The Soil Environment Company

Since 1966

Commercial Product Line

Soil Preparation | Backfill | Maintenance | Hydroseeding
Gro-Power®, Inc. has been manufacturing Humus based fertilizer/soil conditioner products since 1966. All of our basic products contain true plant-based (below fibrous stage) Humus, Humic Acids and beneficial soil bacteria. Gro-Power® is designed to increase the soils fertility by adding high quality organic matter (Humus), and beneficial soil micro-organisms back into the soil. These natural elements aid in improving soil texture (i.e.; aiding in breaking up clay soils, increasing moisture holding capacity in sandy soils), balancing soil chemistry and keeping plant food in forms plants can assimilate. Gro-Power® products are odor free, environmentally safe and free of waste products, such as animal waste, poultry litter, sewage sludge or toxic mine tailings. All products contain non-staining Iron, Manganese & Zinc.

Within this catalogue, you will find Gro-Power® products for soil preparation, soil reclamation and re-vegetation, general landscape maintenance and more. Also included are various rates and recommendations. For more specific specifications, please contact our office or visit our website at www.gropower.com.

- Improves soil structure
- Adds organic matter/micro-organisms
- Lowers salt/boron levels
- Increases soil C.E.C.
- Lowers soil pH
- Releases locked up nutrients

Gro-Power® products have been used extensively by landscape professionals at:

- Resorts and Amusement Parks
- Golf Courses & Sportsfields
- Park Departments, School Districts and Government Facilities
- New Landscape Developments
- Superfund Revegetation Sites, Landfills and more.

Most products are available from your local landscape & irrigation supplier.

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### GENERAL LANDSCAPE FERTILIZER & SOIL CONDITIONERS

**Gro-Power® 5-3-1**

Our all purpose fertilizer and soil conditioner can be used for most fertilizer needs with maximum results, this complete product can be used every 6-8 weeks through out the growing season.

**Contains:** 5-3-1 NPK, 70% Humus, 15% Humic Acids, Micronutrients and beneficial soil bacteria. (50# bag)

**USES:** General feeding of trees/shrubs/lawns, etc. Great for soil preparation, backfill mixes and hydroseeding application. Also used in vegetable gardens, container plants, and fruit and citrus trees.

**Gro-Power® Plus 5-3-1**

Our best selling product, designed for use in problem soil like clay, adobe, or soils high in salts or boron. Helps to break-up and aerify soils. All purpose fertilizer and soil conditioner

**Contains:** 5-3-1 NPK, 70% Humus, 15% Humic Acids, Micronutrients, beneficial Soil Bacteria and Soil Penetrant.

**Also available with 4%, 12% Sulfur and Turf Grade.**

**USES:** General feeding of trees/shrubs/lawns, etc. Great for soil preparation, backfill mixes and hydroseeding application. Also used in vegetable gardens, container plants, and fruit and citrus trees.

**Gro-Power® Plus 5-3-1 w/Mycorrhizae**

This cost-effective product contains a broad spectrum of endo and ecto mycorrhizae. With all the benefits of our Gro-Power® Plus, this is a great way to condition the soil and add beneficial mycorrhizae inoculum to the soil’s natural environment.

**Contains:** 5-3-1 NPK, 70% Humus, 15% Humic Acids, Micronutrients, Soil Penetrant, beneficial soil bacteria, and mycorrhizae. (50# bag)

**USES:** Soil conditioning, hydroseeding, arid and sandy soils, subsoils, poor problematic soils.

**Flower’N’Bloom 3-12-12**

A favorite of most gardeners, this low nitrogen, high phosphorus and potash formulation is great for developing a vigorous root system and producing high quality flowers and fruit.

**Contains:** 3-12-12 NPK, 35% Humus, 7% Humic Acids, Micronutrients and beneficial soil bacteria. (50# bag)

**USES:** General feeding of flowers, fruit and citrus trees, vegetable gardens, flowerbed preparation, pre-plant fertilizer/starter fertilizer, overseeding, and winterizer.
CONTROLLED RELEASE FERTILIZERS

Controlled Release 12-8-8
A favorite among landscape professionals, this Controlled Release Nitrogen formulation includes Micronutrients, Humus, Humic Acids, and beneficial soil microbes, and used in many landscape and horticultural applications. Available in 3 release analysis.

3 - 4 month  100% Nitrogen from MU
4 - 6 month  33% Nitrogen from MU, 67% from Ureaform
6 - 8 month  100% Nitrogen from Ureaform

USES: General feeding of trees, shrubs, color beds, containers, hydroseeding, soil preparation.

Toss ‘N’ Gro 8-8-8
Large pellets designed to apply by hand contain Humus, Humic Acids, beneficial soil microbes, micronutrients and a soil penetrant which work together to establish soil balance, help to break up heavy, compacted soils and naturally improve moisture holding capacity. The balanced 8-8-8 (1-1-1 ratio) contains slow release nitrogen (methylene ureas) for long-term feeding.

