

A scenic photograph of a golf course at sunset. The sky is filled with warm, golden light, and the sun is partially obscured by clouds. The foreground shows a lush green golf course with a sand trap on the left and a line of trees in the middle ground. In the bottom foreground, there are vibrant pink and purple flowers. The overall mood is serene and professional.

# 2024

## PROFESSIONAL PRODUCTS

# MOVING THE PROFESSIONAL PRODUCTS INDUSTRIES FORWARD



Our comprehensive product line-up includes research-based, innovative solutions to address your specific needs and give you — our customer — *an edge*.

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## HERITAGE FAMILY OF BRANDS



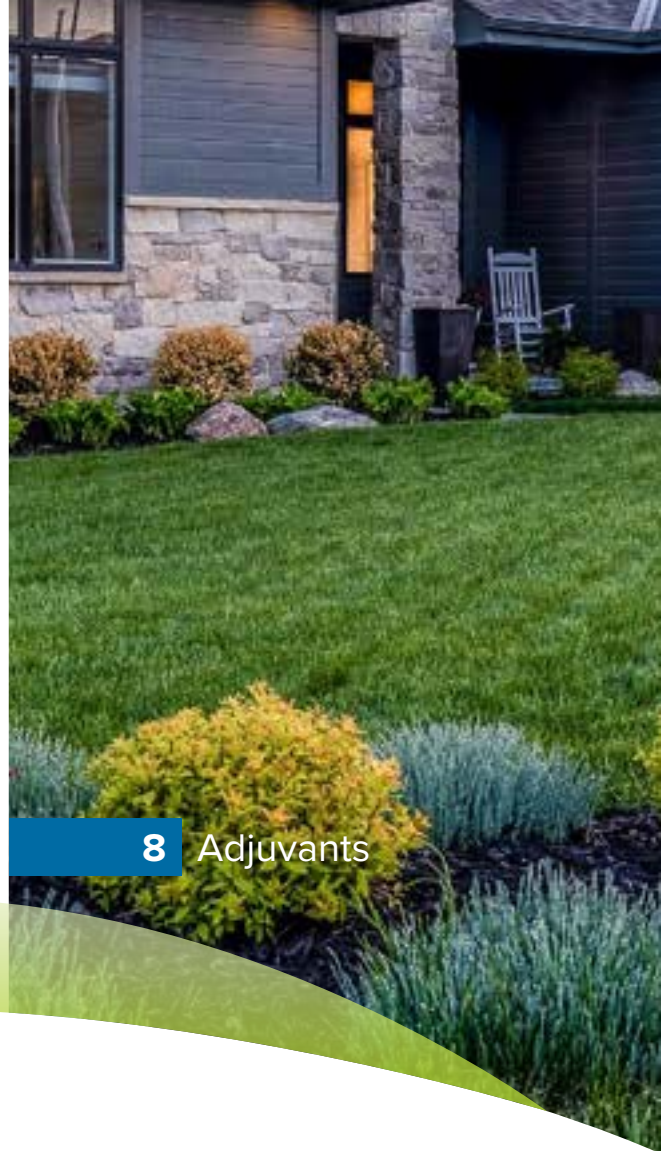




**5** Gravity® G PLUS



**14** Maxx Turf Seed



**8** Adjuvants



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## Heritage New Products

### ➤ **AQUICARE® GR:**

A granular wetting agent with a biodegradable carrier, uniquely crafted for easy application and engineered to minimize watering requirements.  
See page 10

### ➤ **FPS™:**

Foam marker designed for use in spray application equipment.  
See page 8

### ➤ **MYSTIC® VERDANT SOUTHERN:**

A concentrated green pigment designed to enhance color and simplify spray marking unique to warm season turfgrass.  
See page 9

### ➤ **GRAVITY® G PLUS:**

A revolutionary solution that perfectly measures out granular fertilizer, micronutrients, wetting agent, kelp extracts, and humate in a single pass, eliminating the hassle of measuring and mixing different products. This streamlined approach enhances turf quality, reduces labor, and allows for optimal plant growth and health without the need for multiple equipment and additional trips across the turf.  
See page 5



**GRAVITY® G BLACK CAVIAR:**

Humate fertilizer additive, utilizes granular prilled humate with humic acids, fulvic acid, and humin to enhance nutrient availability through long-chain carbon molecules, fostering optimal plant growth with biochemically active humic and fulvic acids, rare earth minerals, and trace elements.

See page 5

**GRAVITY® L TAP-IN:**

Our liquid fertilizer utilizes organic and amino acids as carrier molecules, ensuring rapid absorption, stress management, and optimal compatibility with other chemicals for enhanced nutrient delivery during crucial early plant development stages.

See page 6

**GRAVITY® S IRON EDDHA:**

Tailored for the nursery and greenhouse market, this soluble plant nutrient supplement combats iron deficiencies in alkaline and calcareous soils.

See page 7

**GRAVITY® L CAMINO:**

Revolutionizing plant nutrition with an innovative oilseed extract, this organic fertilizer, derived through unique fermentation, features essential amino acids and a low salt index. Perfect for golf courses, lawn care, nurseries, and sports turf, it fosters early growth, robust roots, and precise nutrient supplementation.

See page 6



# GRAVITY®

Deliver nutrients to your plants when they need them most.

Available in liquid, soluble and granular options.



# Gravity® G PLUS

Essential granular components in a single application

PRODUCT	ADD ONS	DESCRIPTION	ANALYSIS	RATES	SIGNAL WORD
<b>GRAVITY® G PLUS 220 SIGNATURE BLENDS</b>					
GRAVITY® G BLACK CAVIAR	70% HUMIC ACIDS	Low dust, granular Leonardite humate base, increases water holding efficiency	100 Humate	2 - 3 LB/1000 SQ FT, repeat at 4 week intervals	N/A
GRAVITY® G PLUS 10-10-15	+ AQUICARE + MICROSURGE	Stress relief, with stabilized nitrogen, humate, kelp extract	10-10-15 1.10S	2.5 - 10 LB/1000 SQ FT	WARNING
GRAVITY® G PLUS 14-14-14	+ AQUICARE + MICROSURGE + KELP PLUS	Landscape formula with wetting agent, micros, kelp extract	14-14-14 2.2Ca, 5.3S, 0.13B, 0.89Fe, 0.35Mn, 0.003Mo, 0.31Zn	Turf: 3.5 - 7 LB/1000 SQ FT Ornamental: 7 - 14 LB/1000 SQ FT	WARNING
GRAVITY® G PLUS 18-24-6	+ AQUICARE + BLACK CAVIAR	Starter formulation with faster release nitrogen & humate	18-24-6 6Ca, 0.11Fe	2.75 - 5.5 LB/1000 SQ FT	WARNING
GRAVITY® G PLUS 26-0-10	+ AQUICARE + BLACK CAVIAR + MICROSURGE	High nitrogen formula with wetting agent, chelated iron, humate	26-0-10 1.7Ca, 0.25Fe	2 - 3.5 LB/1000 SQ FT	WARNING
GRAVITY® G PLUS 32-0-10	+ AQUICARE + BLACK CAVIAR + MICROSURGE	High nitrogen formula with wetting agent, humate	32-0-10 3.7S	1.5 - 4.5 LB/1000 SQ FT	WARNING
<b>GRAVITY® G PLUS MINI SIGNATURE BLENDS</b>					
GRAVITY® G PLUS 18-10-18 MINI	+ AQUICARE + MICROSURGE	150 SGN with Aquicare® wetting agent & methylene urea	18-10-18 6.3S	2.75 - 5.5 LB/1000 SQ FT	WARNING
GRAVITY® G PLUS 22-0-20 MINI	+ AQUICARE + MICROSURGE	150 SGN with Aquicare® wetting agent & slow release nitrogen	22-0-20 7.0S	2.25 - 4.5 LB/1000 SQ FT	WARNING

