-target animals
- ◆ BSR has the same quality features as our ground squirrel bait station, except it is sized for rat/mouse control applications

**IRONFIST SLUG & SNAIL BAIT**

- ◆ **Iron Fist is a less toxic bait – an alternative to the popular Metaldehyde**
- ◆ 2% Sodium Ferric EDTA is a stomach poison. Once ingested by the slug/snail, IRONFIST® immediately inhibits further feeding and kills them in 1-3 days.
- ◆ It is virtually harmless to higher animals including mammals, birds and fish, and it does not affect earthworms and other ground dwelling beneficials.
- ◆ The bait pellets are biodegradable, releasing iron into the soil for plant uptake.
- ◆ 25 lb and 50 lb bags

**CORRY'S SLUG AND SNAIL DEATH**

- ◆ Contains 3.25% META® for fast, effective control of slugs and snails. Provides up to two weeks of plant protection
- ◆ Can be used around lawns, ground covers, fruit, vegetable, flower and ornamental plants
- ◆ 4lb. container

**SLUGGO SNAIL BAIT** ✦

- ◆ Can safely be used around pets and wildlife
- ◆ Contains iron phosphate, which occurs naturally in soil
- ◆ 5lb. and 25lb.

**DEADLINE SLUG & SNAIL KILLER**

- ◆ Deadline Bullets (50 lb.) bag contains 4% Metaldehyde. Remains effective after rain and watering
- ◆ Deadline Liquid (1 qt. bottle) can be used around flowers, lawns, ornamentals, vegetables and berries

**LOOK FOR THE GREEN SYMBOL (✦)  
THROUGH-OUT THE SOURCE BOOK TO EASILY  
IDENTIFY GREEN PRODUCTS**

- ◆ Larger traps for gophers and moles that are easy to use and more effective than claw traps
- ◆ Trap includes detailed instructions

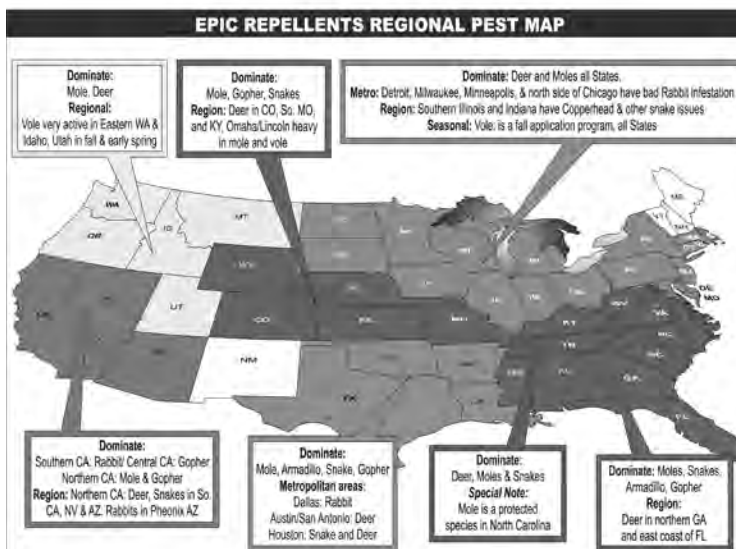
◆ The non-drying, non-flowing glue retains its superior holding power indefinitely

◆ Trap and attractant sold separately

- ◆ Easy to set, this trap requires no bait and lasts for an unlimited number of kills
- ◆ Safer and proven more effective than gases or poisons

## REPELLENTS

- ◆ EPIC products are “green” REPELLENTS in a convenient granular formulation
- ◆ Exempt from EPA registration under Section 25 (b) of FIFRA = Designated as **minimum risk** pesticide
- ◆ Powerful, highly effective, easy-to-use and long lasting
- ◆ 25 lb buckets:
  - **DEER** Scram
  - **RABBIT** Scram
  - **MOLE** Scram
  - **GOPHER** Scram
  - **VOLE** Scram
  - **SNAKE** Scram
- ◆ 8 lb bucket: **SNAKE** Scram



- ◆ **Long lasting formula stops the digging**
- ◆ Environmentally safe & will not harm vegetation
- ◆ 1 gal concentrate

- ◆ **The scent triggers a fear instinct and stops the habitual foraging cycle of deer and rabbits**
- ◆ Long lasting and rain resistant – works year round
- ◆ Environmentally safe, bio-degradable, will not harm plants or animals
- ◆ 40 oz. and 1 gal. sizes in liquid; 40lb. granular formulation

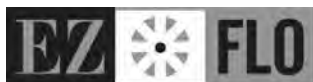
- ◆ **Application to treated area makes the food supply very undesirable to geese, turkeys and ducks, causing them to look for another feeding location**
- ◆ Will not harm animals when used as directed
- ◆ Works year round
- ◆ 1 qt., 1 gal. and 2.5 gal. concentrate

- ◆ **Formulated to coat earthworms and tender roots, the main sources of food for moles, forcing moles to look elsewhere for food**
- ◆ Provides 99% reduction in mole activity just 4 weeks after treatment
- ◆ Environmentally safe – will not harm vegetation
- ◆ 1 qt. ready-to-use and 1 gal. concentrate

- ◆ **Repels with both scent and taste, for guaranteed effectiveness on high-density rabbit populations and difficult-to-repel baby rabbits**
- ◆ Long lasting and rain resistant
- ◆ Dries odorless
- ◆ 40 oz. and 1 gal. concentrate

- ◆ **Confuses the snake's senses of smell and taste, forcing it to look elsewhere to live**
- ◆ Naphthalene-free – does not pose health hazards like many other snake REPELLENTS
- ◆ Repellency is unique to the individual snake, not just the species or genus – so results may vary
- ◆ Formulated to penetrate deeply into cracks and crevices, where snakes like to hide
- ◆ 1 qt. concentrate

## REPELLENTS (CONT.)



### EZ FLO CRITTER CONTROL

- ◆ Organic control for use with EZ Flo Fertigation System
- ◆ Maintains a consistent barrier for better control
- ◆ Effective on deer, gophers, rabbits, moles and voles
- ◆ 1 qt., 1 gal., 2 gal., and 5 gal. sizes

## FUNGICIDES

Fungicide Application Tip: Selecting the proper tank mix or rotation partners in a fungicide resistance program is critical. To develop an effective tank mix or rotation, use fungicides with different Group Codes (from the FRAC - Fungicide Resistance Action Committee), which denote different fungicide families or classes. Second, always partner site-specific products with a multi-site inhibitor fungicide (Group Code M). Always read product labels thoroughly before tank-mixing or applying any products.

### CLEARY'S 3336

- ◆ Economical, cost-effective, broad-spectrum disease control for cool and warm season turf grasses, ornamentals, trees, shrubs, and flowers
- ◆ Systemic, preventative disease protection against major turf and ornamental diseases including: Brown Patch, Dollar Spot, Gray Leaf Spot, Anthracnose, Summer Patch, Fusarium Blight, Powdery Mildew, Leaf Spots & Blights, and Stem, Crown and Root Rots
- ◆ **Systemic mode of action allows movement of product upward through xylem to other parts of the plant**
- ◆ Excellent tank mix partner with most other fungicides
- ◆ Active ingredient: Thiophanate-Methyl
- ◆ 2.5 gal. flowable, 2lb. WP, 30lb. and 50lb. granular

FRAC Code
1

### QUALI-PRO THIOPHANATE-METHYL

- ◆ Cleary's 3336 equivalent
- ◆ 4.5 Flowable formulation in 2.5 gal jug; 85WDG formulation in 5.5 lb jug; 30 lb granular

FRAC Code
1



## FUNGICIDES (CONT.)

### QUALI-PRO TM/C WDG

- ◆ **A formulation of Chlorothalonil & Thiophanate-Methyl for both contact and systemic modes of action**
- ◆ Long-lasting, all purpose fungicide provides cost effective, broad-spectrum disease control for cool and warm season grasses, turf and ornamentals
- ◆ Systemic, preventative disease protection against major turf & ornamental diseases including Brown Patch, Dollar Spot, Gray Leaf Spot, Anthracnose, Summer Patch, Fusarium Blight, Powdery Mildew, Leaf Spots & Blights, and Stem, Crown and Root Rots
- ◆ **For use only by certified applicators or those under their immediate supervision; Not for use on home lawns**
- ◆ Excellent tank mix partner with most other fungicides
- ◆ **Spectro 90 equivalent**
- ◆ 5lb. jug — water dispersible granules



FRAC Code
1

### QUALI-PRO IPRODIONE 2SE

- ◆ Delivers fast-acting, long-lasting control of Brown Patch, Dollar Spot, Snow Molds, as well as other diseases in turf, plus unsurpassed control of Rhizoctonia, Botrytis, Fusarium, and alternaria in ornamentals
- ◆ Features contact and systemic control with 14 days or more of dependable residual
- ◆ Mode of Action: Foliar-applied flowable fungicide **that provides long-lasting preventive and curative disease control on contact and systemically** (Local Penetrant)
- ◆ Excellent choice for year round disease control
- ◆ **Not for use on home lawns and/or ornamentals**
- ◆ **26GT Flo equivalent**
- ◆ 2.5 gal. jug



FRAC Code
2

### QUALI-PRO PROPICONAZOLE 14.3

- ◆ Economical, broad-spectrum disease control for cool and warm season grasses, trees, shrubs, and flowers
- ◆ **Controls 49 turf & ornamental diseases** including Rusts, Pink & Gray Snowmolds, Gray Leaf Spot, Zoysia Patch, Dollar Spot, Summer Patch, Anthracnose, Leaf Spot, Brown Patch and Powdery Mildew
- ◆ Microemulsion formulation for less odor, better tank stability and excellent plant coverage
- ◆ **Locally systemic mode of action for long-lasting disease control**
- ◆ Excellent tank mix partner with most other fungicides
- ◆ **Banner Maxx equivalent**
- ◆ 1 qt., 1 gal. and 2.5 gal. jugs



FRAC Code
3

### MONTEREY FUNGI-FIGHTER

- ◆ **Less concentrated formulation of Propiconazole for homeowner use**
- ◆ Liquid systemic fungicide for use on lawns, roses, flowers, and fruit and nut trees
- ◆ **Prevents diseases such as Black Spot, Powdery Mildew, Rust, Brown Patch, Leaf Spot & many more**
- ◆ Absorbed into the plant — can't be washed off by rain after spray has dried
- ◆ Works up to four weeks for certain diseases
- ◆ Highly effective when used to prevent diseases or applied at the first sign of disease; Will not eliminate disease already present
- ◆ 1 pt. bottles



FRAC Code
3

### QUALI-PRO MYCLOBUTANIL 20EW/EAGLE 20 EW

- ◆ **Systemic, preventative and curative fungicide** for the control of Dollar Spot, Anthracnose, Summer Patch, Brown Patch, Powdery Mildew, Rust, Scab and other diseases
- ◆ For use on golf course fairways, roughs, tees and greens, commercial and residential stone fruit trees, apple trees and grapes, and other landscape ornamentals
- ◆ For use on ornamentals such as Chrysanthemums, Daylilies, Poinsettias and Roses in nurseries, landscapes and greenhouses
- ◆ Best control of labeled diseases is achieved when applied on a 7- to 10-day application schedule
- ◆ 1 gal. jug Myclobutanil and 1 pint Eagle



FRAC Code
2

### TEBUCONAZOLE

- ◆ Highly effective disease control for Golf Course Turf and Ornamentals
- ◆ **Not for use on residential lawns**
- ◆ Preventative and curative control with up to 3 weeks residual
- ◆ **Cleary's Torque equivalent**
- ◆ FRAC Code 3
- ◆ 1 gal. and 2.5 gal. jugs



FRAC Code
3

### BAYER FUNGUS CONTROL FOR LAWNS

- ◆ **Cures and prevents common diseases in home lawns** including Anthracnose, Brown Patch, Copper Spot, Dollar Spot, Powdery Mildew, Red Thread, Rust, Stripe Smut, Summer Patch & Frog-Eye Disease, and provides up to two months protection depending on disease type
- ◆ Watering after application carries the fungicide into the root zone where it enters the grass plant — rain or water cannot wash off this internal protection
- ◆ **Best results when applied preventatively (prior to hot, humid weather that favors many diseases), or at the very first sign of disease**
- ◆ Easy-to-use granules
- ◆ Active ingredient: Triadimefon
- ◆ 6lb. and 10lb. bags



FRAC Code
3

### QUALI-PRO MEFENOXAM 2AQ

- ◆ An aqueous, flowable, systemic fungicide for use on selected Warm- and Cool-Season Turf, Nursery and Ornamental crops to control certain diseases caused by members of the Oomycete class of fungi. Other fungicides must be used to control diseases incited by other classes of fungi
- ◆ **Preventative disease control of Pythium, Phytophthora, Yellow Tuft, and Downy Mildew, as well as Damping-off and the Root & Stem Rot diseases of ornamentals caused by Pythium & Phytophthora**
- ◆ Systemic mode of action and translocation through the plant can provide up to three weeks protection
- ◆ Low odor compared to EC formulations
- ◆ Excellent tank mix partner with most other fungicides. Combine with Quali-Pro Chlorothalonil for added Brown Patch control during stressful summer decline months
- ◆ In ornamentals, it may be applied through irrigation systems, as a soil drench or as a soil surface spray, or incorporated into a soil mix
- ◆ **Subdue Maxx equivalent**
- ◆ 1 qt., 1 gal., and 2.5 gal. jugs



FRAC Code
4

**SUBDUE GR**

- ◆ Same systemic active ingredient — Mefenoxam — in a convenient granular formulation
- ◆ Use as a soil surface application or pre-potting growing media mix for soil-borne diseases (Pythium, Phytophthora) that cause Root and Stem Rots in ornamentals, or for treating Downy Mildew in turf
- ◆ 25lb. bag



FRAC Code

4

**PILLAR G INTRINSIC**

- ◆ Combination of pyraclostrobin (active ingredient in Insignia) and triticonazole (active ingredient in Trinity) on a granular carrier
- ◆ Controls more diseases than any other granular fungicide – including most patch diseases, dollar spot, anthracnose, snow molds and leaf spots
- ◆ Labeled for use on golf course turf AND lawns
- ◆ Clay granules are convenient to apply, and provide excellent spreading characteristics due to its density and uniform particle size
- ◆ Also shown to improve plant health in the form of stress management including drought/moisture and temperature extremes
- ◆ 30 lb bag

FRAC Codes

3 &amp; 11

**TURFCIDE / PCNB / PARFLO**

- ◆ A contact and preventative fungicide recommended for the control of certain soil-borne diseases
- ◆ In turf areas, including home lawns, it controls Gray and Pink Snow Mold, Brown Patch and Leaf Spot/Melting Out
- ◆ In ornamentals, it controls Root/Stem Rot, Damping Off, Neck Dry Rot, Bulb/Stem Rot, Crown Rot, Black Rot, Bulb Dry Rot, Petal Blight, Needle Blight and Flower Blight
- ◆ For best results, use as a preventative application before diseases appear, or apply at the first sign of the infection
- ◆ 50 lb bag in granular; Flowable in 2.5 gal jug and 30 gal drum

FRAC Code

14

**QUALI-PRO FOSETYL-AL 80WDG**

- ◆ True up-and-down systemic action for effective, preventative disease control in turf, ornamentals & bedding plants
- ◆ Controls Pythium Blight/Root Rot, Yellow Tuft, Phytophthora, Downy Mildew and Fire Blight
- ◆ Also suppresses Bacterial Blight and Summer Stress Complex when tank-mixed with other fungicides
- ◆ Stimulates defense mechanisms and enhances plant vigor
- ◆ Single application delivers up to 30 days protection
- ◆ Active ingredient: Aluminum-tris (O-ethyl phosphonate); Aliette WDG/Aliette Signature equivalent
- ◆ 5.5lb. jug and 4 oz. jar



FRAC Code

M

**MONTEREY AGRI-FOS**

- ◆ For the effective control of the following diseases in ornamentals, turf, conifers, vegetables and fruit trees:
  - Phytophthora diseases associated with Sudden Oak Death (S.O.D.)
  - Pythium in Turf
  - Downy Mildew
  - Fire Blight
  - Crown Rot and Root Rot
  - Damping off
- ◆ May be applied as a soil drench, foliar spray, soil incorporation or as a bare root dip, and works both as a curative and preventative treatment



FRAC Code

M

**MONTEREY AGRI-FOS W/ PENTRA-BARK**

- ◆ Systemic Fungicide for control and prevention of Sudden Oak Death (S.O.D.)
- ◆ For use on Oak trees
- ◆ To be used as a basal bark application — mix and apply uniformly to the trunk of tree from top down to ground level
- ◆ Labeled for use in California only
- ◆ Active ingredient: Phosphorous Acid
- ◆ 1/2 gal. container with Pentra-Bark Surfactant included



FRAC Code

M

**MONTEREY LIQUI-COP**

- ◆ Liquid Copper Fungicide spray for disease prevention
- ◆ Use to control Leaf Curl, Shothole, Brown Rot on almonds, apricots, peaches, nectarines, walnuts, citrus
- ◆ Economical replacement for Bordeaux mixture
- ◆ No oil or sticker required
- ◆ 1 qt. bottle



FRAC Code

M

**MANZATE PRO-STICK T&O 75 WDG**

- ◆ A protectant fungicide that provides a wide window of application, protecting against a wide range of diseases in turfgrasses and ornamentals
- ◆ No documented resistance of fungal diseases, making it perfect for use in resistance management programs
- ◆ Protects against Melting Out, Rust, Copper Spot, Fusarium, Red Thread, Slime Mold, Algae, Dollar Spot, Brown Patch, Pythium and more
- ◆ Active ingredient: Mancozeb; Dithane and Penncozeb equivalent
- ◆ 6lb. bag

FRAC Code

M



### PENTATHLON LF

- ◆ **Premium liquid flowable formulation of Mancozeb** — easy to measure, handle and mix; Excellent tank-mix compatibility
- ◆ **Same broad-spectrum fungicidal activity** — up to 14-days control of most major turf diseases such as Brown Patch, Dollar Spot, Melting Out, Rusts, Red Thread and Fusarium
- ◆ **Preventative, Non-systemic, Multi-site** — no resistance development, excellent choice for inclusion in mode of action resistance management programs
- ◆ Provides rainfastness and residual activity necessary for disease control
- ◆ No dye — Will not stain equipment or clothing
- ◆ 2.5 gal. jug

<b>FRAC Code</b>
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M
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### QUALI-PRO CHLOROTHALONIL

- ◆ Economical, cost-effective, broad-spectrum disease control for cool and warm season grasses, trees, shrubs, and flowers
- ◆ **Effective for use in programs that attempt to minimize disease resistance to fungicides**
- ◆ Preventative disease protection against major turf and ornamental diseases including: Dollar Spot, Brown Patch, Algae, Leaf Spot, Anthracnose, Fusarium and Rust
- ◆ **Modes of Action:**
  - **Contact** — for quick results
  - **Multi-Site** — no disease resistance with repeated use
  - **Preventative**
- ◆ Excellent tank mix partner with most other fungicides
- ◆ **Daconil Weatherstik/Daconil Ultrex/Daconil ZN equivalents**
- ◆ 720 SFT formulation in 2.5 gal. jug; DF in 5lb. jug; 500ZN in 2.5 gal. jug



<b>FRAC Code</b>
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M
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### QUALI-PRO ENCLAVE

- ◆ **Quad-Control Technology utilizes multiple modes of action, offering superior disease control and resistance management**
- ◆ Delivers both preventative and curative control of many diseases including Anthracnose, Brown Patch, Dollar Spot and Snow Mold
- ◆ **Outstanding value per acre – Chlorothalonil, Iprodione, Thiophanate-methyl and Tebuconazole in ONE product**
- ◆ 2.5 gal flowable



<b>FRAC Codes</b>
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1, 2, 3, & M
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### GROWTH PRODUCTS

#### COMPANION BIOLOGICAL FUNGICIDE ★

- ◆ **A safe, 100% natural biological fungicide that both prevents and controls a broad spectrum of root and foliar diseases** such as Root Rot, Blight, Wilt, Bottom- and Stem-Rot, and Bacterial Leaf Spot (Phytophthora, Pythium, Fusarium, Rhizoctonia, Sclerotinia and Xanthomonas Campestris)
- ◆ Contains the naturally occurring beneficial bacterium known as *Bacillus Subtilis* GB03, which combats disease pathogens through multiple modes of action, quickly colonizes a plant's root hairs, and literally crowds out disease producing microbes in the soil
- ◆ Creates a beneficial Induced Systemic Resistance (ISR), whereby plants' own natural immune system is stimulated to better resist diseases
- ◆ **Companion's GB03 also acts a Plant Growth Promoting Rhizobacterium (PGPR) and bio-stimulant** — it naturally encourages plant growth and produces better rooting, branching and flowering on plants
- ◆ 1 qt., 2.5 gal. and 5 gal. jugs



<b>FRAC Code</b>
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N/A (Biological)
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### **WILCO GOPHER BAITS**

#### **Type I Bait**

- ◆ Wilco .50% Type I Bait uses Milo grain,
- ◆ Patented attractant which draws the gopher to the bait
- ◆ Single feeding formulation
- ◆ 1lb. and 5lb. container

#### **Type 2 Bait**

- ◆ For 'Homeowner' use — does not require a permit Type II Bait
- ◆ The active ingredient in Wilco's Type 2 bait is an anti-coagulant
- ◆ **Essential that the gopher(s) consume (or eat) the bait three to four consecutive days**
- ◆ **Ag version is restricted material use label**
- ◆ 1lb., 5lb. 25lb. or 50lb. Container



### **WILCO GROUND SQUIRREL BAIT**

- ◆ An anti-coagulant, **requiring the ground squirrel to consume (or eat) the bait for three to four consecutive days**
- ◆ Contains no paraffin or moisture inhibitors, making it more efficacious to the ground squirrel
- ◆ This bait requires placement in a tamper resistant bait station
- ◆ 4lb. or 20lb. container



### **EATON GOPHER BAIT BLOCKS**

- ◆ This gopher bait is in 'block form' which makes it very easy to use and a popular alternative to grain baits
- ◆ The taste and aroma of these blocks are unusually irresistible to gophers
- ◆ **For best results, the block should be inserted into the gopher's main runway**
- ◆ 1lb. and 10lb. container



### **MOLE AND GOPHER GASSER**

- ◆ Kills gophers and squirrels

### **TALPIRID MOLE BAIT**

- ◆ 2 X 10 worm shaped baits
- ◆ One worm contains a lethal dose and can kill in 24 hours
- ◆ **TALPIRID's size, shape and feel let moles consume the bait in the same manner as its primary food source, the earthworm**
- ◆ Special enhancers ensure immediate attraction and excellent product acceptance
- ◆ Box of 20



### **WILCO BAIT STATION FOR SQUIRRELS OR RATS**

- ◆ Molded of heavy-duty dark green plastic that withstands abuse
- ◆ BSS design is ideal for ground squirrels, while discouraging non-target animals
- ◆ BSR has the same quality features as our ground squirrel bait station, except it is sized for rat/mouse control applications

### **IRONFIST SLUG & SNAIL BAIT**

- ◆ **Iron Fist is a less toxic bait – an alternative to the popular Metaldehyde**
- ◆ 2% Sodium Ferric EDTA is a stomach poison. Once ingested by the slug/ snail, IRONFIST® immediately inhibits further feeding and kills them in 1-3 days.
- ◆ It is virtually harmless to higher animals including mammals, birds and fish, and it does not affect earthworms and other ground dwelling beneficials.
- ◆ The bait pellets are biodegradable, releasing iron into the soil for plant uptake.
- ◆ 25 lb and 50 lb bags

### **CORRY'S SLUG AND SNAIL DEATH**

- ◆ Contains 3.25% META® for fast, effective control of slugs and snails. Provides up to two weeks of plant protection
- ◆ Can be used around lawns, ground covers, fruit, vegetable, flower and ornamental plants
- ◆ 4lb. container

### **SLUGGO SNAIL BAIT** ✦

- ◆ Can safely be used around pets and wildlife
- ◆ Contains iron phosphate, which occurs naturally in soil
- ◆ 5lb. and 25lb.

