



Orchardgrass

N.J. Ehlke and D.J. Vellekson
Varietal Trials Results, January 2007



Orchardgrass is often used in hay and pasture mixes with other grasses and legumes because it establishes rapidly and recovers quickly after grazing or harvesting. Its major limitation is a lack of winter-hardiness, but in areas with reliable snow cover it can persist and remain productive for many years.

Orchardgrass varieties were established in pure stands in 1998, 2002 and 2005 at Rosemount, and in 1998 and 2002 at Grand Rapids.

Experimental plots were generally harvested three times per year at Rosemount and two or three times per year at Grand Rapids. Nitrogen was applied in the early spring and after each harvest at a rate of 50 pounds per acre for each application.

Dry matter yield of orchardgrass, in tons dry matter per acre, of orchardgrass varieties seeded at two locations.

Variety	% Heading 5/30/2006	Rosemount			Grand Rapids	
		1999-02	2003-05	2006	1999-01	2004-05
AC Nordic	—	3.4	—	—	3.7	—
Albert	3	—	—	4.2	3.9	—
Ambassador	—	—	—	—	3.6	—
Bengal	—	3.5	—	—	—	—
Condor	—	—	—	—	3.8	—
Crown	—	—	—	—	—	—
Dawn	—	—	—	—	—	—
Duke	8	3.5	3.7	4.0	3.8	1.6
Elsie	—	3.4	—	—	3.5	—
Extend	—	—	3.6	—	—	1.6
Haymate	—	—	—	—	3.7	—
Hawkeye	—	3.8	3.8	—	3.9	1.6
Justus	16	3.5	3.4	4.2	3.4	1.5
Kayak	50	—	—	4.0	—	—
Megabite	—	3.8	3.8	—	3.7	1.7
Mammoth	—	3.7	—	—	—	—
Napier	3	—	—	3.9	—	—
Orbit	—	—	—	—	—	—
Orion	—	3.7	3.5	—	4.1	1.4
Potomac	3	3.3	3.8	4.2	—	1.3
Shawnee	—	—	—	—	3.0	—
Sterling	—	—	—	—	—	—
Warrior	6	3.5	3.4	4.5	—	1.5
LSD 5%	12	0.2	NS	NS	0.4	NS

Orchardgrass Planting Rate and Date

Bushel Weight, Pounds.....	14
Seeds/Pound.....	653,000
Planting Rate, Pounds/Acre	
Alone.....	10
In Mixtures.....	3
Planting Rate, Seeds/Sq. Ft.	
Alone.....	150
In Mixtures.....	45
Planting Date	
Alone... Early Spring or Late Summer	
In Mixtures..... Use Date for Legume	