Learn more about the add ons in Gravity® G Plus

- **BLACK CAVIAR™ HUMATE** is a soluble form of humate. It is comprised of humic acid, fulvic acid, and humin in the form of a granular prilled humate. Benefits include root respiration, increased root formation, and much more.
- **GRAVITY® S MICROSURGE** is a 100% soluble micronutrient fertilizer, specifically formulated to be rapidly absorbed through leaf tissue to provide rapid response. Contains EDTA chelated iron for extended plant greening.
- **AQUICARE® WETTING AGENT** is non-phytotoxic and allows for a significant window between application and watering, as it does not get caught in thatch. Aquicare® is specifically designed to resist excessive water retention at the soil surface while maintaining optimal moisture levels in the root zone to provide a firm, healthy playing surface.
- **GRAVITY® L KELP PLUS** is a plant growth enhancer that improves the turf's overall health and resistance to disease. It's derived from kelp and helps turf and ornamentals to maintain their antioxidant levels during droughts, heavy traffic, and other stressful environmental conditions.



# Gravity® Liquids

Enhance your tank mix with liquid plant nutrition



SCAN HERE FOR PRODUCT TECHNOLOGY INFO

PRODUCT	DESCRIPTION	ANALYSIS	RATES	SIGNAL WORD
<b>BASICS</b>				
GRAVITY® L 02-0-21	Potassium (K) acetate formula, helps plants use water & avoid stress	02-0-21	2-12 FL OZ/ 1000 SQ FT	N/A
GRAVITY® L 12-0-0- 5FE	3 forms of nitrogen including Nitamin with Fe, Mn	12-0-0 5Fe, 1Mn	2-16 FL OZ/ 1000 SQ FT	N/A
GRAVITY® L 18-00-06	Slow release nitrogen with Fe, Mn	18-0-6 0.5Fe, 0.2Mn	4-32 FL OZ/ 1000 SQ FT	N/A
GRAVITY® L 28-00-00	3 forms of nitrogen including Nitamin, MU, urea	28-0-0	3-32 FL OZ/ 1000 SQ FT	N/A
<b>MICROS</b>				
GRAVITY® L MICRO	Balanced micro package, sulfate forms, proprietary ingredients increase absorption at low rates	0-0-0 0.5Mg, 2.4S, 0.02B, 0.5Cu, 4Fe, 0.75Mn, 0.003Mo, 0.5Zn	2-6 FL OZ/1000 SQ FT	WARNING
GRAVITY® L CALCIUM	Calcium nitrate + calcium acetate, 10% calcium, strengthens cell walls, improves absorption	8-0-0 10Ca	1-6 FL OZ/ 1000 SQ FT	WARNING
GRAVITY® L PRO-CU	Copper sulfate, may boost plant's resistance to bacterial infection	5.1Cu	0.35-0.7 FL OZ/ 1000 SQ FT	DANGER
<b>PHOSPHITES</b>				
GRAVITY® L 38 W/ TAKE OFF TECHNOLOGY	Amino acid & Phosphite formula improves plant metabolism/disease resistance	5-0-15	1-3.5 FL OZ/ 1000 SQ FT	WARNING
GRAVITY® L ACTAPHOS	Phosphite formulation that improves resistance to environmental stressors & overall plant health	0-0-25	3-5 FL OZ/1000 SQ FT	WARNING
<b>AMINO ACIDS</b>				
GRAVITY® L CAMINO	3-1-1 +micros, 19 amino acids, 5 vitamins, sugar, low salt index	3-1-1	1-2 GALLONS/ ACRE	N/A
GRAVITY® L CALCIUM W/ TAP-IN	Amino acid formulation strengthens cell walls, improves absorption	0-0-0 5Ca	0.7-1.5 OZ/1000 SQ FT	WARNING
GRAVITY® L IRON W/ TAP-IN	Amino acid formulation gives dark green color, boosts respiration, non-staining	0-0-0 5.5Fe	0.7-1.5 OZ/1000 SQ FT	N/A
GRAVITY® L MAGNESIUM W/ TAP-IN	Amino acid formulation promotes photosynthesis, improves disease resistance	0-0-0 2Mg	0.7-1.5 OZ/1000 SQ FT	N/A
GRAVITY® L MANGANESE W/ TAP-IN	Amino acid formulation aids respiration & photosynthesis, Mn helps root growth	0-0-0 5.6Mn	0.7-1.5 OZ/1000 SQ FT	N/A
<b>KELP</b>				
GRAVITY® L AMP 8-27-2	Plant root stimulant with seaweed extract to promote recovery and growth	8-27-2 SEAWEED EXTRACT	3-10 FL OZ/ 1000 SQ FT	CAUTION
GRAVITY® L HUMIC BASE	8% humic acids, 2% kelp, with chelated Fe, Mn, Zn, pH acidifier	0-0-1 0.25Cu, 0.1Fe, 0.05Mn, 0.05Zn, 8% HUMIC ACIDS AND KELP EXTRACT	3-4 FL OZ/ 1000 SQ FT	N/A
GRAVITY® L KELP PLUS	South African Phaeophyta formulation, auxin-heavy ratio, boost root growth, stress relief	0-0-5 DERIVED FROM: PHAEOPHYTA (BROWN ALGAE) AND POTASSIUM ACETATE	2-6 FL OZ/ 1000 SQ FT	CAUTION
<b>PGS</b>				
GRAVITY® SL PGS	Cytokinin heavy hormone mix, helps turf & ornamentals overcome stress	0.09% CYTOKININ, 0.03% GIBBERELIC ACID, 0.045% INDOLE-3-BUTYRIC ACID	0.1-15 FL OZ/ 1000 SQ FT	CAUTION





