

Seville, Hubbard 87, Shenandoah atop most recent NTEP test results

■ Seville St. Augustinegrass and Hubbard 87 and Shenandoah turf-type tall fescues have outranked all other commercially-available cultivars in the most recent tests released by the National Turfgrass Evaluation Program at Beltsville, Md.

Seville had an overall quality rating of 6.3 (of possible 9.0) of the 10 commercially-available cultivars tested, according to 1991 data. This particular test was established in 1989.

Hubbard 87 and Shenandoah had mean quality ratings of 6.2 at 42 locations across the U.S. The results were for the final year of a tall fescue test established in 1987.

Though Seville was tops in the St. Augustinegrass ratings, Mercedes and Jade had 1991 scores of 6.0 and 5.9, respectively, within the 0.4 tolerance established by the LSD (least significant difference) range.

Also rating high in the turf-type tall fescue test was Safari with a 6.1 mean score, within the LSD range of 0.1.

Twilight was tops in genetic color ratings with a 7.4 rating while Twilight had the best leaf texture rating, 6.6.

KY-31 was on top of the seedling vigor ratings with 6.3, followed by Jaguar, Trident, Adventure, Finelawn I, Apache and Titan, all within the 0.7 LSD tolerance.

Trident ranked highest in winter color (6.5), followed by Twilight, Rebel, Safari and Pacer. Hubbard 87, Bonanza, Titan, Thoroughbred, Twilight and Guardian all ranked at the top of the spring density ratings.

Here are 1991 ratings for all St. Augustine test sites and turf-type tall fescue sites.

How to use these charts

■ First, choose the test site closest to where you are planning to seed. Compare the scores of the varieties and select the ones best suited to your area.

Ratings range from 1.0 to 9.0, with 9.0 being a perfect turf. Keep in mind that no comparative difference is evident between turf scores closer than the LSD (least statistical difference) value. In other words, if one variety scores 6.5 for your area and another scores 6.9 and the LSD is 0.5, both would be equally suited to your area.

Please note that the following capitalized letters next to test sites indicate maintenance practices:

A = high maintenance

B = low maintenance

C = low mowing

D = high mowing

1991 PROGRESS REPORT/1989 ST. AUGUSTINE GRASS TEST

QUALITY RATINGS/COMMERCIALLY AVAILABLE CULTIVARS

	Camarillo, Calif.	Gainesville, Fla.	Apopka, Fla.	Belle Glade, Fla.	Miss. State, Miss.	Coastal, S.C.	Dallas, Texas	Cleveland, Texas	MEAN
SEVILLE	5.5	7.3	6.7	8.4	6.7	5.0	3.9	7.0	6.3
MERCEDES	5.2	7.5	6.0	8.3	6.7	4.7	3.7	6.2	6.0
JADE	6.2	7.3	6.0	7.9	6.7	4.7	2.1	6.7	5.9
DELMAR	5.7	7.4	7.0	7.4	5.4	4.7	2.7	5.8	5.8
BITTERBLUE	5.7	6.9	7.3	8.1	5.2	4.3	3.1	5.2	5.7
FLORALAWN	4.9	7.8	6.7	6.8	5.5	4.7	3.4	5.2	5.6
FLORATAM	4.8	7.5	6.0	6.4	5.8	5.0	3.6	5.2	5.5
SUNCLIPSE	6.9	3.0	6.3	7.3	6.2	5.7	2.0	6.8	5.5
RALEIGH	4.2	7.4	4.3	6.8	6.6	4.3	4.0	5.8	5.4
FX-10	5.9	7.1	5.0	7.7	4.3	4.0	2.4	6.2	5.3
LSD	0.9	1.7	1.8	0.9	0.9	1.1	1.6	0.5	0.4

