



FINE LEAF TEXTURE



COLD TOLERANT



LOW MAINTENANCE



SHADE TOLERANT



LESS FERTILIZER



Annual Ryegrass

QUICK FACTS

**AXCELLA 2** is the second generation of commercially available annual ryegrass recommended exclusively for turfgrass. It was developed from unique dwarf annual ryegrass plants that exhibit greater shoot density, narrower leaf blades, less vertical leaf growth, and a darker green leaf color than standard annual ryegrass cultivars. **AXCELLA 2** exhibits strong seedling vigor for a weed free turf and requires less pesticide use. **AXCELLA 2** has similar or better overseeded turf quality than most intermediate ryegrasses in 1/2" cut fairway trials.



ADAPTATION

**AXCELLA 2** has been used in seed mixtures blended with Perennial Ryegrass to provide quick cover for heavily worn areas in sports fields.

**AXCELLA 2** is also seeded on its own in the fall or winter as it is able to germinate at 5° C. This has been especially useful on athletic fields that receive almost constant playing pressure, and in those situations where turf is needed on very short notice.

- FAST COOL SEASON GERMINATION
- FINE TEXTURE
- SLOW GROWTH
- HIGH TILLER DENSITY
- DARK GREEN COLOR

TRIAL DATA

Philomath Oregon Turf Trial:  
Spring height in inches at first mowing,  
2004 and 2005 trial average

Variety	Species	Height
Axcella 2	Annual	4.96
Transist	Intemed.	6.22
Gulf	Annual	11.10

Height at first mowing is representative of turf growth rate, with shorter height equating to slower growth rates, less frequent mowing, and less clippings.

Trials were sown in October of the respective year and measurements were taken in February.

SEEDING RATES

New Lawn:  
10-12 lbs per 1,000 sq ft  
Overseeding Tees:  
20-25 lbs per 1,000 sq ft  
Overseeding Fairways/Lawns:  
15 lbs per 1,000 sq ft

Growth Habit	Estab. Rate Days	1/2" cut Tolerance	Mowing Frequency	Traffic Tol. (Brinkman)	Thatch Production	Nitrogen Required	Shade Tolerance	Cold Tolerance	Drought Tolerance	ET Rate mm/day	Endophyte	Salinity Tol. mmhos
Bunch	Fast 4-7	Good	2x week	Good	None	Good	Very Good	Fair-Good	Fair	High 10-11	No	6 Poor

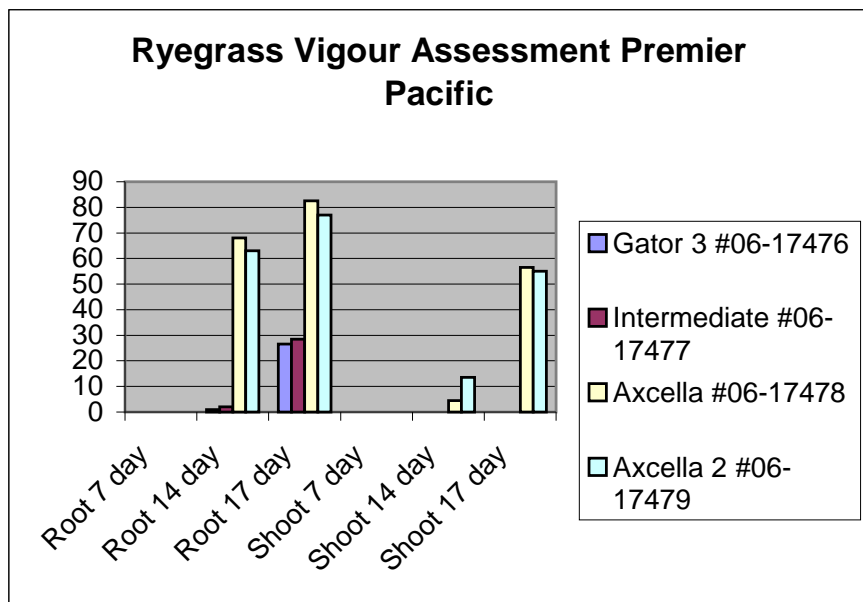


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### Premier Pacific Ryegrass Vigour Assessment at 7° C

Variety	Gator 3	Intermediate	Axcella	Axcella 2
Lab #	#06-17476	#06-17477	#06-17478	#06-17479
Root 7 day	0	0	0	0
Root 14 day	1	2	68	63
Root 17 day	26.5	28.5	82.5	77
Shoot 7 day	0	0	0	0
Shoot 14 day	0	0	4.5	13.5
Shoot 17 day	0	0	56.5	55



Notes: Results expressed as a percentage of 200 seeds per treatment. Lots were assessed under cool stress conditions and roots and shoots measured at 5mm or greater. Warm germ was assessed early and only vigorous healthy seedlings counted. Warm germ percentage at 7 days is likely a fair vigour assessment figure in most conditions. Cool stress shows quick response of some seed lots under stress conditions of 7 degrees.

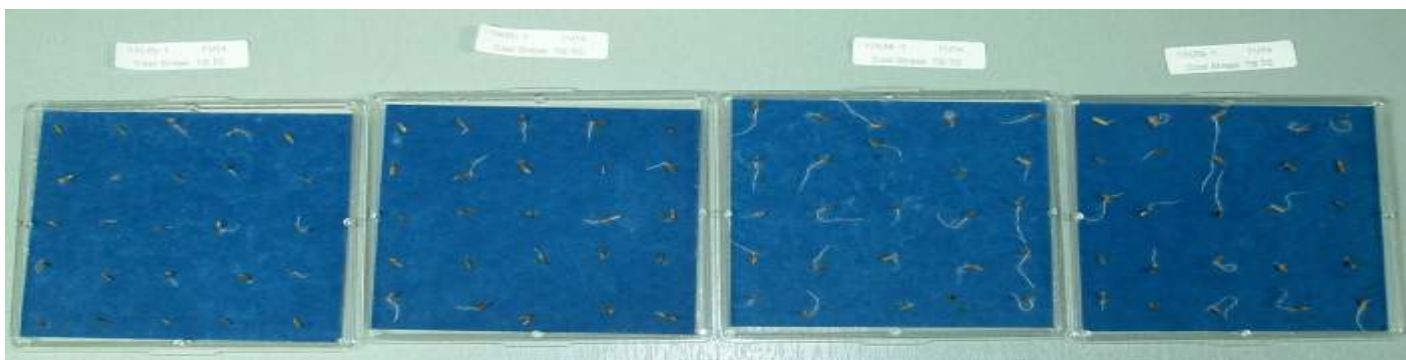


Photo of Lots at 21 days 7 degrees in order as listed above.