Contains: 8-8-8 NPK, 4% Slow Release Nitrogen (MU), 40% Humus, 8% Humic Acids, 2% Iron, 4% Magnesium and Micronutrients. (17#, 40# bags)

USES: Premium fertilizer and soil conditioner designed for hand applications on slopes, hillsides, and other areas. Long term feeding of container plants.

Gro-Power® Planting Tablets 12-8-8
7 gram slow release planting tablets are designed to last 12 months. Components in tablets allow for breakdown within all soil mediums. 12-8-8 NPK 20% Humus, 4% Humic Acids, Controlled Release Nitrogen, 3.5% Sulfur, 2% Iron, Micronutrients.

(1,250 - 7 gram tablets/case)

ALSO AVAILABLE
• 7 gram 3-12-12 Flower’N’Bloom
• 7 gram 9-3-9 Palm & Tropical

USES: New plantings, existing plants, containers, water plants and Bonsai.

LIQUID / FOLIAR FORMULATIONS

Gro-Power® Liquid 4-8-2 with 2% Humic Acids
Specially formulated with Humic Acids. A liquid fertilizer that helps balance soil conditions. Excellent to help set buds and blossoms. Use as a foliar or drench. Very effective.

APPLICATION RATE: Per product information sheet.

Available in 1 quart (12 per case), 1 gallon (4 per case), 2.5 gallon container, and 55 gallon drum.

Prescription Foliars
**GRO-POWER® PREMIUM SPECIALTY FERTILIZERS**

**Premium Palm & Tropical 9-3-9**

This fertilizer was specifically designed for the unique needs of palms and other tropical plants. A Controlled Release Nitrogen, Micronutrients including 4% Magnesium and our Humus, Humic Acid and beneficial soil microbes will feed your palm/tropicals consistently for 3-4 months.

**Contains:** 9-3-9 NPK, 30% Humus, 5% Humic Acids, Controlled Release Nitrogen, 4% Magnesium, 2% Sulfur, 2% Iron, 3% Calcium, .05% Manganese, .05% Zinc, and beneficial soil bacteria. (40# bag)

**USES:** General feeding, backfill, containers. Corrects yellowing of palm and tropical plants.

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**Premium Citrus & Avocado 8-6-8**

Ideal for all your year around feeding of citrus, avocado, fruit & nut trees. This premium fertilizer with Controlled Release Nitrogen will help to develop a healthy rootstock and produce high quality fruit.

**Contains:** 8-6-8 NPK, 40% Humus, 8% Humic Acids, Controlled Release Nitrogen, 4% Magnesium, 4% Sulfur, 2% Iron, Micronutrients, Soil Penetrant and beneficial soil bacteria. (40# bag)

**USES:** General feeding, backfill, containers.

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**Premium Rose Food 6-8-4**

Excellent for all types of roses. Unique combination of quality organics with a Controlled Release Nitrogen. Contains readily available Magnesium to maintain dark green foliage and increase the number of canes and flowers. Will feed your roses year round.

**Contains:** 6-8-4 NPK, 50% Humus, 15% Humic Acids, Controlled Release Nitrogen, 2% Magnesium, 3% Sulfur, 2% Iron, Micronutrients, Soil Penetrant and beneficial soil bacteria. (40# bag)

**USES:** General feeding, backfill, containers.

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**Premium Azalea, Camellia & Rhododendron 6-4-4**

Ideal for “Acid-Loving” plants. This fertilizer with Controlled Release Nitrogen will help to correct iron deficiencies and yellowing of leaves while providing the essential nutrients for a healthy plant.

**Contains:** 6-4-4 NPK, 35% Humus, 10% Humic Acids, Controlled Release Nitrogen, 4% Sulfur, 4% Iron, Micronutrients, Soil Penetrant and beneficial soil bacteria. (40# bag)

**USES:** General feeding, backfill, containers.
HyBrid Turf Fertilizer / Soil Conditioner

**Hi-Nitrogen 14-4-9**
Our best selling and improved hybrid fertilizer for all types of turf combines both quick release and slow release Nitrogen with Micronutrients. Our unique combination of Humus, Humic Acid and beneficial soil microbes with essential nutrients will increase your soils fertility while feeding the turf.

Contains: 14-4-9 NPK, 30% Humus, 6% Humic Acids, Ammoniacal and Controlled Release Nitrogen and beneficial soil bacteria. (50# bag)

USES: Turf fertilizer and general maintenance.

**GroPower 11-2-9 / 8% Iron + Mn**
This unique multi-purpose formulation developed for all types of turf has 8% non-staining Iron added for longer lasting green. Includes quick release Nitrogen, Micronutrients, and quality organics.

Contains: 11-2-9 NPK, 20% Humus, 10% Humic Acids, soluable Nitrogen source, Soil Penetrant and beneficial soil bacteria. (50# bag)

USES: Turf fertilizer and general maintenance.

**Premium Hi-Nitrogen 18-3-7**
For all types of turf, this fertilizer uses three types nitrogen for immediate to long term feeding. With 4% Humic Acids, this maintenance product will produce maximum results while adding some organics back into the soil.