### **DEADLINE SLUG & SNAIL KILLER**

- ◆ Deadline Bullets (50 lb.) bag contains 4% Metaldehyde. Remains effective after rain and watering
- ◆ Deadline Liquid (1 qt. bottle) can be used around flowers, lawns, ornamentals, vegetables and berries

**LOOK FOR THE GREEN SYMBOL (✦) THROUGH-OUT THE SOURCE BOOK TO EASILY IDENTIFY GREEN PRODUCTS**

## CINCH GOPHER AND MOLE TRAPS

- ◆ Larger traps for gophers and moles that are easy to use and more effective than claw traps
- ◆ Trap includes detailed instructions

## STICKEM RAT GLUE TRAPS

- ◆ The non-drying, non-flowing glue retains its superior holding power indefinitely

## YELLOW JACKET TRAP AND ATTRACTANT

- ◆ Trap and attractant sold separately

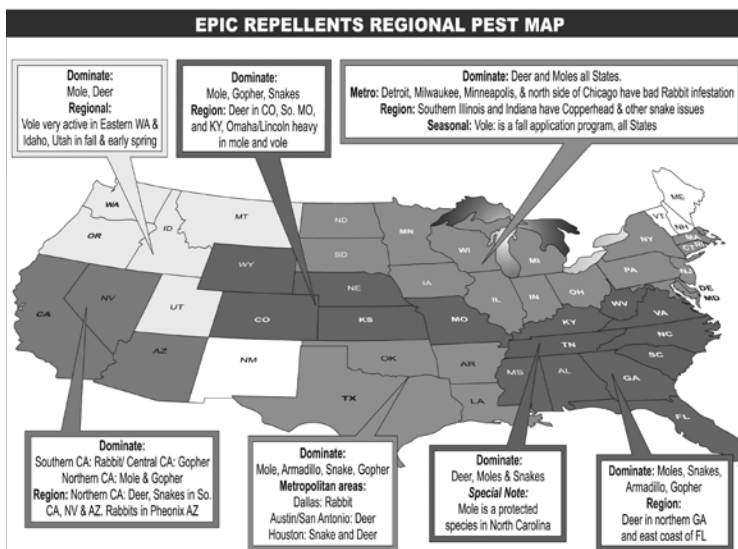
## MACABEE GOPHER TRAP

- ◆ Easy to set, this trap requires no bait and lasts for an unlimited number of kills
- ◆ Safer and proven more effective than gases or poisons

## REPELLENTS

## EPIC PROFESSIONAL REPELLENTS

- ◆ EPIC products are “green” REPELLENTS in a convenient granular formulation
- ◆ Exempt from EPA registration under Section 25 (b) of FIFRA = Designated as **minimum risk** pesticide
- ◆ Powerful, highly effective, easy-to-use and long lasting
- ◆ 25 lb buckets:
  - **DEER** Scram
  - **RABBIT** Scram
  - **MOLE** Scram
  - **GOPHER** Scram
  - **VOLE** Scram
  - **SNAKE** Scram
- ◆ 8 lb bucket: **SNAKE** Scram



## ARMADILLO REPELLANT

- ◆ **Long lasting formula stops the digging**
- ◆ Environmentally safe & will not harm vegetation
- ◆ 1 gal concentrate

## DEER & RABBIT REPELLANT

- ◆ **The scent triggers a fear instinct and stops the habitual foraging cycle of deer and rabbits**
- ◆ Long lasting and rain resistant – works year round
- ◆ Environmentally safe, bio-degradable, will not harm plants or animals
- ◆ 40 oz. and 1 gal. sizes in liquid; 40lb. granular formulation

## GOOSE REPELLANT

- ◆ **Application to treated area makes the food supply very undesirable to geese, turkeys and ducks, causing them to look for another feeding location**
- ◆ Will not harm animals when used as directed
- ◆ Works year round
- ◆ 1 qt., 1 gal. and 2.5 gal. concentrate

## MOLE REPELLANT

- ◆ **Formulated to coat earthworms and tender roots, the main sources of food for moles, forcing moles to look elsewhere for food**
- ◆ Provides 99% reduction in mole activity just 4 weeks after treatment
- ◆ Environmentally safe – will not harm vegetation
- ◆ 1 qt. ready-to-use and 1 gal. concentrate

## RABBIT – DUAL ACTION REPELLANT

- ◆ **Repels with both scent and taste, for guaranteed effectiveness on high-density rabbit populations and difficult-to-repel baby rabbits**
- ◆ Long lasting and rain resistant
- ◆ Dries odorless
- ◆ 40 oz. and 1 gal. concentrate

## SNAKE REPELLANT

- ◆ **Confuses the snake's senses of smell and taste, forcing it to look elsewhere to live**
- ◆ Naphthalene-free – does not pose health hazards like many other snake REPELLENTS
- ◆ Repellency is unique to the individual snake, not just the species or genus – so results may vary
- ◆ Formulated to penetrate deeply into cracks and crevices, where snakes like to hide
- ◆ 1 qt. concentrate

## REPELLENTS (CONT.)



### EZ FLO CRITTER CONTROL

- ◆ Organic control for use with EZ Flo Fertigation System
- ◆ Maintains a consistent barrier for better control
- ◆ Effective on deer, gophers, rabbits, moles and voles
- ◆ 1 qt., 1 gal., 2 gal., and 5 gal. sizes

## FUNGICIDES

Fungicide Application Tip: Selecting the proper tank mix or rotation partners in a fungicide resistance program is critical. To develop an effective tank mix or rotation, use fungicides with different Group Codes (from the FRAC - Fungicide Resistance Action Committee), which denote different fungicide families or classes. Second, always partner site-specific products with a multi-site inhibitor fungicide (Group Code M). Always read product labels thoroughly before tank-mixing or applying any products.

### CLEARY'S 3336

- ◆ Economical, cost-effective, broad-spectrum disease control for cool and warm season turf grasses, ornamentals, trees, shrubs, and flowers
- ◆ Systemic, preventative disease protection against major turf and ornamental diseases including: Brown Patch, Dollar Spot, Gray Leaf Spot, Anthracnose, Summer Patch, Fusarium Blight, Powdery Mildew, Leaf Spots & Blights, and Stem, Crown and Root Rots
- ◆ **Systemic mode of action allows movement of product upward through xylem to other parts of the plant**
- ◆ Excellent tank mix partner with most other fungicides
- ◆ Active ingredient: Thiophanate-Methyl
- ◆ 2.5 gal. flowable, 2lb. WP, 30lb. and 50lb. granular

FRAC Code
1

### QUALI-PRO THIOPHANATE-METHYL

- ◆ Cleary's 3336 equivalent
- ◆ 4.5 Flowable formulation in 2.5 gal jug; 85WDG formulation in 5.5 lb jug; 30 lb granular

FRAC Code
1



## FUNGICIDES (CONT.)

### QUALI-PRO TM/C WDG

- ◆ **A formulation of Chlorothalonil & Thiophanate-Methyl for both contact and systemic modes of action**
- ◆ Long-lasting, all purpose fungicide provides cost effective, broad-spectrum disease control for cool and warm season grasses, turf and ornamentals
- ◆ Systemic, preventative disease protection against major turf & ornamental diseases including Brown Patch, Dollar Spot, Gray Leaf Spot, Anthracnose, Summer Patch, Fusarium Blight, Powdery Mildew, Leaf Spots & Blights, and Stem, Crown and Root Rots
- ◆ **For use only by certified applicators or those under their immediate supervision; Not for use on home lawns**
- ◆ Excellent tank mix partner with most other fungicides
- ◆ **Spectro 90 equivalent**
- ◆ 5lb. jug — water dispersible granules



FRAC Code
1

### QUALI-PRO IPRADIONE 2SE

- ◆ Delivers fast-acting, long-lasting control of Brown Patch, Dollar Spot, Snow Molds, as well as other diseases in turf, plus unsurpassed control of Rhizoctonia, Botrytis, Fusarium, and alternaria in ornamentals
- ◆ Features contact and systemic control with 14 days or more of dependable residual
- ◆ Mode of Action: Foliar-applied flowable fungicide **that provides long-lasting preventive and curative disease control on contact and systemically** (Local Penetrant)
- ◆ Excellent choice for year round disease control
- ◆ **Not for use on home lawns and/or ornamentals**
- ◆ **26GT Flo equivalent**
- ◆ 2.5 gal. jug



FRAC Code
2

### QUALI-PRO PROPICONAZOLE 14.3

- ◆ Economical, broad-spectrum disease control for cool and warm season grasses, trees, shrubs, and flowers
- ◆ **Controls 49 turf & ornamental diseases** including Rusts, Pink & Gray Snowmolds, Gray Leaf Spot, Zoysia Patch, Dollar Spot, Summer Patch, Anthracnose, Leaf Spot, Brown Patch and Powdery Mildew
- ◆ Microemulsion formulation for less odor, better tank stability and excellent plant coverage
- ◆ **Locally systemic mode of action for long-lasting disease control**
- ◆ Excellent tank mix partner with most other fungicides
- ◆ **Banner Maxx equivalent**
- ◆ 1 qt., 1 gal. and 2.5 gal. jugs



FRAC Code
3

### MONTEREY FUNGI-FIGHTER

- ◆ **Less concentrated formulation of Propiconazole for homeowner use**
- ◆ Liquid systemic fungicide for use on lawns, roses, flowers, and fruit and nut trees
- ◆ **Prevents diseases such as Black Spot, Powdery Mildew, Rust, Brown Patch, Leaf Spot & many more**
- ◆ Absorbed into the plant — can't be washed off by rain after spray has dried
- ◆ Works up to four weeks for certain diseases
- ◆ Highly effective when used to prevent diseases or applied at the first sign of disease; Will not eliminate disease already present
- ◆ 1 pt. bottles



FRAC Code
3

### QUALI-PRO MYCLOBUTANIL 20EW/EAGLE 20 EW

- ◆ **Systemic, preventative and curative fungicide** for the control of Dollar Spot, Anthracnose, Summer Patch, Brown Patch, Powdery Mildew, Rust, Scab and other diseases
- ◆ For use on golf course fairways, roughs, tees and greens, commercial and residential stone fruit trees, apple trees and grapes, and other landscape ornamentals
- ◆ For use on ornamentals such as Chrysanthemums, Daylilies, Poinsettias and Roses in nurseries, landscapes and greenhouses
- ◆ Best control of labeled diseases is achieved when applied on a 7- to 10-day application schedule
- ◆ 1 gal. jug Myclobutanil and 1 pint Eagle



FRAC Code
2

### TEBUCONAZOLE

- ◆ Highly effective disease control for Golf Course Turf and Ornamentals
- ◆ **Not for use on residential lawns**
- ◆ Preventative and curative control with up to 3 weeks residual
- ◆ **Cleary's Torque equivalent**
- ◆ FRAC Code 3
- ◆ 1 gal. and 2.5 gal. jugs



FRAC Code
3

### BAYER FUNGUS CONTROL FOR LAWNS

- ◆ **Cures and prevents common diseases in home lawns** including Anthracnose, Brown Patch, Copper Spot, Dollar Spot, Powdery Mildew, Red Thread, Rust, Stripe Smut, Summer Patch & Frog-Eye Disease, and provides up to two months protection depending on disease type
- ◆ Watering after application carries the fungicide into the root zone where it enters the grass plant — rain or water cannot wash off this internal protection
- ◆ **Best results when applied preventatively (prior to hot, humid weather that favors many diseases), or at the very first sign of disease**
- ◆ Easy-to-use granules
- ◆ Active ingredient: Triadimefon
- ◆ 6lb. and 10lb. bags



FRAC Code
3

### QUALI-PRO MEFENOXAM 2AQ

- ◆ An aqueous, flowable, systemic fungicide for use on selected Warm- and Cool-Season Turf, Nursery and Ornamental crops to control certain diseases caused by members of the Oomycete class of fungi. Other fungicides must be used to control diseases incited by other classes of fungi
- ◆ **Preventative disease control of Pythium, Phytophthora, Yellow Tuft, and Downy Mildew, as well as Damping-off and the Root & Stem Rot diseases of ornamentals caused by Pythium & Phytophthora**
- ◆ Systemic mode of action and translocation through the plant can provide up to three weeks protection
- ◆ Low odor compared to EC formulations
- ◆ Excellent tank mix partner with most other fungicides. Combine with Quali-Pro Chlorothalonil for added Brown Patch control during stressful summer decline months
- ◆ In ornamentals, it may be applied through irrigation systems, as a soil drench or as a soil surface spray, or incorporated into a soil mix
- ◆ **Subdue Maxx equivalent**
- ◆ 1 qt., 1 gal., and 2.5 gal. jugs



FRAC Code
4

**SUBDUE GR**

- ◆ Same systemic active ingredient — Mefenoxam — in a convenient granular formulation
- ◆ Use as a soil surface application or pre-potting growing media mix for soil-borne diseases (Pythium, Phytophthora) that cause Root and Stem Rots in ornamentals, or for treating Downy Mildew in turf
- ◆ 25lb. bag



FRAC Code

4

**PILLAR G INTRINSIC**

- ◆ Combination of pyraclostrobin (active ingredient in Insignia) and triticonazole (active ingredient in Trinity) on a granular carrier
- ◆ Controls more diseases than any other granular fungicide – including most patch diseases, dollar spot, anthracnose, snow molds and leaf spots
- ◆ Labeled for use on golf course turf AND lawns
- ◆ Clay granules are convenient to apply, and provide excellent spreading characteristics due to its density and uniform particle size
- ◆ Also shown to improve plant health in the form of stress management including drought/moisture and temperature extremes
- ◆ 30 lb bag

FRAC Codes

3 &amp; 11

**TURFCIDE / PCNB / PARFLO**

- ◆ A contact and preventative fungicide recommended for the control of certain soil-borne diseases
- ◆ In turf areas, including home lawns, it controls Gray and Pink Snow Mold, Brown Patch and Leaf Spot/Melting Out
- ◆ In ornamentals, it controls Root/Stem Rot, Damping Off, Neck Dry Rot, Bulb/Stem Rot, Crown Rot, Black Rot, Bulb Dry Rot, Petal Blight, Needle Blight and Flower Blight
- ◆ For best results, use as a preventative application before diseases appear, or apply at the first sign of the infection
- ◆ 50 lb bag in granular; Flowable in 2.5 gal jug and 30 gal drum

FRAC Code

14

**QUALI-PRO FOSETYL-AL 80WDG**

- ◆ True up-and-down systemic action for effective, preventative disease control in turf, ornamentals & bedding plants
- ◆ Controls Pythium Blight/Root Rot, Yellow Tuft, Phytophthora, Downy Mildew and Fire Blight
- ◆ Also suppresses Bacterial Blight and Summer Stress Complex when tank-mixed with other fungicides
- ◆ Stimulates defense mechanisms and enhances plant vigor
- ◆ Single application delivers up to 30 days protection
- ◆ Active ingredient: Aluminum-tris (O-ethyl phosphonate); Aliette WDG/Aliette Signature equivalent
- ◆ 5.5lb. jug and 4 oz. jar



FRAC Code

M

**MONTEREY AGRI-FOS**

- ◆ For the effective control of the following diseases in ornamentals, turf, conifers, vegetables and fruit trees:
  - Phytophthora diseases associated with Sudden Oak Death (S.O.D.)
  - Pythium in Turf
  - Downy Mildew
  - Fire Blight
  - Crown Rot and Root Rot
  - Damping off
- ◆ May be applied as a soil drench, foliar spray, soil incorporation or as a bare root dip, and works both as a curative and preventative treatment



FRAC Code

M

**MONTEREY AGRI-FOS W/ PENTRA-BARK**

- ◆ Systemic Fungicide for control and prevention of Sudden Oak Death (S.O.D.)
- ◆ For use on Oak trees
- ◆ To be used as a basal bark application — mix and apply uniformly to the trunk of tree from top down to ground level
- ◆ Labeled for use in California only
- ◆ Active ingredient: Phosphorous Acid
- ◆ 1/2 gal. container with Pentra-Bark Surfactant included



FRAC Code

M

**MONTEREY LIQUI-COP**

- ◆ Liquid Copper Fungicide spray for disease prevention
- ◆ Use to control Leaf Curl, Shothole, Brown Rot on almonds, apricots, peaches, nectarines, walnuts, citrus
- ◆ Economical replacement for Bordeaux mixture
- ◆ No oil or sticker required
- ◆ 1 qt. bottle



FRAC Code

M

**MANZATE PRO-STICK T&O 75 WDG**

- ◆ A protectant fungicide that provides a wide window of application, protecting against a wide range of diseases in turfgrasses and ornamentals
- ◆ No documented resistance of fungal diseases, making it perfect for use in resistance management programs
- ◆ Protects against Melting Out, Rust, Copper Spot, Fusarium, Red Thread, Slime Mold, Algae, Dollar Spot, Brown Patch, Pythium and more
- ◆ Active ingredient: Mancozeb; Dithane and Penncozeb equivalent
- ◆ 6lb. bag

FRAC Code

M



### PENTATHLON LF

- ◆ **Premium liquid flowable formulation of Mancozeb** — easy to measure, handle and mix; Excellent tank-mix compatibility
- ◆ **Same broad-spectrum fungicidal activity** — up to 14-days control of most major turf diseases such as Brown Patch, Dollar Spot, Melting Out, Rusts, Red Thread and Fusarium
- ◆ **Preventative, Non-systemic, Multi-site** — no resistance development, excellent choice for inclusion in mode of action resistance management programs
- ◆ Provides rainfastness and residual activity necessary for disease control
- ◆ No dye — Will not stain equipment or clothing
- ◆ 2.5 gal. jug

<b>FRAC Code</b>
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M
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### QUALI-PRO CHLOROTHALONIL

- ◆ Economical, cost-effective, broad-spectrum disease control for cool and warm season grasses, trees, shrubs, and flowers
- ◆ **Effective for use in programs that attempt to minimize disease resistance to fungicides**
- ◆ Preventative disease protection against major turf and ornamental diseases including: Dollar Spot, Brown Patch, Algae, Leaf Spot, Anthracnose, Fusarium and Rust
- ◆ **Modes of Action:**
  - **Contact** — for quick results
  - **Multi-Site** — no disease resistance with repeated use
  - **Preventative**
- ◆ Excellent tank mix partner with most other fungicides
- ◆ **Daconil Weatherstik/Daconil Ultrex/Daconil ZN equivalents**
- ◆ 720 SFT formulation in 2.5 gal. jug; DF in 5lb. jug; 500ZN in 2.5 gal. jug



<b>FRAC Code</b>
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M
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### QUALI-PRO ENCLAVE

