

GRO POWER[®]

The Soil Environment Company



Commercial Product Line



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 & Sports Fields
- 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.

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

Also available with 4% and 12% Sulfur.

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/M

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 SLOW RELEASE FERTILIZERS

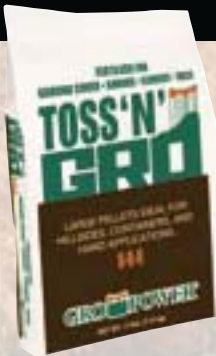


Controlled Release 12-8-8

A favorite of many landscape professionals, this Controlled Release Nitrogen product with Micronutrients has so many landscape and horticultural uses. Available in 3 analyses that will release under normal conditions. (40# bag)

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

Contains 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# bag)

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

TURF FERTILIZER / SOIL CONDITIONER



Hi-Nitrogen 14-4-9

We improved this turf fertilizer. Designed to feed all types of lawns with a fast acting quick-release nitrogen and a low amount of Controlled Release Nitrogen. The combination of organics with synthetics will help feed your turf and improve the soil.

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.



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® PREMIUM SPECIALTY FERTILIZERS



Premium Palm & Tropical 9-3-9

This special formulation uses a Controlled Release Nitrogen with all the important micronutrients and high amounts of magnesium that palms need. Each application will feed your palm or tropical plant 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.



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.



Premium Rose Food 6-8-4

Excellent for all types of roses. Unique combination of quality organics with a Controlled Release Nitrogen. 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.



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.

IRON & PHOSPHORUS FERTILIZERS



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.



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.

PLANTING TABLETS & LIQUID



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. May be used in new plantings, existing plants, containers, water plants. 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 28% Iron
- 7 gram 9-3-9 Palm & Tropical
- 7 gram 20-10-5 General



Gro-Power® Liquid 4-8-2 with 2% Humic Acids

Specially formulated with Humic Acids. A liquid fertilizer that helps balance soil conditions. 4-8-2 NPK analysis, 2% Humic Acids

APPLICATION RATE: Per product information sheet.

Available in 1 quart (12 per case), 1 gallon (4 per case), 5 gallon container, and 55 gallon drum.

100% ALL ORGANIC PRODUCTS

Gro-Power® Organic 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.

Gro-Power® Pure'N'Natural® 3-3-3 with 5% Sea Kelp

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 and phosphorus.

For additional information on any product, visit our website.

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.

GRO-POWER® PRODUCTS QUICK REFERENCE

GRO-POWER® REGULAR, PLUS, or PLUS w/M

SOIL PREPARATION:	4-6 Depth/Rototill 1-2 Depth/Scarify	200 lbs. per 1,000 sq. ft. 50-75 lbs. per 1,000 sq. ft.
BACKFILL MIX:	16 lbs. per cubic yard of mix 70% Native soil, 30% Bulk organic (nitrolized shavings, Etc.)	
HYDROSEED	Non-prepped Sites Already Prepped Sites	1,200-1,300 lbs. per Acre 400 lbs. per Acre
MAINTENANCE	Turf/ornamental plants	20-30 lbs. per 1,000 sq. ft. every 8-12 weeks

FLOWER 'N' BLOOM (3-12-12)

PRE-PLANT COLOR/SOD/GROUNDCOVER		25 lbs. per 1,000 sq. ft.
MAINTENANCE		20 lbs. per 1,000 sq. ft.
OVERSEEDING		20 lbs. per 1,000 sq. ft.
WINTERIZING		20 lbs. per 1,000 sq. ft. every 10-12 weeks

PHOSPHORUS PLUS (6-18-8)

PRE-PLANT/STARTER		5.5 lbs. per 1,000 sq. ft.
OVERSEEDING		3 lbs. per 1,000 sq. ft.
HYDROSEED		5.5 lbs. per 1,000 sq. ft.
MAINTENANCE		10 lbs. per 1,000 sq. ft.