Contains: 18-3-7 NPK, 20% Humus, 4% Humic Acids, Controlled Release Nitrogen, 4% Sulfur, 1% Iron, 0.50% Soil Penetrant and beneficial soil bacteria. (50# bag)

USES: Turf fertilizer and general maintenance.

**Gro-Power® Phosphorus Plus 6-18-8**
Phosphorus Plus is a unique formulation with 25% Humic Acids to meet the phosphorus needs of plants. It is an ideal product for use in soils low in phosphorus.

Contains: 6-18-8 NPK, 35% Humus, 25% Humic Acids, 2% Magnesium, 2% Sulfur, Soil Penetrant and beneficial soil bacteria. (50# bag)

USES: Pre-plant starter fertilizer for seedlings, turf, ornamentals and vegetable gardens. Good general use product for low phosphorus soils.

**Premium Green® Iron 40% (Fe)**
A high analysis non-staining iron with micronutrients, 1% Manganese, 1% Zinc, 1% Magnesium, 6% Sulfur, 2% Humic Acids. (50# bag / 10# pail)

- 100% Natural • Slow-Release • No Mine Tailings • Fast Dissolving • Environmentally Safe

USES: Ideal for increasing available iron and correcting iron chlorosis in turf and plants. Also used for “Acid-Loving” plants like Azalea, Camellia, Gardenia and Rhododendron.
MYCORRHIZAE PRODUCTS

GroLife® (Soil Conditioner / Mycorrhizal Inoculum)
A natural product that contains various species of endo and ecto mycorrhizal fungi with an organic soil conditioner. GroLife® is effective in any type of soil, helping to create a beneficial environment for plants.

GroLife® should be applied in projects where the following situations occur: Top soil is eroded, extremely arid conditions, little or no future maintenance (fertilization, irrigation, etc.) will be occurring on this site. Recommended for EPA superfund sites, mine sites, landfills, restoration, mitigation and revegetation sites. (40# bag)

Soil Prep and Hydroseeding
Use GroLife® 20 lbs. per 1,000 sq. ft., or 1,000 lbs. per Acre.

NOTE: GroLife® should be sufficient for soil preparation on most revegetation projects. The projects are designed with specifications for native plants which will become established with minimal horticultural inputs; i.e., little or no fertilization. Increased weed growth may be a result of high fertilization. GroLife® acts as inoculum, soil conditioner and starter nutrient source.

Gro-Power® Plus 5-3-1 w/M (with Mycorrhizae)
Designed to be used with subsoils, poor problematic soils, fill soils, and sandy soils. Excellent for commercial sites. Product maximizes soil conditioning and greatly enhances the soil microbial levels for a healthy soil.

Contains: 5-3-1 NPK, 70% Humus, 15% Humic Acids, Micronutrients, Soil Penetrant, beneficial soil bacteria, and mycorrhizae. (50# bag)

USES: Soil conditioning, hydroseeding, arid and sandy soils, subsoils, poor problematic soils.

Use Gro-Power® Plus 5-3-1 w/M (with mycorrhizae)
• Top 1” to 2”, 50-75 lbs. per 1,000 sq. ft.
• Top 3” to 6”, 200 lbs. per 1,000 sq. ft.

GroLife® MGC (Mycorrhizae Granular Concentrate)
GroLife® MGC inoculum consists of 8 various endo and ecto species well suited to a variety of soils, climates and plants.

Use GroLife® MGC (Mycorrhizae Granular Concentrate) at the following application rates:
• Incorporate 60 lbs. per acre (1.4 lbs. per 1,000 sq. ft.)

Backfill: 3 lbs. per cubic yard of mix

Methods of Application: Imprinting, hydroseeding, rototilling, scarification and backfilling.

See Specification Sheet for further information.

GroLife® Planting Tablets
All natural mycorrhizal inoculum and soil conditioner. Time-release tablets incorporate an organic nutrient base with humus, humic acids, micronutrients and a beneficial strain of soil bacteria and mycorrhizal inoculum (endo / ecto).

Use GroLife® Planting Tablets (with mycorrhizae)
3-4 tablets for each ½” caliper. Place at bottom of planting pit, in contact with root ball and root tips.
7-1-1

**Gro-Power® Pure’N’Natural® 7-1-1**

A favorite of organic gardeners, this 100% all-organic product will add Humus, Humic Acid and soil bacteria to the soil while it feeds the plant with our organic source of nitrogen, phosphorus and potassium.

**USES:** General landscape, turf, hydroseeding and vegetable / fruit crops.

7-2-3 • 100% Organic

**Gro-Power® Pure’N’Natural® 7-2-3**

100% natural, all-organic fertilizer and soil conditioner. Contains Humus to aid in improving the physical structure of the soil and Humic Acids, which may increase micronutrient intake. Various soil bacteria strains tend to act upon the soil and help produce and environment in which the plant can achieve maximum results.