ELSEWHERE

**Results of turf-type
tall fescue trials,
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**Low-water-use zones
in the landscape,
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1991 FINAL REPORT																					
1989 TALL-FESCUE TEST QUALITY RATINGS COMMERCIALY- AVAILABLE CULTIVARS	Fayetteville, Ark.	Tucson, Ariz.	Santa Clara, Calif.	Santa Ana, Calif.	Riverside, Calif.	Nat'l Mail, D.C.	Griffin, Ga.	Ames, Iowa	Post Falls, Ida.	Urbana, Ill.	Carbondale, Ill.	W. Lafayette Ind.-A	W. Lafayette Ind.-B	Manhattan, Kans.	Wichita, Kans.	Silver Springs, Md.	E. Lansing, Mich.	Columbia, Mo.	St. Louis, Mo.	Lincoln, Neb.	N. Brunswick, N.J.
HUBBARD '87	5.2	6.5	6.9	6.2	6.8	4.7	7.0	7.1	6.4	7.5	5.9	7.5	4.7	7.5	7.6	6.3	6.3	5.5	6.4	6.6	6.1
SHENANDOAH	6.0	6.6	6.8	6.2	6.8	4.1	6.9	7.4	6.4	7.7	6.4	7.1	4.9	7.4	7.6	6.4	5.4	5.4	6.2	6.3	5.9
SAFARI	4.2	6.8	6.6	6.1	6.7	4.4	6.8	6.6	5.9	7.3	5.3	6.7	4.5	7.4	7.3	6.1	6.2	5.3	6.4	6.2	6.2
GUARDIAN	6.2	6.6	6.8	6.1	6.7	3.1	7.0	6.7	5.7	7.3	5.6	6.9	4.8	7.4	7.1	6.3	5.7	5.2	6.1	6.5	6.1
AUSTIN	4.8	6.6	6.4	6.2	6.7	5.7	7.0	6.9	6.4	7.7	—	7.0	—	7.1	7.1	6.0	5.4	5.6	6.0	6.0	5.5
COCHISE	5.7	6.4	6.2	6.0	6.6	5.0	7.1	6.5	5.9	7.5	5.9	6.8	4.6	7.4	7.0	5.8	6.3	5.5	6.4	5.8	6.3
AZTEC	5.2	6.5	6.8	6.2	6.7	3.4	6.7	6.1	6.0	7.3	6.0	6.6	4.4	7.6	7.2	6.3	5.6	4.9	6.3	5.6	6.4
MONARCH	5.6	6.2	6.8	6.2	6.7	3.9	6.8	6.3	6.2	7.1	5.9	6.9	4.6	7.1	7.6	5.9	5.7	5.0	6.1	5.8	6.6
AMIGO	5.6	6.5	6.6	6.1	6.7	4.1	6.7	6.6	6.2	7.5	5.0	6.8	4.7	7.3	7.6	6.1	6.0	5.5	5.9	5.9	3.7