- ◆ **Quad-Control Technology utilizes multiple modes of action, offering superior disease control and resistance management**
- ◆ Delivers both preventative and curative control of many diseases including Anthracnose, Brown Patch, Dollar Spot and Snow Mold
- ◆ **Outstanding value per acre – Chlorothalonil, Iprodione, Thiophanate-methyl and Tebuconazole in ONE product**
- ◆ 2.5 gal flowable



<b>FRAC Codes</b>
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1, 2, 3, & M
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### GROWTH PRODUCTS

#### COMPANION BIOLOGICAL FUNGICIDE ★

- ◆ **A safe, 100% natural biological fungicide that both prevents and controls a broad spectrum of root and foliar diseases** such as Root Rot, Blight, Wilt, Bottom- and Stem-Rot, and Bacterial Leaf Spot (Phytophthora, Pythium, Fusarium, Rhizoctonia, Sclerotinia and Xanthomonas Campestris)
- ◆ Contains the naturally occurring beneficial bacterium known as *Bacillus Subtilis* GB03, which combats disease pathogens through multiple modes of action, quickly colonizes a plant's root hairs, and literally crowds out disease producing microbes in the soil
- ◆ Creates a beneficial Induced Systemic Resistance (ISR), whereby plants' own natural immune system is stimulated to better resist diseases
- ◆ **Companion's GB03 also acts a Plant Growth Promoting Rhizobacterium (PGPR) and bio-stimulant** — it naturally encourages plant growth and produces better rooting, branching and flowering on plants
- ◆ 1 qt., 2.5 gal. and 5 gal. jugs



<b>FRAC Code</b>
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N/A (Biological)
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# **TURFGRO<sup>®</sup>**

## ADJUVANTS

The Edge  
Your  
Applications  
Need

### **TURFGRO<sup>®</sup> Booster**

Combination adjuvant for superior wetting and better penetration

### **TURFGRO<sup>®</sup> Tank Cleaner**

Reduce cross contamination and maintain equipment

### **TURFGRO<sup>®</sup> Spreader/Sticker**

Get it wetter and keep it wet

### **TURFGRO<sup>®</sup> Spray Indicator Blue**

Visual confirmation of application patterns

### **TURFGRO<sup>®</sup> Water Conditioning Agent**

Condition the largest part of every tank mix

**See your local Horizon Representative for more details.**



### **SPREADER-STICKER**

- ◆ Non-ionic Surfactant, Spreader-Activator and Defoaming Agent
- ◆ 90% active Non-ionic Surfactant breaks down the waxy cuticle of the leaf surface, for **maximum absorption and effectiveness insecticides, fungicides, and herbicides**
- ◆ Reduces surface tension, allowing spray to spread out on leaf surface for maximum coverage
- ◆ Improves adhesion between the pesticide and the plant surface, minimizing spray runoff
- ◆ Reduces foam during mixing
- ◆ **Required with certain herbicides, such as Certainty, Diquat, Fusilade & Sedgehammer**
- ◆ Compare to Activator 90 & No Foam A
- ◆ 1 qt. and 1 gal. jugs



### **BOOSTER**

- ◆ An activator formulated from a blend of Non-ionic **Organosilicone** surfactants & highly refined **Methylated Seed Oil**
- ◆ **Maximizes the performance of certain post-emergent herbicides** such as Quinclorac & Sethoxydim
- ◆ Modifies the deposition & wetting characteristics of the spray solution, resulting in a more uniform spray deposit
- ◆ 1 qt., 1 gal. and 2.5 gal jugs



### **HERBICIDE HELPER CROP OIL CONCENTRATE**

- ◆ A 100% active crop oil concentrate used as a spreader/activator/penetrant to increase the foliar absorption of various herbicides & systemic fungicides
- ◆ A blend of 83% Superior Paraffinic Oil & 17% Non-ionic Surfactant
- ◆ **Increases effectiveness of selective herbicides — commonly used with post-emergent grass control herbicides & Atrazine**
- ◆ 1 pt. bottle

### **HERBICIDE ACTIVATOR CROP OIL CONCENTRATE**

- ◆ A 100% active crop oil concentrate used as a spreader/activator/penetrant to **increase foliar absorption of various herbicides**
- ◆ Blend of 80% Petroleum Oil & 20% Non-ionic Surfactant
- ◆ Great for many systemic herbicides
- ◆ 1 gal. jug



## SPRAY INDICATORS

### TURFGRO

#### SPRAY INDICATOR

- ◆ A versatile, easy-to-use, non-toxic colorant for aquatic, industrial, municipal, utility, and rights-of-way applications of liquid pesticides and fertilizers
- ◆ Shows applicators where they have sprayed and will help avoid costly oversprays and skips
- ◆ Mixes completely with water soluble pesticides & fertilizers without affecting chemical efficacy, and dissipates quickly in wet and dry weather
- ◆ Blue color
- ◆ 1 qt. and 1 gal. jugs



#### TURFMARK SPRAY INDICATOR

- ◆ Blue indicator in larger packaging
- ◆ 2.5 gal. jug and 30 gal. drum

#### TURFMARK GREEN

- ◆ Green indicator for less conspicuous evidence of spraying
- ◆ 2.5 gal. jug

#### TURFMARK SPRAY INDICATOR – WSP

- ◆ Spray indicator in convenient water soluble packets
- ◆ Available in blue or green
- ◆ 40 WSPs per case

#### QUALI-PRO FOURSOME TURF PIGMENT

- ◆ Designed to enhance and extend the aesthetic appearance of the turf site following a pesticide application
- ◆ Also for use as a spray pattern indicator
- ◆ 1 qt. and 1 gal jugs

## OTHER TANK ADJUVANTS

### TURFGRO

#### TANK CLEANER

- ◆ A powerful, superior grade spray tank cleaner that will clean, rinse, and emulsify pesticide and adjuvant residues, and bond them to the rinse solution to allow for complete rinsing and system purging with ordinary water
- ◆ Tolerant of hard water that causes spray tanks to accumulate high levels of residue
- ◆ Soluble and compatible with most spray tank materials
- ◆ Solubilizes acid residues of pesticides, preparing the spray tank for the use of other products and preventing damage from occurring to non-target plants
- ◆ Extends the life of soft sprayer parts
- ◆ 1 qt. jug



#### WATER CONDITIONING AGENT

- ◆ A blend of Ammonium Sulfate and Ammoniacal Nitrogen, along with buffers, sequestrants and chelating agents to condition hard spray water
- ◆ Promotes herbicide performance by modifying elements such as pH and hardness of the spray water that can minimize herbicide uptake and effectiveness
- ◆ Especially important with Roundup (glyphosate)
- ◆ Not for use with herbicides that are not compatible in acidic/low pH conditions
- ◆ 1 qt. and 1 gal. jugs



#### TRIPLELINE FOAM-AWAY

- ◆ 1 qt. jugs

#### ODOR-MASK

- ◆ Concentrated odor masking agent based on Wintergreen Oil
- ◆ Masks undesirable odor of pesticides
- ◆ 1 qt. jug



### ATRIMMEC

- ◆ A systemic plant growth regulator spray-applied to retard growth of hedges, shrubs, trees and groundcovers
- ◆ **Reduces trimming, pruning and clean-up maintenance by 50% or more.** In many areas, one trimming and treatment controls growth all season long
- ◆ **Keeps plants the way you trimmed them longer** — whether you trim for a formal appearance or natural shape
- ◆ Enhances appearance of ornamentals by promoting branching, giving shrubs and bushes a fuller, more compact, uniform shape
- ◆ Groundcovers establish sooner, producing denser cover without encroaching on driveways, walks and walls
- ◆ **Can also reduce unwanted flowers and fruit** on ornamental olive trees, glossy privet, multiflora rose and Japanese holly
- ◆ **Check out the Trimming Cost Calculator on PBI Gordon's website and see how much you could save!** <http://www.pbigordon.com/pdfs/TrimmingCostCalculator.pdf>
- ◆ Active ingredient: Dikegulac-sodium
- ◆ 1 qt. and 1 gal. jugs



### MONTEREY FLOREL

- ◆ Less concentrated formulation of Ethephon
- ◆ **Prevents Nuisance Fruit on Ornamental Trees and Shrubs** such as Apple, Carob, Crabapple, Elm, Flowering pear, Flowering plum, Horsechestnut (Buckeye), Oak, Olive, Sour Orange, Sweetgum, Sycamore and others
- ◆ Removes Mistletoe from Ornamental Conifers and Deciduous Trees
- ◆ Increases Lateral Branching in Ornamentals
- ◆ 1 gal. jug



### MONTEREY SUCKER STOPPER

- ◆ **Prevents suckering and sprout growth** on trees such as apples, pears, citrus, olive, redwood and woody ornamental plants
- ◆ Convenient ready-to-use spray bottle (16 oz.)
- ◆ Treat only trees that are healthy, free from stress, and at least one year old

## PLANT GROWTH REGULATORS - TURF



### QUALI-PRO ETHEPHON

- ◆ Systemic, foliarly-absorbed PGR — Carried to other parts of the plant from point of application
- ◆ **Promotes lateral growth in turf** (Kentucky Bluegrass, Perennial Ryegrass, Tall and Fine Fescue, Bentgrass) while limiting top growth — reducing the required frequency of mowing and the volume of clippings collected
- ◆ **Suppresses seedheads of Poa annua and white clover**
- ◆ Also used for the removal of Dwarf and Leafy Mistletoe from trees, and for the **elimination of undesirable fruit** on Apple, Crabapple, Carob and Olive trees
- ◆ For commercial use only
- ◆ **Proxy equivalent**
- ◆ 2.5 gal. jug



### QUALI-PRO T-NEX

- ◆ Limits vertical growth of turfgrasses, reducing the frequency of mowing and the amount of grass clippings generated
- ◆ Improves rich color, lateral stems, root mass development and ability to withstand disease pressure and drought stress
- ◆ Labeled for all cool- and warm-season turfgrasses, including residential lawns and sod farms
- ◆ **Perfect for minimizing the need for edging of turfgrass along sidewalks, curbs, parking lots, driveways, flower beds, fences and around posts, storage sheds, and trees**
- ◆ Also great for mixing with marking paint on sports fields, to reduce growth of painted turf, and therefore the frequency of mowing and repainting
- ◆ Active ingredient: Trinexapac-ethyl; **Primo MAXX equivalent**
- ◆ 2.5 gal. and 1 gal. jugs



**EMBARK 2-S/EMBARK T+O**

- ◆ Suppresses growth of turfgrasses and ornamentals
- ◆ Reduces grass clippings and ornamental trimming refuse
- ◆ **Reduced mowing, edging or trimming saves time, labor and equipment**
- ◆ **Best seedhead inhibitor available**
- ◆ Can be tank-mixed and applied with certain turf herbicides
- ◆ Active ingredient: Mefluidide
- ◆ 1 gal. jug

**TIDE PACLO 2SC**

- ◆ **A systemic plant growth regulator that slows vertical grass growth and reduces mowing for up to 2 months after application**
- ◆ Frequency of mowing can be reduced by 50% during the period of effective retardation
- ◆ Use on fine turf should be accompanied by moderate-to-high fertility to maintain turfgrass appearance and reduce discoloration
- ◆ Active ingredient: Paclobutrazol (**Trimmit equivalent**)
- ◆ 1 gal jug

**COLORANTS****GREEN LAWNGER**

- ◆ **The fast, economical way to instantly restore natural green color to dormant or discolored turf**
- ◆ Will not wash or wear off turf after it has been applied — Color will last 10 to 14 weeks or until mowing removes the colored grass
- ◆ Blends in beautifully with most types of grasses since color shade is controlled by the amount applied
- ◆ 1 liter, 1 gal. and 2.5 gal. jugs, 30 gal. drum

**LAKE COLORANT**

- ◆ Creates natural-appearing blue water in lakes, ponds, water hazards, or large fountains
- ◆ Water-soluble packets are easy to calculate, simple to dispense, and dissolve quickly and easily
- ◆ **Safe and non-toxic to fish, waterfowl and livestock. Treated water may be used for irrigation, swimming and other recreational sports**
- ◆ Will not discolor or leave residues on turf, concrete, or other surfaces
- ◆ Each packet treats one acre-foot of water
- ◆ Box of four packets

**ADMIRAL LAKE COLORANT/ALGAECIDE**

- ◆ Delivers effective control of several types of aquatic weeds and algae, while aesthetically enhancing the color appearance of the water
- ◆ 1 gal. jug and box of 16 X 1 easy-to-handle WSP's

**BLACK ONYX LAKE COLORANT**

- ◆ Specialized high-concentrate colorant **creates a natural, mirror-like appearance often associated with black-colored water**
- ◆ Adds a sense of mystic drama to featured bodies of water on golf courses and resort locations, or any aquatic landscape
- ◆ **Will not harm fish or aquatic waterfowl**
- ◆ 1 gal. jugs and boxes of 16 X 1 easy-to-handle WSP's

**PLANT PROTECTANTS****LEAF SHIELD ANTI-TRANSPIRANT**

- ◆ **Protects trees, shrubs and turf against winter desiccation damage**
- ◆ Is sprayed on and dries to a thin layer that will protect exposed plants against drying winter winds
- ◆ 1 gal. jug

**FREEZE PRUF FROST PROTECTOR**

- ◆ Like "anti-freeze for plants," it improves healthy plants' natural cold tolerance by approximately 2 to 9 degrees F – the equivalent of adding a half-USDA zone to the cold tolerance range
- ◆ Protection lasts up to 4 weeks
- ◆ 1 quart and 1 gal. jugs

**CLOUD COVER PLANT PROTECTOR**

- ◆ Protects plants from weather extremes
- ◆ Decreases watering frequency
- ◆ Reduces transplant shock
- ◆ Cleans and shines leaves
- ◆ 1 quart concentrate and 1 quart ready-to-use



## HEARING AND EYE PROTECTION

The roar of the lawn mower. The buzz of the chain saw. The whirl of the line trimmer. After awhile, they take their toll on your nerves and hearing!

**REMEMBER THAT HEARING LOSS IS THE #1 DISABILITY IN THE U.S. AND THAT NOISE-INDUCED HEARING LOSS IS 100% PREVENTABLE.**



### EAR PLUGS

- ◆ Disposable Foam Ear Plugs
- ◆ Disposable Corded Foam Ear Plugs
- ◆ Silicone Ear Plugs
- ◆ Corded Silicone Ear Plugs
- ◆ Banded Ear Caps
- ◆ EP6 Ear Plugs



### PROFESSIONAL HEARING PROTECTION

- ◆ Professional Earmuff
- ◆ Standard Earmuff
- ◆ Foldable Earmuff
- ◆ Digital AM/FM Radio Earmuff



### SAFETY GLASSES SHADED & CLEAR

- ◆ NSX Turbo
- ◆ NSX
- ◆ DB2
- ◆ Diamondbacks
- ◆ DB Carbon
- ◆ Sidewinders
- ◆ GTR
- ◆ Stingers



### OVER THE GLASS

- ◆ Hornets
- ◆ Worker Bees
- ◆ Visitor Specs



### GOGGLES

- ◆ Deluxe
- ◆ Overspray
- ◆ Standard
- ◆ Chemical-Splash



## HARD HATS & ACCESSORIES

### HARD HATS

- ◆ Hard Hat
- ◆ Full Brim Hard Hat
- ◆ Bump Cap
- ◆ Standard Face Shield
- ◆ Deluxe Face Shield
- ◆ Hard Hat/Earmuff/Face Shield Combo



### DISPOSABLE RESPIRATORS

- ◆ Dust Mask
- ◆ Particulate Respirator
- ◆ Valved Particulate Respirator
- ◆ Bandit Disposable



### REUSABLE RESPIRATORS

- ◆ Bandit Dual Cartridge
- ◆ Full-face
- ◆ Half Mask
- ◆ Professional Multi-Use
- ◆ Cartridges Available



### GLOVES



#### GLOVES

- ◆ Disposable - Latex
- ◆ Cotton
- ◆ Knit
- ◆ Nitrile
- ◆ Safety
- ◆ Neoprene
- ◆ Leather

### FIRST AID KITS

#### FIRST AID KITS

- ◆ Personal First Aid Kit
- ◆ 25 Person First Aid Kit
- ◆ 50 Person First Aid Kit

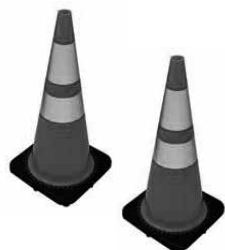


### ACCESSORIES



#### ACCESSORIES

- ◆ Safety Vest
- ◆ Safety Cone
- ◆ Safety Flare
- ◆ Straw Hat
- ◆ Coverall
- ◆ Rain Gear - Pants, Jackets, Hats & Boots



### WORK BOOTS



#### LAWN GRIPS

LawnGrips footwear makes landscaping, mowing and all other outdoor work safer, easier and more comfortable. The patented Grip-N-Go outsole provides great traction on freshly cut grass while easily shedding mud and clippings. The protective steel toe keeps your toes safe while the molded rubber overcoat keeps them dry. And with an upper made of double-stitched, water resistant, full-grain leather, LawnGrips are tough and long-lasting.

- ◆ Roomy steel toe with rubber overtoe that resists scuffing
- ◆ Water and stain-resistant full grain leather uppers
- ◆ Tough butyl rubber sole that holds up to shovel work

#### MEN'S CLASSIC

- ◆ 4" high slip on with hook and loop closure for easy on and off



#### MEN'S PRO

- ◆ 6" high lace-up for additional ankle protection



#### MUCK BOOTS™

The Original Muck Boot Company is a protective footwear brand which prides itself on building the most comfortable, high performance footwear on the market.

- ◆ Chore™ Hi All Conditions Work Boot
- ◆ The Chore Boot™ is the perfect boot to tackle the really dirty chores and is made for working long days
- ◆ CR flex-foam bootie with four-way stretch nylon, 100% waterproof, lightweight, flexible and buoyant
- ◆ Stretch-fit topline binding snugs calf to keep warmth in and cold out
- ◆ Additional achilles reinforcement for added protection
- ◆ The upper is triple reinforced in the toe area and quadruple reinforced in the heel area

### TURFGRO SPREADERS



#### P20-5010

- ◆ 50 lb. capacity
- ◆ Powder-coated frame
- ◆ Adjustable-height handle
- ◆ 10" x 4" Wheels
- ◆ Hard linkage shut-off
- ◆ Includes cover



#### P60-8020

- ◆ 80 lb. Capacity
- ◆ Powder-coated or Stainless Steel Frame
- ◆ Accu-Way™
- ◆ 13" x 5" Wheels
- ◆ Hard linkage shut-off
- ◆ Includes Screen
- ◆ Includes Cover

#### S60-12020

- ◆ 120 lb. Capacity
- ◆ Stainless Steel Frame
- ◆ Accu-Way™
- ◆ Extra-Large opening for bulk material
- ◆ 13" x 5" Wheels" with lubrication points
- ◆ Includes Screen
- ◆ Interchangeable Spinner Plate shaft

### EARTHWAY SPREADERS



#### 2150

The 3-position height adjustable handle and "T"-Speed lever provide total operator control and comfort for users of different heights. The EV-N-SPRED® 3-hole drop shut-off system ensures an even spread pattern and provides a feathered spreading edge for accurate applications.

- ◆ 50lb/23kg Hopper capacity
- ◆ EV-N-SPRED® 3-hole drop shut-off system
- ◆ 175lb/79kg Load bearing capacity - what the frame will support
- ◆ 13"/33cm diameter stud type tires on rust-proof poly rims
- ◆ Heavy-duty Epoxy Powder Coated "Diamond" chassis
- ◆ Super-duty gearbox for long life
- ◆ Debris screen to keep clumps from clogging the shut-off system
- ◆ 3-position height adjustable handle
- ◆ Optional 3-Sided Deflector - #60166R
- ◆ Optional Rain Cover - #77001
- ◆ 5-Year Limited Warranty
- ◆ Lifetime tech support



#### 2170

The 2170 is designed from the ground up for easy operation and long trouble-free service. Our patented EV-N-SPRED® 3-hole drop shut-off system will allow for balanced spreading of all types of granular material. The 2170 is a must have for any commercial material applicator.