**USES:** General landscape, turf, hydroseeding and vegetable / fruit crops.

Soil Conditioner 75/20

**Gro-Power® Pure’N’Natural Soil Conditioner 75/20 with 5% Sea Kelp**

These organic products are designed for conditioning your soil and adding high amounts of humus to increase soil fertility. Will improve soil structure, help aerify and break-up clay. Includes beneficial soil bacteria.

**USES:** General soil conditioning

Snail & Slug AWAY®

A natural, organic, non-toxic way to control your snails and slugs. Safe for dogs, children and the environment! Protect your plants against the damaging garden snails and slugs. Simply spray your plants directly or the area around the plants. Safely works on all garden plants including vegetables, fruit, citrus, annuals, perennials and herbs. This is the only on-plant spray product on the market today that is safe around humans, pets, wildlife and the soil environment (won’t harm earthworms). Also available in granular form for direct soil application.

Available in Ready-To-Use Sizes:
- 20 oz. 16/case • 32 oz. 12/case
- Concentrate Sizes: 20 oz. • 1 gallon
- Granual Sizes: 1 lb. • 3 lb. • 15 lb. bag

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**For additional information on any product, please visit our website www.gropower.com**
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<tr>
<th>GRO-POWER® PRODUCTS QUICK REFERENCE</th>
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<td><strong>GRO-POWER® REGULAR, PLUS, or PLUS w/M</strong></td>
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<td>BACKFILL</td>
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<td>MIX:</td>
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<td>HYDROSEED</td>
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<td>MAINTENANCE</td>
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<td>PRE-PLANT COLOR/SOD/GROUNDCOVER</td>
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<td>MAINTENANCE</td>
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<td>PRE-PLANT/STARTER</td>
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<td>OVERSEEDING</td>
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<tr>
<td>HYDROSEED</td>
</tr>
<tr>
<td>MAINTENANCE</td>
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<tr>
<td><strong>7 GRAM PLANTING TABLETS</strong></td>
</tr>
<tr>
<td>Ground cover/liner</td>
</tr>
<tr>
<td>1 gallon plant</td>
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<tr>
<td>5 gallon plant</td>
</tr>
<tr>
<td>15 gallon plant</td>
</tr>
<tr>
<td>MAINTENANCE</td>
</tr>
<tr>
<td><strong>HI-NITROGEN (14-4-9)</strong></td>
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<td><strong>HI-NITROGEN (11-2-9)</strong></td>
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<td>Turf/ornamental plants</td>
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<tr>
<td>MAINTENANCE</td>
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<tr>
<td><strong>PREMIUM HI-NITROGEN (18-3-7)</strong></td>
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<td>Turf/ornamental plants</td>
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<td>MAINTENANCE</td>
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<tr>
<td><strong>PREMIUM GREEN® IRON (40% Fe)</strong></td>
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<td>Turf</td>
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<td>Bedding preparation</td>
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<td><strong>PREMIUM PALM &amp; TROPICAL (9-3-9)</strong></td>
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<tr>
<td>Potting soil preparation</td>
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<td>General landscaping/maintenance</td>
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GUIDE FOR LANDSCAPE & HORTICULTURAL USE

SOIL PREPARATION (For Seed, Sod, or Ground Cover)

NOTE: It is always wise to have a soil report completed prior to soil preparation to insure good results.
When you use Gro-Power® in soil preparation, you need no additional fertilizer. If desired, use 2-3 cubic yards of nitrolized shavings (bulk-organic) or equal. Thoroughly rototill amendments to a depth of 4 to 6 inches in two directions and water thoroughly.

AVERAGE SOIL: 150 lbs. of Gro-Power® per 1,000 sq. ft. of area.
SANDY & SILTY SOIL: 200 lbs. of Gro-Power® Plus or Gro-Power® Plus w/M per 1,000 sq. ft. of area.
CLAY OR ADOBE SOIL: 150 to 200 lbs. of Gro-Power® Plus or Gro-Power® Plus w/M (Soil Penetrant added) per 1,000 sq. ft. of area.

HIGH EC OR BORON CONDITION:
Work in 200 lbs. of Gro-Power® Plus and other required amendments prior to leaching. After leaching process, order another soil report prior to planting to see if additional leaching is necessary before planting.

MAINTENANCE: (Turf, ground cover, shrub areas and flower beds)
Top dress with Gro-Power®/Gro-Power® Plus every 4 months with 20-30 lbs. per 1,000 sq. ft. alternate with Hi-Nitrogen at 7 ¼ lbs. per 1,000 sq. ft. and water thoroughly.

BACKFILL*

A. 7 parts of native on-site soil, 3 parts of nitrolized shavings and 16 lbs. of Gro-Power®/Gro-Power® Plus/Gro-Power® Plus w/M per cubic yard of mix. Mix this thoroughly and backfill. - OR -

B. Mix 7 parts of rock-free soil and 3 parts of nitrolized shavings and mix thoroughly. Backfill with this mixture to top of planting pit. Apply Gro-Power®, Plus, or Plus w/M on top of planting pit (per schedule below).