CROSSFIRE	6.4	6.2	6.7	6.2	6.7	4.4	7.3	6.6	6.1	7.2	5.8	6.8	4.5	7.6	7.5	6.2	6.1	4.7	6.3	5.4	6.4
AVANTI	4.6	6.5	6.7	6.3	6.7	4.0	6.9	6.5	6.2	7.0	5.7	6.6	4.5	7.9	7.0	6.1	5.7	5.0	6.2	6.4	6.2
VEGAS	6.2	6.2	6.3	6.1	6.7	4.0	6.5	7.2	5.7	7.0	6.1	6.5	4.7	7.5	7.5	5.8	5.1	5.6	6.4	5.7	6.5
TRIBUTE	5.4	6.6	6.2	6.1	6.8	4.4	7.1	7.2	6.0	7.0	5.8	6.7	5.0	7.1	7.3	6.2	5.9	5.6	5.8	6.0	5.7
PHOENIX	4.9	6.4	6.5	6.0	6.7	5.3	6.9	6.8	6.2	7.6	5.8	6.9	4.5	7.0	7.2	6.4	5.9	5.6	6.1	6.0	5.1
THOROUGHBRED	5.4	6.6	6.4	6.0	6.8	6.1	6.7	6.5	6.3	7.2	5.0	6.9	4.6	6.9	7.1	5.9	6.1	5.0	5.7	6.3	5.1
ELDORADO	5.0	6.4	6.4	6.1	6.7	5.3	6.6	6.6	6.2	7.1	5.5	6.6	4.6	7.4	7.0	6.0	5.9	5.4	6.2	5.8	6.2
SHORTSTOP	5.4	6.2	6.5	6.2	6.6	3.2	6.3	6.5	5.8	6.9	5.6	6.6	4.8	7.6	7.3	5.8	6.3	5.4	5.9	5.9	5.7
OLYMPIC II	6.0	6.4	6.6	6.1	6.7	4.1	6.9	6.2	5.4	6.9	5.5	6.8	4.5	7.0	7.4	6.1	6.1	5.0	5.8	5.2	5.3
REBEL II	5.4	6.5	6.4	6.1	6.8	5.9	6.9	6.4	6.0	7.2	5.4	6.9	4.6	6.8	7.1	6.4	6.1	5.4	5.7	5.5	5.1
BONANZA	5.2	6.2	6.5	6.0	6.7	5.6	6.6	6.4	6.0	7.5	5.4	6.9	4.8	6.8	7.1	6.1	6.1	5.1	6.1	5.8	5.4
WRANGLER	5.4	6.1	6.7	6.0	6.7	5.4	6.3	6.2	6.2	7.3	5.9	7.0	4.7	6.9	6.8	6.2	6.1	5.3	5.8	5.8	5.1
WINCHESTER	4.8	6.5	6.3	5.9	6.7	4.4	6.8	6.6	6.1	7.0	5.7	6.6	4.6	7.0	7.2	6.0	5.9	5.4	6.0	5.6	5.1
MAVERICK II	5.1	6.3	6.5	6.1	6.7	4.0	6.8	6.3	5.6	7.1	5.7	6.7	4.1	7.3	7.2	5.7	6.0	4.8	5.7	5.9	5.5
CHIEFTAIN	4.7	6.4	6.3	6.1	6.7	4.0	6.5	6.3	6.1	7.2	5.4	6.9	4.5	7.1	6.9	6.5	5.9	5.3	6.0	5.6	5.2
MESA	5.3	6.5	6.2	6.0	6.7	5.9	7.0	7.1	6.0	7.5	5.4	6.6	4.8	6.9	7.2	6.2	6.0	5.4	5.8	5.5	5.0
ANTHEM	5.1	6.4	6.4	6.1	6.7	3.6	6.9	6.8	6.7	7.4	5.3	6.6	4.5	7.2	6.9	5.6	5.9	5.5	6.5	5.0	5.8
