

ESTANCIA

FORAGE TALL FESCUE

WITH ARKSHIELD® TECHNOLOGY



ESTANCIA

ENDOPHYTE ENHANCED TALL FESCUE

- SMART ENDOPHYTE PROTECTION
- EXCEPTIONALLY HIGH-YIELDING
- EXCELLENT SEEDLING VIGOR
- PERSISTENT VARIETY
- MEDIUM MATURITY
- UNIVERSITY TESTED AND PROVEN
- HIMAG TALL FESCUE BASE GENETICS IN TANDEM WITH ARKSHIELD ENDOPHYTE

ESTANCIA PRODUCTION WITH ARKSHIELD® PROTECTION!

Estancia tall fescue produces tons of nutritious, palatable, high-quality forage that results in healthier cows, heavier weaning calves and improved steer and heifer weight gains. **Estancia** is the result of years of laboratory and field research by the University of Arkansas in cooperation with the University of Missouri. **Estancia** is a medium-maturing, high-yielding tall fescue with excellent seedling vigor.

ArkShield® is a patented smart endophytic fungus that lives inside **Estancia** seed and plants in a mutually-beneficial relationship protecting the grass from disease, insects and environmental stresses like heat and drought. **ArkShield®** is natural and desirable in forage grasses and has no known negative effects on livestock. The **ArkShield®** endophyte makes **Estancia** a more productive and persistent perennial forage grass.



In addition, **Estancia** is unique in the non-toxic tall fescue marketplace in that it not only contains a superb non-toxic endophyte, but **Estancia** is the combination of **ArkShield®** with base genetics of HiMag tall fescue, developed for higher magnesium levels to minimize grass tetany potential in cattle and sheep.



Put Your Pasture to Work!

Two factors that dramatically impact the profitability of a cow-calf operation are calving rate and weaning weight. Improvement to these production factors will increase the pounds of calf that can be marketed within a given calving season or year. Lower pregnancy rates, calving rates and calf weaning weights have been observed in many research studies in cows and heifers grazing tall fescue.

2012 MISSISSIPPI STATE DATA

VARIETY	HOLLY SPRINGS	STARKVILLE
ESTANCIA ARKSHIELD	3.11	5.41
KY-31	3.05	5.12
BAROPTIMA PLUS E34	2.76	4.77
JESUP MAXQ	2.71	4.28

MISSISSIPPI STATE UNIVERSITY TRIAL TOTAL DRY MATTER YIELD AT 2 LOCATIONS (TONS/ACRE).

2014 UNIVERSITY OF KENTUCKY DATA

VARIETY	SEEDLING VIGOR ¹	2-YEAR TOTAL YIELD
ESTANCIA ARKSHIELD	3.4	11.47
KY-31	3.5	10.59
BAROPTIMA PLUS E34	2.4	12.24
JESUP MAXQ	1.8	11.19

UNIVERSITY OF KENTUCKY TALL FESCUE TRIAL. LEXINGTON, KENTUCKY.

2016 KANSAS STATE UNIVERSITY DATA

VARIETY	2015	2016	2-YEAR TOTAL
ESTANCIA ARKSHIELD	6.94	8.35	15.29
BAROPTIMA PLUS E34	6.49	7.47	13.96
TOWER PROTEK	7.02	7.80	14.82
MARTIN 2 PROTEK	5.81	7.97	13.78
KY-31 HE	6.84	7.63	14.47

SEEDING AND OVERSEEDING

New pasture: 20-25 lbs. /acre

Renovation/Overseeding existing pastures: 10-15lbs. /acre

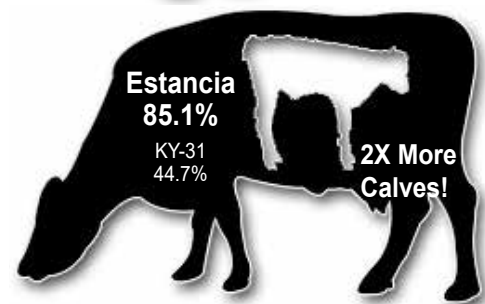
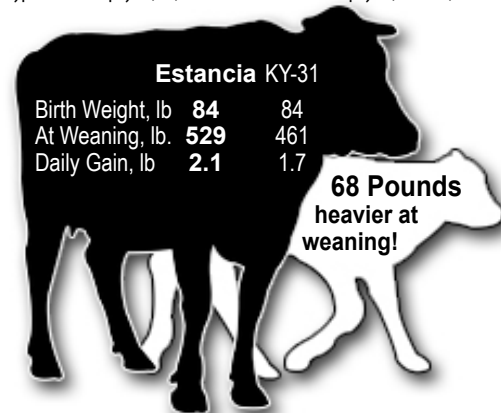
Avoid sowing seeds too deep and too far apart. Ideal depth for most forage seeds is 1/8-1/4 inches. Planting seeds deeper than 1/4 inch may not allow them to establish. Sufficient seed-to-soil contact is extremely vital. Rolling or packing the soil after seeding can ensure this. If no-tilling, the right seeding depth is 1/4- 3/8 inches deep.

AUTHORIZED DEALER

Combining cow and calf performance data, year-round grazing of toxic fescue could be costing cattle producers more than \$250 per head in lost revenue based on the Arkansas Beef Improvement Program's reported annual direct costs of maintaining beef cows.

Improved Weaning weights and Spring Calving Rates!

Calf performance while grazing tall fescue pastures containing either the wild-type toxic endophyte (E+) or a non-toxic novel endophyte (Estancia).*



* Arkansas Animal Science Department Report 2007
ArkShield Technology is protected by US patent No.7,465,855 B2 & No. 7,553,654 B2.



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