<table>
<thead>
<tr>
<th>CONTAINER SIZE</th>
<th>PIT SIZE</th>
<th>FEED GRO-POWER®</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 gallon</td>
<td>Dig hole twice the size of ball</td>
<td>½ cup</td>
</tr>
<tr>
<td>5 gallons</td>
<td>Dig hole twice the size of ball</td>
<td>1 cup</td>
</tr>
<tr>
<td>15 gallons</td>
<td>Dig hole twice the size of ball</td>
<td>2 cups</td>
</tr>
<tr>
<td>24” box</td>
<td>Allow 2 ft. on each side of box</td>
<td>4 cups</td>
</tr>
<tr>
<td>30” box</td>
<td>Allow 2 ft. on each side of box</td>
<td>4 ½ cups</td>
</tr>
<tr>
<td>36” box</td>
<td>Allow 2 ft. on each side of box</td>
<td>5 cups</td>
</tr>
<tr>
<td>42” box</td>
<td>Allow 2 ft. on each side of box</td>
<td>6 cups</td>
</tr>
<tr>
<td>48” box</td>
<td>Allow 2 ft. on each side of box</td>
<td>7 cups</td>
</tr>
<tr>
<td>54” box</td>
<td>Allow 2 ft. on each side of box</td>
<td>8 cups</td>
</tr>
<tr>
<td>60” box</td>
<td>Allow 2 ft. on each side of box</td>
<td>9 cups</td>
</tr>
<tr>
<td>72” box</td>
<td>Allow 2 ft. on each side of box</td>
<td>12 cups</td>
</tr>
</tbody>
</table>

* USE GRO-POWER® PLANTING TABLETS
for extended (12 month) feeding/soil conditioning in either backfill procedure.

Try our various SOIL ANALYSIS SERVICES
and Soil Sampling/Consultation Services.

For additional information on any product, please visit our website www.gropower.com
**HYDROSEEDING SPECIFICATIONS**

**FERTILIZER**

Option 1:
- **Gro-Power® Plus 5-3-1 or Plus 5-3-1 w/M**
  - 1,000 to 1,300 lbs. per acre, depending on degree of slope

Option 2:
- **Gro-Power® Plus 5-3-1 or Plus 5-3-1 w/M**
- **Gro-Power® Controlled Release 12-8-8**
  - 1,000 lbs. per acre
  - 400 lbs. per acre

Option 3:
- **Gro-Power® Phosphorus Plus 6-18-8 25/HA**
  - 240 lbs. per acre if additional phosphorus is needed in the soil

**NOTE:** If area to be hydroseeded has been soil prepped with **Gro-Power® Plus** add to slurry:
- **Gro-Power® Phosphorus Plus 6-18-8/25/HA**
- **Gro-Power® Hi-Nitrogen 14-4-9**
  - 550 lbs. per acre -OR- 320 lbs. per acre

*An agronomic soil analysis is recommended to determine the best product for each situation

**TURF MAINTENANCE**

35-45 days after the first mowing broadcast 20-30 lbs. per 1,000 sq. ft. of **Gro-Power® 5-3-1/ Gro-Power® Plus 5-3-1** or 7 ¼ lbs. of **Gro-Power® Hi-Nitrogen 14-4-9** and continue to use **Gro-Power® 5-3-1/ Gro-Power® Plus 5-3-1** or **Gro-Power® Hi-Nitrogen 14-4-9** at 3 to 4 month intervals or as needed.

**SLOPE MAINTENANCE**

30-50 days after hydroseeding, apply 25-30 lbs. per 1,000 sq. ft. (1,080-1,300 lbs./acre) of **Gro-Power® 5-3-1/ Gro-Power® Plus 5-3-1** or 17 ¼ lbs. per 1,000 sq. ft. (610-780 lbs./acre) of **Gro-Power® Toss 'N' Gro™ 8-8-8** or 14 to 18 lbs. per 1,000 sq. ft. (610-780 lbs./acre) and then use every 3 or 4 months or as needed. Last application before maintenance period ends; apply **Gro-Power® Controlled Release 12-8-8** at 16 to 30 lbs. per 1,000 sq. ft. (700-1,300 lbs./acre) for long-term nutrient release.

Call us for names of Hydroseeding Consultants or Contractors.

For sites with extreme situations (i.e., top soil removed, landfill and mine site re-vegetation, sites with little or no maintenance program) consider our Mycorrhizae Inoculum products: **GroLife®**, **Gro-Power® Plus 5-3-1 w/M**, or **GroLife® MGC**.

**MULCH**

*Wood Cellulose Fibers:
- Cel-Fiber®, Central Fibers 2nd Nature®
- Conwed 1000®, Conwed 2000®
- Hydro-Blanket® BFM
- EcoFlex™, EcoMatrix®, Flex Terra®
- Central Fibers Spray Mat BFM®

1,500 to 2,500 lbs. per acre, depending on degree of slope

1,500 to 3,000 lbs. per acre, depending on degree of slope

3,000 to 4,000 lbs. per acre, depending on degree of slope

2,500 to 4,000 lbs. per acre, depending on degree of slope

2,500 to 4,000 lbs. per acre, depending on degree of slope

**SEED**

There are many types of seed mixtures. We suggest you contact your Landscape Architect, Horticulturist or Erosion Control Consultant for the best seed combination for your soil condition.