TRAILBLAZER	4.3	6.2	6.6	6.1	6.8	4.2	5.7	6.2	5.8	7.1	5.3	6.7	4.5	7.4	7.1	5.7	5.9	5.4	6.2	5.3	5.7
ARRIBA	5.2	5.9	6.8	6.1	6.7	3.2	6.6	6.6	5.9	7.0	5.7	6.7	4.6	7.0	6.6	6.2	5.5	5.0	5.8	6.1	5.3
SILVERADO	5.0	6.3	6.8	6.1	6.7	3.7	6.6	6.2	6.0	6.8	5.4	6.4	4.5	7.3	7.1	5.8	5.8	5.1	6.0	5.5	6.3
OLYMPIC	5.3	6.5	6.0	6.0	6.7	5.2	6.4	6.1	5.8	7.3	5.3	6.9	4.3	6.9	7.1	6.0	6.2	5.2	5.5	5.9	4.9
JAGUAR II	5.0	6.2	6.3	6.0	6.8	4.2	6.9	6.6	6.4	7.1	5.2	6.8	4.4	6.8	7.0	6.4	6.6	5.2	5.7	5.4	4.7
TRADITION	5.8	6.3	6.1	6.0	6.8	4.4	6.9	6.7	6.2	7.1	5.1	6.7	4.7	6.9	7.2	6.0	5.9	4.8	5.7	5.2	4.8
TWILIGHT	5.9	6.8	6.3	5.9	6.7	3.2	6.0	6.4	6.4	6.3	—	6.4	4.5	8.2	6.9	5.7	5.8	4.9	7.2	5.3	5.4
SUNDANCE	4.9	6.4	6.0	6.1	6.7	4.4	6.5	6.7	5.8	7.2	5.6	6.6	4.6	7.1	7.1	5.8	6.1	4.9	6.0	5.8	5.3
APACHE	5.7	6.3	6.2	5.9	6.7	4.2	6.5	6.8	5.9	7.3	5.7	6.8	4.6	7.2	7.1	5.9	5.8	4.7	5.8	6.1	4.8
TITAN	5.0	6.3	5.8	6.0	6.7	5.4	7.0	6.5	6.4	7.1	5.6	6.7	4.6	6.7	7.0	6.3	6.0	5.6	5.5	5.3	4.6
BARNONE	5.0	6.3	6.4	6.0	6.7	5.7	7.0	6.6	6.2	7.0	—	6.6	4.7	6.9	7.1	5.8	5.5	4.9	5.9	5.9	4.6
TAURUS	5.3	6.5	6.4	6.1	6.7	3.8	6.4	6.4	5.9	7.0	5.6	6.6	4.6	6.8	6.9	6.3	5.9	4.9	5.7	5.8	5.2
BRAHMA	5.5	6.0	6.5	6.1	6.6	3.9	6.2	6.3	5.9	6.7	5.5	6.9	4.6	7.0	7.2	6.0	6.3	5.0	5.9	6.3	5.3
CIMARRON	5.1	6.4	6.4	5.9	6.8	4.3	6.3	6.6	6.2	7.2	5.4	6.6	4.3	6.9	7.4	6.1	6.2	4.8	5.8	5.2	4.7
ARID	5.8	6.2	6.1	6.1	6.7	4.8	6.8	6.3	6.2	6.8	5.7	6.6	4.6	6.6	6.5	5.9	6.0	5.1	5.5	5.5	4.5
FINELAWN 5GL	5.0	5.8	6.1	6.0	6.7	6.0	6.6	6.5	6.0	6.7	4.8	6.9	4.8	6.6	6.7	5.8	5.6	5.1	5.4	5.5	4.1