# Gravity® Solubles

Root-ready nutrition with water soluble fertilizer

PRODUCT	DESCRIPTION	ANALYSIS	RATES	SIGNAL WORD
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## MICROS

GRAVITY® S MICROGUARD	Balanced micronutrient package chelated for soil drench applications	0-0-0 4Mg, 0.2B, 0.2Cu, 4Fe, 4Mn, 0.2Mo, 1Zn	1-5 LBS/ ACRE	WARNING
GRAVITY® S MICROSURGE	High iron, micronutrient combo for foliar turf & ornamental use	0-0-0 2.8 Mg, 3.6S, 10Fe, 4Mn, 1Zn	2.5-5 LBS/ ACRE	WARNING

## ORNAMENTAL

GRAVITY® S 16-3-16	Higher nitrate level with extra Ca & Mg, good for low light conditions	16-3-16 4Ca, 2Mg, 0.02B, 0.01Cu, 0.1Fe, 0.05Mn, 0.008Mo, 0.04Zn	1-3 LBS/1000 SQ FT	WARNING
GRAVITY® S 17-5-17	Nitrate with Ca, Mg & chelated micros; well balanced for greenhouse, foliage crops	17-5-17 3Ca, 1Mg, 0.02B, 0.05Cu, 0.1Fe, 0.05Mn, 0.01Mo, 0.05Zn, KELP EXTRACT	1-3 LBS/1000 SQ FT	WARNING
GRAVITY® S 20-10-20	Ammonium nitrate based formula formulated for cool weather	20-10-20 0.5Mg, 0.02B, 0.05Cu, 0.1Fe, 0.05Mn, 0.001Mo, 0.05Zn, KELP EXTRACT	1-3 LBS/1000 SQ FT	WARNING
GRAVITY® S FE EDDHA	Supplemental chelated iron for soil drench application	0-0-0 6Fe	1-2 LBS/ 100 SQ FT	CAUTION
GRAVITY® S 30-9-9	Specially formulated for deep root feeding tree equipment	30-9-9 0.05Cu, 0.1Fe, 0.05Mn, 0.05Zn, 1.8 HUMIC ACID, KELP EXTRACT	1-4 LBS/1000 SQ FT	WARNING
GRAVITY® S 20-20-20 AMS	1:1:1 general purpose formula with ammonium sulfate base	20-20-20 0.02B, 0.05Cu, 0.1Fe, 0.05Mn, 0.01Mo, 0.05Zn KELP EXTRACT	1-3 LBS/1000 SQ FT	WARNING

## ORGANIC

GRAVITY® S 8-2-4	Protein hydrolysate based organic water dispersible fertilizer with rock phosphate	8-2-4	Turf: 5 LB/ACRE, Ornamental: 5-10 LB/100 GAL	WARNING
GRAVITY® S 12-0-1	Protein hydrolysate based organic water dispersible nitrogen source	12-0-1	Turf: 1-3 LB/ACRE, Ornamental: 1-3 LB/100 GAL	WARNING

## TURF

GRAVITY® S 10-30-20	Starter formula promotes strong rooting in seeds, sod & transplants	10-30-20 0.9Mg, 1.1S, 0.1Fe, 0.05Mn KELP EXTRACT	0.5-4 LBS/ 1000 SQ FT	WARNING
GRAVITY® S 20-20-20 STABILIZED N	1:1:1 general purpose formula with Umaxx base	20-20-20 STABILIZED N, KELP EXTRACT	1-3 LBS/1000 SQ FT	WARNING
GRAVITY® S 26-8-16 MICROS	Stabilized nitrogen, chelated micros, bent grass special	26-8-16 1S, 0.8Mg, 0.02B, 0.05Cu, 0.1Fe, 0.05Mn, 0.001Mo, 0.05Zn, KELP EXTRACT	1-4 LBS/1000 SQ FT	WARNING
GRAVITY® S 34-0-12	High level of stabilized nitrogen, no phosphorous with micros, lawn care special	34-0-12 0.5Mg, 0.1B, 0.1Cu, 0.3Fe, 0.09Mn, KELP EXTRACT	1-4 LBS/1000 SQ FT	WARNING

## SPECIAL USE

GRAVITY® S 12-16-0	Mono-ammonium phosphate based fertilizer to promote phytoplankton growth for fish	12-16-0	Aquatic: 6-8 LB/surface ACRE, Turf: 1.5 LB/ACRE	WARNING
GRAVITY® S 10-52-10	High phosphorous, chelated micros & kelp	10-52-10 0.02B, 0.05Cu, 0.1Fe, 0.05Mn, 0.0005Mo, 0.05Zn, KELP EXTRACT	1-3 LBS/1000 SQ FT	WARNING
GRAVITY® S 13-2-13	Formulated for young or sensitive plants & turf	13-2-13 6.3Ca, 3Mg, 0.15B, 0.15Cu, 0.1Fe, 0.05Mn, 0.01Mo, 0.05Zn, KELP EXTRACT	1-3 LBS/1000 SQ FT	WARNING
GRAVITY® S 15-0-15	High calcium with chelated micros	15-0-15 10.5Ca, 0.02B, 0.05Cu, 0.1Fe, 0.05Mn, 0.05Zn, KELP EXTRACT	1-3 LBS/1000 SQ FT	WARNING



# Adjuvants

Put an end to the 'spray and pray' method

PRODUCT	PRIMARY USE	DESCRIPTION	RATES	SIGNAL WORD
<b>UTILITY</b>				
FOAMFORCE™		Preventative and curative antifoam agent	1-2 OZ/100 GALLONS	WARNING
FPS™		Foam marker for spray application equipment	3 OZ/2 GALLONS	WARNING
POSTFLIGHT®		Pigment/stain remover & spray tank cleaner and residue neutralizer	1 FL OZ/ EVERY 3 GALLONS	DANGER
PREFLIGHT®		Wintergreen odor masking agent with some anti-foam properties	1-6 FL OZ/ 100 GALLONS	WARNING
<b>SURFACTANTS</b>				
AIRCOVER®		Silicone surfactant, uniform spray coverage, contact control product, bark penetrant	6-16 FL OZ/ ACRE	WARNING
AIRSTICK™		Sticker/spreader for improving contact, wetting, and adhesion of pesticides onto the plant surface	4-16 OZ/100 GALLONS	WARNING
AQUA-KING PLUS®		Aquatic and veg management-focused herbicide, spreader/penetrant surfactant, pH buffer	16-64 FL OZ/ 100 GALLONS	WARNING
ATMOS®		High concentrate methylated soy oil maximize post emerge herbicide performance	1-2 PINTS/ACRE	CAUTION
BREEZE®		pH acidifier, hard water conditioner, spreader with proprietary penetrating technology	4-32 FL OZ/ ACRE	WARNING
GULFSTREAM® FREE		Spreader, pH buffering agent, UV degradation protection, NPE-free	16-64 FL OZ/ ACRE	WARNING
JETSHIELD®		OMRI silicone surfactant for uniform coverage, bark penetrant, low foaming	6-16 FL OZ/ ACRE	CAUTION
TURBULENCE®		Blend of highly refined modified vegetable oil and organosilica non-ionic surfactant for postemerge herbicides	2-6 PINTS/ACRE	WARNING
WINDSURF® PRO		Low foaming non-ionic surfactant improves coverage and pesticide performance	0.5-4 PINTS/ACRE OR 100 GALLONS	WARNING
<b>DRIFT CONTROL</b>				
DROPLEX®		Reduces drift while increasing leaf spray deposits, spreading surfactant	4 - 16 OZ/ACRE	CAUTION
DROPLEX® XTRA		Reduces drift while increasing leaf spray deposits, contains Gulfstream® surfactant	16-32 FL OZ/ ACRE	WARNING