**SOIL STABILIZER**

* Tackifiers:

- StarTak® 100, StarTak® 600
- Enviro-Mend™, M Binder®
- Plantago Tackifier
- EcoTac Guar J 3000™, Super Tack®
- GelTack™
- Platinum Tackifier

40 to 120 lbs. per acre, depending on degree of slope

40 to 160 lbs. per acre, depending on degree of slope

40 to 160 lbs. per acre, depending on degree of slope

80 to 120 lbs. per acre, depending on degree of slope

11 lbs. or more, depending on degree of slope

3 to 5 lbs. per acre, depending on degree of slope

*These are a few of readily available fiber mulches & tackifiers. Contact manufacturer for more specific recommendations. Registered trademarks are owned by their respective companies.

FOR TECHNICAL INFORMATION, APPLICATION PROCEDURES, AND SPECIFICATION SHEETS CONTACT OUR OFFICE OR WEBSITE.
**LONG TERM MAINTENANCE SCHEDULE**

**ROSES**

**ESTABLISHED PLANTS:**

<table>
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<tr>
<th>PLANT SIZE</th>
<th>LIGHT FEEDING</th>
<th>HEAVY FEEDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miniature Roses (1’-2’)*</td>
<td>1-2 tsp.</td>
<td>————</td>
</tr>
<tr>
<td>New &amp; Small Plants (1’-2’)*</td>
<td>2 Tbs.</td>
<td>¼ cup (2 oz.)</td>
</tr>
<tr>
<td>Medium Plants (2’-4’)*</td>
<td>¼ cup (2 oz.)</td>
<td>½ cup (3 oz.)</td>
</tr>
<tr>
<td>Large Plants (4’+)</td>
<td>½ cup (3 oz.)</td>
<td>½ cup (4 oz.)</td>
</tr>
</tbody>
</table>

*For upright, climbing & tree roses, this represents the height. For trailing and carpet roses, this represents the width.

Begin applying Gro-Power® Premium Rose Food 6-8-4 after first growth appears in early Spring and apply every 30-45 days during growing season with final application in Fall. Spread evenly over soil under each plant and water thoroughly after each application.

**ACID-LOVING PLANTS**

So called “Acid-Loving” plants include Azaleas, Camellia, Rhododendrons, Gardenias & Clematis. Feed with Gro-Power® Premium Azalea-Camellia-Rhododendron Food. For feeding your entire garden, apply 2 lbs. (about 4 cups) per 100 sq. feet. Feed 4-6 times annually. Water thoroughly after each application. Consider supplementing with Gro-Power® Premium Green Iron (40% Fe) to help prevent and correct extreme chlorosis. See label on bag for rates.

**CITRUS, AVOCADO, FRUIT & NUT TREES**

Feed with Gro-Power® Premium Citrus-Avocado Food.

<table>
<thead>
<tr>
<th>TREE HEIGHT</th>
<th>TRUNK DIAMETER</th>
<th>RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>New-4’</td>
<td>1” - 1½”</td>
<td>1 cup</td>
</tr>
<tr>
<td>4’ - 6’</td>
<td>1½” - 2”</td>
<td>1½ cups</td>
</tr>
<tr>
<td>6’ - 8’</td>
<td>2” - 2½”</td>
<td>2 cups</td>
</tr>
<tr>
<td>8’ - 10’</td>
<td>2½” - 4”</td>
<td>3 cups</td>
</tr>
<tr>
<td>10’ +</td>
<td>4” +</td>
<td>4-5 cups</td>
</tr>
</tbody>
</table>

Spread evenly around drip line of tree and water thoroughly. Feed 3-4 times per year.

**GENERAL LANDSCAPE:** Use at the rate of 10-16 lbs. per 1,000 sq. ft. or verticutting at 25 lbs. @ 1,000 sq. ft.

Pre-emergents: use pre-emergents starting mid-January to mid-March and post-emergence starting mid-May to the end of September. It is best to use Gro-Power® products after applying herbicide. Use herbicide per manufacturers directions and licensed applicator/advisor.

**TURF**

Feed turf areas with Gro-Power® Plus or Gro-Power® Plus w/M at 20-25 lbs. per 1,000 sq. ft. at 8-12 weeks intervals. Gro-Power® Premium Hi-Nitrogen 18-3-7 at 8 ½ lbs. per 1,000 sq. ft. can be alternated with Gro-Power® Plus.

Aerify turf areas a minimum of two (2) times per year. Vertical mow during end of March or first of April, or at the end of October. Feed with Gro-Power® Plus after aerifying or verticutting at 25 lbs. @ 1,000 sq. ft.

**SHRUBS, GROUND COVER, PERENNIAL PLANTS & FLOWERS**

Feed 2-3 times a year with Gro-Power® Plus at 20 lbs. per 1,000 sq. ft., or individually as follows:

Small plants ......................... 3 tablespoons to ¼ cup
Medium plants ....................... ¼ cup to ½ cup
Large plants ........................ ½ cup to 1 cup

1 cup equals approximately 8 ounces

FEED SPRING, SUMMER AND FALL.

