



## BREEDER

Simplot Jacklin

## DESCRIPTION

Ginney is an improved very dark green variety classified as a “Midnight type” of improved Kentucky bluegrass that exhibits a compact short plant height and medium leaf texture. Ginney exhibits late spring green-up and is very tolerant of low mowing heights. It is a cold hardy, persistent, attractive grass that through the development of an extensive rhizome system forms a well-knit, durable sod. It is adapted to a wide range of soils and climatic conditions.

## APPLICATION

Ginney is an excellent choice for use in elite Kentucky bluegrass blends for sod producers, sports turf managers, landscape professionals, golf course fairways, tees and roughs. It is also highly recommended for seed mixtures that contain improved perennial ryegrass, chewing fescue, hard fescue, sheep fescue, strong creeping red fescue and tall fescue.

## PERFORMANCE

Ginney tied for 1st in mean turf quality in the 2000 NTEP Kentucky Bluegrass test conducted across 32 US and Canadian locations respectively. It also tied for 1st among commercially available varieties in the simulated traffic stress test conducted at North Brunswick NJ test location at Rutgers University. Ginney exhibits good resistance to leaf spot, summer patch and moderate resistance to stripe smut, dollar spot and fusarium blight.

## KENTUCKY BLUEGRASS TYPES

Kentucky bluegrass is an apomictic species that exhibits a great range of genetic diversity. Kentucky bluegrasses reproduce asexually; in scientific terms by a method called *apomixis*. Seed

from a mother plant (children) is essentially identical to the parent plant. Therefore, enhanced genetic diversity in Kentucky bluegrass seed for the end user is critical. Blends and mixtures containing genetically different Kentucky bluegrass varieties reduce the opportunity for an individual strength or weakness of a Kentucky bluegrass cultivar to express itself over time. Therefore, single varieties of Kentucky bluegrass may not provide enough genetic elasticity against abiotic and biotic stresses during the growing season. Many distinct types of Kentucky bluegrass have been released which have been conveniently classified into 14 groups based on growth and performance characteristics (Murphy, et al 1998). Ginney is classified as a “Midnight type” Kentucky bluegrass that is used extensively by sod producers, sports field managers, landscape professionals and quality conscious homeowners. For a list of Kentucky bluegrass types and descriptions, see insert on the bottom of the next page.

Blends and mixtures containing Kentucky bluegrass should include complimentary and compatible but different varieties for optimal long term turf performance. For example a blend of Midnight type (Ginney), America type (Apollo), BVMG type (Dragon) and Compact type (P-105) will provide broad genetic elasticity for improved disease resistance and agronomic performance.

## SEEDING

**Dates:** Spring and fall when soil temperatures are above 60°F. Kentucky bluegrass is generally slow to tiller once germinated so higher soil temperatures with increasing photoperiod in spring



## TURF CHARACTERISTICS

| Growth Habit | Estab. Rate days | LHC Tol. 1/2" | Mowing Freq. | Traffic Tol. | Thatch prod | Comp Mix  | N. Req. N         | Shade Tol. | Cold Tol. | Drought Tol. | ET rate mm/day | Endophyte | Salinity Tol. mmhos |
|--------------|------------------|---------------|--------------|--------------|-------------|-----------|-------------------|------------|-----------|--------------|----------------|-----------|---------------------|
| Rhizome      | Slow 21-28       | Good          | 1x week      | Good         | Med-High    | Fair Good | Med High 5-6 lbs* | Poor       | Very Good | Good         | Med 7-8        | No        | <3 Poor             |

*LHC=low height of cut, ET=evapotranspiration, N=nitrogen \*per 1,000 ft<sup>2</sup>; rates may increase or decrease based on location, soil type, irrigation practices, desired turf quality, humidity & other abiotic and biotic factors.*



or warm soils with decreasing photoperiod in the fall provide an optimal soil seed interface for seedling establishment.

**Rates:** 2-3 lbs./1,000 sq. ft. on new seedlings and 1-2 lbs./1,000 sq. ft. on established turf. Ginney has a high seed count of 1,900,000 seeds per pound. Seed count is also dependent on the year of harvest, location of production and seed production practices.