Sports Turf
 Golf Management
 Lawn Care
 Ornamental
 Aquatic
 Pest Control
 Vegetation Management

## DROPLEX®

Droplex® Adjuvant enhances spray effectiveness by minimizing fine particles, boosting droplet speed, and maintaining optimal droplet size. It prevents thickening or encapsulation of the product, reducing drift and evaporation while improving pesticide coverage on the target site.



PRODUCT SPOTLIGHT

## POSTFLIGHT®

Postflight® tank cleaner/neutralizer may have a dramatic impact on equipment's life and performance. Removing pesticide and fertilizer residues reduces metal corrosion and the deterioration of rubber seals, diaphragms and hoses. PostFlight™ removes pigments, irons and other stains from spray equipment and other parts like sprinkler heads that may have pigment and colorants applied to them throughout the season.




















PRODUCT SPOTLIGHT



# Mystic® Colorants

When you need an attractive surface fast

PRODUCT	PRIMARY USE	DESCRIPTION	RATES	SIGNAL WORD
<b>LAKE DYES</b>				
MYSTIC® LAKE DYE BLACK		Black pigment for enhancing aesthetics of lakes, ponds and other water bodies	4-16 FL OZ/ 1 ACRE FOOT	CAUTION
MYSTIC® LAKE DYE BLUE		Blue pigment for enhancing aesthetics of lakes, ponds and other water bodies	4-16 FL OZ/ 1 ACRE FOOT	CAUTION
MYSTIC® LAKE BLACK WSP		Black dye in quick dissolve toss-pack transoms off-color water	1 PACK PER ACRE 2-4 FT DEEP	CAUTION
MYSTIC® LAKE BLUE WSP	      	Blue dye, toss-pack transforms off-color water and can also be used as a spray pattern indicator	AQUATIC: 1 PACK PER ACRE 1-2 FT DEEP, OTHER USES: 1-2 PACKS PER 100 GALLON	CAUTION

<b>SPRAY PATTERN INDICATOR (SPI)</b>				
MYSTIC® BLUE	    	Non-staining, liquid blue spray pattern indicator	0.2-0.73 FL OZ/ 1000 SQ FT	CAUTION
MYSTIC® GREEN	  	Non-staining, liquid green spray pattern indicator	0.2-0.73 FL OZ/ 1000 SQ FT	CAUTION
MYSTIC® HC	    	Blue high concentrate spray pattern indicator	0.15-0.6 FL OZ/ 1000 SQ FT	CAUTION

<b>COLOR TURF</b>				
MYSTIC® HUE	  	Turf colorant for completely or nearly completely dormant turfgrass	2.5 GALLONS/ 40 GALLONS WATER	CAUTION
MYSTIC® VERDANT	  	Green turf pigment, use when leaf has some chlorophyll left	0.2-0.46 FL OZ/ 1000 SQ FT	CAUTION
MYSTIC® VERDANT SOUTHERN	  	Green pigment, leaf has some chlorophyll, specifically formulated for warm season grass	0.25-0.75 FL OZ/1000 SQ FT	CAUTION

 Sports Turf
  Golf Management
  Lawn Care
  Ornamental
  Aquatic
  Pest Control
  Vegetation Management

**MYSTIC® HUE**

Mystic® Hue is a green turf colorant for grass of all types. It improves the visual color of the turf, transforming dull and lifeless grass into a vibrant green, healthier looking lawn. It's a perfect pigment for turf during the dormant season and as it transitions into the growing season.



PRODUCT SPOTLIGHT 

**MYSTIC® VERDANT**


















A high-concentrate pigment that gives 1.5 times more surface coverage plus faster drying time than the competitors, Mystic® Verdant will give you healthy-looking turf all season long. It's the color every golf course should be.



PRODUCT SPOTLIGHT 

# Wetting Agents

Make your water work harder

PRODUCT	PRIMARY USE	DESCRIPTION	RATES	SIGNAL WORD
AQUICARE®	  	Retains water down & laterally into root zone, creates firm playing surfaces	4-7 FL OZ/ 1000 SQ FT MONTHLY	WARNING
AQUICARE® GR	  	Granular wetting agent for challenging-to-spray areas	2.5-4 LB/1000 SQ FT	WARNING
AQUICARE® PELLETS	  	Hose-end applied water retention agent, dissolves quickly for rapid application	6 OZ / PELLET AS NEEDED	WARNING
AQUIFLO® PLUS	   	Water penetrant to aid water infiltration & reduce localized dry spot, pH acidifier	0.75-5 FL OZ/ 1000 SQ FT MONTHLY	WARNING
AQUISYNC®	   	Penetrant type action especially for heavier soils/ thatchy areas	2-6 FL OZ/ 1000 SQ FT MONTHLY	WARNING

 Sports Turf
  Golf Management
  Lawn Care
  Ornamental
  Aquatic
  Pest Control
  Vegetation Management

**AQUICARE®**

PRODUCT SPOTLIGHT 

This safe, nonphytotoxic product is specifically designed to resist excessive water retention at the soil surface while maintaining optimal moisture levels in the root zone to provide a firm, healthy playing surface.



**AQUISYNC®**


PRODUCT SPOTLIGHT 

Aquisync is a specialized combination soil surfactant made to reduce the surface tension of water. It allows the water to flow into the soil more readily while increasing the water retention in the soil. It allows a more uniform distribution and availability of the water. In turn, it helps to create a more consistent playing surface as well as an enhanced visual appearance of the turf.


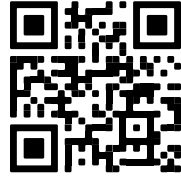


Observe the effectiveness of our wetting agents across diverse soil types as they demonstrate superior performance compared to water and other leading products in the market.

Aquicare vs. Water – Water Infiltration in 4 oz. of Peat



Water Aquicare

WATCH HERE  



# Herbicides

Keep weeds down and out

PRODUCT	PRIMARY USE	DESCRIPTION	RATES	SIGNAL WORD
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STRIKE 3®		3-way herbicide for broadleaf weed control from shoot-to-root	0.67 - 1.5 fl oz/1000 sq ft	DANGER
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Sports Turf	Golf Management	Lawn Care	Ornamental	Aquatic	Pest Control	Vegetation Management
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**STRIKE 3®**

When annual and perennial weeds invade the lawn, Strike back with Strike 3® weed killer. It contains three active ingredients to kill weeds on a variety of turfgrass sites and noncrop areas. It can even be mixed with certain fertilizers to promote healthy lawns while killing the weeds.