7 GRAM PLANTING TABLETS*

Ground cover/liner		1 tablet
1 gallon plant		2-3 tablets
5 gallon plant		4-6 tablets
15 gallon plant		12-15 tablets

HI-NITROGEN (14-4-9)

Turf/ornamental plants		MAINTENANCE 7.25 lbs. per 1,000 sq. ft. every 6-8 weeks
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PREMIUM HI-NITROGEN (18-3-7)

Turf/ornamental plants		MAINTENANCE 8.5 lbs. per 1,000 sq. ft. every 12-14 weeks
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PREMIUM GREEN® IRON (40% Fe)

Turf		MAINTENANCE 2.5 - 4 lbs. per 1,000 sq. ft.
Bedding preparation		½ - ¾ lbs. per 100 sq. ft. 2-3 times per year

PREMIUM PALM & TROPICAL (9-3-9)

Potting soil preparation		10-12 lbs. per cubic yard mix
General landscaping/maintenance		15-25 lbs. per 1,000 sq. ft.

*Also very effectively used in containers, baskets, water gardens, besides new plantings.

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** 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 mix (*see schedule below*).

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

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

TURF MAINTENANCE

Top dress with **Gro-Power®/Gro-Power® Plus** at 20-30 lbs. per 1,000 sq. ft. (depending on turf variety) every Spring and Fall. Supplement with **Gro-Power® Premium Hi-Nitrogen 18-3-7** as needed. **Gro-Power® Hi-Nitrogen 14-4-9** can be used as an alternative and is the most cost-efficient.

FLOWER BED MAINTENANCE

Top dress with **Gro-Power®/Gro-Power® Plus** at 25 lbs. to 30 lbs. per 1,000 sq. ft. every 1-2 months, alternating with **Gro-Power® Flower 'N' Bloom 3-12-12** at 20 lbs. per 1000 sq. ft.

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

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** 1,000 lbs. per acre

Gro-Power® Controlled Release 12-8-8 400 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* 550 lbs. per acre **-OR-**

Gro-Power® Hi-Nitrogen 14-4-9* 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® 1,500 to 2,500 lbs. per acre, depending on degree of slope

Conwed 1000®, Conwed 2000® 1,500 to 3,000 lbs. per acre, depending on degree of slope

Hydro-Blanket® BFM 3,000 to 4,000 lbs. per acre, depending on degree of slope

EcoFlex™, EcoMatrix®, Flex Terra® 2,500 to 4,000 lbs. per acre, depending on degree of slope

Central Fibers Spray Mat BFM® 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 40 to 120 lbs. per acre, depending on degree of slope

Enviro-Mend™, M Binder® 40 to 160 lbs. per acre, depending on degree of slope

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

EcoTac Guar J 3000™, Super Tack® 80 to 120 lbs. per acre, depending on degree of slope

GelTack™ 11 lbs. or more, depending on degree of slope

Platinum Tackifier 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

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.

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.

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® Plus** per above directions as to the amount and divide by the number of holes you are going to fill. Before inserting **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.

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 ⅓ 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

PLANTS IN CONTAINERS

FEEDING POTS AND CONTAINERS WITH GRO-POWER® 5-3-1:

Feed during the growing season every 45 days.

1 cup = approximately 8 ounces

4" Pot	¼ level teaspoon	30" Box	1 ½ cups
6" Pot	½ level teaspoon	36" Box	2 ½ cups
8" & 1 Gal. Can	1 level teaspoon	42" Box	3 cups
2 Gal. Can	1 ½ teaspoons	48" Box	4 cups
5 Gal. Can	2 tablespoons	60" Box	8 cups
15 Gal. Can	½ cup	Soil Plant Mix 8 ox. of Gro-Power® per cubic foot of mix	
24" Box	1 cup		

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

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**.

LONG TERM MAINTENANCE SCHEDULE

ROSES

ESTABLISHED PLANTS:

PLANT SIZE	LIGHT FEEDING	HEAVY FEEDING
Miniature Roses	1-2 tsp.	————
New & Small Plants (1'-2')*	2 Tbs.	¼ cup (2 oz.)
Medium Plants (2'-4')*	¼ cup (2 oz.)	⅓ cup (3 oz.)
Large Plants (4'+)*	⅓ cup (3 oz.)	½ cup (4 oz.)

*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.

BARE ROOT ROSES: Put 2 Tbs. of **Gro-Power® Premium Rose Food 6-8-4** in bottom of hole. Cover with 1-2 inches of soil. Install plant and back fill hole with soil. Scatter 2 Tbs. of Rose Food around plant and water thoroughly.