**Depth:** Sow at ¼ to ½ inch. Kentucky bluegrass is slower in germination than other cool-season grasses and full germination of turf may not be seen for 21-28 days under normal conditions.

## CULTURAL PRACTICES

**Soil Preparation:** Prepare a firm seed bed free of clods, sticks and vegetative debris. Seed should be in contact with soil. Kentucky bluegrass is intolerant of heavy soil (high bulk density) and saline soil conditions and is best established in well drained sandy or silt loam soils.

**pH:** Soil is best maintained at a neutral pH of 7.0. Of the cool-season turfgrass Kentucky bluegrass is the most susceptible to variation in soil pH conditions. Kentucky bluegrass does not do well under low or acidic soil conditions.

**NPK requirement:** Ginney is described as a medium user of fertilizer. In northern regions 5-6 lbs. N/year; southern and transitional climates 6-7 lbs. N/year with minimal utilization in summer months to discourage foliar diseases such as brown patch and pythium. NPK ratios are generally recognized as 5-1-3 with clippings retained on the turf.

**Water use:** Kentucky bluegrass has a moderately short fibrous root mass for water uptake and will go into stress induced dormancy or may die under severe drought conditions. An ET rate of 7-8 mm per day places Kentucky bluegrass into medium water use category for cool-season turfgrass. ET rates can be reduced by frequent mowing to encourage a denser turf and infrequent but heavy irrigation to stimulate deep subsoil root growth.

**Thatch management:** Kentucky bluegrass is recognized as a medium to high thatch producing cool-season turfgrass. High N levels to encourage fast grow-in coupled with minimal traffic pressures encourage thatch accumulation. Verticutting, lower mowing heights and dethatching are recommended for dormant sod or grass breaking dormancy in the spring. At any given dethatching never remove more than ½ inch of thatch layer. If the thatch layer is greater than 1 inch it is recommended that removal be done over a period of years.

**Mowing height:** Should be mowed at ¾-2 inch and may tolerate ½ inch mowing height under optimal growing conditions.

**Weed Control:** From North Carolina State University (NCSU) Pest Control Recommendations for Turfgrass Managers 2003. In established turf for post-emergent broadleaf control 2, 4-D, MCPA, clopyralid + triclopyr (Confront) and *dicamba* (Banvel). Spring pre-emergent control DCPA or *bensulide* (Dacthal). Pre-emergent crabgrass and goosegrass control on established Kentucky bluegrass with *pendimethalin* (Pre-M) *prodiamine* (Barricade), *oxadiazon+benefin*, *oryzalin* (Surflan), *benefin* (Balan), *siduron* (Tupersan), *dithiopyr* (Dimension).



## KENTUCKY BLUEGRASS TYPES

- **BVMG Types** exhibit good seeding vigor, they have moderate winter color, leaf spot resistance, but are moderately susceptible to billbug.
- **Aggressive Types** have high shoot density.
- **Compact Types** with low, compact growth habit, good leaf spot resistance but poor spring green-up.
- **Midnight Types** are compact type KBG characterized by long winter dormancy, late spring green-up, very dark high quality turf, good heat tolerance but are susceptible to powdery mildew.
- **Bellevue Types** have medium to low growth and early spring green-up.
- **CELA Types** exhibit early spring green-up, but tend to have less seed head formation under mowed turf conditions than the Bellevue types.

- **Cheri Types** have medium to wide leaves.
- **Common Types** have early spring green-up, narrow leaf blade, but are susceptible to leaf spot.
- **America Types** are compact types but have finer leaf blades than Midnight type KB's and exhibit good resistance to dollar spot, leaf spot and stripe smut.
- **Julia Types** exhibit early spring green-up, good leaf spot resistance and strong wear tolerance.
- **Mid-Atlantic Types** have a vigorous and extensive rhizome system and improved heat tolerance.
- **Shamrock Types** are similar to BVMG types, their only difference being Shamrock types exhibit good tolerance to stripe smut.
- **Wabash Types** are medium dark green, exhibit excellent heat tolerance and good recovery from disease.
- **Other types** are varieties that have not yet been defined to the previous 13 classifications.