- ◆ 100lb/45Kg Hopper capacity - rustproof poly construction
- ◆ EV-N-SPRED® 3-hole drop shut-off system
- ◆ 175lb/79Kg Load bearing capacity - what the frame will support
- ◆ 13"/33cm diameter stud type tires on rustproof poly rims
- ◆ Heavy-duty Epoxy Powder Coated Diamond chassis
- ◆ Super-duty gearbox for long life
- ◆ Debris screen to keep clumps from clogging the shut-off system
- ◆ 3-position height adjustable handle
- ◆ Optional Cover - #77002
- ◆ Optional 3-Sided Deflector - #60166R
- ◆ 5-Year Limited Warranty
- ◆ Lifetime tech support



## SHINDAIWA SPREADERS

# shindaiwa

**RS76**

**Large capacity rugged spreader for heavy-duty, all-purpose use and includes a lifetime gear warranty.**

- ◆ Welded, Epoxy-coated Frame
- ◆ Finger-tip Adjustable Rate Control
- ◆ Lifetime Gear Warranty

**RS76S**

**Stainless steel frame built for the harshest use and long life including a lifetime gear warranty.**

- ◆ Stainless Steel Frame
- ◆ Finger-tip Adjustable Rate Control
- ◆ Lifetime Gear Warranty



SPECIFICATIONS	RS76	RS76S
DRY WEIGHT	26.8 lbs.	26.8 lbs.
HOPPER HEIGHT	27"	27"
HANDLE LENGTH	36"	36"
HOPPER CAPACITY	1.3 cu. ft.	1.3 cu. ft.
TIRES	13" diameter	13" diameter
FRAME	Metal	Stainless Steel

## HAND SPREADERS

## EarthWay

**3100**

**The 3100 Professional Hand Crank Spreader is your ideal broadcast spreader when you need to spread granular material in wet areas, over uneven terrain, or in places a push spreader could not go.**

- ◆ 40lb/18kg Hopper capacity – rustproof poly construction
- ◆ Super-duty high-speed gearbox
- ◆ Epoxy Powder Coated Chassis
- ◆ EV-N-SPRED® PRO Dual Port Adjustable Shut-Off System
- ◆ Heavy-duty Rain Cover - #77000
- ◆ Rate Calculation Matrix included
- ◆ 5-Year Limited Warranty
- ◆ Lifetime tech support



## HAND SPREADERS (CONT.)

# G pbi / GORDON

**SPRED-RITE® G GRAVITY FLOW GRANULE SPREADER**

**A quicker, easier and more precise way to spread granular herbicides, fungicides, insecticides and fertilizers in small landscape areas. The Spred-Rite G can be used anywhere and is especially handy where you have to reach around or under things - trees, shrubs, poles or railings.**

- ◆ 2 inch to 3 feet swath width
- ◆ No metal parts to corrode or rust
- ◆ Light weight - 6 ounces empty, 6 pounds full
- ◆ Application rate easily varied:
  - by changing walking speed
  - by varying the swath width
  - by choice from 3 orifices

**HHS100 5 LB. HANDHELD SPREADER****Commercial Heavy-Duty Design**

- ◆ 5 lb. Capacity
- ◆ 4 Season spreader
- ◆ Funnel shaped design tailored for ideal material flow
- ◆ Reinforced, contoured lip design for easy scooping
- ◆ Adjustable flow gate
- ◆ Ergonomic trigger handle



Want to save 10% on fertilizer costs? Stop fertilizing the sidewalk! Use a Border Patrol attachment to deflect fertilizer away from hard surfaces. Horizon carries a complete selection of accessories and parts for TurfGro, Spyker and Earthway spreaders.

### HANDHELD SPRAYERS



#### SOLO 1-GAL SPRAYER:

- ◆ Chemical resistant seals for extended use with harsh chemicals
- ◆ Multi-directional nozzle allows spraying from all positions
- ◆ Unique drift/drip guard provides added control for spot treatment
- ◆ Locking trigger reduces user fatigue
- ◆ Pressure relief valve releases excess pressure



### BACKPACK SPRAYERS



#### SOLO 3 GALLON

- ◆ Large 4.5" filler opening makes filling and clean up safe and easy
- ◆ Chemically resistant Viton® seals throughout

Product Code	Description
457	3 gal. Backpack



#### SOLO 4 GALLON BACKPACK

- ◆ High-density polyethylene tank with ultra-violet inhibitors allows for unmatched durability and ultra-violet protection
- ◆ Large 4.25" opening for easy filling and cleaning
- ◆ Shut-off valve and wand with an overall length of 28" for hard-to-reach places

Product Code	Description
425	4 gal. Backpack



#### SOLO 4 GALLON BACKPACK

- ◆ Capable of producing up to 60 psi, with its rugged connecting rod actuated diaphragm pump
- ◆ The diaphragm is made of high-quality Viton® for its resistance to harsh chemicals and abrasion and its long life expectancy

Product Code	Description
475	4 gal. Backpack



### BACKPACK SPRAYERS



#### HD400 INTERNAL PUMP BACKPACK SPRAYER

- ◆ Lightweight
- ◆ Wide Filling Opening
- ◆ 4 Gallon Ergonomically Curved Tank
- ◆ Built-In Agitator
- ◆ 4' 5" High Pressure Hose
- ◆ Heavy-Duty Trigger Valve
- ◆ Reinforced Nylon Spray Lance
- ◆ Comes With 3 Different Nozzles
- ◆ Flat Bottom Base
- ◆ Easy Operating Pumping Lever
- ◆ Internal, High-Efficiency Piston Pump



#### SP416 BACKPACK SPRAYER

- ◆ 4 gallon capacity
- ◆ Complete interchangeability of parts except for the tank.
- ◆ Poly piston pump has hydraulic agitation and comes with a chemical resistant Santoprene pump seal.
- ◆ Santoprene offers exceptional wear characteristics and reduced pumping effort.
- ◆ Great value for the operator who may need different capacities for different applications but still wants performance, durability and great features.



**BACKPACK SPRAYERS (CONT.)**



**MS-41BP (4 GALLON)**

- ◆ 4.0 gallon capacity
- ◆ Wider 6" tank mouth
- ◆ Tank with UV inhibitors
- ◆ Tank marked in both gallons and liters
- ◆ Piston-style pump pressurizes up to 90 PSI
- ◆ 30" wand



**FIMCO 25 GALLON SPRAYER**

- ◆ 12V, 25 gal. Fimco ATV sprayer covers more around in less time
- ◆ Perfect for spraying mosquitoes, ditches, pastures, fence rows, bean and corn crops, yards, parks and sports fields
- ◆ Uses three adjustable nozzles that let you customize your spray pattern to the right, center, left or use all three to spray a full 30' swath
- ◆ A powerful 3.8 GPM diaphragm pump with adjustable pressure up to 45 psi



Product Code	Description
LG25SM	25 gal. Sprayer

**BACKPACK SPRAYERS (CONT.)**

We also carry:

*Smithco*



See your local Horizon Location for availability.

**HORIZON CARRIES A COMPLETE SELECTION OF SPRAYER REPLACEMENT PARTS FOR ALL MAJOR BRANDS.**



## SHOVELS TOUGHER THAN THE HELL YOU PUT THEM THROUGH

Aerospace grade steel shafts and heavy duty 12-gauge blades, these professional shovels can take whatever you dish out. They're simply the toughest, earth-moving shovels on Earth.



Find Corona Tools on [f](#) [t](#) 800.847.7863 | coronatoolsusa.com

## EASYLIFTER®

**SOMETIMES A NAME  
TELLS YOU EVERYTHING  
YOU NEED TO KNOW.**

Our innovative built-in fulcrum bars make it easier to dump a 6 cubic foot load. And that means it's easier on you. Made with heavy-duty steel and reinforcements throughout, EasyLifter® is tough as nails and designed to take whatever you throw at it, season after season.



Patents USA #5,884,924 | Canada #2,291,159

Find Corona Tools on [f](#) [t](#) 800.847.7863 | coronatoolsusa.com

**BP 3160 3/4" CLASSIC CUT® BYPASS PRUNERS**

- ◆ Fully forged steel construction for maximum strength
- ◆ Resharpenable high-carbon steel blades
- ◆ High-precision pivot bolts and locking nuts keep blades and hooks aligned
- ◆ Non-slip grips for greater control

**BP 3180 1" CLASSIC CUT® BYPASS PRUNERS**

- ◆ Fully forged steel construction for maximum strength
- ◆ Resharpenable high-carbon steel blades
- ◆ High-precision pivot bolts and locking nuts keep blades and hooks aligned
- ◆ Non-slip grips for greater control
- ◆ Replacement blade - 3180-1 sold separately

**BP3670 1" LANDSCAPE – IRRIGATION BYPASS PRUNER**

- ◆ Forged high-carbon steel forms a stronger, more durable cutting tool
- ◆ Resharpenable, forged steel blade for long service life
- ◆ Ergonomic angled pruning head for added comfort and reduced hand stress
- ◆ Sprinkler adjustment feature included on tip of hook
- ◆ Contoured handles with comfortable, non-slip grips

**BP4250 1" BYPASS PRUNER, ALUMINUM**

- ◆ More affordable, lightweight version of BP 6250
- ◆ Lightweight forged aluminum handles
- ◆ High-carbon steel blade and hook
- ◆ Separate hook instead of one-piece aluminum hook

**BP6250 1" FORGED ALUMINUM 1**

- ◆ Lightweight forged aluminum construction
- ◆ Slant-ground, narrow-profile hook with self-cleaning sap groove
- ◆ Shock-absorbing bumper
- ◆ Easy-to-replace steel blade 6250-1T and spring 6250-5T are interchangeable with the Felco® 2

**Did you know?**

Horizon carries a complete selection of replacement handles and blades for Corona, Felco & Lenox tools.

**BP 6170 3/4" ANGLED BYPASS PRUNERS**

- ◆ Angled pruning heads for added comfort and reduced hand stress
- ◆ Fully forged steel construction for maximum strength
- ◆ Replaceable, resharpenable high-carbon steel blade- 6170-1
- ◆ Built-in bumpers for impact absorption

**RP3230 3/4" RATCHET PRUNER**

- ◆ 3/4" diameter cutting capacity
- ◆ Power multiplying ratchet action for easy cutting
- ◆ Suitable for right and left hand use

**AC7220 LEATHER SCABBARD**

- ◆ Top grain leather, stitched and riveted
- ◆ Belt clip and loops
- ◆ Fits most hand pruners

**AC8300 SHARPENING TOOL**

- ◆ 5" Super carbide file
- ◆ Ideal for sharpening all straight blades (excludes saw blades)
- ◆ Easy to fit in pocket or scabbard
- ◆ Non-slip grip for easy use



SWISS MADE

**FELCO2 CLASSIC MODEL PRUNER**

- ◆ 1" cutting capacity
- ◆ Solid-forged metal alloy handles
- ◆ Hardened bolt and nut assure exact adjustment of both the cutting and anvil blades

**PARTS & ACCESSORIES**

- ◆ Replacement blade
- ◆ Spring kit



### **AH6950 FORGED ALUMINUM LONG HANDLE HEDGE SHEAR**

- ◆ 8 1/2" resharpenable, forged steel alloy blades
- ◆ Lightweight, high-strength elliptical aluminum handles
- ◆ 21" handles
- ◆ Fully heat-treated for strength
- ◆ Precision-made pivot bolt for smoother cutting action



### **AH6970 FORGED ALUMINUM HANDLE HEDGE SHEAR**

- ◆ 10 1/2" resharpenable, forged steel alloy blades
- ◆ Lightweight, high-strength elliptical aluminum handles
- ◆ Slant-ground, narrow profile blade
- ◆ Limb notch in lower blade



### **GS6750 PRO FORGED GRASS SHEAR**

- ◆ Professional scissor cutting action
- ◆ Resharpenable, forged Coronium™ steel alloy blades
- ◆ Cuts tough sod and ground cover



### **HS3911 HEDGE SHEAR – 8 1/4"**

- ◆ Resharpenable, forged 8 1/4" steel alloy blades
- ◆ Top-grade 9 1/2" hardwood handles
- ◆ Fully heat-treated for strength
- ◆ Limb notch for larger branches



### **HS 6920 8" FORGED SERRATED BLADE HEDGE SHEAR**

- ◆ 8" resharpenable forged steel alloy blades
- ◆ Fully heat treated for strength
- ◆ Serrated top blade
- ◆ Limb notch
- ◆ ShockStop® bumper reduces shoulder fatigue



### **HS 6930 FORGED LONG HANDLE HEDGE SHEAR**

- ◆ 8" resharpenable forged steel alloy blades
- ◆ Serrated top blade
- ◆ Limb notch
- ◆ ShockStop® bumper reduces shoulder fatigue
- ◆ Bolt-on extended 21" hardwood handles for extra reach



### **HS6960 10" FORGED HEDGE SHEAR**

- ◆ 10" resharpenable forged steel alloy blades
- ◆ Fully heat treated for strength
- ◆ Limb notch
- ◆ ShockStop® bumper reduces shoulder fatigue



#### ***Did you know?***

Keeping your blade clean and sharp will help the performance and life of the tool.



### AL8120 21" BYPASS LOPPER STRATASHEAR BLADE

- ◆ 1 1/2" diameter cutting capacity with 21" length
- ◆ Lightweight, high-strength elliptical aluminum handles
- ◆ Resharpenable, replaceable Radial Arc® bypass forged steel alloy
- ◆ Patented StrataShear3® blade technology that reduces friction and improves force to cut
- ◆ Forged slant-ground hook with self-cleaning deep sap groove



### AL 6512 FORGED HIGH-TORQUE BYPASS LOPPERS

- ◆ Maximum high-torque cutting action
- ◆ Now with replacement handles
- ◆ Resharpenable Radial Arc® bypass blade of fully heat-treated forged steel alloy
- ◆ Deeply curved, forged, slant-ground hook with self-cleaning, deep sap groove



### FORGED HIGH-PERFORMANCE ORCHARD LOPPERS 2 1/4" CUT CAPACITY

- ◆ Easier adjustments with new and improved design that **eliminates nut-retaining clip**
- ◆ Unmatched blade design dramatically reduces force-to-cut
- ◆ Lightweight, high-strength elliptical aluminum handles
- ◆ Resharpenable, replaceable, Dual Arc™ bypass blade of fully heat-treated forged steel



### FL3420 COMPOUND ACTION ANVIL LOPPER – 32"

- ◆ Compound Action Anvil Lopper with 1 1/2" cut capacity
- ◆ 4-Bar compound linkage triples your cutting power
- ◆ Resharpenable, PTFE non-stick coated high-carbon steel anvil blade
- ◆ Replaceable blade and anvil
- ◆ Extra-long 8" non-slip foam grips



### WL6361 FORGED 26" BYPASS LOPPER

- ◆ 1 1/2" diameter cutting capacity with 26" overall length
- ◆ Resharpenable, replaceable Radial Arc® forged steel alloy blade
- ◆ Forged hook with self-cleaning sap groove
- ◆ Precision-made, self-aligning pivot bolt
- ◆ Forged-in bumper cups with Alcryn® ShockStop® bumpers



### WL6461 32" BYPASS LOPPER HEAVY DUTY

- ◆ 2 1/4" diameter cutting capacity with 32" overall length
- ◆ Resharpenable, replaceable Radial Arc® forged steel alloy blade
- ◆ Heavy-duty, forged hook with self-cleaning sap groove
- ◆ Precision-made, self-aligning pivot bolt
- ◆ Forged-in bumper cups with Alcryn® ShockStop® bumpers



### WL6321 26" BYPASS LOPPER

- ◆ Designed for close quarters cutting of grape vines and dense shrubs, or detail pruning of roses, patio trees and shrubs
- ◆ Radial Arc® ground alloy steel bypass blade for the cleanest, closest cut, and longer edge retention
- ◆ Tapered hickory hardwood handles
- ◆ Comfortable, non-slip grips



### ACCESSORIES

Product Code	Description
8461-1	Blade for AL8442/AL8462/AL8482
630040	Bumper for lopper WL6321

#### Did you know?

Use an anvil lopper or pruner on dead plants and a bypass lopper or pruner on live plants.



### PS4040 8" FOLDING PRUNING SAW

- ◆ For small to medium branches
- ◆ 8" folding blade
- ◆ Curved blade design for faster cut
- ◆ Tempered steel alloy blade
- ◆ Seven precision-ground teeth per inch



### PS4050 10 1/2" FOLDING PRUNING SAW

- ◆ For small to medium branches
- ◆ 10 1/2" folding blade
- ◆ Curved blade design for faster cutting
- ◆ Tempered steel alloy blade
- ◆ Six precision-ground teeth per inch



### PS7020 14" FOLDING PRUNING SAW

- ◆ For small to medium branches
- ◆ 14" tempered steel alloy folding blade
- ◆ Curved blade design for faster cutting
- ◆ Six precision-ground teeth per inch
- ◆ Rigid, precision-milled hardwood handle



### RS7120 RAZOR TOOTH SAW - 13"

- ◆ For medium to large branches
- ◆ 2x faster cut
- ◆ 3-sided impulse-hardened teeth stay sharper longer



### RS7160 21" RAKER RAZOR TOOTH® SAW

- ◆ For large branches and limbs
- ◆ Raker tooth pattern/razor tooth blade creates the fastest cutting hand saw available
- ◆ 3-sided razor teeth
- ◆ Self-cleaning Raker pattern
- ◆ Impulse hardened teeth for longer life
- ◆ Precision-milled laminated wood D-style handle



### RS7395 RAZOR TOOTH® PRUNING SAW - 14"

- ◆ For large branches
- ◆ 3-Sided razor teeth for efficient cutting
- ◆ Replaceable, curved, taper-ground 14" blade
- ◆ Impulse-hardened teeth for long service life
- ◆ Ergonomically designed, comfortable, co-molded handle



### QS7800/QS7900 QUICKSAW®

- ◆ Cuts 20% faster on average than comparable professional saws
- ◆ Patent-pending tooth pattern helps keep the cut channel free of sawdust
- ◆ Dual cutting positions; one for regular cuts, and another for difficult to reach branches
- ◆ Locking blade with aluminum handle and release button makes it lightweight and easy to carry
- ◆ Lightly textured elastomer grip helps reduce hand fatigue so you can cut longer



QS7800- 7" folding saw

QS7900- 13 inch blade- fixed saw

### ACCESSORIES

Product Code	Description
7160-4	Replacement handle for RS7160
7395-1	Replacement blade for RS7395
7360-41	Replacement nut and screw for RS7395
7395-4	Replacement handle for RS7395
7800-1	Replacement blade for QS7800
7900-1	Replacement blade for QS7900



### F600 FOLDING SAW

- ◆ Blade is thinner at top, keeping teeth in contact with material
- ◆ Prevents clogging and binding
- ◆ Cuts branches up to 4" in diameter

### F610 PRUNING SAW

- ◆ Pull-stroke action produces a clean, precise and easy cut
- ◆ Steel blades are heat treated and covered with hard chromium-plating for an extra tough, rust resistant, wipe-clean blade
- ◆ Cuts branches up to 4" in (10 cm) in diameter



**PRUNING TOOLS - TREE PRUNERS****TP 3811 COMPOUND ACTION TREE PRUNER – 5 FT - 10 FT**

- ◆ Die-cast zinc alloy pruning head with non-stick tempered steel blade and **rope drive** cuts up to 1 inch
- ◆ Tempered steel 15' conventional saw blade
- ◆ Lightweight fiberglass pole telescopes from 5 ft to 10 ft with twist lock adjustment

**TP 6850- DUAL COMPOUND ACTION TREE PRUNER – 7 FT - 14 FT**

- ◆ Pruning head with 3X cutting power features a compound action pulley system and heavy-duty **chain drive**
- ◆ Die-cast zinc alloy pruning head with non-stick tempered steel blade cuts up to 1 1/4 inches
- ◆ Exclusive Powerglide™ rope pull system for smooth action
- ◆ 13" Tempered steel **conventional** saw blade
- ◆ Lightweight fiberglass pole telescopes from 7 ft to 14 ft with twist lock adjustment
- ◆ Comfortable 28 inch foam grip

**TP 6870 DUAL COMPOUND ACTION TREE PRUNER – 7 FT - 14 FT**

- ◆ Pruning head with 3X cutting power features a compound action pulley system and heavy-duty chain drive
- ◆ Heavy-duty zinc alloy pruning head with non-stick tempered steel blade cuts up to 1 1/4 inches
- ◆ Exclusive Powerglide™ rope pull system for smooth action
- ◆ 13" Razor Tooth Saw® blade with 3-sided teeth cuts 2X faster than conventional saws
- ◆ • Lightweight fiberglass pole telescopes from 7 ft to 14 ft with twist lock adjustment
- ◆ Comfortable 28 inch foam grip

**ACCESSORIES**

Product Code	Description
6800-6	Conventional saw blade for TP3811
6801-6	Conventional saw blade for TP6850, TP6870
AC7241	Razor Tooth® saw blade for TP 6850, TP6870

*Ask about the other replacement parts for Corona Tree Pruners*



## CUTTING TOOLS



### MA60041/MA60042 – 18"/22" MACHETE

- ◆ Tempered steel blade for greater strength and longer service life
- ◆ Heat treated to achieve maximum blade flexibility while impeding breakage
- ◆ Blade extends completely throughout the handle



Product Code	Description
AC7310	18" Scabbard for machete
AC7330	22" Scabbard for machete

## STRIKING TOOLS

### ST40001 FORGED 10LBS. SLEDGEHAMMER, HICKORY HANDLE

- ◆ Durable forged, tempered steel head breaks through concrete, asphalt, masonry, drywall...virtually any material
- ◆ Dual ground and polished convex striking faces help you finish your work faster by minimizing deflections
- ◆ Naturally shock-absorbing 36" Hickory wood handle
- ◆ Replacement handle 40001-4



### ST70021 FORGED 8LBS. SLEDGEHAMMER, SOLID-CORE FIBERGLASS HANDLE

- ◆ Durable forged, tempered steel head breaks through concrete, asphalt, masonry, drywall...virtually any material
- ◆ Dual ground and polished convex striking faces help you finish your work faster by minimizing deflections
- ◆ Shock absorbing 32" solid-core fiberglass handle



### BR70090 FORGED 14LBS. SAN ANGELO BAR

- ◆ Forged, tempered steel hardened for prying strength, toughness, safety and longer service life
- ◆ Point for breaking concrete and rock
- ◆ Chisel edge for straight-line concrete breaking, smoothing of rough edges, and prying



### BR71090 FORGED 17LBS. DIGGING BAR

- ◆ Forged, tempered steel hardened for prying strength, toughness, safety and longer service life
- ◆ Wide, thick blade for efficient digging in dense, heavy and rocky soils
- ◆ Tamp for compacting soils around fence posts, forms, etc.