JAGUAR	4.5	6.2	6.1	6.1	6.7	4.8	7.0	6.4	5.8	7.5	5.2	6.9	4.6	6.8	6.4	6.0	5.6	5.7	5.4	5.5	4.5
REBEL	5.3	6.0	6.2	6.0	6.7	5.9	6.3	6.2	6.2	6.8	4.9	6.6	4.6	6.6	6.6	6.0	6.0	5.2	5.5	5.3	4.4
CAREFREE	4.5	6.5	6.1	6.0	6.8	4.8	5.6	6.3	6.3	7.0	5.7	6.7	4.6	7.1	7.0	5.8	6.1	5.1	5.4	5.9	4.6
MURIETTA	4.3	6.0	6.9	6.2	6.7	4.1	6.2	6.2	5.4	6.9	5.3	6.7	4.3	7.1	6.9	5.8	5.8	5.0	5.9	6.0	5.0
TRIDENT	4.7	6.4	6.0	5.9	6.7	4.9	6.3	6.6	6.1	7.1	5.6	6.6	4.2	6.7	6.8	6.0	5.8	5.1	5.6	5.4	4.2
ADVENTURE	4.7	6.2	6.3	6.0	6.5	5.3	6.5	6.0	6.0	7.2	5.8	6.8	4.5	6.8	6.5	5.9	5.5	4.6	5.4	5.6	3.8
EMPEROR	4.6	6.2	6.4	6.2	6.7	2.6	6.4	5.9	5.1	6.3	6.1	6.4	4.5	7.2	6.9	5.9	6.1	4.7	6.0	5.2	5.3
FALCON	4.5	6.0	5.7	5.9	6.6	4.3	6.7	6.3	5.4	6.8	5.4	6.2	4.6	6.5	6.2	6.0	6.1	4.6	5.4	5.2	3.7
PACER	5.2	5.7	5.5	5.8	6.6	5.2	6.6	6.2	6.0	6.6	5.4	6.3	4.5	6.5	6.2	5.8	5.6	4.8	5.5	5.0	3.8
FINELAWN I	5.3	6.0	5.8	5.6	6.5	5.7	6.4	6.1	6.2	6.7	4.8	6.5	4.4	6.2	6.3	5.8	5.9	5.0	5.1	5.2	3.4
WILLAMETTE	5.2	6.2	5.7	5.8	6.6	4.8	5.9	6.1	5.7	6.5	5.3	6.7	4.4	6.2	6.7	5.9	6.1	5.2	5.4	4.1	3.4
RICHMOND	4.7	6.1	5.6	5.8	6.6	4.4	6.1	5.8	6.0	6.7	5.2	6.2	4.6	6.3	6.4	5.6	5.8	4.9	5.2	5.2	3.6
AQUARA	5.1	6.0	5.3	5.9	6.6	4.7	6.2	6.1	5.7	6.3	5.0	6.4	4.4	6.3	6.5	5.4	5.7	4.7	5.2	4.9	3.4
FATIMA	5.0	6.1	5.3	5.8	6.4	4.9	6.5	6.1	6.0	6.5	5.3	6.0	4.4	6.1	6.2	5.8	5.8	5.2	5.0	5.2	3.3
TIP	5.1	6.1	5.7	5.9	6.6	4.3	5.8	5.9	5.7	6.5	5.0	6.0	4.2	6.3	5.8	5.7	5.8	5.1	4.9	4.3	3.0
K4-31	4.4	5.6	4.7	5.0	5.6	6.0	5.2	5.6	5.3	6.0	5.1	5.7	4.2	5.3	5.3	5.1	5.3	4.4	4.4	4.3	2.3
LSD	0.6	0.6	0.3	0.2	0.3	1.7	0.6	0.7	0.7	0.5	1.1	0.3	0.5								