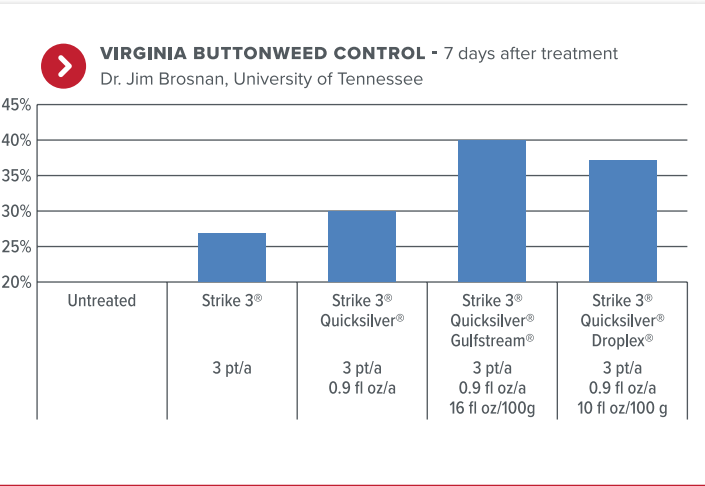
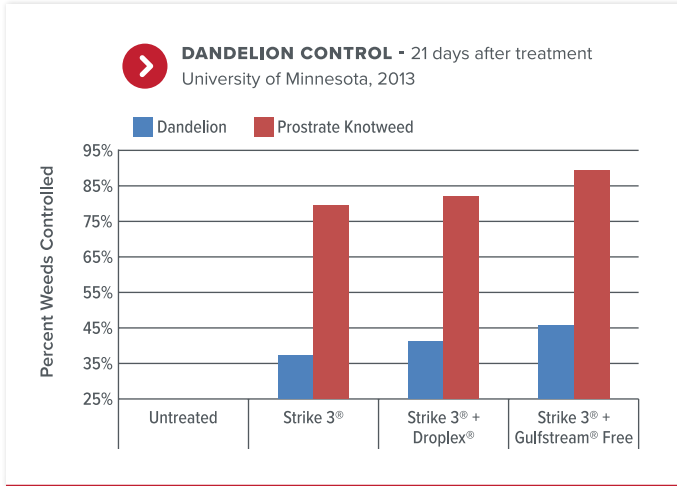
PRODUCT SPOTLIGHT

**DROPLEX® XTRA**

Drift and evaporation are big problems when applying herbicides. To help with this, add Droplex® Xtra to the tank-mix. It's the ultimate spreader-sticker, canopy-penetrating, drift management product on the market. And thanks to the addition of Gulfstream®, the product will spread uniformly over the surface of the plant, leading to increased uptake.



PRODUCT SPOTLIGHT



# Heritage Turf Seed

Beautiful, strong turf starts with the right seed

## Grow better turf with Gravity® SL PGS:

### What is Gravity® SL PGS?

Gravity® SL PGS is a unique blend of plant growth hormones designed to simulate root growth and plant health in new seedlings, transplants, and existing plants.

- > **CYTOKININ**  
A natural plant hormone that promotes cell division while slowing leaf aging
- > **GIBBERELIC ACID**  
A naturally occurring plant hormone that stimulates cell division
- > **INDOLE BUTYRIC ACID (IBA)**  
A plant hormone that stimulates vigorous root formation and development

### Coated Seed

Coating adds bulk density to a bag of seed. Typically, coatings account for 50% of the weight of a bag.

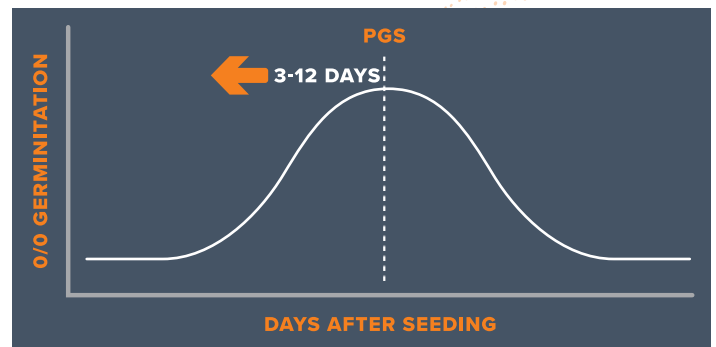


### Treated Seed

Treatments do not add bulk density. In other words, when you buy a 50lb bag of seed, you are getting 50lbs of seed.

## Gravity® SL PGS Advantage:

The majority of our seed products are enhanced with Gravity SL PGS, a plant growth regulator. This treatment accelerates seed germination significantly, a benefit particularly evident when seeding in challenging conditions. Research conducted at the University of Minnesota reveals that PGS-treated seeds achieve an 80% germination rate 3-12 days faster than untreated seeds. This advantage is appreciated by professional end users, such as Superintendents and Sports Field Managers, as well as commercial contractors, especially when dealing with dry or cool soils.





## Turf Tech Tool:

Make quick and informed decisions about turf seed with the Heritage PPG Turf Tech Tool. This innovative tool filters millions of turf seed NTEP data points to identify species that meet your specific requirements, such as high disease resistance, drought resistance, fine texture, or spring green-up. It relies on a patented algorithm to analyze all available species, attributes, and state trials, generating a Turf Performance Index (TPI) score for each variety. This comprehensive score empowers you to make decisions based on factual information rather than guesswork. Choosing the right turf seed through this tool enables you to enhance performance, reduce the need for inputs like water and pesticides, and improve resilience to environmental stressors.

0 CROP 0 WEED

The term “0/0” signifies “zero weed - zero crop seed.” Special precautions are implemented to maintain the cleanliness of the turf field, ensuring that no unwanted weeds or other crop seeds contaminate the pure seed.



## Turf Seed Selections:

**Kentucky Bluegrass (KBG)** is a cool-season grass that thrives in moderate to cool climates. It is best suited for northern and central parts of the United States where the climate is cooler. Its high-traffic tolerance makes it ideal for athletic fields and a popular choice for home lawns due to its dense growth and rich color.

**Perennial Ryegrass (PRG)** is a cool-season grass that is best suited for temperate climates. PRG germinates quickly and tolerates high-traffic making it a top-choice for lawns, sportsfields, and golf courses since it can tolerate low mowing. PRG is often used to overseed warm season grasses.

**Annual Ryegrass (ARG)** is a versatile type of grass that can be used in various settings due to its rapid growth and adaptability such as lawns, pastures, erosion control and roadsides.

**Fine Fescue (FF)** is a type of grass that is known for its ability to thrive in challenging conditions such as shaded areas, cool climates, low-traffic areas, areas with water restrictions, low fertility soils, and erosion-prone areas.