## STRIKING TOOLS (CONT.)

### PM42000 FORGED PICK MATTOCK

- ◆ Forged, tempered steel hardened for maximum strength, toughness, safety and longer service life
- ◆ Extra wide mattock blade for more efficient breaking of dense, heavy soils
- ◆ Point for fracturing, prying rock
- ◆ Head connected through eye-hole, allowing easy replacement of head
- ◆ 36" Hickory wood handle with Poly Guard
- ◆ Mattock width: 3 1/2"



### PM40000 FORGED RAILROAD PICK WITH HICKORY WOOD HANDLE

- ◆ Forged, tempered steel hardened for maximum strength, toughness, safety and longer service life
- ◆ Point for fracturing rock and concrete
- ◆ Chisel for smoothing of rough edges and light
- ◆ Head connected through eye-hole, allowing easy replacement of head
- ◆ 36" Hickory wood handle with Poly Guard
- ◆ Chisel width: 1 5/8"



### AX70020 FORGED MICHIGAN AXE WITH SOLID FIBERGLASS HANDLE

- ◆ Forged, tempered steel hardened for maximum strength, toughness, superior wear, impact resistance, safety and longer service life
- ◆ Extra sharp roll ground and polished blade edge, ready for use, cuts cleaner and with less effort
- ◆ Ground polished butt end, or poll, for even distribution of striking force when used for occasional light hammering of wood or plastic
- ◆ 34" Solid core fiberglass handle with thick molded poly jacket for maximum strength, longer service life, less breakage from overstrikes, and dampening of striking vibrations



### AX71020 FORGED PULASKI ROOT GRUBBING TOOL

- ◆ Forged, tempered steel hardened for maximum strength, toughness, superior wear, impact resistance, safety and longer service life
- ◆ Extra sharp axe blade with steep bevel angle to hold edge while cutting roots in soil
- ◆ Extra sharp, triangular shape mattock blade for excavating along side and underneath large roots
- ◆ 34" Solid core fiberglass handle with thick molded poly jacket for maximum strength, longer service life, less breakage from overstrikes, and dampening of striking vibrations



Product Code	Description
40000-8	Forged Railroad Pick Head
41000-8	Forged Pick Mattock Head
42000-8	Forged Cutter Mattock Head
41000-4	36" Hickory Wood Handle with Poly Guard

## UTILITY TOOLS



### **UT20000 1/2 MOON EDGER**

- ◆ Semicircular edging knife for straight, even edges, and borders
- ◆ Tempered steel blade and socket for longer life
- ◆ Large forward turned steps for firmer footing
- ◆ 48" Long ash wood handle



### **UT60053 10 X 10 DIRT TAMP**

- ◆ Heavy duty all steel cast construction for long service life
- ◆ 1/4" thick steel plate face and gussets for maximum strength, even tamping
- ◆ 10" square face and 58" long shaft for efficient tamping of trenches, specimen tree holes and base materials



### **UT 67001- 2 1/4" INSIDE DIAMETER- 21LBS.**

- ◆ Handles are aligned for best control and more ergonomically gripping position
- ◆ All steel construction for rugged use and long life
- ◆ High quality welded construction for superior strength



### **UT67002- 3 1/2" INSIDE DIAMETER- 27LBS**

- ◆ Handles are aligned for best control and more ergonomically gripping position
- ◆ All steel construction for rugged use and long life
- ◆ High quality welded construction for superior strength



## HAND HACKSAWS



### **LX4012 HIGH-TENSION HAND HACKSAW**

- ◆ Ergonomically designed; large space fits gloved hand
- ◆ Handle holds up to five 12" hacksaw blades for quick change outs
- ◆ Multi-purpose for flush cutting or jab saw
- ◆ Tensions up to 30,000 psi



### **LX2012 LIGHTWEIGHT, ALL-METAL HACKSAW**

- ◆ Affordable frame offers highest blade tension in its class
- ◆ Uses wing nuts to adjust tension quickly



### **LX3618 METAL CUTTING TRI-FOLD SAW**

- ◆ Convenient blade storage
- ◆ Compact design fits easily into pocket or tool box
- ◆ Push button design locks blade into three different positions for multipurpose cutting applications



### **LX975 HACKSAW**

- ◆ Ruggedly designed with heavy duty aluminum handle
- ◆ Designed for hard-to-get places
- ◆ Cuts bots, wire, tubing and plastic



### **PVC/ABS PLASTIC PIPE HAND SAW**

- ◆ Unique pull-cutting teeth cut quickly through all plastic pipe and wood
- ◆ Rigid carbon blade with hardened teeth for long life
- ◆ Comfortable handle fits gloved hand



Product Code	Description
HSF12	12" blade & handle
HSF18	18" blade & handle



### CL326 6" LONG NOSE PLIER WITH SIDE CUTTER

- ◆ Cross-hatching on jaws grabs work tightly
- ◆ Precision made of fine polished, high carbon drop forged steel
- ◆ Perfectly mated cutters, scientifically heat-treated to hold their edge



### CL447 7.75" CURVED DIAGONAL CUTTING PLIER

- ◆ Curved diagonal for maximum pulling leverage
- ◆ Perfectly mated cutter, heat-treated to hold its edge
- ◆ Polished high carbon drop-forged steel



### TONGUE AND GROOVE PLIERS

- ◆ Right angle teeth grip in all directions for maximum bite and minimum wear
- ◆ Patented undercut tongue and groove design assures, no slip jaw action
- ◆ Patented reinforcing edge minimizes stress breakage



Product Code	Description
CL422	9.5" V-jaw tongue and groove
CL442	12" V-jaw tongue and groove

### V - JAW TONGUE AND GROOVE PLIER

- ◆ V - jaw design for use on round stock and tubing
- ◆ Right angle teeth grip in all directions for maximum bite and minimum wear
- ◆ Patented undercut tongue and groove design assures, no slip jaw action
- ◆ Patented reinforcing edge minimizes stress breakage



Product Code	Description
CL422	9.5" V-jaw tongue and groove
CL442	12" V-jaw tongue and groove

### CL347 7" LINEMEN'S PLIER WITH ROUNDED NOSE

- ◆ Heavy duty construction
- ◆ Perfectly mated cutters, scientifically heat treated to hold its edge
- ◆ Round nose design
- ◆ Precision made of fine polished high carbon drop forged steel



### CL526 6" SLIP JOINT PLIER-WIRE CUTTING SHEAR

- ◆ Thick Nose Pliers
- ◆ Shear-type wire cutter
- ◆ Patented PermaLock® fastener eliminates nut and bolt failures.



## WRENCHES AND SCREWDRIVERS



### ADJUSTABLE WRENCH

- ◆ Measurement scales (in. on front mm on reverse) are handy for sizing nuts, pipe and tube diameters
- ◆ Perfectly parallel jaw surfaces grip safely and reduce possibility of damage
- ◆ Non-protruding jaw with thinner jaw profile permits easier use in more confined spaces

Product Code	Description
CL806	6" Adjustable wrench
CL808	8" Adjustable wrench
CL810	10" Adjustable wrench
CL812	12" Adjustable wrench

### SCREWDRIVERS

No.	Hex Diameter	Blade Length	Overall Length
CL56	3/16"	6"	9.5"
CL74	1/4"	4"	8"
CLP24	1/4"	4"	8.25"

### CL908 CHANNELLOCK WIRING TOOL 8 1/2

- ◆ Strips AWG wire sizes: 10, 12, 14, 16, 18, 20 and 22
- ◆ Strips mm wire sizes: .80, 1.0, 1.3, 1.6, 2.0, 2.6
- ◆ Precision holes for wire stripping
- ◆ Cuts machine bolts without damaging threads
- ◆ Sizes: 4-40, 5-40, 6-32, 8-32, 10-32 and 10-24



### CL56EZ SCREWDRIVER 56EZ SLOTTED

- ◆ Magnetic Tips
- ◆ Go-Thru steel blades for added strength
- ◆ High torque, 3-sided Code Blue® grips



### KWIKCUT™ PIPE CUTTERS

**Plastic pipe and hose cutter designed to meet the needs of the professional.**

- ◆ No shavings or cutting residue
- ◆ Clean, smooth cut allows for quick and easy connections
- ◆ Blade closes into its own handle for safe carrying and handling



Product Code	Description
T100	1" (Replacement blade BT100)
T135	1 1/4" (Replacement blade BT135)

## LONG HANDLE TOOLS STAINLESS STEEL



### **AS 90010 STEEL SPADE, 12" STRAIGHT BLADE, 26" STEEL HANDLE, D GRIP**

- ◆ Designed for the professional who needs MAXIMUM digging and prying power
- ◆ Made for spading, planting, prying, cutting roots, installing edging and digging
- ◆ 12 inch pre-sharpened straight blade, 26" steel handle, D grip
- ◆ Large D handles made from aerospace grade steel for durability
- ◆ Heat treated, extra HEAVY DUTY - 12 gauge blade
- ◆ FREE rubber footpad to reduce fatigue and shoe damage



### **AS 90300 #2 ROUND POINT SHOVEL, 48" HANDLE**

- ◆ Designed for the professional who needs MAXIMUM digging and prying power
- ◆ Made for spading, planting, prying, cutting roots and digging
- ◆ # Round point pre-sharpened blade, 48" steel handle
- ◆ Handles made from aerospace grade steel for durability
- ◆ Solid steel end cap under the red grip allows for tamping
- ◆ Heat treated, extra HEAVY DUTY - 12 gauge blade
- ◆ FREE rubber footpad to reduce fatigue and shoe damage



### **AS 90400 WIRE & EDGING TRENCHER, 45" OVERALL LENGTH**

- ◆ Use to install wire for landscape lighting, edging and more
- ◆ Designed for the professional who needs MAXIMUM digging and prying power
- ◆ Extra large steps on 8.25 X 10 inch pre-sharpened blade, 45" overall length
- ◆ Handles made from aerospace grade steel for durability
- ◆ Heat treated, extra HEAVY DUTY - 12 gauge blade



### **AS 90310 CAPROCK SHOVEL, 10" FLAT BOWL, 48 INCH HANDLE - 1" HANDLE LIFT**

- ◆ Designed for the professional who needs MAXIMUM digging and prying power
- ◆ Made for spading, planting, prying, cutting roots, installing edging and digging
- ◆ 10" pre-sharpened flat bowl blade, 48" steel handle
- ◆ 1" blade lift allows for a nearly vertical cut
- ◆ Handles made from aerospace grade steel for durability
- ◆ Solid steel end cap under the red grip allows for tamping
- ◆ Heat treated, extra HEAVY DUTY - 12 gauge blade

## LONG HANDLE TOOLS - SPADES



### **SS62010 DRAIN SPADE WITH WOOD D-GRIP HANDLE**

- ◆ Tapered, round nose, slightly cupped blade for efficient digging of deep, round bottom drains and trenches
- ◆ Thick, 14-gauge tempered steel blade for longer service life
- ◆ Welded, closed back design for greater strength
- ◆ Large forward turned steps for firmer footing
- ◆ 30" steel and American ash wood D-grp handle



### **SS62020/SS62030 DRAIN SPADE WITH SOLID 48"/"30" FIBERGLASS HANDLE**

- ◆ Tapered, round nose, slightly cupped blade for efficient digging of deep, round bottom drains and trenches
- ◆ Thick, 14-gauge tempered steel blade for longer service life
- ◆ Welded, closed back design for greater strength
- ◆ Large forward turned steps for firmer footing
- ◆ 48" solid-core handle- SS62020. 30" solid-core handle - SS62030



### **SS62130 DRAIN SPADE WITH SOLID FIBERGLASS D-GRIP HANDLE**

- ◆ Tempered round nose, slightly cupped 14" blade for efficient digging of deep, round bottom drains and trenches
- ◆ Welded, closed back design for greater strength
- ◆ Large forward turned steps for firmer footing
- ◆ 30" Solid core fiberglass D-grip handle with thick molded poly jacket for maximum strength and long service life



### **SS2900 GARDEN SPADE**

- ◆ 15-gauge tempered steel blades
- ◆ Rounded edges penetrate ground easily, slice through small roots
- ◆ Textured epoxy finishes protect heads

#### ***Did you know?***

The LARGER the gauge, the thinner and lighter the blade.

## LONG HANDLE TOOLS ROUND POINT SHOVELS



### **SS10000 LIGHT DUTY #2 ROUND POINT SHOVEL**

- ◆ Strong, 16-gauge tempered steel blade
- ◆ Round point allows easy penetration of a variety of materials
- ◆ Large forward turned steps for firmer footing, 46" long wood handle



### **SS26000 #2 ROUND POINT SHOVEL**

- ◆ 15-gauge tempered steel blade
- ◆ Round points allow easy penetration of a variety of materials
- ◆ Large, forward-turned steps for firmer footing
- ◆ 48 inch Ash wood handle



### **SS26020 #2 ROUND POINT SHOVEL**

- ◆ 15-gauge tempered steel blades
- ◆ Round points allow easy penetration of a variety of materials
- ◆ Large, forward-turned steps for firmer footing
- ◆ 48 inch hollow fiberglass handle



### **SS65000 #2 ROUND POINT SHOVEL WITH WOOD HANDLE**

- ◆ Thick, 14-gauge tempered steel blade for longer service life
- ◆ Large forward turned steps for firmer footing
- ◆ Sharpened blade edge penetrates ground easily, slices through small roots
- ◆ 48" ash handle



### **SS65020 #2 ROUND POINT SHOVEL WITH SOLID FIBERGLASS HANDLE**

- ◆ Thick, 14-gauge tempered steel blade for longer service life
- ◆ Large forward turned steps for firmer footing
- ◆ Sharpened blade edge penetrates ground easily, slices through small roots
- ◆ 48" Solid core fiberglass handle for maximum strength and long service life

## LONG HANDLE TOOLS SQUARE POINT SHOVELS



### S11000 SQUARE POINT SHOVEL LIGHT DUTY #2 SQUARE POINT SHOVEL

- ◆ Strong, 16-gauge tempered steel blade
- ◆ Square head design for efficient lifting and moving of materials
- ◆ Large forward turned steps for firmer footing
- ◆ 46" wood handle



### SS26000 #2 SQUARE POINT SHOVEL

- ◆ 15-gauge tempered steel blade
- ◆ Round points allow easy penetration of a variety of materials
- ◆ Large, forward-turned steps for firmer footing
- ◆ 48 inch Ash wood handle



### SS61020 CLOSED BACK #2 SQUARE POINT SHOVEL WITH SOLID FIBERGLASS HANDLE

- ◆ Thick, 14-gauge tempered steel blade for longer service life
- ◆ Welded, closed back design for greater strength
- ◆ Large forward turned steps for firmer footing
- ◆ Square head design for efficient lifting and moving of materials
- ◆ 48" Solid core fiberglass handle with thick molded poly jacket for maximum strength and long service life



### SS66000 HOLLOW BACK #2 SQUARE POINT SHOVEL WITH WOOD HANDLE

- ◆ Thick, 14-gauge tempered steel blade for longer service life
- ◆ Large forward turned steps for firmer footing
- ◆ Square head design for efficient lifting and moving of materials
- ◆ 48" ash handle



### SS66020 HOLLOW BACK #2 SQUARE POINT SHOVEL WITH SOLID FIBERGLASS HANDLE

- ◆ Thick, 14-gauge tempered steel blade for longer service life
- ◆ Large forward turned steps for firmer footing
- ◆ Square head design for efficient lifting and moving of materials



## LONG HANDLE TOOLS - SCOOP SHOVELS

### SS42001/SS42011 #12 SCOOP SHOVEL - POLY 48"/30" HANDLE

- ◆ Plastic head, wood handle
- ◆ Heavy-duty gauge plastic for greater strength and long service life
- ◆ Designed for efficient moving of light, loose material
- ◆ Western-style scoop head with reinforced ribs for heavy-duty applications
- ◆ For general light duty use and clean up
- ◆ 48" wood handle- SS42001. 30" wood handle, D-Grip SS42011



### SS68000 #10 ALUMINUM SCOOP SHOVELS - WESTERN

- ◆ High-strength, Western style, 12-gauge aluminum heads reduce workload to a minimum while giving longer service life
- ◆ Large, square-nose designs for efficient moving of light, loose material
- ◆ 48 inch Ash wood handle



### SS68010 #10 ALUMINUM SCOOP SHOVELS - WESTERN

- ◆ High-strength, Western style, 12-gauge aluminum heads reduce workload to a minimum while giving longer service life
- ◆ Large, square-nose designs for efficient moving of light, loose material
- ◆ 30 inch steel and Ash wood D-Grip



## LONG HANDLE TOOLS - TRENCHING SHOVELS

### SS 64223 - 3 INCH, 35 DEGREE FOR CLEANING

- ◆ Easily pick up loose soil and debris with 35° angled head
- ◆ Heavy-duty 12-gauge tempered steel blades
- ◆ V-shaped beveled blades for easy soil penetration
- ◆ 48 inch solid-core fiberglass handle



### SS 64223 - 4 INCH, 35 DEGREE FOR CLEANING

- ◆ Easily pick up loose soil and debris with 35° angled head
- ◆ Heavy-duty 12-gauge tempered steel blades
- ◆ V-shaped beveled blades for easy soil penetration
- ◆ 48 inch solid-core fiberglass handle





## LONG HANDLE TOOLS TRENCHING SHOVELS (CONT.)

### **SS 64225 - 5 INCH, 35 DEGREE FOR CLEANING**

- ◆ Easily pick up loose soil and debris with 35° angled head
- ◆ Heavy-duty 12-gauge tempered steel blades
- ◆ V-shaped beveled blades for easy soil penetration
- ◆ 48 inch solid-core fiberglass handle



### **SS 64226 - 6 INCH, 35 DEGREE FOR CLEANING**

- ◆ Easily pick up loose soil and debris with 35° angled head
- ◆ Heavy-duty 12-gauge tempered steel blades
- ◆ V-shaped beveled blades for easy soil penetration
- ◆ 48 inch solid-core fiberglass handle



### **SS 64103 - 3 INCH, 35 DEGREE FOR CLEANING**

- ◆ Easily pick up loose soil and debris with 35° angled head
- ◆ Heavy-duty 12-gauge tempered steel blades
- ◆ V-shaped beveled blades for easy soil penetration
- ◆ 48 inch ASH handle



### **SS 64104 - 4 INCH, 35 DEGREE FOR CLEANING**

- ◆ Easily pick up loose soil and debris with 35° angled head
- ◆ Heavy-duty 12-gauge tempered steel blades
- ◆ V-shaped beveled blades for easy soil penetration
- ◆ 48 inch ASH handle



### **SS 64105 - 5 INCH, 35 DEGREE FOR CLEANING**

- ◆ Easily pick up loose soil and debris with 35° angled head
- ◆ Heavy-duty 12-gauge tempered steel blades
- ◆ V-shaped beveled blades for easy soil penetration
- ◆ 48 inch ASH handle



### **SS 64106 - 6 INCH, 35 DEGREE FOR CLEANING**

- ◆ Easily pick up loose soil and debris with 35° angled head
- ◆ Heavy-duty 12-gauge tempered steel blades
- ◆ V-shaped beveled blades for easy soil penetration
- ◆ 48 inch ASH handle



## LONG HANDLE TOOLS HOES/CULTIVATORS



### **FH71002- FORGED EYE HOE**

- ◆ Forged, tempered steel blades for maximum strength, long service life and superior sharpness
- ◆ Sharpened-blade edges penetrate ground easily, slice through weeds easily
- ◆ 60 inch Ash wood handles withstand heavy weed chopping • Ox-eye connections for extra-thick handles



### **CV70004-FORGED CULTIVATOR**

- ◆ Heavy-duty forged steel heads for weeding, cultivating, and aerating the hardest soils
- ◆ Tines with oval cross sections to reduce pulling effort
- ◆ Durable Ash wood tapered handles, 2X varnished for weather resistance



### **SH60001 OSCILLATING HOE - 5"**

- ◆ Heavy-duty construction blade design for long service life
- ◆ Hoe automatically angles slightly downward on both forward and back stroke to slice weeds just below surface
- ◆ Concave 5" blade sharpens during use
- ◆ 60" Long Northern Ash wood handle allows working in upright position, reduces back strain



### **SH60061 - OSCILLATING HOE**

- ◆ Heavy-duty, double-edged blade for push/pull weed cutting
- ◆ Slice weeds just below the surface with automatically angling blade
- ◆ 60 inch lightweight aluminum, non-slip, 2X bolt-thru handle
- ◆ 60061-8 - Replacement head



#### **Did you know?**

Four prong cultivators like CV70004 are great for repairing lawns: just loosen soil, apply grass seed, level area and water

## LONG HANDLE TOOLS - BOW RAKES



### **RK65001-BOW HEAD RAKE- 14 INCH/14 TINE**

- ◆ Tempered single piece head for greater durability and longer service life
- ◆ Curved tines efficiently gather and move soil
- ◆ Bow serves as spring for better control of tine depth
- ◆ Extra-long 60 inch ASH handles lets you work upright, reduce back strain



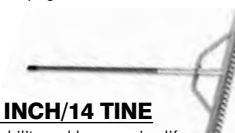
### **RK65002-BOW HEAD RAKE- 16 INCH/16 TINE**

- ◆ Tempered single piece head for greater durability and longer service life
- ◆ Wide head for rapid working of large areas
- ◆ Curved tines efficiently gather and move soil
- ◆ Bow serves as spring for better control of tine depth
- ◆ Extra-long 60 inch ASH handles lets you work upright, reduce back strain