1991 FINAL REPORT																					
1989 TALL-FESCUE TEST QUALITY RATINGS COMMERCIALY- AVAILABLE CULTIVARS	Adelphia, N.J.	Martinsville, N.J.	Ithaca, N.Y.-C	Ithaca, N.Y.-D	Marysville, Ohio	Stillwater, Okla.	Hubbard, Ore.	Corvallis, Ore.	Kingston, R.I.	Dallas, Tex.-D	Dallas, Tex.-C	Beltsville Md.-A	Beltsville, Md.-B	Blacksburg, Va.	Blackstone Va.	Richmond, Va.	Va. Beach Va.	Norton, Va.	Ritzville, Wash.	Yakima, Wash.	MEAN
HUBBARD '87	7.2	5.7	5.7	6.1	7.1	5.6	6.8	5.6	6.2	5.1	5.1	7.7	6.9	6.4	6.0	5.9	6.5	4.8	6.8	3.7	6.2
SHENANDOAH	6.9	5.6	5.1	5.4	7.3	5.9	6.6	5.3	5.9	4.7	5.0	7.7	7.1	6.4	5.6	5.9	6.6	5.3	5.9	4.7	6.2
SAFARI	6.8	5.8	5.3	5.5	7.1	5.6	6.5	5.1	6.3	4.7	5.2	7.5	6.8	5.9	5.6	5.7	6.0	4.4	6.9	6.7	6.1
GUARDIAN	7.0	5.7	4.9	5.4	6.9	5.5	6.6	5.3	5.6	4.7	5.2	7.7	6.9	6.2	5.5	5.7	6.4	4.7	6.9	4.7	6.0
AUSTIN	6.0	5.1	5.2	5.6	6.8	5.5	5.8	5.1	6.2	4.9	4.8	7.4	6.7	6.2	5.1	5.6	5.8	5.0	—	5.3	6.0
COCHISE	6.8	5.5	5.1	5.6	6.7	5.3	6.4	5.1	6.0	4.8	4.6	7.6	7.1	6.0	5.2	5.8	6.3	4.4	5.1	5.7	6.0
AZTEC	6.6	5.9	4.7	5.2	6.8	5.3	6.4	4.9	5.9	5.2	4.7	7.7	7.0	6.0	5.4	5.7	6.2	4.5	6.0	7.3	6.0
MONARCH	6.5	5.6	4.8	5.0	6.8	5.4	6.5	5.1	6.3	4.6	4.7	7.5	6.9	6.1	5.2	5.9	6.2	4.5	4.8	7.7	6.0
AMIGO	6.1	5.4	5.3	5.6	7.0	5.1	6.9	5.2	6.1	5.1	4.8	7.5	6.8	6.1	5.6	5.6	6.3	4.5	5.6	5.3	6.0
CROSSFIRE	6.8	5.6	4.7	5.7	6.8	6.0	6.4	4.8	6.3	4.8	5.0	7.5	6.9	6.0	5.5	5.5	6.3	4.2	5.1	3.7	6.0
AVANTI	6.6	5.5	4.6	5.4	6.7	5.5	6.6	5.2	5.9	5.0	4.8	7.5	7.1	6.0	5.6	5.6	6.1	4.7	6.3	5.0	6.0
VEGAS	6.9	5.6	4.8	5.0	6.5	5.4	6.5	5.0	5.6	5.0	5.1	7.6	7.1	5.8	5.7	5.7	6.4	4.7	5.9	4.3	5.9
TRIBUTE	5.8	5.0	4.5	4.9	6.9	5.7	6.1	5.0	6.2	5.0	4.7	7.4	6.8	6.1	5.6	5.7	6.3	4.8	5.3	3.7	5.9
PHOENIX	5.9	5.0	4.8	5.5	7.0	5.5	6.0	5.2	6.1	4.8	5.1	7.2	6.7	6.2	5.6	5.7	5.9	4.9	5.7	2.3	5.9
THOROUGHbred	5.8	5.3	4.6	4.7	6.9	5.6	5.7	5.2	6.3	4.1	4.8	7.2	6.6	6.0	5.3	5.5	6.0	4.8	6.6	5.7	5.9
ELDORADO	6.8	5.3	4.5	5.1	6.6	5.4	6.2	5.0	5.4	4.6	5.0	7.5	6.9	5.7	5.8	5.7	5.8	5.1	4.7	4.3	5.9
SHORTSTOP	6.3	5.5	4.5	4.6	6.5	5.3	6.4	5.0	5.1	4.5	4.7	7.6	7.0	6.0	5.5	5.8	6.4	4.4	6.0	6.3	5.9