NOTE: Consider adding 4-5 **Gro-Power® Planting Tablets** in hole for long term feeding.

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.

GARDEN PLANTS	CONTAINER PLANTS
1 - 2 Ft. ¼ cup	6" Pot/1 Gal. ½ tsp.
2 - 3 Ft. ⅓ cup	8" Pot/2 Gal. 1 tsp.
3 - 4 Ft. ½ cup	10" Pot/3 Gal. 1 Tbs.
4 - 6 Ft. ¾ cup	12" Pot/5 Gal. 2 Tbs.
6 Ft. + 1-2 cups	14" Pot/7 Gal. ¼ cup
	16" Pot/15 Gal. ½ cup

CITRUS, AVOCADO, FRUIT & NUT TREES

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

CITRUS, AVOCADO, NUT and other FRUIT TREES

TREE HEIGHT	TRUNK DIAMETER	RATE
New-4'	1" - 1½"	1 cup
4' - 6'	1½" - 2"	1½ cups
6' - 8'	2" - 2½"	2 cups
8' - 10'	2½" - 4"	3 cups
10' +	4" +	4-5 cups

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

BERRY BUSHES, GRAPEVINES, ETC...

NEW - SMALL	MEDIUM	LARGE
¼ cup	½ - 1 cup	1½ - 2 cups

Spread evenly around plant and water thoroughly. Feed 3-4 times annually.

CONTAINERS

1 GALLON	5 GALLON	7 GALLON
¼ cup	½ - 1 cup	1½ - 2 cups

Spread evenly around plant and water thoroughly. Feed 3-4 times annually.

GENERAL LANDSCAPE

Use for general landscape at the rate of 10-16 lbs. per 1,000 sq. ft.

LONG TERM MAINTENANCE SCHEDULE

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 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.

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. 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.

SLOPE AREAS

Feed 2-3 times annually with **Gro-Power® Plus** at the rate of 25 lbs. per 1,000 sq. ft. alternating with **Gro-Power® Toss 'N' Gro™ 8-8-8** at 17 lbs. per 1,000 sq. ft.

FOR TREES ON SLOPE SEE "TREES" SECTION. USE INDIVIDUAL FEEDING AND/OR DEEP-ROOT FEEDING.

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.

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.

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

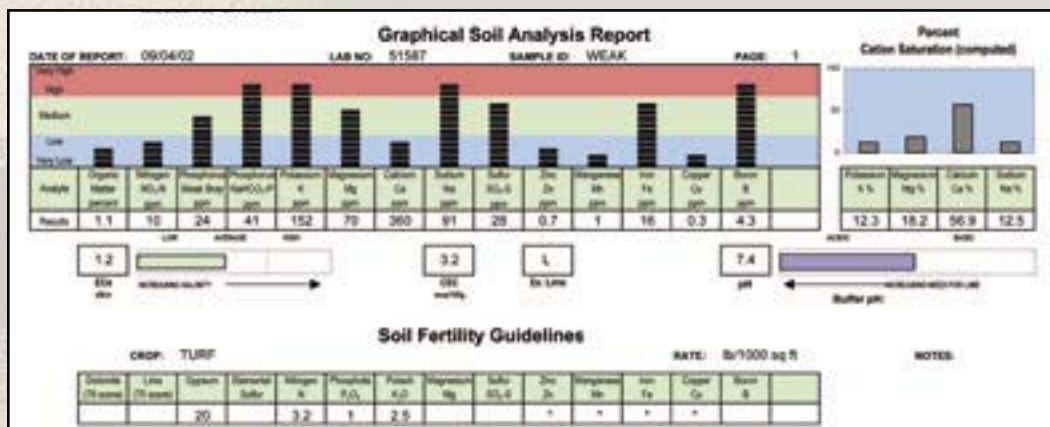
The commercial soil analysis kit includes three (3) sample bags at a cost of \$60.00 per analysis. You may use the sample bags as needed, and complete directions and postage are included.

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.

PREMIUM GREEN® PRODUCTS

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.

GREENS GRADE (100 SGN)

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

*Nitrogen derived from soluble sources

FAIRWAY GRADE (200 SGN)

Most Premium Green® products available in Fairway Grade.

For more information and specifications, ask for our Golf Course and Sports Field brochure.

D I S T R I B U T E D B Y :



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