

# PROFIT<sup>\$</sup> 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 Production:** 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% **Profit** 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					Relative Yield 2004-2005%	Harvest Maturity	3 year return per acre (using \$150/ton Hay Price)
Variety	Total			2003-05			
ORCA	5.97	7.12	3.03	16.12	110	6.3	\$2,418
Icon	6.04	7.1	2.97	16.11	110	5.3	\$2,417
Megabite	6.07	6.89	2.89	15.85	108	4.8	\$2,378
<b>Profit</b>	<b>5.84</b>	<b>6.93</b>	<b>3.05</b>	<b>15.82</b>	<b>108</b>	<b>4.8</b>	<b>\$2,373</b>
Command	5.86	6.8	2.95	15.61	106	4.5	\$2,342
Harvestar	5.47	6.78	3.21	15.46	105	2	\$2,319
Elise	5.59	6.77	3.08	15.44	105	6.5	\$2,316
ECF30	5.64	6.65	3	15.29	104	6.3	\$2,294
Pennlate	5.57	6.64	2.76	14.97	102	5.5	\$2,246
Athes	4.98	6.05	3.01	14.04	96	2	\$2,106
LG-31	5.02	6.22	2.63	13.87	94	2.4	\$2,081
Potomac	4.7	5.36	2.81	12.87	88	3.2	\$1,931
Abertop	3.18	4.09	2.23	9.5	65	2.4	\$1,425
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

Technical data herein is solely a compilation of observations from various geographical areas, conditions, and laboratory tests. Growing results, including varietal characteristics and performance, vary depending on region, climate, soil, seed enhancements, environmental conditions, local management practices and other factors. AMPAC Seed DOES NOT GUARANTEE growing success. Any technical advice by AMPAC Seed concerning the use of its seeds is given without charge. Therefore, AMPAC Seed disclaims any warranty and disclaims all liability for such advice.

Arlington Agricultural Research Station, Arlington, WISCONSIN, USA						
2005 harvested						
Seeding of Cool Season Grasses						2005
						yield(tons/acre)
Yield Trial						Total <sup>^</sup>
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
<b>Orchardgrass</b>	<b>Profit</b>	<b>0.65</b>	<b>1.29</b>	<b>0.87</b>	<b>1.31</b>	<b>4.12</b>
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
<b>Mean</b>		<b>0.49</b>	<b>1.25</b>	<b>0.83</b>	<b>1.27</b>	<b>3.84</b>
<b>LSD 5%</b>						0.37

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

Variety	Seedling Vigor <sup>1</sup> Oct 31, 2003	Maturity <sup>2</sup>			Percent Stand				Yield (tons/acre)							3-yr Total
		May 13 2004	May 12 2005	May 17 2006	2005		2006		2004 Total	2005 Total	2006					
					Apr 8	Oct 28	May 17	Oct 17			May 17	Jun 28	Jul 26	Oct 5	Total	
<b>Commercial Varieties—Available for Farm Use</b>																
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	3.20	1.14	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
<b>Experimental Varieties</b>																
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*
<b>Profit</b>	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.

<sup>1</sup> Vigor score based on scale of 1 to 5 with 5 being the most vigorous seedling growth.

<sup>2</sup> 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.