OLYMPIC II	5.5	5.2	4.9	5.3	6.9	5.7	6.1	4.8	6.0	5.0	5.1	7.2	6.4	5.8	5.5	5.6	6.1	5.3	6.2	5.3	5.8
REBEL II	5.3	5.4	4.7	5.1	7.0	5.5	6.0	4.9	6.5	4.6	4.7	7.2	6.5	6.2	5.6	5.4	6.1	4.9	5.3	4.3	5.8
BONANZA	5.6	4.9	4.8	5.1	7.4	5.6	6.0	4.8	6.0	5.0	4.7	7.4	6.7	5.9	5.1	5.6	6.2	4.9	5.3	4.0	5.8
WRANGLER	5.7	5.2	5.0	5.2	7.0	5.6	6.2	5.2	5.8	4.7	4.6	7.3	6.4	6.0	5.4	5.4	6.1	5.1	4.4	4.7	5.8
WINCHESTER	6.1	5.0	4.2	4.9	6.9	5.5	5.4	4.9	6.1	4.9	4.5	7.3	6.7	5.9	5.6	5.7	5.9	5.3	5.6	6.7	5.8
MAVERICK II	6.5	5.4	4.8	5.3	6.5	5.6	5.9	4.6	6.0	5.0	4.7	7.3	6.8	5.8	5.5	5.5	6.3	5.3	6.7	4.0	5.8
CHIEFTAIN	5.9	5.4	4.9	5.6	7.3	5.6	6.2	5.1	6.3	4.8	4.4	7.2	6.5	5.9	5.6	5.7	6.1	4.9	5.7	3.3	5.8
MESA	5.5	4.5	4.5	4.7	6.9	5.5	5.8	4.9	5.5	4.5	4.8	7.1	6.6	6.0	5.0	5.5	6.1	4.9	5.0	5.7	5.8
ANTHEM	6.9	5.3	4.1	4.8	6.7	5.2	6.2	5.0	5.7	4.5	4.5	7.5	6.7	5.9	5.2	5.6	6.2	4.1	6.7	2.7	5.8
TRAILBLAZER	6.0	5.1	4.8	5.4	7.2	5.8	6.3	5.5	5.5	5.4	4.8	7.2	6.7	5.6	5.0	5.3	5.6	4.7	6.1	4.3	5.8
ARRIBA	6.3	5.2	4.7	5.2	6.8	5.6	6.0	5.2	6.1	4.8	4.6	7.3	6.3	6.1	5.3	5.6	6.2	4.5	4.4	5.7	5.8
SILVERADO	6.6	5.0	4.3	4.9	6.6	5.6	6.8	4.9	6.0	4.7	4.3	7.5	6.6	5.9	5.3	5.3	5.9	3.9	5.3	4.7	5.7
OLYMPIC	5.1	4.7	5.1	5.3	6.9	5.4	5.6	5.1	6.0	4.6	4.8	7.0	6.3	5.7	5.3	5.8	5.5	4.7	6.3	5.0	5.7
JAGUAR II	5.2	4.7	4.7	5.2	6.7	5.7	6.1	5.2	6.1	4.5	4.6	7.1	6.6	6.2	5.0	5.2	5.8	4.6	5.3	5.0	5.7
TRADITION	5.6	4.9	4.5	5.1	6.9	5.6	5.6	5.1	5.5	4.8	4.3	7.2	6.3	5.9	5.4	5.3	6.1	4.4	5.7	5.7	5.7
TWILIGHT	6.0	5.0	3.8	4.7	6.8	5.2	4.9	4.6	5.3	5.3	5.0	7.2	6.5	5.4	5.0	5.3	5.6	4.3	6.6	5.3	5.7
SUNDANCE	5.4	5.2	4.0	4.4	6.8	5.6	5.4	4.8	5.6	4.7	4.4	7.1	6.4	5.7	5.3	5.8	5.8	4.8	5.4	5.7	5.7
APACHE	5.1	4.9	4.6	5.0	7.0	5.5	5.6	5.1	5.8	4.9	4.3	6.9	6.7	5.9	5.7	5.4	5.6	5.2	6.5	2.0	5.7
TITAN	5.1	4.8	4.3	4.7	6.8	5.7	5.3	4.8	5.5	4.5	4.6	6.8	6.3	5.9	5.6	5.6	6.0	5.2	5.2	4.3	5.7
BARNONE	5.1	4.9	4.3	5.0	6.9	5.2	5.9	4.9	5.3	5.0	4.8	7.3	6.5	5.8	5.3	5.1	5.7	4.4	5.2	3.7	5.7
TAURUS	4.8	5.1	4.6	4.6	6.8	5.6	5.5	4.9	5.0	5.0	4.9	7.2	6.1	5.7	5.5	5.1	5.7	5.2	6.0	4.7	5.7
