

# ENDARRA 81™

B E R M U D A G R A S S

**fito**  
*Your seeds*

## STRENGTH & BEAUTY



Color retention



Excellent resistance to drought



Heat tolerance



Salt tolerance



Spring dead spot resistance



Aesthetic grass

ELITE HYBRID BERMUDAGRASS

# ENDARRA 81

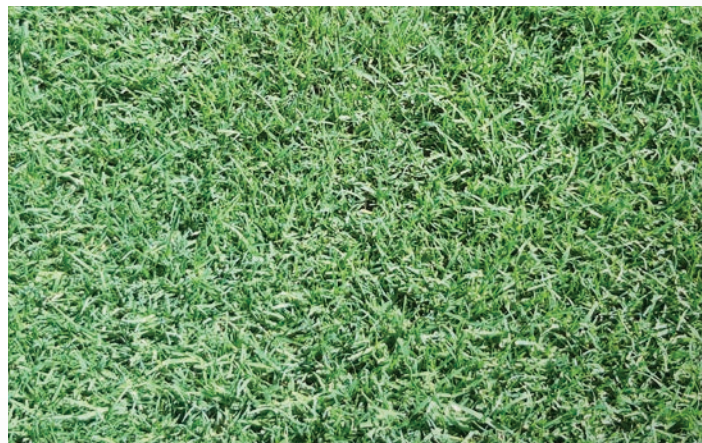
**Endarra 81** is a drought-resistant, beautiful, and strong bermudagrass developed primarily for lawns by the turfgrass experts at Oklahoma State University. The research indicates that it is among the most drought-resistant bermudagrasses, if not the most drought-resistant bermudagrass, ever released.

**Endarra 81** is a new, high-quality, interspecific hybrid turf bermudagrass. It has exhibited significantly improved drought resistance that, in numerous studies, shows it is as good as, if not more drought-resistant than TifTuf in a wide range of the southern United States.

It has excellent fall color retention like TifTuf. It produces few seed heads, which is an improvement over some popular drought-resistant varieties, including TifTuf.

It has demonstrated excellent establishment characteristics and leaf spot disease resistance, fine leaf texture, high density, dark green color, and sufficient sod tensile strength for reliable, large-scale commercial production on farms.

- Excellent drought resistance
- High density
- Dark green color
- Good disease resistance
- Fine leaf texture



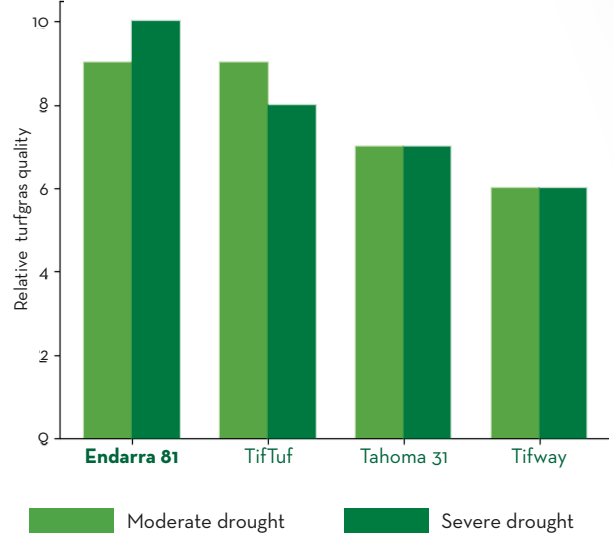
## MAJOR STRENGTHS AND COMPARATIVE PERFORMANCE

- **Endarra 81** is a new, high-quality, interspecific hybrid turf bermudagrass.
- It has exhibited a significantly improved drought resistance as good as TifTuf in a wide range of the southern United States.
- **Endarra 81** has excellent fall color retention like TifTuf.
- It produces few seedheads, which is better than some popular drought-resistant varieties.
- **Endarra 81** has demonstrated excellent establishment characteristics and leaf spot disease resistance, fine leaf texture, high density, dark green color, and sufficient sod tensile strength for reliable, large-scale commercial production on farms.