**Tall Fescue (TF)** is a cool-season grass that is well-suited for a variety of climates and conditions. Tall Fescue performs well in regions with moderate temperatures, such as the transition zone in the United States. It is known for being shade tolerant, high-traffic resistant, and drought resistant.

**Bentgrass (BENT)** is commonly used on golf courses, particularly on putting greens, due to its fine texture and tolerance for close mowing. Bentgrass prefers cool, humid climates and does not do well in hot, dry areas. It's often found in the northern United States.

FIND THE RIGHT SEED FOR YOU



# Maxx Turf Line

Your efficient and affordable solution for swift germination and rapid coverage

PRODUCT	FORMULA	IDEAL USE	DESCRIPTION	TREATED WITH GRAVITY® SL PGS	BAG SIZE
GT CSM MAXX CONTRACTORS	15KBG-35PRG-50ARG	Commercial Turf, General Turf	Fast germination and quick cove, Suitable for small repairs to seeding several acres	NO	50LB
GT CSM MAXX LOW GROW PGS	20KBG-20PRG-60FF	Commercial Turf, General Turf	High percentage of FF, Tolerates fewer mowings, Fills-in thin areas	YES	50LB
GT CSM MAXX RENOVATION-REPAIR PGS	20KBG-80PRG	Athletic Fields, Sunny Home Lawns	One of Heritage's fastest germinating mixtures, Good choice for fall fill-in of bare & thin spots	YES	50LB
GT CSM MAXX SHADY SUPREME MIX PGS	25PRG-75FF	Commercial Turf, Shady Home Lawns	Heritage's most popular shady mixture, FF tolerates low light, PRG reduces germination time	YES	50LB
GT CSM MAXX EXPERTS CHOICE PGS	25KBG-50PRG-25FF	Multi-Use Sites	Broad spectrum mix for sun & shade	YES	5LB 25LB 50LB
GT CSM MAXX SUN/SHADE PGS	33KBG-34PRG-33FF	Multi-Use Sites	Broad spectrum mix for sun & shade	YES	5LB 25LB 50LB
GT CSM MAXX FINEST	40KBG-45PRG-15FF	Multi-Use Sites	Broad spectrum mix for sun & shade	NO	5LB 25LB 50LB
GT CSM MAXX 50KBG 50PRG PGS	50KBG-50PRG	Athletic Fields, Sunny Home Lawns	Use in sunny locations where fast recovery and fill-in is needed	YES	50LB
GT CSM MAXX 80KBG 20PRG PGS	80KBG-20PRG	Athletic Fields, Sunny Home Lawns	NTEP varieties provide enhanced germination	YES	50LB
GT CSM MAXX 80TF 20PRG PGS	80TF-20PRG	Commercial Turf, Home Lawns	Highly-rated for disease resistance, traffic & seedling vigor. Performs well in sunny conditions across the country	YES	50LB
GT CSM MAXX SPORTS 80TF 10KBG 10PRG PGS	80TF-10KBG-10PRG	Non-irrigated Athletic Fields	Holds up very well to high-traffic in dry conditions, Deep roots and recovery from wear & tear	YES	50LB
GT CSM MAXX 90TF 10KBG PGS	90TF-10KBG	Commercial Turf, Home Lawns	Increased disease resistance for Brown Patch & Gray Leaf Spot	YES	5LB 25LB 50LB
GT KBG 365SS BLD CRT-SOD	100KBG	High-End Athletic Fields	A-List certified, Holds up to extreme wear & traffic, Quick recovery between games, Dense sward for superior strength	NO	50LB
GT KBG HD SPORTS 2.0 - CRT CO W/XALT	100KBG	High-End Athletic Fields	Fibrous root system, Wear & traffic tolerant, Fast recovery, Disease resistant, Early spring greenup & extended fall color	NO	50LB
GT KBG MAXX PGS BLD	100KBG	Athletic Fields, Sunny Home Lawns	High NTEP ratings for fast germination	YES	50LB
GT TF MAXX HIGH PERF PGS	100TF	Commercial Turf, Home Lawns	Excellent in shade, Fast germination & establishment	YES	5LB 25LB 50LB





# Select Turf Line

Transform your turf into the pinnacle of excellence

PRODUCT	FORMULA	IDEAL USE	DESCRIPTION	TREATED WITH GRAVITY® SL PGS	BAG SIZE
GT CSM SELECT SUN/SHADE PGS 50LB	35KBG-30PRG-35FF	High-End Multi-Use Turf Sites	Broad spectrum mix for sun & shade	YES	5LB 25LB 50LB
GT CSM SELECT 50KBG 50PRG PGS 50LB	50KBG-50PRG	High-End Multi-Use Turf Sites	Use in sunny locations where fast recovery and fill-in is needed	YES	50LB
GT CSM SELECT 80KBG 20PRG PGS 50LB	80KBG-20PRG	Golf fairways, Athletic Fields, High-End Home, Commercial Turf	Highly NTEP ratings for disease resistance, traffic & seedling vigor	YES	50LB
GT FF SELECT LINKS PGS 50LB	100FF	Low-Input Golf Roughs, Eco Home Lawns	Contains Creeping red fescue, hard fescue, chewings fescue, sheeps fescue, Drought tolerant, Fewer mowings needed	YES	50LB
GT KBG SELECT FWY PGS BLD 50LB	100KBG	Golf Course Fairways, High-End Home Lawns	High NTEP ratings for disease resistance, color, quality, low mowing height, traffic & drought tolerance.	YES	50LB 1000LB
GT PRG SELECT GLS PGS 50LB	100PRG	Golf Course Fairways, High-End Athletic Fields, Overseeding	Gray Leaf Spot, pythium, and brown patch resistant Excellent NTEP ratings for density, color & establishment	YES	50LB
GT CSM SELECT HIGH TRAF TEE PGS 50LB	40PRG-40FF-20BENT	Overseeding Golf Tees	Excellent for overseeding golf tees experiencing wear & tear, PRG for fast germination & establishment, Bentgrass for fast recovery and fill-in	YES	5LB 25LB 50LB
GT PRG SELECT LAT SPREAD PGS 50LB	100PRG	Golf Course Fairways, High-End Athletic Fields, Overseeding	Ability to self repair heavy traffic areas with lateral spread, Very resilient variety	YES	50LB
GT PRG SELECT SOUTH OVER HIGH PERF PGS 50LB	100PRG	High-End Golf Overseeding, Fairways, Southern Home Lawns	Top-selling blend for overseeding Bermudagrass in the south, High NTEP ratings for color and quality "	YES	50LB
GT PRG SELECT SOUTH OVERSEED PGS 50LB	100PRG	Economy Golf Overseeding, Fairways, Southern Home Lawns	Low cost, fast transition blend	YES	50LB
GT CSM POSIDUNN 90TF 10KBG PGS 50LB	90TF-10KBG	High-End Athletic Fields, High-End Home	Top KBG varieties for excellent traffic resistance, Top TF varieties for resilience, A-List certified, Good drought tolerance	YES	5LB 25LB 50LB
GT TF ARTIMUSS HIGH PERF PGS 50LB	100TF	High-End Home Lawns	Heritage's signature Tall Fescue blend, Excellent performance in Transition Zone, A-List certified, Latest generation varieties, Varieties ranked in the top 15% of latest NTEP trial, Locked-in varieties	YES	5LB 25LB 50LB
GT TF CALIPSOW HIGH PERF PGS 50LB	100TF	Sod Farms, High-End Home Lawns	A-List certified Pool of latest generation TF varieties	YES	5LB 25LB 50LB 1000LB

# Calculating Area Measurements

Purchasing and applying the right amount of product for any job is important and Heritage is here to help! Use our simple charts and equations below to calculate area measurements.

