Grass Variety Description Summary Page

I. General Varietal Information

Variety Name: Mesa Verde **Experimental Designation:** APR2639

Kind (Common): Perennial Ryegrass Genus: Lolium Species: perenne

Ploidy Level for Ryegrass: Diploid

Percentage apomixis for apomictic varieties: NA Recommended: April 2025 Amended (name change only): March 2026

II. Breeding History

Origin of APR2639

APR2639 was developed from recurrent phenotypic selections. Selection criteria were made for general impression, freedom from disease, seed yield potential, heading date and uniformity. APR2639 was developed from Plant accessions and released cultivars; Algeria, Argentina, Belgium, Canada, Denmark, France, Greece, Germany, Hungary, Ireland, Italy, Japan, Morrocco, Netherlands, New Zealand, Poland, Romania, Sweden, Switzerland, Turkey, United Kingdom, Yugoslavia, Amazing, ASP410, Brightstar, Prowler, and Saint.

III. Probable Adaption & Purposes

APR2639 has been selected for turf, and may be used for all turf applications where diploid cool-season Perennial Ryegrass would be applicable.

Turf Use	Turf Quality		Cover		Genetic Color		Density	
	2020/Albany OR	2021/Albany OR	2020/Albany OR	2021/Albany OR	2020/Albany OR	2021/Albany OR	2020/Albany OR	2021/Albany OR
APR2639	6.91	5.77	7.75	7.54	6.94	5.84	6.42	3.45
Soprano	7.05	5.98	7.94	8.11	7.17	6.16	6.40	3.22
Pop	6.95	5.41	7.89	7.42	7.70	6.25	5.97	2.98
Penguin	6.72	5.34	7.69	6.87	6.81	5.62	6.04	3.58
Legato	6.85	5.71	8.19	7.65	7.87	6.46	6.48	3.31
Trial Mean	6.87	5.66	7.89	7.65	7.18	6.05	6.15	3.28
Trial High	7.24	6.05	8.19	8.25	8.00	7.10	6.82	3.68
Trial Low	6.47	5.09	7.34	6.85	6.15	4.92	5.44	2.83
LSD (0.05)	0.24	0.28	0.16	0.32	0.22	0.30	0.42	0.30
CV	2.59	3.65	1.54	3.13	2.27	3.68	5.07	6.79
	Scale used to report traits (if appropriate): 1-9		Scale used to report traits (if appropriate): 1-9		Scale used to report traits (if appropriate): 1-9		Scale used to report traits (if appropriate): 1-9	

Turf characteristics of Perennial Ryegrass cultivars grown in full sun in Albany, OR. The trial was sown in September 2019. Mowing height was 1.5 inches. The trial received 5 pounds of actual nitrogen per year/1000 sq. ft (balanced fertilizer). Trial design was a randomized complete block consisting of 113 entries replicated 3 times. Data was analyzed using analysis ofvariance for a randomized complete block design. Means were calculated for each replication. Plots were rated on a 1-9 scale. 9 = highest cover, darkest green, most dense, most uniform, and highest quality. 2020 and 2021 data are presented here. N=113.

Growth & Morphology Traits	1. Heading Date When 50% of the plants in the variety have at least three heads emerged from the boot Note: Other measurements of relative maturity may be substituted if properly described and justified (see F)		2. Mature Plant Height (cm)		3. Flag Leaf Height* (cm)	
	2023/Albany OR	**2024/Albany** OR	**2023/Albany** OR	**2024/Albany** OR	**2023/Albany** OR	**2024/Albany** OR
APR2639	20-May	22-May	50.83	54.97	27.67	32.33
Saint	11-May	13-May	62.47	62.05	29.90	34.61
Amazing	19-May	18-May	54.60	54.53	28.50	32.02
Manhattan II	12-May	13-May	61.70	60.90	29.57	34.13
Chivalry	19-May	20-May	57.03	58.13	32.10	33.83
Trial Mean	19-May	19-May	55.54	55.90	28.89	32.76
Trial High	22-May	23-May	62.47	62.05	32.10	36.57
Trial Low	11-May	13-May	50.83	50.93	26.40	29.95
LSD (0.05)	1.23	1.88	3.56	3.58	3.01	2.88
CV	1.82	2.76	7.44	6.28	7.44	6.28
	4. Flag Leaf Blade Length* (cm)		**5. Flag Leaf Width* (mm)**		**6. Inflorescence Length in (cm)**	
	2023/**Albany** OR	2024/**Albany** OR	2023/**Albany** OR	2024/**Albany** OR	2023/**Albany** OR	2024/**Albany** OR
APR2639	22.30	20.23	5.07	3.33	33.77	33.53
Sant	25.20	24.97	5.53	2.98	43.43	41.70
Amazing	23.43	20.53	5.03	3.08	35.87	33.60
Manattan II	25.80	23.98	5.57	3.43	42.47	40.20
Chivalry	24.37	22.60	5.40	3.08	34.97	35.90
Trial Mean	22.94	20.79	5.09	3.09	36.71	34.48
Trial High	26.07	24.97	5.57	3.45	43.43	41.70
Trial Low	19.70	17.50	4.60	2.58	33.27	30.93
LSD (0.05)	1.56	2.16	0.36	0.46	2.62	2.65
CV	4.84	7.43	5.09	5.49	5.09	5.49

Planting Method for Data Collection

Spaced single plants X Plants in rows/solid seeding

Variants

2.50% Taller plants with wider leaves.

Part V. Stock Seed Maintenance and Limitations of Generations

A supply of breeder seed is maintained in cold storage at NexGen Plant Science Center in Jefferson, Oregon. Foundation fields may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered seed. Foundation and Registered class fields will be limited to three harvests of Foundation or Registered production followed by two years of Certified class production. Certified class fields will be limited to five years of seed production. Additional years of seed production may be approved by the breeder or an individual designated by the breeder.

Type of Breeder's Seed Maintenance: Synthetic Continued Population X Apomictic

Part VI. Certification Information

If this variety is recommended as eligible for certification by official seed certifying agencies, when will certified seed likely be first offered for sale? Certified seed will be first offered for sale by 2025.

Will PVP be sought? No