### REGIONAL DROUGHT RESISTANCE TEST:

- The Regional Drought Resistance Test was conducted from 2020 to 2023 at eight locations across the southern United States as part of a USDA-funded project. A total of 34 experimental entries were evaluated, including **Endarra 81**, along with three commercial standards: TifTuf, Tahoma 31, and Tifway. Plots were established under natural rainfall without irrigation, and data were collected on establishment, turf performance, disease resistance, and drought response.
- **Endarra 81** showed establishment and leaf spot resistance comparable to TifTuf and Tahoma 31 and superior to Tifway. It exhibited good fall color retention and produced fewer seed heads under normal conditions. Under moderate drought stress, Endarra 81 had turf quality similar to TifTuf and better than Tahoma 31 and Tifway, with post-drought recovery equal to TifTuf and superior to the other standards.
- At sites experiencing severe drought (Riverside, CA; Dallas, TX; and Stillwater, OK), combined results from 2021-2022 indicated that **Endarra 81** delivered the best overall performance, surpassing all commercial standards in turfgrass quality under extreme drought conditions.

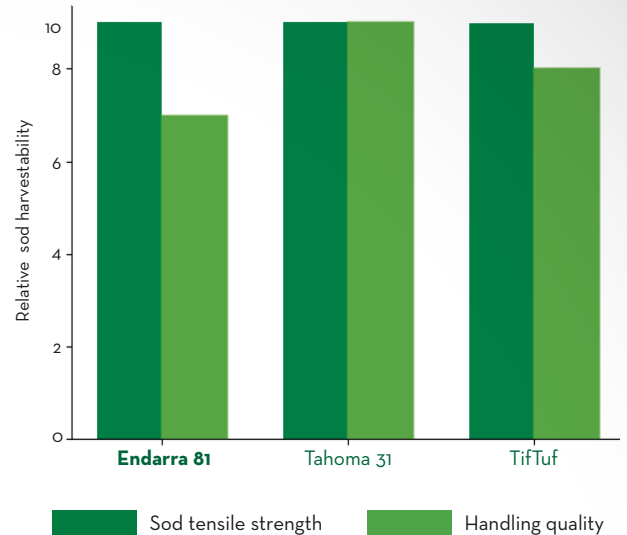
Comparison of turfgrass quality under drought stress



## SOD HARVESTABILITY TEST:

- The Sod Harvestability Test evaluated approximately 40 bermudagrasses in Oklahoma from 2021 to 2022. All entries established well and achieved adequate ground coverage. Sod tensile strength was acceptable for all genotypes within 12 months after planting, although handling quality varied. **Endarra 81** showed slightly weaker sod handling quality than Tahoma 31 early on but demonstrated excellent tensile strength overall, comparable to TifTuf, particularly at later harvest dates.
- On-farm sod harvestability trials further confirmed these results. In Florida, **Endarra 81** showed excellent harvestability in sandy soils when mechanically harvested. In Oklahoma, young sod of Endarra 81 exhibited adequate strength, though harvestability was somewhat lower than Tahoma 31 due to reduced stand density related to site conditions. Overall, Endarra 81 demonstrated acceptable to excellent sod strength and harvestability across locations.

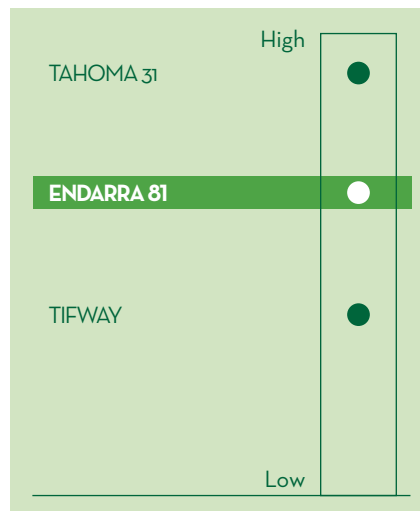
### Sod harvestability: Tensile strength vs Handling quality



## SHADE TOLERANCE TEST:

- The Shade Tolerance Test evaluated approximately 40 bermudagrasses at two locations in Oklahoma and Texas from 2020 to 2023. Grasses were established in 2020 and grown under artificial shade reducing light by 50-63%. Turfgrass quality and green cover were measured during the 2021-2023 growing seasons to assess performance under shaded conditions.
- Results showed that Tahoma 31 was the best-performing commercial standard under shade. Endarra 81 was less adapted to shade than Tahoma 31 but performed comparably to most bermudagrasses in the trial and better than the shade-susceptible standard Tifway under shaded conditions.

### Shade tolerance test



## RECOMMENDED AREA AND USE:

- Data from field trials and observational plantings indicate that Endarra 81 is well adapted to Oklahoma, Texas, California, North Carolina, and other southern states.
- It is recommended that grass be used in locations with the USDA plant cold hardiness zone 7a and warmer climates.
- That grass may be planted for use on lawns, sports fields, golf course fairways, tees and rough areas, and utility turf.

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