



Orchardgrass Variety Trial Three-year Summary Royal Slope, WA

<u>Variety</u>	<u>2002 total yield</u> (2 cuts)	<u>2003 total yield</u> (3 cuts)	<u>2004 total yields</u> (4 cuts)	<u>3-yr Total</u>
Icon	3.7	7.2	7.1	18
Century	3.7	7.5	6.6	17.8
Potomac	3.8	7.4	6.6	17.8
Crown Royale	3.8	7.2	6.2	17.2
Benchmark	3.5	7.3	6.2	17
Bronc	3.7	6.7	6.0	16.4
Pizza	3.5	6.7	6.3	16.5
Quantum	3.6	6.3	5.5	15.4
Mean	3.7	7.3	6.3	17.2
Isd(.05)	ns	ns	1.0	1.6
CV%	10	11	9	8

Significant differences in forage yield were measured between varieties in 2004. 2004 has been the best year of the trial in terms of data quality.

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Orchardgrass Variety Trial

2004 Forage Quality Summary

Four Cut Averages

<u>Variety</u>	<u>%CP</u>	<u>%ADF</u>	<u>%NDF</u>	<u>%NDFD</u>	<u>RFQ</u>
Bronc	19.3	30.4	52.2	67.4	122
Quantum	19.7	31.1	57.8	68.3	119
Icon	18.7	31.6	55.8	66.7	118
Potomac	18.8	31.5	56.7	65.9	117
Benchmark	18.8	32.0	56.6	66.8	117
Century	19.6	31.2	55.7	67.9	116
Pizza	19.1	31.6	55.8	66.5	116
Crown Royale	18.9	31.8	56.3	66.5	116
Mean	16.5	31.4	55.5	67.1	117
LSD (.05)	ns	ns	ns	ns	ns
CV%	10	6	8	6	9

CP = Crude protein.

ADF = Acid Detergent Fiber. ADF provides an estimate of digestibility. The lower the ADF, the more digestible.

NDF = Neutral Detergent Fiber. NDF provides an estimate of intake. The lower the NDF, the more of the forage an animal will consume.

NDFD = Neutral Detergent Fiber Digestibility. Forages differ in the digestibility of the NDF. The higher the NDFD, the more digestible is the NDF. NDFD is used in the calculation of the RFQ index.

RFQ = Relative Forage Quality. RFQ is an index that combines digestibility of the NDF fraction, digestible protein, digestible non-fiber carbohydrates and dry matter digestibility. It has advantages over the RFV index in that it takes into account the effects that cool vs. warm growing conditions have on the digestibility of plant fiber. RFQ can be used in a similar way as RFV.