PROFIT orchardgrass

An Excellent Hay Type Orchardgrass

Profit orchardgrass is a late-maturing orchardgrass bred primarily for forage production. This means farmers should see very impressive dry matter production resulting in increased profits. **Profit** exhibits excellent rust resistance making it more favorable to animals for grazing and hay production. **Profit** also demonstrates excellent stand persistence.

Notable Characteristics:

- High forage production
- Superior diseases resistance
- Late-maturing
- Quick establishment
- Excellent rust resistance
- Persistent

Applications:

Profit can be use for hay applications as well as in beef, dairy and other production livestock pastures.

- **Orchardgrass Hay Produciton:** Plant **Profit** for a high tonnage high crop.
- **Aging Alfalfa Stand**: Plant **Profit** to extend stand longevity.
- **Pasture**: Plant **Profit** to provide late spring and summer forage production

Management:

Establishment under ideal growing conditions could be 6-7 weeks for a spring sowing and 10-12 weeks for a fall sowing. In a pure Profit stand, the first harvest you should be sure to leave 4-6 inches of residual. This will insure better persistence and regrowth.

Seeding Rates/Method of Seeding:

12 lbs./acre for 100% **Profi**t pastures. Seed with other grasses at the rate of 5-6 lbs./acre
Plant in a prepared, firm seedbed, seed with a seeder, or by broadcast and cultipack. Don't plant too deep. Planting depth of 1/8-1/4" is best.

Orchardgrass Variety Trial- Ohio, South Charleston, Sown 4-15-03

	Total				Relative Yield 2004-2005%	Harvest Maturity
Variety	2005	2004	2003	2003-05		
ORCA	5.97	7.12	3.03	16.12	110	6.30
Icon	6.04	7.10	2.97	16.11	110	5.30
Megabite	6.07	6.89	2.89	15.85	108	4.80
Profit	**5.84**	**6.93**	**3.05**	**15.82**	**108**	**4.80**
Command	5.86	6.80	2.95	15.61	106	4.50
Harvestar	5.47	6.78	3.21	15.46	105	2.00
Elise	5.59	6.77	3.08	15.44	105	6.50
ECF30	5.64	6.65	3.00	15.29	104	6.30
Pennlate	5.57	6.64	2.76	14.97	102	5.50
Athes	4.98	6.05	3.01	14.04	96	2.00
LG-31	5.02	6.22	2.63	13.87	94	2.40
Potomac	4.70	5.36	2.81	12.87	88	3.20
Abertop	3.18	4.09	2.23	9.50	65	2.40
LSD	0.41	0.52	N/A	1.07		

Maturity scale: 1=vegetative, 2= early boot, 3= initial emergence, 4= complete emergence, 5= elongated peduncle, 6= preanthesis, 7= anthesis, 8= post anthesis

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Tech Sheet

Arlington Agricultural Research Station, Arlington, WISCONSIN, USA						
Seeding of Cool Season Grasses		**2005 harvested yield(tons/acre)**				**2005**
Yield Trial						**Total^**
Specie	**Variety**	**27-Jun**	**8-Aug**	**15-Sep**	**5-Oct**	**ton/a**
Tall fescue	SEINE	0.47	1.75	1.53	1.54	5.30
Orchardgrass	HARVESTAR	0.63	1.46	0.90	1.29	4.28
Orchardgrass	**Profit**	**0.65**	**1.29**	**0.87**	**1.31**	**4.12**
Orchardgrass	TAKENA II	0.60	1.32	0.77	1.28	3.97
Orchardgrass	PIZZA	0.69	1.32	0.58	1.18	3.77
Orchardgrass	ICON	0.48	1.25	0.66	1.34	3.73
Cocksfoot	VISION	0.28	1.32	0.79	1.25	3.64
Timothy	TALON	0.11	0.32	0.52	0.95	1.90
Mean		**0.49**	**1.25**	**0.83**	**1.27**	**3.84**
LSD 5%						0.37

Table 4. Dry matter yields, seedling vigor, maturity, and stand persistence of orchardgrass varieties sown Sept. 16, 2003, at Lexington, Kentucky.

	Seedling Vigor[1]	Maturity[2]			Percent Stand				Yield (tons/acre)							
					2005		2006		2004	2005	2006					3-yr
Variety	Oct 31, 2003	May 13 2004	May12 2005	May17 2006	Apr 8	Oct 28	May 17	Oct 17	Total	Total	May 17	Jun 28	Jul 26	Oct 5	Total	Total
Commercial Varieties—Available for Farm Use																
Persist	4.0	54.5	58.0	59.0	78	93	95	94	5.34	4.01	2.16	0.18	0.38	0.91	3.62	12.96*
Takena II	4.5	41.0	54.5	57.0	86	98	91	83	4.69	3.88	1.49	0.22	0.38	0.95	3.04	11.61*
Hallmark	2.0	59.5	57.5	59.0	95	70	75	64	4.43	3.97	1.16	0.15	0.32	0.72	2.35	10.76
Intensiv	5.0	38.0	51.5	34.5	85	95	80	78	5.14	Profit	4	0.15	0.30	0.81	2.41	10.75
Udder	2.0	51.0	55.5	57.3	91	90	86	71	4.76	3.56	0.95	0.20	0.35	0.73	2.23	10.56
Vision	3.5	52.0	56.0	55.0	33	28	25	11	3.89	1.65	0.67	0.07	0.12	0.21	1.08	6.62
Experimental Varieties																
KYDG9801	5.0	50.5	58.0	58.5	93	100	95	93	5.43	4.12	1.96	0.25	0.42	0.92	3.54	13.09*
Profit	4.8	44.5	56.0	57.5	90	98	95	91	5.28	4.08	1.71	0.31	0.34	1.16	3.51	12.86*
KYDG9303	4.5	43.0	57.5	59.5	90	98	95	85	4.89	4.14	2.14	0.28	0.41	1.00	3.83	12.85*
KYDG9701	3.0	57.0	55.5	57.0	95	98	94	91	5.15	4.25	2.07	0.22	0.35	0.81	3.45	12.85*
ECF30	4.5	53.5	58.0	59.5	94	98	94	86	5.13	4.03	1.73	0.21	0.43	1.05	3.41	12.57*
DP65-4928	3.5	39.8	56.0	54.3	54	71	60	51	5.04	2.93	0.77	0.15	0.26	0.84	2.01	9.99
Mean	3.9	48.7	56.2	55.7	81.9	86.2	82.1	74.8	4.93	3.65	1.50	0.20	0.34	0.84	2.87	11.46
CV,%	9.1	11.1	1.8	4.0	27.0	18.5	17.0	20.2	9.24	14.57	32.22	36.05	28.38	15.33	20.86	11.29
LSD,0.05	0.5	7.8	1.4	3.4	31.8	23.0	20.1	21.8	0.66	0.77	0.69	0.10	0.14	0.19	0.86	1.86

*Not significantly different from the highest numerical value in the column, based on the 0.05 LSD.

[1] Vigor score based on scale of 1 to 5 with 5 being the most vigorous seedling growth.

[2] Maturity rating scale: 37=flag leaf emergence, 45=boot swollen, 50=beginning of inflorescence emergence, 58=complete emergence of inflorescence, 62=beginning of pollen shed.