Feed with Gro-Power® Flower ‘N’ Bloom (3-12-12) when buds have formed and until the plant is finished blooming at approximately 4-week intervals. Then feed after blooming with Gro-Power® Plus at same rates monthly until August. Feed once more in early Fall with Gro-Power® Flower ‘N’ Bloom (3-12-12) at same rate. To prevent or correct yellowing due to iron chlorosis, supplement with feedings of Gro-Power® Premium Green® Iron at the rate of 5 lbs. per 1,000 sq. ft., 2-3 times annually or as needed.
### Long Term Maintenance Schedule

#### Palm Trees & Tropicals

Palms and other tropical plants have unique requirements in our western soils. Feed with Gro-Power® Palm & Tropical at the rate of ⅛ cup per 1 foot of trunk height on palm trees.

In tropical plant beds, feed at the rate of 15-25 lbs. per 1,000 sq. ft.

Feed every 3-4 months

#### Feeding Pots and Containers With Gro-Power® 5-3-1:

*Feed during the growing season every 45 days.*

For long term feeding, apply one of Gro-Power’s three (3) Controlled Release 12-8-8 formulations at the rate of two (2) tablespoons per each foot of height or width of plant around surface of pot. Feed at interval recommendations per formulation. Reduce the Gro-Power® Controlled Release rate by half on sensitive and delicate plants, or use Gro-Power® Planting Tablets.

To prevent and correct trace mineral deficiencies, supplement per directions with Premium Green® Iron, Premium Green® Magnesium, Premium Green® Manganese or Premium Green® Micro-Balance.

Gro-Power® Planting Tablets can be substituted for more convenient, long-term feeding. See Specifications on Gro-Power® Planting Tablets.

#### General Notes

We suggest a soil analysis be taken annually from the site so adjustments can be made in the program.

In areas where replanting is necessary, incorporate 2-3 yards of planting mix, nitrolized shavings or equal, and 150-200 lbs. of Gro-Power® Plus per 1,000 sq. ft. before planting new plant material, turf, etc.

– Use Gro-Power® Phosphorus Plus (6-18-8) for preplant/starter fertilizer and soils low in phosphorus.

#### Trees

Apply ½ lb. Gro-Power® Plus or Gro-Power® Plus w/M for every inch of caliper measured 14” above the soil level. For trees within ground cover areas, work into soil lightly around drip line and water thoroughly.

Turf areas: Turf applications should be sufficient to feed younger trees.

Deep root feedings: Auger holes around the drip line for deep root feeding to enhance plant growth for older trees or problem soil areas. Make holes 18 to 24 inches apart. Use Gro-Power® in holes, mix with an equal amount of sand and insert that mixture. Irrigate immediately and thoroughly.

Feed all trees 3 times per year.

#### Seasonal Flowering Annuals

Apply Gro-Power® Flower ‘N’ Bloom (3-12-12) monthly at the rate of 20 lbs. per 1,000 sq. ft. When planting annual flowerbeds during the year, prepare soil by mixing 3 cu. yds. of planter mix, nitrolized shavings or equal and 200 lbs. of Gro-Power® Plus per 1,000 sq. ft around the drip line or top 6-8 inches of soil. After planting, one month later, begin feeding with Gro-Power® Flower ‘N’ Bloom (3-12-12) or Gro-Power® Phosphorus Plus (6-18-8) as before.

Gro-Power® Plus per 1,000 sq. ft. and rototill into top 6-8 inches of soil. After planting, one month later, begin feeding with Gro-Power® Flower ‘N’ Bloom (3-12-12) or Gro-Power® Phosphorus Plus (6-18-8) as before.

In areas where access is limited, scatter Gro-Power® Toss ‘N’ Gro™ 8-8-8 over the area of slope at the rate of 17 lbs. per 1,000 sq. ft. for long term feeding and soil conditioning or use one of Gro-Power’s three (3) Controlled Release formulations.
SOIL ANALYSIS SERVICE

I. A THOROUGH SOIL ANALYSIS IS RECOMMENDED FOR BEST RESULTS ON ALL LANDSCAPE SITES.

COMMERCIAL SOIL ANALYSIS with interpretation and recommendations (includes texture, organic matter, nitrogen, phosphorus (P1, P2), potassium, magnesium, calcium, soil pH, cation exchange capacity, percent base saturation, soluble salts, excess lime rate, sodium, and boron) **WITH GRAPHICS.**

**NOW INCLUDES WATER PERCOLATION RATES (AB1881)**

The commercial soil analysis kit includes two (2) sample bags at a cost of $60.00 per analysis. You may use the sample bags as needed, and complete directions and postage are included.

Along with filling out the Information Sheet (which should always be included with the sample bags) please mark each bag with your name, address, phone number and what analysis/recommendation you would like done. This is important since time is usually of the essence, and we can be sure the results are sent to the correct person in a timely manner. It would also be helpful to include any special information about the site that may effect the recommendations.