BRAHMA	5.7	4.8	4.5	5.0	6.7	5.4	5.9	4.9	5.1	4.8	4.8	7.1	6.5	5.4	5.4	5.4	5.3	4.4	5.2	4.3	5.7
CIMARRON	5.3	4.5	4.7	5.1	7.0	5.3	5.4	4.5	5.5	5.0	4.9	7.3	6.6	5.7	5.4	5.4	5.2	4.6	4.7	5.3	5.7
ARID	4.5	4.5	4.6	5.2	6.3	5.7	5.3	5.0	5.7	5.0	4.5	6.7	6.2	5.6	5.4	5.3	5.8	4.7	5.4	5.0	5.6
FINELAWN 5GL	4.7	4.6	4.3	4.9	7.1	5.5	5.6	5.0	5.2	4.9	4.3	6.9	6.3	5.8	5.5	5.5	5.8	5.2	5.8	5.0	5.6
JAGUAR	4.5	4.5	4.6	4.8	7.0	5.5	5.5	5.2	6.2	4.9	4.8	6.9	6.1	5.9	5.3	5.3	5.7	4.3	5.4	4.7	5.6
REBEL	4.3	4.3	4.7	5.1	6.6	5.5	5.0	5.1	6.0	4.7	4.5	6.8	6.1	5.9	5.3	5.2	5.5	4.7	5.7	5.3	5.6
CAREFREE	4.8	4.6	4.1	4.8	6.5	5.3	5.3	5.1	5.2	4.2	4.5	6.9	6.4	5.4	4.9	5.2	5.6	4.9	6.2	5.7	5.6
MURIETTA	5.5	4.7	4.3	4.8	6.8	5.3	5.9	4.9	5.5	4.5	4.0	7.2	6.4	5.3	4.7	5.0	5.9	4.6	6.0	4.3	5.6
TRIDENT	5.3	3.6	4.5	4.6	6.6	5.2	5.3	5.1	4.9	4.8	4.8	7.1	6.3	5.4	5.3	5.0	5.4	4.8	5.7	4.3	5.5
ADVENTURE	4.2	4.5	4.5	5.1	6.9	5.1	5.6	5.1	5.5	5.0	4.3	6.6	5.8	5.5	5.2	5.3	5.3	4.5	5.1	3.7	5.5
EMPEROR	5.7	4.7	3.8	4.3	6.3	5.2	5.8	4.6	5.3	4.6	4.7	7.1	6.8	5.6	4.7	5.3	5.8	3.8	4.8	5.0	5.5
FALCON	3.9	4.1	4.4	4.8	6.9	5.5	4.9	4.9	5.4	4.8	5.0	6.4	5.8	5.6	5.3	5.3	5.5	4.8	5.2	6.3	5.4
PACER	3.6	4.2	4.1	4.4	6.4	5.6	4.5	4.8	4.8	4.7	4.7	6.6	5.6	5.2	5.1	4.9	5.4	4.7	5.7	5.3	5.4
FINELAWN I	3.9	3.8	3.9	4.3	6.8	5.5	4.7	5.0	5.5	4.6	4.3	6.4	5.6	5.3	5.2	5.0	5.4	4.9	4.4	3.7	5.3
WILLAMETTE	3.9	3.3	4.3	4.7	6.9	5.3	4.7	4.7	4.7	4.7	4.4	6.4	5.7	5.3	4.8	5.1	5.1	4.7	6.1	3.0	5.3
RICHMOND	3.6	4.0	4.1	4.6	6.2	5.3	4.7	4.6	5.1	4.3	4.8	6.5	5.6	5.2	4.7	4.8	5.3	4.6	5.4	3.3	5.2
AQUARA	3.6	3.7	3.9	4.2	6.8	5.2	4.5	4.7	4.1	4.5	4.6	6.0	5.8	5.2	5.0	5.1	5.2	4.4	5.1	5.0	5.2
FATIMA	3.3	3.6	4.0	4.4	6.4	5.5	4.5	4.7	4.6	4.4	4.3	6.3	5.5	5.6	5.0	5.3	5.2	4.6	5.6	1.7	5.2
TIP	3.3	3.5	3.6	4.0	6.4	5.5	4.6	4.9	4.9	4.6	4.8	6.3	5.6	5.2	5.1	5.0	5.0	4.6	5.4	5.0	5.1
K4-31	2.4	3.1	3.5	3.9	6.4	5.4	3.4	4.6	4.1	4.4	4.2	5.1	4.6	5.0	5.1	4.5	4.4	4.3	4.3	3.7	4.7
LSD	0.5	0.4	0.6	0.5	0.5	0.5	0.4	0.6	0.8	0.8	0.9	0.4	0.3	0.3	0.5	0.5	0.3	0.7	1.1	2.9	0.1