### **RK65021-BOW HEAD RAKE- 14 INCH/14 TINE**

- ◆ Tempered, single-piece head for greater durability and long service life
- ◆ Curved tines efficiently gather and move soil
- ◆ Bow serves as spring for better control of tine depth
- ◆ 60" Solid-core fiberglass handle with thick, molded poly jacket for maximum strength and long service life

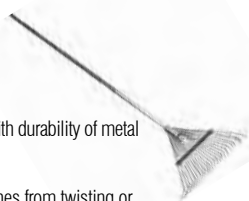


## LONG HANDLE TOOLS LANDSCAPE RAKES

### **RK24061-SPRING BRACE RAKE- ALUMINUM HANDLE 24 INCH/24 TINE**

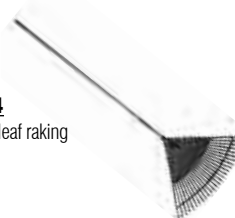
- ◆ A-shaped head combines flexible tines with durability of metal
- ◆ Bolt-thru head to handle connection
- ◆ Stress distribution bar prevents the 24 tines from twisting or breaking
- ◆ Tines and spring are made of high carbon steel-
- ◆ Powder-coated frame and tines resist rust
- ◆ 54" long aluminum handle

62060-4 Replacement aluminum handle  
24003-4 Replacement wood handle



### **RK25024 - POLY LEAF RAKE 24**

- ◆ 24" poly head allows for medium-capacity leaf raking and general cleanup
- ◆ 48" wood handle



## LONG HANDLE TOOLS LANDSCAPE RAKES (CONT.)

### **RK61061 ALUMINUM LANDSCAPE RAKE — 24 INCH/24 TINE**

- ◆ All aluminum construction combines durability with ease of use during finish grading process
- ◆ Extra thick tine tips for longer service life
- ◆ 60" Lightweight aluminum handle with anti-slip vinyl sleeved handle for gripping comfort in extreme heat or cold



### **RK61062 ALUMINUM LANDSCAPE RAKE — 36 INCH/36 TINE**

- ◆ 36" width for grading in wide open areas
- ◆ All aluminum construction combines durability with ease of use during finish grading process
- ◆ Extra thick tine tips for longer service life
- ◆ 60" Lightweight aluminum handle with anti-slip vinyl sleeved handle for gripping comfort in extreme heat or cold



### **RK62000 FIXED TINE SHRUB RAKE — 8"/11 TINES**

- ◆ Tempered spring steel for greater durability and longer service life
- ◆ Bi-curved bow gives even pressure to all tines for maximum raking efficiency
- ◆ Tines apply light pressure for debris removal without damage to plant feeder roots
- ◆ Narrow head for working between closely spaced plants
- ◆ Three rivets hold head to handle
- ◆ Double crimps hold tines in place
- ◆ 54" Long wood handle



### **RK62060 FIXED TINE SHRUB RAKE — 8"/11 TINES**

- ◆ Tempered spring steel for greater durability and longer service life
- ◆ Bi-curved bow gives even pressure to all tines for maximum raking efficiency
- ◆ Tines apply light pressure for debris removal without damage to plant feeder roots
- ◆ Narrow head for working between closely spaced plants
- ◆ Three rivets hold head to handle
- ◆ Double crimps hold tines in place
- ◆ 54" Lightweight metal handle with anti-slip vinyl grip



### **RK62061 FIXED TINE LEAF RAKE — 19"/25 TINES**

- ◆ Tempered spring steel for greater durability and longer service life
- ◆ Bi-curved bow gives even pressure to all tines for maximum raking efficiency
- ◆ Tines apply light pressure for debris removal without damage to plant feeder roots
- ◆ 25 extra wide tines
- ◆ 54" Lightweight metal handle with anti-slip vinyl grip
- ◆ Double crimps hold tines in place



## LONG HANDLE TOOLS LANDSCAPE RAKES (CONT.)



### **RK63003 WIDE HEAD LEAF RAKE — 30 INCH/30 TINES**

- ◆ 30" wide head for maximum leaf gathering efficiency
- ◆ Extra thick vinyl with UV stabilizers for longer service life
- ◆ Closely spaced, tightly curved tines sweep leaves clear in a single pass
- ◆ Lightweight, tough 48 inch bamboo handle



### **RK24003 SPRING BRACE RAKE — 24 INCH/24 TINE**

- ◆ Fan-shaped head combines flexible tines with durability of metal
- ◆ Stress distribution bar that prevents tines from twisting or breaking when pressed on
- ◆ Coated frame and tines resist rust 62060-4 Replacement aluminum handle  
24003-4 Replacement wood handle
- ◆ 54" Long wood handle



### **CF24A SPRING ACTION LEAF RAKE**

- ◆ 24" Metal Head
- ◆ 48" AlumiLite Handle
- ◆ 24 Continuous Tines
- ◆ Chrome Plated Spring Coil
- ◆ "Bolt Thru" Handle Connection



### **CF24W SPRING ACTION LEAF RAKE**

- ◆ 24" Metal Head
- ◆ 48" Wood Handle
- ◆ 24 Continuous Tines
- ◆ Chrome Plated Spring Coil
- ◆ "Bolt Thru" Handle Connection
- ◆



### **LAR136 HULA-HO PRO LANDSCAPE RAKE**

- ◆ 36" Aluminum Head
- ◆ 66" Aluminum Handle



## LONG HANDLE TOOLS LEVEL RAKES

### **RK64002 LEVEL HEAD RAKE — 16 INCH/ 14 TINES**

- ◆ Wide head for rapid, accurate tilling and leveling
- ◆ Extra thick, tempered single piece head for greater durability, and longer service life
- ◆ Flat head design for smooth tamping of seed beds
- ◆ 60" Extra long American ash handle allows working in upright position, reducing back strain



## LONG HANDLE TOOLS - BROOMS

### **BM61002- PUSH BROOM — 2 BRISTLE, 24 INCH**

- ◆ 24" Wide head ideal for sidewalks, concrete slabs and floors
- ◆ Replaceable hardwood head with coarse and medium poly bristles for efficient, single-pass removal of unwanted material
- ◆ Scraper blade for removing congealed dirt, gum and other residues from concrete walks and pavers
- ◆ Steel braces prevent head wobble and uneven bristle wear
- ◆ 60" Long wood handle



## LONG HANDLE TOOLS - FORKS

### **FK72005- FORGED MANURE FORK**

- ◆ Forged, tempered steel heads for maximum strength and long service life
- ◆ Heavy-duty forks for moving manure, compost, planting mix and other dense, damp material
- ◆ Oval tines for greater lifting strength • 54 inch Ash wood handle





## **WB2506K/2606K 6 CU FT HEAVY-DUTY WHEELBARROWS**

- ◆ 1.4 mm wrinkle-free, extra-heavy-duty steel tray
- ◆ Reinforced steel front tray braces for added support and stability
- ◆ 16 inch pneumatic 2-ply tire
- ◆ Steel bushings for years of smooth performance and grease fittings for easy lubricating
- ◆ Quick connect system for faster assembly
- ◆ WB2506K- 60 inch contractor-grade hardwood handles
- ◆ WB2606K- 60 inch **steel handles** with comfort grips



## **WB2806 - EASYLIFTER® WHEELBARROW - STEEL HANDLES**

- ◆ Heavy-duty all-steel frames and 6 cubic foot trays
- ◆ Effortless pouring with built-in fulcrum action
- ◆ Easy cleaning and storage, stand vertically on their own
- ◆ Lift with less effort by aligning wheel with center of gravity
- ◆ Adjust ground clearance to job site conditions by changing wheel position
- ◆ Optional dual-wheel configuration - AC2806 sold separately
- ◆ Convenient transport with innovative removable handles
- ◆ Easy storage – just mount handles onto built-in storage brackets until next use
- ◆ 16 inch pneumatic 2-ply tire with steel bushings† and grease fitting



## **WB2706- HEAVY-DUTY CONTRACTOR WHEELBARROW WOOD HANDLES**

- ◆ 1.4 mm wrinkle-free, extra-heavy-duty steel tray
- ◆ Squared holes in tray makes tightening easier, helps avoid loosening during heavy work
- ◆ 60 inch hardwood handles feature 10% larger cross-section than in standard pro wheelbarrows
- ◆ Bolt-through design helps legs sustain loads better than with tabbed cross-braces
- ◆ 6 cubic foot class tray balances carrying capacity with typical worker's lifting ability
- ◆ 16 inch pneumatic 2-ply tire with steel bushings† and grease fitting



## **M6T22KB JACKSON WHEELBARROW**

- ◆ 6 cu. ft. Heavy-Duty Steel Wheelbarrow with Flat Free Tire
- ◆ Ideal for professional contractor use
- ◆ Heavy duty contractor grade steel tray
- ◆ Leg stabilizers make wheelbarrow 40% more tip-resistant
- ◆ 60" heavy duty wood handles and 16" flat free tire
- ◆ Wood handles



## **MILLER CONTRACTOR WHEELBARROW**

- ◆ 6 cu. ft. capacity
- ◆ Steel handle
- ◆ Narrow tray allows all models to clear a 27" doorway or gate
- ◆ Easy end pour with 80% of load capacity over the wheel
- ◆ Standard tubeless 8" tire



## **NORTHSTAR EXCAVATOR 6 CU. FT. WHEELBARROW**

- ◆ All-steel design that assembles in less than 10 minutes.
- ◆ Steel tray reinforced at the bottom with a 1/4" solid steel "H" strap and an all-steel undercarriage to prevent damage when used for hauling rock or concrete.
- ◆ Front roll bar supports heavy loads when dumping and the cross bar location does not impede when stepping.
- ◆ Comes with flat-free or standard knobby tires



### METHOD #1

1. Fill spreader with a weighed amount of fertilizer.
2. Layout calibration area in length. 100', 50', 200', etc.
3. Apply the fertilizer the length of the run.
4. Measure the width of the spread.
5. Weigh the remaining fertilizer in the spreader and subtract this amount from the amount you started with.

Now you have all the variables for calculation. Length, width, and amount of fertilizer used.

### Calculation

#### Length x width = sq.ft. of area

Example: 7' spread x 100' run = 700 sq.ft. of area

If you applied 5 lbs. of fertilizer in this area, then you applied 5#/700 sq.ft.

You can then use a ratio to find the rate/1000 sq.ft. or rate/acre.

### Example:

You spread 5#/700 sq.ft.

5#/700': X/1000' cross multiply the ratio 700 x X = 5 x 1000 or 700X = 5000 then: X = 5000/700 and X = 7.14

Thus: you applied a little more than 7 lbs. of fertilizer per 1000 sq.ft.

If you were using Turf Supreme then the spreader setting would need to be closed to apply the recommended rate of 6.25#/1000.

### METHOD #2

1. Fill spreader with fertilizer.
2. Run spreader over a pre-marked area.
  - a. Area must be smaller than the spread pattern.
  - b. Use a small tarp to collect the applied fertilizer.
3. Collect and weight the fertilizer that was applied to the tarp.
4. The formula for the pounds of fertilizer that was applied is:  
Pounds per 1000 sq.ft. = Amount collected x 1000

### CONVENIENT CONVERSION FACTORS

MULTIPLY	BY	TO GET	MULTIPLY	BY	TO GET
Pounds	7,000	Grains	Square Inches	0.00694	Square Feet
	453.5924	Grams	Square Miles	640	Acres
	16	Ounces		28,876,400	Square Feet
	0.0005	Tons		3,097,600	Square Yards
Pounds of Water	0.01602	Cubic Feet	Square Yards	0.0002066	Acres
	27.68	Cubic Inches		9	Square Feet
	0.1198	Gallons		1,296	Square Inches
Quarts (dry)	0.03125	Bushels			
	67.20	Cubic Inches	Temperature, °C to °F	1.8	Temperature, °F to °C
	0.125	Picks	Temperature, °F to °C	5/9 or 0.5555	Temperature, °C to °F
Quarts (liquid)	57.75	Cubic Inches	Ton	907.1849	Kilograms
	0.25	Gallons		32,000	Ounces
	0.9463	Liters		2,000	Pounds
	32	Ounces (liquid)	Yards	3	Feet
	2	Pints (liquid)		36	Inches
Rods	16.5	Feet		0.9144	Meters
Square Foot	144	Square Inches		0.00066	Miles
	0.11111	Square Yards			

### TABLE OF EQUIVALENTS FOR LIQUID MEASURE (VOLUME)

(For equivalent amounts, read horizontally in either direction on any given line)

Gallons	Quarts	Pints	Fluid Ounces	Cups	Tablespoons	Teaspoons	Milliliters	Liters
1	4	8	128	16	256	768	3785	3.785
	1	2	32	4	64	192	946	.946
		1	16	2	32	96	473	.473
			1	1/8	2	6	29.6	.030
				1	16	48	235	.236
					1	3	15	.015
						1	5	.005
							1	.001

### CONVERSION TABLE For Smaller Areas

RATE PER ACRE	RATE PER 1,000 SQUARE FEET	RATE PER 100 SQUARE FEET
<b>LIQUID MATERIALS</b>		
1 pt.	3/4 tbsp.	1/4 tsp.
1 qt.	1 1/4 tbsp.	1/2 tsp.
1 gal.	6 tbsp.	2 tsp.
25 gal.	4 1/2 pts.	1 cup
50 gal.	4 1/2 qts.	1 pt.
75 gal.	6 1/2 qts.	1 1/2 pts.
100 gal.	9 qts.	1 qt.
<b>DRY MATERIALS</b>		
1 lb.	2 1/2 tsp.	1/2 tsp.
3 lbs.	2 1/4 tbsp.	3/4 tsp.
4 lbs.	3 tbsp.	1 tsp.
5 lbs.	4 tbsp.	1 1/4 tsp.
6 lbs.	4 1/2 tbsp.	1 1/2 tsp.
8 lbs.	2 1/5 cup	1 1/4 tsp.
10 lbs.	1/2 cup	2 tsp.
100 lbs.	2 1/4 lbs.	1/4 lb.
125 lbs.	2 1/2 lbs.	1/3 lb.
150 lbs.	3 1/2 lbs.	1/3 lb.
175 lbs.	4 lbs.	2/5 lb.
200 lbs.	4 1/2 lbs.	1/2 lb.
225 lbs.	5 lbs.	1/2 lb.
250 lbs.	5 1/2 lbs.	3/5 lb.
275 lbs.	6 1/2 lbs.	3/5 lb.
300 lbs.	7 lbs.	1/2 lb.



# CONVENIENT CONVERSION FACTORS

MULTIPLY	BY	TO GET	MULTIPLY	BY	TO GET
Acres	43,560	Square Feet	Kilometers	3,281	Feet
	4,840	Square Yards		1,000	Meters
Bushels	2,150.42	Cubic Inches		0.6214	Miles
	4	Pecks		1,094	Yards
	64	Pints	Liters	1,000	Cubic Centimeters
	32	Quarts		0.0353	Cubic Feet
Centimeters	0.3937	Inches		61.02	Cubic Inches
	0.01	Meters		0.001	Cubic Meters
	10	Millimeters		0.2642	Gallons
Cubic Feet	1,728	Cubic Inches		2.113	Pints (liquid)
	0.0374	Cubic Yards		1.057	Quarts (liquid)
	7.4805	Gallons	Meters	100	Centimeters
	59.84	Pints (liquid)		3.281	Feet
	29.92	Quarts (liquid)		39.37	Inches
Cubic Inches	16.39	Cubic Centimeters		0.001	Kilometers
Cubic Meters	1,000,000	Cubic Centimeters		1,000	Millimeters
	35.31	Cubic Feet		1.094	Yards
	61,023	Cubic Inches	Miles	5,280	Feet
	1,308	Cubic Yards		320	Rods
	264.2	Gallons		1,760	Yards
	2,113	Pints (liquid)	Miles per Hour	88	Feet per Minute
	1,057	Quarts (liquid)		1.467	Feet per Second
Cubic Yards	27	Cubic Feet	Miles per Minute	88	Feet per Second
	46,656	Cubic Inches		60	Miles per Hour
	0.7646	Cubic Meters	Ounces (dry)	437.5	Grains
	202	Gallons		28.3495	Grams
	1,616	Pints (liquid)		0.0625	Pounds
	807.9	Quarts (liquid)	Ounces (liquid)	1.805	Cubic Inches
Feet	30.48	Centimeters		0.0078125	Gallons
	12	Inches		29.573	Milliliters (cubic centimeters)
	3.048	Meters		0.0625	Pints (liquid)
	1/3 or 0.33333	Yards		0.03125	Quarts (liquid)
Feet per minute	0.01667	Feet per second	Parts per Million	0.0584	Grains per U.S. Gallon
	0.01136	Miles per hour		0.001	Grams per Liter
Gallons	3.785	Cubic Centimeters		8.345	Pounds per Million Gallons
	0.1337	Cubic Feet	Pecks	0.25	Bushels
	231	Cubic Inches		537.605	Cubic Inches
	128	Ounces (liquid)		16	Pints (dry)
	8	Pints (liquid)		8	Quarts (dry)
	4	Quarts (liquid)	Pints (dry)	0.015625	Bushels
Gallons of Water	8.3453	Pounds of Water		33.6003	Cubic Inches
Grains	0.0648	Grams		0.0625	Pecks
Grams	15.43	Grains		0.5	Quarts (dry)
	0.001	Kilograms	Pints (liquid)	28.875	Cubic Inches
	1,000	Milligrams		0.125	Gallons
	0.0353	Ounces		0.4732	Liters
Grams per Liter	1,000	Parts per Million		16	Ounces (liquid)
Inches	2.54	Centimeters		0.5	Quarts (liquid)
	0.08333	Feet			
	0.02778	Yards			
Kilograms	1,000	Grams			
	2.205	Pounds			



# Landscape

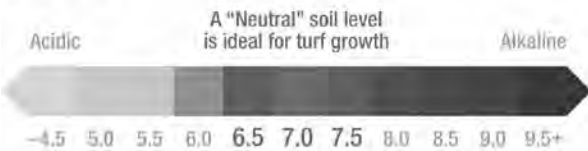
## TESTING THE SOIL

Every lawn or landscape has different soil conditions, because the soils don't have the same amounts of organic matter, nutrients, clay, etc. So to get the best results from a fertilizer, it helps to know what the soil on each specific property needs.

A professional soil test will tell you if a landscape has low levels of the key nutrients: Nitrogen, Phosphorus and Potassium. That makes it easier to choose the right fertilizer.

Testing also shows the soil's pH level, which is its balance of acidity and alkalinity. Soil pH affects plants' ability to absorb nutrients. Most lawns and landscapes need a "neutral" soil, which is a pH of 6.5 to 7.5.

Turf pH scale



To get soil tested, bring a few scoops of earth (from different places on the lawn) to your Horizon dealer, and we'll have it tested.

Horizon can then provide the exact fertilizer or pH balancing product that the lawn needs to look its best.

## READING A FERTILIZER LABEL

The three numbers displayed on a fertilizer bag refer to the percentages of Nitrogen (usually the highest number), Phosphate (Phosphorus) and Potash (Potassium) contained in that product, and they're always in the same order, listed as N-P-K. For example, a 24-5-11 fertilizer means it contains 24% Nitrogen, so 50lbs. of that product would have 12lbs. of actual N. The percentages of Phosphorus and Potassium are based on the actual weight of ingredients because they are compounds which contain Oxygen.

## THE IMPORTANCE OF FERTILIZERS

### MACRONUTRIENTS

Nitrogen, Phosphorus and Potassium are very important to landscapes, sometimes in large quantities, and they are called macronutrients.

#### Nitrogen (chemical symbol N)

- + Improves plants' color, strength, growth and stress tolerance.
- Nitrogen deficiency causes yellowing (chlorosis), thinning, and slow growth.

#### Phosphorus (P)

- + Promotes establishment and growth of roots.
- + New low-Phosphorus programs reduce annual weed growth and lessen run-off damage.

#### Potassium (K)

- + Improves plants' stress tolerance and disease resistance.

### MICRONUTRIENTS

Several other minerals may be needed in smaller quantities on different landscapes, depending on soil conditions. These micronutrients include:

#### Sulfur (S)

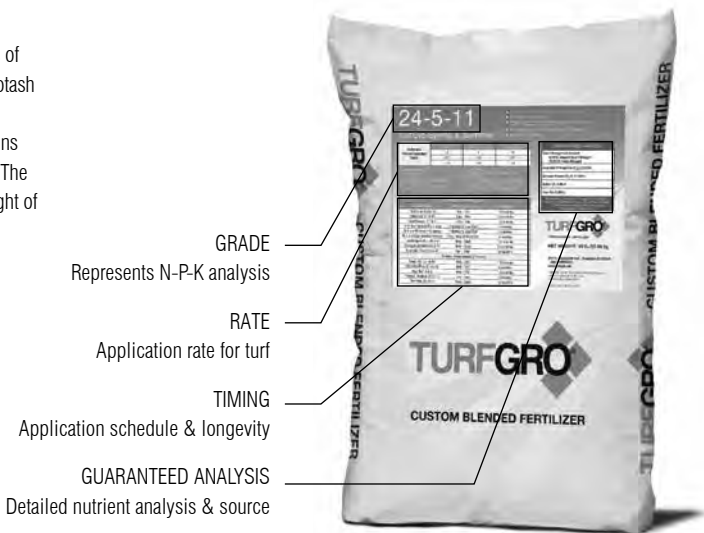
- + Improves plant growth, and helps lower high pH.
- + Only needed in Sulfur-deficient areas such as Florida and Pacific Coast regions.

