



2002–2005 Orchardgrass Variety Trial Four-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 yield</u> (4 cuts)	<u>2005 total yield</u> (3 cuts)	<u>4-yr Total</u>
Icon	3.7	7.5	7.1	7.0	25.3
Century	3.7	7.8	6.6	7.1	25.3
Crown Royale	3.8	7.2	6.2	7.0	24.1
Potomac	3.8	7.4	6.6	6.2	24.0
Benchmark	3.5	7.5	6.0	6.4	23.4
Bronc	3.7	7.0	6.0	6.6	23.3
Pizza	3.5	6.7	6.3	6.2	22.7
Quantum	3.6	6.3	5.5	6.0	21.4
Mean	3.7	7.3	6.3	6.5	23.7
Isd(.05)	ns	ns	1.0	0.3	1.6
CV%	10	11	9	10	7

Significant differences in forage yield were measured between varieties in 2004 and 2005.

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ORCHARDGRASS VARIETY TRIAL

2005 Hay Yields

Royal Slope, WA

<u>Variety</u>	<u>Hay t/ac 100% Dry basis</u>			
	<u>May 23</u>	<u>July 13</u>	<u>August 29</u>	<u>3-Cut Total</u>
Century	3.5	1.6	2.0	7.1
Icon	3.6	1.5	1.8	7.0
Crown Royale	3.6	1.5	1.9	7.0
Bronc	3.3	1.6	1.7	6.6
Benchmark	3.5	1.3	1.6	6.4
Potomac	3.1	1.4	1.7	6.2
Pizza	3.2	1.3	1.7	6.2
Quantum	3.0	1.3	1.7	6.0
Mean	3.4	1.4	1.8	6.5
Lsd (.05)	ns	ns	0.2	0.3
CV%	11	22	12	10

Orchardgrass Variety Trial

Forage Quality, Maturity and Plant Color

<u>Variety</u>	<u>Three-Cut Averages, 2005</u>				<u>Maturity and Plant Color</u>	
	<u>%CP</u>	<u>%ADF</u>	<u>%NDF</u>	<u>RFQ</u>	<u>% Headed May 12, 2004</u>	<u>Plant Color ~ 2-year average</u>
Pizza	15.2	37.3	61.8	106	15	2.2
Potomac	15.9	37.2	62.4	106	35	1.3
Quantum	15.8	37.7	62.0	105	6	2.6
Century	16.0	36.8	62.0	104	47	1.4
Crown Royale	15.6	37.8	62.5	104	32	1.8
Bronc	16.6	36.0	61.8	104	18	2.3
Benchmark	17.1	36.0	62.2	100	37	1.8
Icon	17.7	36.2	60.8	100	40	1.9
Mean	16.2	37.0	61.9	104	29	1.9
LSD (.05)	2.5	ns	ns	ns	11	0.5
CV%	17	6	5	8	57	32

CP = Crude protein.

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

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

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.

~ Color scored 1-3, with 1 = blue green and 3 = bright green.