Please do not send any money with your soil sample. We will bill you when the recommendations are made.

II. RECOMMENDATIONS CAN BE MADE FROM ANY OTHER QUALIFIED SOIL LAB AT NO CHARGE. JUST MAIL OR FAX ENTIRE SOIL ANALYSIS REPORT WITH A NOTATION REQUESTING RECOMMENDATIONS.

**IMPORTANT NOTE: All tests are done by independent soil testing laboratories and consulting agronomist and/or Ph.D.**

CALL (800) 473-1307 FOR COMMERCIAL SOIL ANALYSIS KITS

CONSULTANTS AVAILABLE TO TAKE SAMPLES AT PROJECT SITES.
Gro-Power® Premium Green® Professional Turf Products were developed for golf course and sportsfield application to enhance the micro-biological environment of all soil types, including sand greens and tees. Ideal for all types of turf, both greens grade and fairway grade products ensure even distribution and rapid penetration into the rootzone with minimum mower pickup.

**PREMIUM GREEN® PRODUCTS**

**GREENS GRADE (100 SGN)**

<table>
<thead>
<tr>
<th>Product</th>
<th>Formula Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>50# Premium Green® 5-3-1</td>
<td>70% Humus, 15% Humic Acids, 1% Soil Penetrant, NPK* with Micronutrients</td>
</tr>
<tr>
<td>50# Premium Green® 5-2-4/MU</td>
<td>60% Humus, 12% Humic Acids, 1% Soil Penetrant, NPK, 1% Magnesium with Micronutrients (35% Slow Release Nitrogen from Methylene Ureas)</td>
</tr>
<tr>
<td>50# Premium Green® 6-2-10</td>
<td>40% Humus, 8% Humic Acids, 1% Soil Penetrant, NPK* ratio (3-1-5) with Micronutrients</td>
</tr>
<tr>
<td>50# Premium Green® 11-2-9</td>
<td>8% Iron, 3% Manganese, 1% soil penrant, 10% Humic Acids</td>
</tr>
<tr>
<td>50# Premium Green® 8-2-8/MU</td>
<td>40% Humus, 8% Humic Acids, 1% Soil Penetrant, NPK ratio (4-1-4) with Micronutrients (50% Controlled Release Nitrogen from Methylene ureas)</td>
</tr>
<tr>
<td>50# Premium Green® 8-8-8/MU</td>
<td>40% Humus, 8% Humic Acids, NPK, 2% Iron, 4% Magnesium with Micronutrients (50% Controlled Release Nitrogen from Methylene ureas)</td>
</tr>
<tr>
<td>50# Premium Green® 10-2-5 35/HA</td>
<td>30% Humus, 35% Humic Acids, 1% Soil Penetrant, NPK, 2% Iron with Micronutrients (40% Controlled Release Nitrogen from Methylene ureas)</td>
</tr>
<tr>
<td>50# Premium Green® 10-0-10 30/HA</td>
<td>25% Humus, 30% Humic Acids, 3% Iron, NK with Micronutrients (40% Controlled Release Nitrogen from Methylene ureas)</td>
</tr>
<tr>
<td>50# Premium Green® 6-18-8 25/HA</td>
<td>35% Humus, 25% Humic Acids, 2% Magnesium, 2% Sulphur</td>
</tr>
<tr>
<td>40# Premium Green® Micro-Balance® 0-0-10</td>
<td>10% Potassium, 4% Iron, 4% Humic Acids, with full Micronutrient package</td>
</tr>
<tr>
<td>50# Premium Green® High K+Calcium 0-0-15</td>
<td>10% Humic Acids, 7% Calcium, 3% Magnesium with Micronutrients</td>
</tr>
<tr>
<td>50# Premium Green® Iron 40% Fe</td>
<td>6% Sulfur, 25% Humic Acids, 1% Magnesium, 1% Zinc, 1% Manganese (Non-Staining)</td>
</tr>
<tr>
<td>50# Premium Green® 35% Manganese</td>
<td>35% Elemental Mn, 10% Ca</td>
</tr>
<tr>
<td>50# Premium Green® 45% Magnesium</td>
<td>45% Elemental Mg, 2.29% Ca</td>
</tr>
<tr>
<td>50# Premium Green® 18-3-7/ER</td>
<td>20% Humus, 15% Humic Acids, 1% Soil Penetrant, NPK, 2% Iron with Micronutrients (65% Slow Release Nitrogen from Methylene Ureas and Ureaform)</td>
</tr>
<tr>
<td>40# Premium Green® Soil Penetrant</td>
<td>A safe, natural premium quality soil penetrant and bio-stimulant, in a greens grade particle size. Superior water penetration properties, especially for hydrophobic soils.</td>
</tr>
</tbody>
</table>

*Nitrogen derived from soluble sources

**FAIRWAY GRADE (200 SGN)**

Most Premium Green® products available in Fairway Grade.

For more information, specifications, and new products see our Premium Green brochure.