#### Iron (Fe)

- + Necessary for chlorophyll production.
- Iron is the most common deficiency in turf.

#### Manganese (Mn)

- + Important for photosynthesis, but Manganese deficiencies are rare.



## WOOD FIBER MULCH

When applied over the soil surface, the fibers tend to twist and lock with each other as they dry. This forms a protective mulch mat to aid in erosion control, hold seeds in place, and provide a micro-climate to aid seed germination. After the seedlings have grown to sufficient size, they will protect the soil surface to greatly reduce erosion and soil loss. In the final stage the fibers decompose, adding organic matter to the soil.

## WOOD FIBER MULCH WITH TAC

Rainier Fiber + TAC is virgin wood fiber mulch for use in hydraulic planting with the extra holding power of a tacifier. It is high quality wood mulch, to which 3% high grade organic tacifier is added to enhance erosion protection. Constant production control checks insure that the fiber is consistent in size and texture for the most optimum performance.

When applied over the soil surface, the fibers tend to twist and lock with each other as they dry. With tacifier, the holding power of the fiber to the soil is stronger, thus providing increased erosion protection. The tacifier also holds the seeds in place and gives extra lubricity to the slurry, which makes pumping and application easier.

## RAINIER SUPREME

RAINIER SUPREME™ consists of extra long strand virgin wood fibers along with a special formulated high-strength, non-toxic, cross-linked organic binder. This combination gives superior erosion protection without the addition of man-made synthetic fibers which are not naturally biodegradable. The system sprays on like mulch and forms a blanket that adheres to the soil surface immediately upon application. When dry, the blanket is porous, erosion resistant and protects the soil surface. The blanket retains its integrity and soil protection despite re-wetting for well beyond 12 months. The extra long, wooly wood fibers form tent-like pockets which aids germination and plant growth. When applied over the soil surface, the wood fibers twist and interlock with each other and the soil as they dry. With the high-strength binder, the holding power of the fiber to the soil is much stronger than other BFM's, thus providing superior erosion protection. RAINIER SUPREME™ is 100% naturally biodegradable and is non-toxic to fish and wildlife.

Product Code	Description
101	Rainier 50# wood fiber hydraulic mulch
301	Rainier 50# wood fiber with TAC
401	Rainier 50# BFM hydraulic mulch
501	Rainier 50# supreme BFM hydraulic mulch
601	Rainier 50# mulch blend, 50/50 wood and straw



## TERRA-MULCH WOOD FIBER (DYNAF)

- ◆ Contains 100% of the highest quality wood fiber
- ◆ Now with UltraGro™, a proprietary biostimulant to ensure healthy growth even in harsh environments
- ◆ Thermally Refined™ wood fiber delivers up to 50% more water holding capacity than atmospherically refined wood mulches



Product Code	Description
DYNAF	Terra Mulch Wood Fiber, 50lb. bag

## HYDROBLANKET

- ◆ Available for your toughest jobs, delivering a much higher level of performance than any standard hydraulic mulch on the market today
- ◆ Ideal for projects where blankets are impractical and/or too expensive and conventional hydraulic mulches are ineffective



Product Code	Description
HYDROBLANKET	Bonded Fiber Matrix, 50lb. bag

## HYDRAULIC MULCHES

## NATURE'S OWN PAPER MULCH

- ◆ Works in all hydro-seeding equipment
- ◆ Gives you 20% more loading capacity than wood mulch
- ◆ Fast to load from easy to handle bales
- ◆ Mixes easily with water and virtually eliminates clogs or plugging
- ◆ 100% recycled paper



Product Code	Description
HPAPER	50lb. Paper mulch

## NATURE'S OWN X9000 BFM

A cellulose fiber mulch manufactured from clean recycled newspaper and the toughest agricultural fibers. Made for all erosion control projects:

- ◆ Fast to load from easy-to-handle bales
- ◆ Mixes easily with water and virtually eliminates clogs or plugs
- ◆ Flows smoothly and gives you uniform distribution

## Application rate:

Hydro-Seeding  
3:1 to 2:1 — 3000lb./acre  
Greater than 2:1 — 3500 to 4000lb./acre

Product Code	Description
X9000	Bonded Fiber Matrix, 50lb. bag

### EVOLUTION70

- ◆ Nature's Own Evolution
- ◆ Fast to load from easy to handle bales
- ◆ Mixes easily with water and virtually eliminates clogs or plugging
- ◆ Flows smoothly and gives you uniform distribution



#### Typical Projects:

Highways  
Golf Courses  
Reclamation  
Residential and Commercial Landscaping

#### Typical Application Rate:

Hydro-Seeding:  
Mod. to 3:1 1500lb./acre  
3:1 to 2:1 2000lb./acre  
Greater than 2:1 2500lb./acre  
Strawtacking: 750lb./acre

Product Code	Description
DYNAP	Terra Mulch Wood Fiber, 50lb. bag

### HYDROSTRAW

- ◆ An hydraulically applied straw alternative to straw blowing
- ◆ You can appease the air quality and water quality control boards with one product



Product Code	Description
HYDROSTRAW	50lb. Hydraulic straw mulch



### HYDRO-SEEDING COMPOST

- ◆ Multi-purpose Hydro-Seeding Compost can be used by the Commercial Hydro-Seeding Professional as well as the Weekend Gardening Enthusiast
- ◆ Available in a 3 cu. ft. bale or tote

#### Ingredients:

Premium Screened Composted Forest Products

#### Usage:

In commercial applications add product to Hydro-Seeding blend until desired consistency is achieved. For home use mix product with seeds then spread material approximately 1/8 deep across area to be landscaped

Product Code	Description
HPAPER	50lb. Paper mulch

## TACKIFIERS



### EARTHGUARD FIBER MATRIX

- ◆ EarthGuard® is a soil stabilizing emulsion specifically formulated to reduce erosion and sediment runoff
- ◆ Non-toxic, 100% biodegradable, and conforms to the State of California Department of Transportation Standard Specifications Section 07-382 E A05-30-06 for "Polymer Stabilized Fiber Matrix (PSFM)"
- ◆ One-step spray application, combining EarthGuard® and wood/cellulose fiber
- ◆ Chemically engineered to be effective at low rates while absorbing the impact of raindrops, and providing immediate dust control, erosion control, and soil stabilization until permanent vegetation is established or construction has resumed
- ◆ EarthGuard® FM's versatility allows it to be highly effective in many applications: erosion control, slope stabilization, dust abatement, landscape design, storm water runoff, fire burn rehabilitation, land development, and golf course construction

Product Code	Description
EGFM	#50 Caltrans Fiber Matrix Prep

### PLANTAGO TACKIFER

- ◆ All natural, non toxic, biodegradable and hydrates rapidly
- ◆ May applied as a wet slurry to the surface of the soil
- ◆ Dries to form a firm but rewettable membrane that binds soil particles together and permits germination and growth of seed

Product Code	Description
X9000	Bonded Fiber Matrix, 50lb. bag

### SOILFLOC™ DRY TACK

- ◆ Polyacrylamide Tackifiers with the highest active content available

Product Code	Description
HYDROSTRAW	50lb. Hydraulic straw mulch

### J3000™ GUAR GUM TACKIFIER

- ◆ High quality, coarse granulation guar gum designed for ease of use as tackifier
- ◆ Its high quality gum content assures that the network of fiber, adhesive and soil will bond into a soil holding matrix to:
  - Anchor Mulch, seed, and fertilizer in place until vegetation can take root
  - Prevent Soil and sand erosion and fugitive dust

Product Code	Description
X9000	Bonded Fiber Matrix, 50lb. bag



**TRIPLETACK**

An organic biodegradable tackifier that disperses rapidly in cold water and cures immediately after application

**Typical Application Rate:**

Hydro-Seeding:

Moderate to 6:1 20lb./acre

4:1 to 2:1 30lb./acre

Greater than 1:1 60lb./acre

**Strawtacking:**

50lb. III tack/20lb. fiber/ 1000 gal. water per acre

Product Code	Description
TRIPLETACK	Triple Tackifier, 25lb. bag

**STORMKLEAR® GEL FLOC™ SOCK**

- ◆ A patented, geosynthetic sock filled with a dry-flake soluble form of chitosan
- ◆ With a chitosan content of about 50%, the StormKlear GelFloc Sock contains a much higher percentage of chitosan than any liquid formula
- ◆ Segmentation in the sock prevents bunching and ensures a more consistent dissolution rate
- ◆ One GelFloc Full Size bucket\* treats 500,000 — 2 million gals. of sediment laden water

Product Code	Description
STORMKLEAR	One GelFloc bucket contains four segmented socks

**CORN STARCH TACKIFIER**

- ◆ 100% organic tackifier

Product Code	Description
STARTAC	Corn starch organic tackifier

**HYDROSEEDER ADDITIVES****FIBERLOCK**

- ◆ Uniquely manufactured polyester fibers, exactly 1/2" in length and individually crimped to exponentially increase the mechanical bond within all types of hydraulic mulches
- ◆ FiberLock's unique crimp interlock with each other allowing the fiber mulch matrix the ability to withstand higher rates of surface flow energy
- ◆ 10lb. box



Product Code	Description
FIBERLOCK	Fiberlock Crimped Poly Fibers, 10lb.

**SLIK COLOR #11**

- ◆ Additive for hydro-seeding to enhance the color for great curb appeal. Improves visual metering when applying seed and fertilizer alone
- ◆ The only marker dye with the added plus of a slickifier to improve shooting
- ◆ Apply at a rate of 1lb. per 1500lbs. of fiber Mulch — 3lb. per acre for visual metering
- ◆ Water Soluble Bags 11-1lb. bags per case

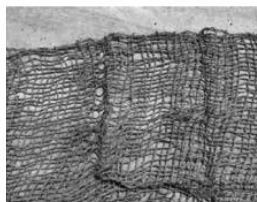


Product Code	Description
SLIK 11	Slikcolor, 11lb. jug
SLIKBAG	Case of 11, 1lb. jug

**WATTLES****WATTLES**

- ◆ Earth Saver Rice Straw Wattles are made from recycled, certified weed-free California rice straw
- ◆ The wattles imitate natural stabilization by reducing the rate of flow, absorbing water and filtering sediment runoff
- ◆ By trapping silt and seed, the wattles allow native vegetation and brush to begin to revegetate and restore root integrity within one year
- ◆ Stabilization of the hillside will eventually transition to the reformed growth as the Earth Saver Wattles decay
- ◆ The wattles also form a durable containment area to prevent polluted runoff from reaching surface waters
- ◆ All wattles meet Cal Trans standard specifications
- ◆ Biodegradeable wattles available

Product Code	Description
SW925	190 mm X 25'
SW1218	11.5" X 18' (nominal) rice straw wattles
SW208	19" X 8' (nominal) rice straw wattles
WW	Weighted wattle



### COIR MATS

- ◆ Two to five years longevity allows full vegetation establishment
- ◆ Provides effective erosion control of steep slopes and in channels
- ◆ High tensile strength and durability make it suitable for the most severe erosion control problems.
- ◆ More durable around water than other natural materials
- ◆ Open mesh construction allows for installing the mat and seeding into the mesh. This provides an excellent opportunity for the establishment of vegetation.
- ◆ Adds fertility to the soil after biodegrading

Product Code	Description
4000-4420	13.5 x 82' Coir Matting 400GM

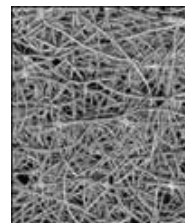
### EXCELSIOR BLANKETS

- ◆ Our Excelsior blankets are comprised of 100% Rocky Mountain Aspen, machine produced excelsior
- ◆ Single net, double net, heavy duty and all natural materials are available.
- ◆ Single and double net products are produced in Regular weight (R) and Superior weight (S).
- ◆ Machine-produced fibers allow for specific dimensions and result in a blanket matrix that is more uniform than other ECBs. Because they are more consistent, our excelsior blankets yield greater open areas for the establishment of vegetation, all with less tenting.
- ◆ Our high-altitude fibers are naturally drier and offer greater strength, resiliency and absorbency for improved performance.



Product Code	Description
4000-1450	8' x 90' Excel DBL NET BIO S-2
4000-1400	8' x 90' Excelsior Blanket 2Side
4000-1210	8' x 90' BLKT SING NET EXCELS R1
4000-1225	8' x 90' BIO SING NET EXCEL R1
4000-4650	Rice Straw Bale 75# Approximate
4000-1800	7.5' x 120' Straw SNGL NET PHO
4000-1850	8' x 112.5' BIO SING NET Straw
4000-1875	8' x 112.5' SS-2 DBL NET STW PHO
4000-1880	8' x 112.5' BIO DBL NET Straw
4000-1900	7.5' x 120' CC-4 COCO PHOTO-NET
4000-1950	7.5' x 120' CS-3 COCO Straw DBL
4000-2000	8' x 112.5' BIO-NET 1 COCO CC
4000-2050	8' x 112.5' COCO Straw NATL CS-3
4000-5000	8' x 112.5' Synthetic Mat PPS-8

American  
Excelsior  
Company®  
Earth Science Division



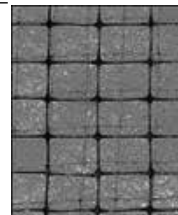
### CURLEX EXCELSIOR BLANKETS

- ◆ Curlex Excelsior Blankets are specifically designed to actually promote ideal growing conditions for grass seed, while simultaneously protecting topsoil from wind and water erosion
- ◆ By design, Curlex Blankets have a built-in swell factor — wet curled excelsior fibers slightly expand in thickness and interlock to form a strong, fiber matrix

Product Code	Description
CURLEX1	8' X 101.25' Single net
CURLEX2	8' X 101.25' Double net
CURLEX3	8' X 67.5' Heavy duty net
CURLEXNF	8' X 101.25' Net-free excelsior blanket

### CURLEX HIGH VELOCITY BLANKET

- ◆ Curlex High Velocity (HV) erosion control blanket consists of a specific cut of 100% weed seed free Great Lakes Aspen curled wood excelsior with 80% six-inch fibers or greater fiber length
- ◆ It is of consistent thickness with fibers evenly distributed throughout the entire area of the blanket
- ◆ The top and bottom of each blanket is covered with heavy duty black net
- ◆ Curlex HV has a design C-factor (USLE Cover Management Factor) of .022 and is typically suitable for slopes up to .75:1. Curlex HV is rated for channel flows up to 10 ft/s (3 m/s) and 3lb./ft<sup>2</sup> (144 Pa) shear stress



Product Code	Description
CURLEXHV	8' X 50' High Velocity blanket

### FUTERRA EROSION CONTROL BLANKET

Product Code	Description
FUTERRAGR	82" X 135' Green blanket
FUTERRANAT	82" X 135' Natural blanket
F4GREEN	78" X 90' Net-Free Futerra green blanket



### PERMANENT TURF REINFORCEMENT MATS

- ◆ Greenfix America offers a variety of TRM products specifically configured to satisfy the many different approaches to slope and channel designing practices
- ◆ Our TRM product development and material qualification program specifically emphasizes reducing hydraulic sediment loss during the pre-vegetated life cycle of a project application
- ◆ Greenfix America composite TRMs are measurably stronger and more flexible allowing for easier installation and a lower level of supervision and inspection management



## EROSION CONTROL BLANKETS (CONT.)



### POLUTION SOLUTIONS

- ◆ Sediment control device, has both filtration and high-flow materials in one bag

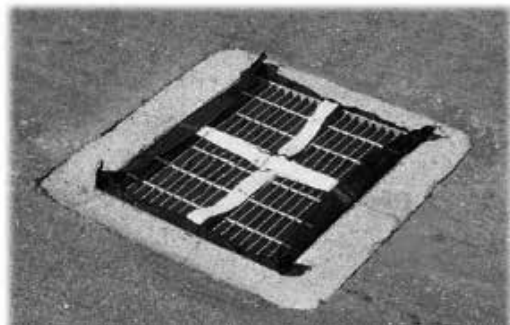


Product Code	Description
Silt Sifter	30 x 16 x 6 Silt Sifter Silt Sifter LG. 30 x 16 x 6
Silt Sifter	23 x 16 x 6 Silt Sifter Silt Sifter SM. 23 x 16 x 6
SS TUBE	SSTUBE Polution Solutions 5' Weighted Wattle

## DRAIN FILTERS

### DRAIN INLET FILTER

- ◆ Simple to install and maintain. Webbing secures the filter to the grate and doubles as straps for lifting to easily remove.



Product Code	Description
YJ22	Polution Solutions 2' x 2' Drain Inlet Prot
YJ23	Polution Solutions 2' x 3' Drain Inlet Prot
YJ24	Polution Solutions 2' x 4' Drain Inlet Prot
YJ34	Polution Solutions 3' x 4' Drain Inlet Prot

## FENCING & ACCESSORIES

### FENCING

Product Code	Description
SFENCE	36" X 100' silt fence with stakes
OSFENCE	36" X 100' orange silt fence with stakes
SFENCE0	36" X 600' orange silt fence w/o stakes
SFNS	36" X 500' silt fence w/o stakes
SFENCESTAKE	48" silt fence stake
OCFENCE13	Orange construction fence, 13lb., 4' X 100'
OCFENCE85	Orange construction fence, 85lb., 4' X 100'
TPOST	5' metal T-post
WSP24	24" X 100' wire-back silt fence
WSP36	36" X 100' wire-back silt fence
SFENCE6PNP	36" X 100' pocket silt fence 6' o.c. with stakes
SFENCE8PNP	36" X 100' pocket silt fence 8' o.c. with stakes

### ACCESSORIES

Product Code	Description
WSTAKE12	1" X 12" wattle stake
WSTAKE18	1" X 18" wattle stake
WSTAKE24	1" X 24" wattle stake
JSQ	6" X 11" gauge blanket staple
JS8	8" X 8" gauge blanket staple
JS12	12" X 11" gauge blanket staple
RT611	6" X 11" gauge round top staples (1000/case)
RT68	6" X 8" gauge round top staples (500/case)
RT88	6" X 8" gauge round top staples (500/case)
RTDRIVER	Round top staple driver



## EDGING



### BEND-A- BOARD

- ◆ Available in 1 X 4, 2 X 4, 1 X 6 — 20' lengths
- ◆ Color: Mendocino Redwood
- ◆ Flexible and durable
- ◆ Versatile and easy to install
- ◆ Slip joint
- ◆ Three profiles
- ◆ Non-structural uses
- ◆ 100% recycled plastic



Product Code	Description
DYNAF	Terra Mulch Wood Fiber, 50lb. bag

### EPIC EDGE

- ◆ Straight runs and limited curves
- ◆ Above-ground installations and pathways
- ◆ Recycled plastic and wood content
- ◆ Nominal thermal expansion
- ◆ Limits weed migration
- ◆ Available in 1 X 6 and 1 X 4 — 20' lengths
- ◆ Four Designer Earth Tone Colors: Mendocino Redwood, Pacifica Grey, Sedona Sand, Carmel Brown
- ◆ All accessories for Epic products available



## LAWN EDGING



### EDGEX® CONTRACTOR GRADE LAWN EDGING

- ◆ Durable plastic material stands the test of time
- ◆ Pliability makes it ideal for a variety of projects
- ◆ Strength withstands weather and the human element
- ◆ Professional quality
- ◆ Made in the USA
- ◆ Galvanized stakes and couplers available
- ◆ Attractive feature for any project
- ◆ Lasts longer than other lawn edging products
- ◆ Waterproof
- ◆ Won't rot, split or crack
- ◆ Fast and easy to install
- ◆ Simplifies lawn maintenance
- ◆ Flexible 20" lengths can bend to fit any landscape design



### SURELOC EDGING

Sure-loc CrispEdge professional aluminum landscape edging is primarily used in residential and light commercial applications where greater flexibility is desired.

- ◆ Fully rigid and grooved design allows edging to retain solid grip in the ground
- ◆ Dual punch out pockets for stakes allows stakes to be driven down in a straight line
- ◆ Wider more rigid stake design will ensure a lifetime of performance
- ◆ Extra long stakes are available when extra depth is required for sandy soil



Product Code	Description
S-16-04-16	Sure-Loc Steel Edging 3/16" X 4" X 16'
S-14-05-16	Sure-Loc Steel Edging 1/4" X 5" X 16'
S-36	Sure-Loc Steel Stake

## LANDSCAPE FABRIC



### 3.0 OZ FLAT BOND POLYESTER

- ◆ Constructed from polyester fibers spunbond into a swirling web pattern
- ◆ Exceptional strength to weight ratio and the natural qualities of polyester provide ultraviolet stability
- ◆ Excellent water and air permeability
- ◆ Perfect for landscape weed control, patio underlying and drainage line wrap
- ◆ Superior weed control
- ◆ Easy to cut and handle



Product Code	Description
4404	Bond Landscape fabric 3' X 50'
4423	Bond Landscape fabric 3' X 300'
4437	Bond Landscape fabric 4' X 100'
4461	Bond Landscape fabric 6' X 100'
4447	Bond Landscape fabric 4' X 300'
4471	Bond Landscape fabric 6' X 300'
4473	Bond Landscape fabric 9' X 300'
4483	Bond Landscape fabric 12' X 300'

### 4.2 OZ WOVEN NEEDLE PUNCHED

- ◆ Black, needle-punched, woven landscape fabric
- ◆ Provides exceptional strength and toughness and has a very high UV resistance
- ◆ Consistent opening size prevents weed growth and allows water and air exchange with the soil
- ◆ Perfect as a landscape weed control, patio underlying and soil separator
- ◆ Strong with good water and air permeability
- ◆ Stays flexible for easy handling

Product Code	Description
5422	4.2 oz. Woven 3' X 250'
5470	4.2 oz. Woven 6' X 250'
5482	4.2 oz. Woven 12' X 250'
5404	4.2 oz. Woven 3' X 50'
5446	4.2 oz. Woven 4' X 250'

## ARBOR PRODUCTS



### TREE ROOT BARRIER PANELS

An innovative system that directs tree and shrub root systems down, protecting hardscapes and landscapes from disruption caused by surface roots.