## SQUARE OR RECTANGLE

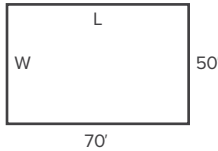
Area = Length x Width

$$A = L \times W$$

### EXAMPLE

$$A = 70 \times 50$$

$$A = 3500 \text{ ft}^2$$



## CIRCLE

Area = Radius x Radius x Pi

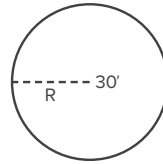
$$A = R^2 \times \pi$$

$$\pi = 22/7$$

### EXAMPLE

$$A = 30 \times 30 \times 22/7$$

$$A = 2828 \text{ ft}^2$$



## CIRCLE WITHIN 5% ACCURACY

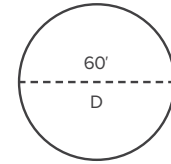
Area = Diameter x Diameter x .8

$$A = D \times D \times .8$$

### EXAMPLE

$$A = 60 \times 60 \times .8$$

$$A = 2880 \text{ ft}^2$$



## OVALS OR EGG SHAPES WITHIN 5% ACCURACY

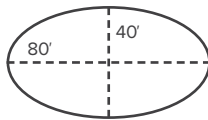
Area = Length x Width at Midpoint x .8

$$A = L \times W \times .8$$

### EXAMPLE

$$A = 80 \times 40 \times .8$$

$$A = 2560 \text{ ft}^2$$



## TRIANGLE

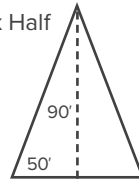
Area = Base x Height x Half

$$A = B \times H \times .5$$

### EXAMPLE

$$A = 50 \times 90 \times .5$$

$$A = 2250 \text{ ft}^2$$

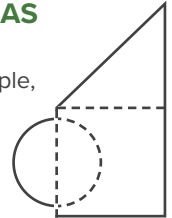


## UNUSUAL SHAPED AREAS

Calculations can be made for various sections. For this example, calculate and add together:

- Area of triangle
- Area of square
- 1/2 Area of circle

Total = Total square feet of area



## IRREGULAR SHAPES WITHIN 5% ACCURACY

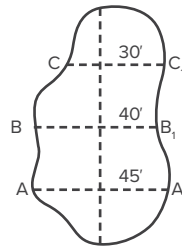
1. Measure the longest axis of the area (length line)
  2. At every 10 feet on the length line measure the width at right angles to the length line
  3. Total all widths and multiply by 10
- $$A = (AA + BB + CC) \times 10$$

### EXAMPLE

$$A = (45 + 40 + 30) \times 10$$

$$A = 115 \times 10$$

$$A = 1150 \text{ ft}^2$$



# Conversion Factors

## WEIGHT

- 1 metric ton = 1.102 US tons (short ton)
- 1 kilogram = (kg) 2.205 lb.
- 1 gram (g) = .030327 oz.
- 1 dram = 20 grains
- 1 oz. = 16 drams
- 1 pound = 16 ounces

## AREA

- 1 hectare (ha.) = 107,640 sq. ft. 2.47 acres
- 1 sq. meter (m) = 10.76 sq. ft.
- 1 sq. centimeter (cm) = 0.1549 sq. in.
- 1 sq. mile < 640 acres = 259 hectares
- 1 acre 43,560 sq. ft. = 0.4047 hectares
- 1 sq. ft. = 0.929 sq. meters
- 1 sq. inch = 6.452 sq. centimeters
- 1 sq. ft. = 144 sq. in.
- 1 sq. yd. = 9 sq. ft.

## CUBIC

- 1 cubic inch = 16.39 cubic centimeters
- 1 cubic foot = 1,728 cubic inches
- 1 cubic yard = 46,656 cubic inches

## TEMPERATURE

- degrees Celsius x 1.8) + 32 = degrees Fahrenheit
- (degrees Fahrenheit -32) x 0.555 = degrees Celsius

## LENGTH

- 1 kilometer (km) = 0.6214 miles
- 1 meter (m) = 3.281 feet
- 1 meter = 39.37 inches
- 1 centimeter (cm) = 0.3937 inches
- 1 millimeter (mm) = 0.03937 inches
- 1 mile 1.609 kilometers = 5,280 ft. or 1,760 yards
- 1 foot = 0.3048 meters
- 1 inch = 2.540 centimeters

## LIQUID

- 1 teaspoon = 1/6 fl. oz.
- 1 tablespoon = 3 teaspoons = 1/2 fl. oz.
- 1 fl. oz. = 2 tablespoons = 6 teaspoons
- 1 cup = 8 fl. oz.
- 1 pint 2 cups = 16 fl. oz.
- 1 quart = 2 pints = 4 cups = 32 fl. oz.
- 1 gallon 4 quarts = 8 pints = 16 cups = 128 fl. oz.

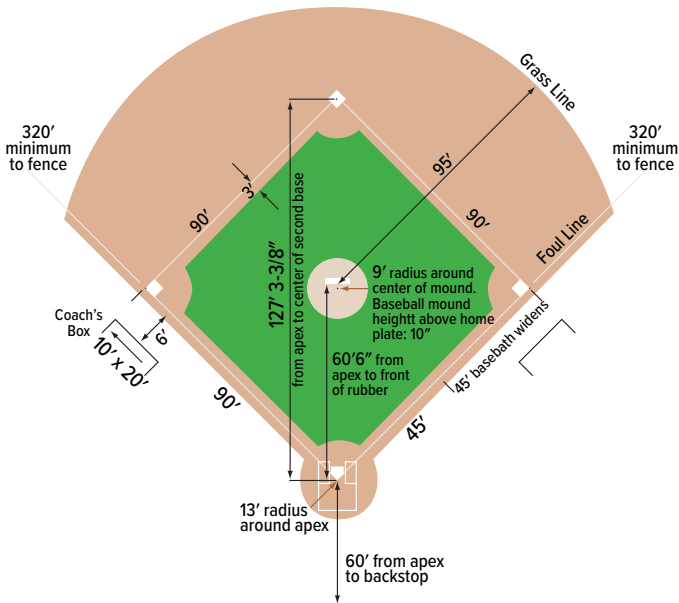
## YIELD

- 1 metric ton/hectare = 0.446 US tons/acre
- 1 kilogram/hectare = 0.892 lb./acre
- 1 US ton/acre = 2.242 metric tons/hectare
- Pounds per 1,000 sq. ft. x 4.8826 = grams/sq. meter
- Pounds per acre x 1.12 = kilograms per hectare