- ◆ Commonly used in areas where trees are planted near sidewalks, patios, curbs, parkways and other street tree applications
- ◆ For trees with maximum mature caliper of 24"

Product Code	Description
EP1250	12" Root barrier
EP1850	18" Root barrier
EP2450	24" Root barrier

### TEMPORARY WATERING BAGS

- ◆ Slow release watering bag
- ◆ Uses a patented design to provide an effective watering that efficiently delivers deep water saturation in less than 12 hours
- ◆ Just fill up a bag in the morning, and it will efficiently water your trees before the end of the day!
- ◆ Provides deep water saturation with each application
- ◆ Only fill it once a week for most new tree plantings

Product Code	Description
44010	20 gal. watering bag

### TREE TRUNK PROTECTOR

- ◆ Prevents damage to young tree trunks by trimmers, lawn mowers and rodents
- ◆ Will expand as the tree grows. With breathing holes
- ◆ For trees up to 4" caliper and 9" height

Product Code	Description
TP128	8" Arbor guard protector

### TREE STAKES/LODGE POLES

- ◆ Pressure treated tree stakes feature conical point for easy installation
- ◆ Chamfered top eliminates splitting and cracking

Product Code	Description
TREE8	8'
TREE10	10'
TREE308	3" diameter X 8'
TREE310	3" diameter X 10'
LP28	2" X 8' Lodge Pole
LP210	2" X 10' Lodge
LP310	3" X 10' Lodge
LP38	3" X 8' Lodge
LP312	3" X 12' Tree

## ARBOR PRODUCTS (CONT.)

### CINCH-TIE TREE TIES

- ◆ Effectively single or double stake young trees
- ◆ Made from a strong, UV-resistant vinyl material

Product Code	Description
CT18	18"
CT24	24"
CT32	32"

### TREE TIE TAPE

Product Code	Description
010TTT	1" Tree Tie Tape
007TTT	3/4" Tree Tie Tape
005TTT	1/2" Tree Tie Tape

### TWIST-BRACE TREE TIE SYSTEM

- ◆ Provides a superior support system to resist environmental stress
- ◆ Assures tree stability for optimum growth
- ◆ Reduces liability while providing excellent strong wind protection

Product Code	Description
TB18	18"
TB24	24"

### BULK PLASTIC GARDEN TIES

- ◆ Strong plastic ribbon that will not break, shred or tear
- ◆ Bulk pack

Product Code	Description
TREETIE05	1/2" wide X 150' roll
TREETIE100	1" wide X 150' roll

### GRO-STRAIT CORDED RUBBER TREE TIE

- ◆ Extra durable corded rubber provides a strong and flexible tree tie
- ◆ Figure 8 wrap is recommended with nailing to the back of the stake

Product Code	Description
9012	12"
9018	18"
9024	24"
9030	30"

KEEPING TREES STRONG, HEALTHY  
AND BEAUTIFUL

## TREE ANCHORING KITS

Provide reliable anchoring of medium and large trees. Also used to secure equipment, picnic tables or other items to reduce theft.



### MODEL 40 DTS

- ◆ For trees up to 3" caliper with 300lb. capacity and includes 12' of 1/16" galvanized steel cable connected to each anchor
- ◆ Includes three 12' tree collars and three cable clamps

Product Code	Description
DB40DTSC	Clear coated guy wires
DB40DTSW	White coated guy wires

### MODEL 68 DTS

- ◆ For trees from 3" to 6" caliper with 1,100lb. holding capacity
- ◆ Kit includes 13' of 1/8" cable with each anchor, three turnbuckles, three tree collars, and 6 1/8" cable clamps

Product Code	Description
DB68DB1	Standard with cable
DB68DTSC	Clear coated guy wires
DB68DTSW	White coated guy wires

### MODEL 88 DTS

- ◆ For trees over 6" caliper with 3,000lb. holding capacity
- ◆ Includes 15' of cable with each anchor, three turnbuckles, three tree collars, and six 3/16" cable clamps

Product Code	Description
DB88DTSC	Clear coated guy wires
DB88DTSW	White coated guy wires

## ACCESSORIES

Product Code	Description
DBDR2	2' driving rod for installing Duckbill Model 40 kits
DBDR1	3' driving rod for installing Duckbill Model 68 kits
DBDR3	4' driving rod for installing Duckbill Model 88 kits

## COOL SEASON GRASSES - PERENNIAL RYES

### NOTE:

For best results, apply a starter fertilizer before dropping seed, such as TurfGro 6-20-20, TurfGro 15-15-15, or TurfGro 16-16-16



### **TURFGRO OVERSEEDER 3-WAY PERENNIAL RYEGRASS BLEND**

- ◆ Quality seed at a value price
- ◆ TurfGro Overseeder contains varieties that have performed well in University trials, including those for color rating, fine texture, density, and spring transition
- ◆ Guaranteed to be free of Poa Annua in a 50 gram test
- ◆ A sunny lawn blend or for use as winter overseed of warm-season lawns
- ◆ 50 lb. and 25 lb. bags



### **3-WAY BLEND PERENNIAL RYEGRASS BLEND**

- ◆ Sunny Lawn Blend
- ◆ Provides a dark, dense, durable turf
- ◆ Ideal winter overseed for southern lawns, like Bermuda
- ◆ 10 lb. bags



### **CHAMPION GQ**

- ◆ The industry standard when it comes to Perennial Ryegrass blends
- ◆ Champion GQ is blended from the highest quality varieties for rapid germination, establishment, recovery, texture, color, winter activity, stress resistance, disease resistance, and salt tolerance
- ◆ Quite simply Champion GQ exhibits all of the best qualities that a professional looks for
- ◆ It is **well adapted for both permanent turf and winter overseeding**, and it has the highest level of Gray Leaf Spot (GLS) resistance of any Ryegrass blend
- ◆ 50 lb. and 10 lb. bag



## INTERMEDIATE AND ANNUAL RYES

### **FORMULA 1 PERENNIAL / INTERMEDIATE RYEGRASS BLEND**

- ◆ 67% Perennial / 33% Intermediate Blend
- ◆ Quick fall establishment and transition back to Bermudagrass in spring - good for overseeding
- ◆ 50 lb. bag

### **SOLSTICE II INTERMEDIATE RYEGRASS**

- ◆ A variety crossed between perennial and annual ryegrasses
- ◆ Similar performance characteristics to perennials, but with markedly less persistence as temperatures rise and Bermudagrass exits winter dormancy
- ◆ 50 lb. bag

### **BREAKOUT ITALIAN RYEGRASS**

- ◆ A transitional ryegrass used for winter cover of warm-season grasses
- ◆ Has a texture more similar to perennial ryegrass than most annual ryes
- ◆ 50 lb. bag

## COOL SEASON GRASSES - TALL FESCUES



### **TURFGRO WATERSMART 3-WAY TURF TYPE TALL FESCUE BLEND**

- ◆ Quality seed at a value price
- ◆ TurfGro Watersmart contains tall fescue varieties chosen for aggressive tillering, lower water use, stress and pest tolerance, color, and overall appearance and persistence over a wide range of conditions and environments
- ◆ 50lb. bag



### **SURVIVOR TURF TYPE TALL FESCUE**

- ◆ The extremely long root system is the secret to Survivor's drought tolerance. This means less frequent irrigation because the roots can reach deeply into the soil to absorb water
- ◆ Survivor has exhibited excellent wear tolerance and very good cold tolerance
- ◆ It will perform best in a fertile, well drained loam soil, but can tolerate less than perfect conditions
- ◆ Survivor will withstand soils that have a heavy clay content or are compacted
- ◆ It also has good resistance to many insects and fungal diseases
- ◆ 50 lb. and 10 lb. bags

# Landscape

## GRASS SEED

### COOL SEASON GRASSES - TALL FESCUES (CONT.)

#### **TROPHY XRE TURF TYPE TALL FESCUE BLEND**

- ◆ Consisting of tall fescues with rhizomatous qualities, this blend has the ability to spread densely across large areas, binding a lawn together and quickly filling in any damaged or open spots
- ◆ **It has superior wear tolerance and recovers faster from injury and stress than other tall fescue blends**
- ◆ Trophy XRE is adapted from the cool season turfgrass areas of the North, through the transition zone, into the upper Southern states and across the Western states
- ◆ It is ideal for sports turf, sod production, and any high traffic or low maintenance areas where top quality Tall Fescue is desired
- ◆ 50 lb. bag

#### **SR 8550 DWARF TURF TYPE TALL FESCUE**

- ◆ SR 8550 forms a very dark green high quality turf with improved wear tolerance
- ◆ The dwarf growth form combined with the ability to rapidly repair damage makes it ideal for all uses
- ◆ Its high Brown Patch and Leaf Spot resistance enables it to look good all year, and it recovers rapidly if damage does occur
- ◆ With its high disease resistance levels, plus moderate rhizome expression, SR 8550 is a persistent, long lived variety
- ◆ 50 lb. and 10 lb. bags

### COOL SEASON GRASSES - FINE FESCUES



#### **TRADITION FINE FESCUE MIXTURE**

- ◆ SR's premium blend of top performing Fine Fescues — Hard, Chewings, Blue & Creeping Red Fescue
- ◆ **Perfect for shady and mixed shade sites**, native and reclamation plantings, and other high performance turfgrass applications
- ◆ 50 lb. bag

#### **SR 3150 HARD FESCUE**

- ◆ Selected for a dwarf growth habit to reduce the number and frequency of mowings and clipping yields
- ◆ **In low maintenance areas it forms an attractive, dark green, dense turf requiring minimal water and fertilization in both sun and shade**
- ◆ Resistant to a number of turf insects including Billbugs, Sod Webworms, Chinch Bugs and Armyworms; and to many turfgrass diseases including Red Thread, Summer Patch, Dollar Spot, Leaf Spot and Powdery Mildew
- ◆ SR 3150 is ideally suited for environmentally sensitive sites where chemical applications are limited or not desired
- ◆ 50 lb. bag

#### **SR 5250 STRONG CREEPING RED FESCUE**

- ◆ **Thrives in both sun and shade and with high or low maintenance**
- ◆ Naturally present endophyte provides protection against many insects, disease and stress
- ◆ Blends well with other fine fescues, bluegrasses or perennial ryegrasses
- ◆ 50 lb. bag

### COOL SEASON GRASSES - KENTUCKY BLUEGRASS



#### **SR 2100 KENTUCKY BLUEGRASS**

- ◆ The extensive rhizome development on SR 2100 sod gives it the ability to establish rapidly, withstand adversity and recover quickly
- ◆ **The high sod tensile strength allows sod containing this variety to be easily lifted and at a younger age**
- ◆ The sod will also establish rapidly when placed on site
- ◆ SR 2100 has shown excellent drought resistance and rapid recovery
- ◆ These traits are important for sod growers, home owners and professional turf managers
- ◆ It has shown excellent resistance to and recovery from several turf diseases, which combined with its drought tolerance and recovery make it a good choice for lower maintenance sites
- ◆ 50 lb. bag

### COOL SEASON GRASSES - POA TRIVIALIS (ROUGH BLUEGRASS)



#### **MAXIMUM POA TRIVIALIS**

**Ideal for winter overseeding of dormant Bermudagrass putting greens and tees**

- ◆ Quick fall establishment
- ◆ Excellent putting surface
- ◆ Maintains good winter color
- ◆ Good recuperative ability
- ◆ Improved Bermuda green recovery
- ◆ 50 lb. bag



#### **STARLITE II POA TRIVIALIS**

- ◆ **Bred with intended use of overseeding dormant Bermudagrass greens and fairways – its density and fine leaf texture accommodate very close mowings**
- ◆ Dark in color for better compatibility with surrounding ryegrass areas
- ◆ Less competitive with bermudagrass regrowth in the spring, so it transitions out more easily
- ◆ 50 lb bag



*The germination of ideas*

# High Performance Seed for All Uses: Sports Fields, Landscape & Golf.

## CHAMPION GQ

PERENNIAL RYEGRASS

The Standard of Excellence  
for Over 25 Years!

## CHAMPION EZEE

RYEGRASS MIXTURE

Transitional Combination  
featuring Transfix

[www.sroseed.com](http://www.sroseed.com)



# Landscape

## GRASS SEED

### COOL SEASON GRASSES - BENT GRASSES



#### **TYEE**

- ◆ Tyee means "superior" or "leader" in the language of the Pacific Northwest Indians
- ◆ Tyee is the new Creeping Bentgrass leader in performance on greens, and tops the NTEP in quality ratings on a sand green, winter color, fall density, and leaf texture
- ◆ The rewards from using Tyee are a superior putting surface, reduced syringing, less herbicides, and reduced thatch production when compared to other high density Bentgrasses
- ◆ 50 lb. bag

#### **007**

- ◆ Enhanced Dollar Spot resistance and superior turf quality make this variety the perfect choice for all levels of golf course projects, especially those located in stressful environments
- ◆ Tops the NTEP in quality ratings in all test locations (it performs in various environments), performance in a greens seeding trial, quality ratings at low mowing heights, quality ratings on a soil green, and percent establishment
- ◆ 50 lb. bag



#### **DOMINANT X-TREME 7**

- ◆ A blend of two of the best Creeping Bentgrasses available, 007 and SR 1150, selected to compliment each others strengths and weaknesses, with similar appearances and growth habits
- ◆ Developed for extreme disease resistance, specifically to Pythium, Brown Patch, and Dollar Spot
- ◆ 25 lb. bucket



#### **DOMINANT PLUS**

- ◆ A blend of three of the best Creeping Bentgrasses available. Selected to compliment each others strengths and weaknesses, with similar appearances and growth habits
- ◆ The broad genetic base offers superior heat, cold, and salt tolerance along with extreme resistance to disease
- ◆ 50 lb. bag

### COOL SEASON GRASSES - COOL SEASON MIXES



#### **CHAMPION FINE**

- ◆ Certified mixture of 70%-90% Champion GQ perennial ryegrass blend and 10%-30% SR 5130 Chewings fescue
- ◆ Appropriate for both permanent perennial ryegrass areas and for overseeding dormant Bermudagrass
- ◆ **The addition of Chewings fescue increases the genetic diversity of the stand, so disease problems are less likely than with straight Perennial Rye**
- ◆ 50 lb. bag

#### **CHAMPION SPORTS TURF MIX**

- ◆ 80% Champion GQ Ryegrass, 20% Kentucky Bluegrass mix
- ◆ **Meets the most important needs of sports turf: quick establishment and repair, and high wear tolerance**
- ◆ 50lb. bag

#### **TROPHY 90 / 10 MIX**

- ◆ 90% Tall Fescue, 10% Kentucky Bluegrass mix
- ◆ Combined benefits of overall low maintenance plus improved wear tolerance from Bluegrass rhizomes
- ◆ 50 lb. bag and 10 lb. bucket

#### **TROPHY 95 / 5 MIX**

- ◆ 95% Tall Fescue, 5% Kentucky Bluegrass mix
- ◆ Combined benefits of overall low maintenance plus improved wear tolerance from Bluegrass rhizomes
- ◆ 50 lb. bag

#### **CHAMPION BLUE MIX**

- ◆ Champion® Blue incorporates the very best Perennial Ryegrasses available (including SR 4220, SR 4420, SR 4500 and Hawkeye) with advanced Kentucky Bluegrass varieties (SR 2284, Arcadia, Showcase and Odyssey)
- ◆ Mixing these two turf types offers rapid establishment of repaired areas as well as long-term durability
- ◆ 50 lb. and 10 lb. bags

## COOL SEASON GRASSES - COOL SEASON MIXES

**CRUSADER MIX**

- ◆ Perennial Ryegrass/Fine Fescue mix
- ◆ Top performing Perennial Ryegrasses provide rapid establishment while SR 3150 — the standard for Hard Fescues — offers **lower maintenance requirements and superior performance in shade**
- ◆ 50 lb. and 10 lb. bags

**SURGE MIX**

- ◆ 70% 3-Way Perennial Rye/15% Chewings Fescue/15% Creeping Red Fescue
- ◆ Rapid establishment, lower maintenance & tolerance to shade
- ◆ 50lb., 25lb., 10lb. and 5lb. bags

**FRONTIER MIX**

- ◆ 60% 3-Way Kentucky Bluegrass/40% 2-Way Perennial Rye
- ◆ Long-lasting, durable Bluegrass with a percentage of Perennial Ryegrass to aid in quick establishment and repair of damaged areas
- ◆ **Perfect mix for lawns in Rocky Mountain regions**
- ◆ 50 lb. and 25 lb. bags

## WARM SEASON GRASSES- BERMUDAS

**LAPRIMA CERTIFIED BLEND**

- ◆ The first Certified blend of improved, turf-type seeded Bermudagrass varieties
- ◆ Fast germination for rapid cover
- ◆ Consistent, high quality turf with uniform growth
- ◆ Durable and wear tolerant
- ◆ Adapted for all maintenance levels
- ◆ **Tolerates poor quality/effluent water, with continued high performance in the Southwest**
- ◆ Drought tolerant
- ◆ Withstands variable soil conditions
- ◆ 25 lb. bag

## WARM SEASON GRASSES- BERMUDAS (CONT.)

**LAPRIMA XD BLEND**

- ◆ LaPrimaXD Bermudagrass Blend with X-treme Density is a blend of superior Bermudagrass cultivars selected for fast germination and establishment, combined with the highest turf quality
- ◆ **This blend combines Yukon, a Bermudagrass with high turf quality and cold tolerance, with cultivars such as Princess 77 or Veracruz selected for superior turf quality, and LaPaloma, which adds fast establishment and rapid divot recovery**
- ◆ The cultivars selected for this blend are adapted for superior performance under a broad range of environmental conditions
- ◆ 50 lb. bag

**POSTCARD BERMUDA GRASS**

- ◆ Fast germination for quick establishment
- ◆ Excellent wear and traffic tolerance
- ◆ Low water use, drought and salt tolerant
- ◆ 25 lb. and 2 lb. bags

**COMMON BERMUDA, HULLED**

- ◆ Common Bermudagrass is used for erosion control, roadsides, or general pasture areas
- ◆ **Hulled seed has had part of the protective coating removed, to speed up germination**
- ◆ 50 lb. bag

**COMMON BERMUDA, UNHULLED**

- ◆ Unhulled seeds still have the seed coats attached
- ◆ Some seed may germinate early while others will lie dormant until conditions are more favorable for germination
- ◆ 50 lb. bag

## FORAGES &amp; NATIVES

Horizon has an extensive offering of forage and native seeds used for erosion control, roadsides, and pastures. Because your project is likely unique in specifications, please contact your local Horizon store or Account Representative for a specialized quote.

- ◆ Bromes
- ◆ Oats
- ◆ Fescues
- ◆ Wildflowers
- ◆ Barley
- ◆ Poppies
- ◆ Clovers & more

# Landscape

## SOD

Horizon offers a variety of sod from local sod growers.

### NORTHERN CALIFORNIA



#### Pacific Sod

- ◆ Bonzai
- ◆ Medallion Tall Fescue
- ◆ Medallion Plus 90% Fescue & 10% Bluegrass
- ◆ No Mow Fine Fescue
- ◆ PennBlue 60% Rye & 40% Bluegrass
- ◆ PennBlue Sports Turf



#### Delta Bluegrass Sod

- ◆ 9010 Fescue & Bluegrass
- ◆ Bolero
- ◆ Bolero Plus
- ◆ 100% Rye
- ◆ Mow Free Fescue
- ◆ Tifway Hybrid Bermuda
- ◆ Bluegrass



#### Mello Sod

- ◆ Emerald Fescue Blend
- ◆ Jade (80% Fescue & 20% Rye)
- ◆ Kentucky Bluegrass
- ◆ Blue/Rye 80% Bluegrass & 20% Rye
- ◆ 80% Fescue & 20% Kentucky Bluegrass

### SOUTHERN CALIFORNIA



#### West Coast Turf

- ◆ Tall Fescue
- ◆ Bluegrass/Ryegrass
- ◆ Bulls-Eye Bermuda
- ◆ Bob Sod

### NEVADA



#### Valley Sod Farm

- ◆ Dwarf Tall Fescue/Bluegrass
- ◆ Tifway Hybrid Bermuda

### ARIZONA



#### Evergreen Turf

- ◆ Celebration Bermuda
- ◆ Midiron
- ◆ Palmetto St. Augustine
- ◆ Tifgreen Bermuda for Greens
- ◆ Tifgreen Bermuda for Fairway

### COLORADO

#### Greenlawn

- ◆ Kentucky Bluegrass
- ◆ Tall Fescue
- ◆ Blue Rye/Fescue
- ◆ Colorado Native

### NORTH TEXAS

#### Texoma Sod

- ◆ Tifway Bermuda/Overseeded
- ◆ U3 Bermuda Grass/Overseeded



#### Two State Sod

- ◆ Bermuda
- ◆ Zoysia
- ◆ Fescue

### WASHINGTON & OREGON



#### JB Instant Lawn

- ◆ 3-Way Rye