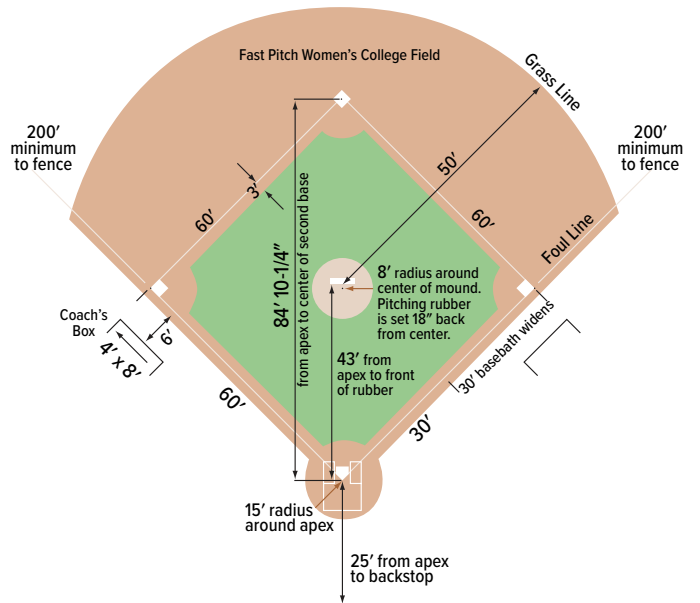


# Sports Field Dimensions

## 90' BASEBALL FIELD

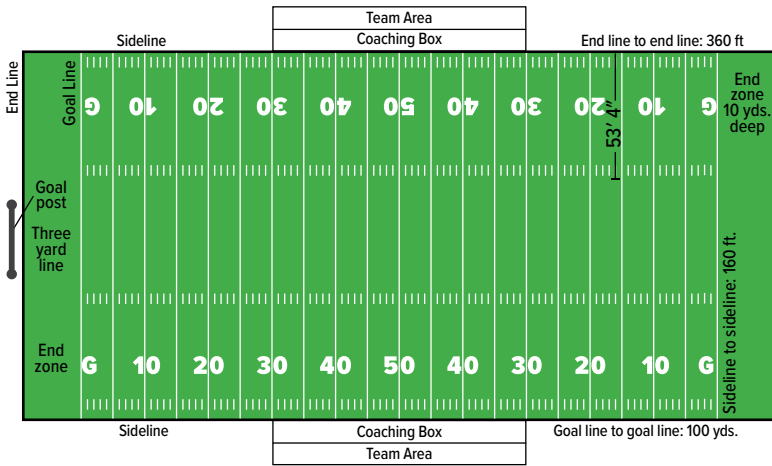


## 60' SOFTBALL FIELD



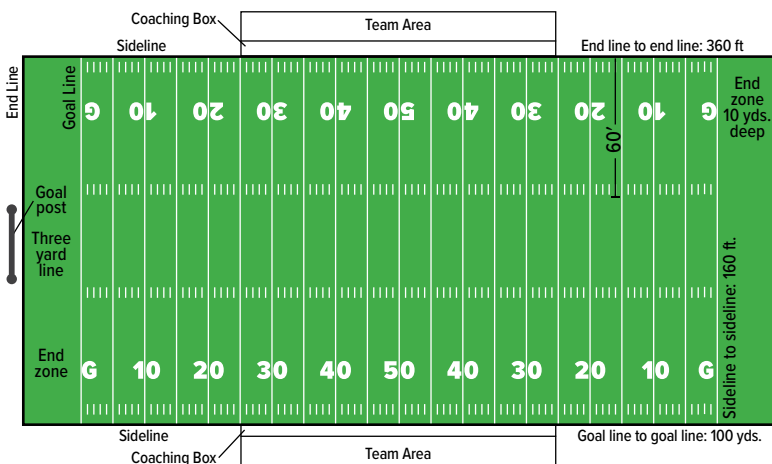
## HIGH SCHOOL FOOTBALL FIELD

GOAL POST = Width: 23'4" | Uprights: 20' high | Base: 10' high

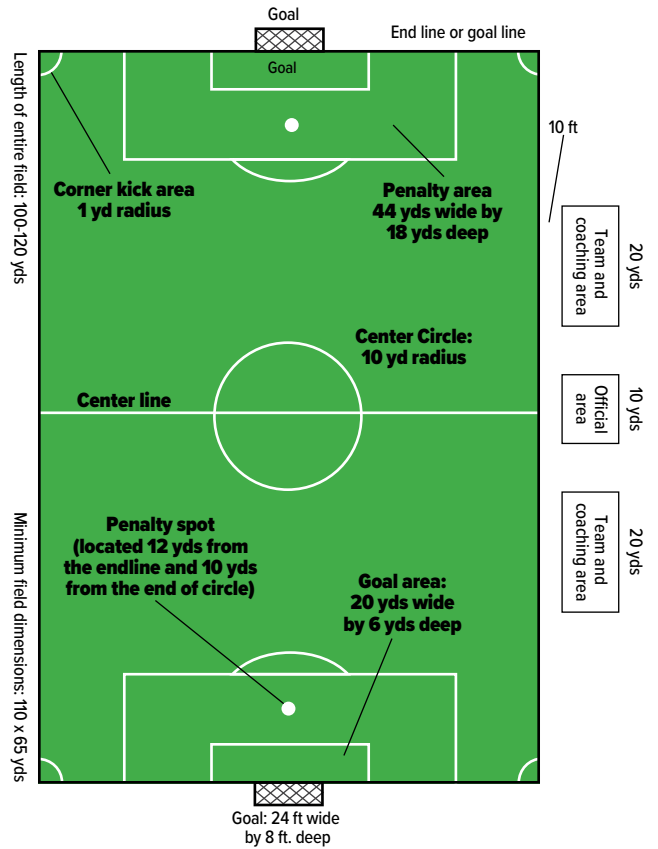


## COLLEGE FOOTBALL FIELD

GOAL POST = Width: 18'6" | Uprights: 20' high | Base: 10' high



## SOCCER FIELD



GOAL POSTS: Should be white in color  
NOTE: Some soccer clubs have approved the use of an "X" instead of the center circle. If you choose to use an "X" it should be as large as the circle it replaces.



# HERITAGE

PROFESSIONAL PRODUCTS GROUP



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