

# Kodiak

*Lolium multiflorum* var. *westerwoldicum*



Kodiak is a high yielding, high quality annual ryegrass that produces a high quality feed. Kodiak has a medium-early maturity and excels in plant vigor, tiller density and forage yield. It is perfect for grazing, silage, cover crop and also winter-overseeding. Kodiak is a diploid variety developed by DLF Forage Seeds' breeding program located in Philomath, OR and Boyd, KY. With its resistance to diseases and superior cold tolerance, Kodiak will be a great pick for your annual ryegrass.

## High Yielding, High Quality

Kodiak gives its highest yield within the first three cuts in the early spring, and transitions rapidly into the fourth cut for full transition by midsummer, depending on climate conditions. Kodiak has a medium-early maturity similar to the cultivars MO-1, Marshall and the tetraploid cultivar Florida 4n. Kodiak has exhibited improved early spring forage yield over other early-maturity diploid cultivars. Feed quality measured in a Penn State trial showed Kodiak with the highest average RFV over 3 cuts.

## Kodiak as a Cover Crop

Kodiak is very suited as a cover crop in Mid-West corn rotations when early spring growth is desired. Easy fall establishment, combined with a superior cold tolerance, will provide for an excellent spring cover, suppressing weeds and capturing nutrients. Underground, Kodiak's massive root biomass will reduce soil compaction and improve water holding capacity, limiting the potential for fertilizer run-off and soil erosion.

## Superior Cold Tolerance

Kodiak's excellent cold tolerance was exhibited in the spring of 2014 when it survived the "Polar Vortex" of the epic winter of 2013/2014 at DLF's Kentucky Research Station. There was no protective snow cover. The picture below shows a photo taken in April 2014, clearly demonstrating the superior cold tolerance of Kodiak; equal or better than MO-1, a proven cold-tolerant DLF variety that has been on the market for several years.



Kodiak

Other Annual Ryegrass

MO-1

RYEGRASS TYPE  
Westerwold

PLOIDY  
Diploid (2N)

GROWTH HABIT  
Annual Bunch

ESTAB. RATE  
5-7 days

NITROGEN REQ.  
High >100 lbs/ac

ANEROBIC SOIL TOL.  
Excellent

pH RANGE  
5-8

MINIMUM RAINFALL  
>25 inches

DRY MATTER YIELD  
Up to 6 ton in 3  
spring cuts

REGROWTH  
Excellent

PRIMARY UTILIZATION  
Grazing, Silage,  
Cover Crop & Winter  
Overseeding

TILLER RATE  
High

ENDOPHYTE  
No

SEEDING RATE  
30-35 lbs/ac  
pure stand

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*High Energy Forages and Soil Building Cover Crops*

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## 2013 Short Lived Annual Grass Trial

*Trial Data: Penn State*

Annual Ryegrass Variety	DM YIELD TONS/ACRE				
	Cut 1	Cut 2	Cut 3	Total	Stand
Kodiak	0.92	3.03	0.70	4.65	94
KB Supreme	0.94	2.89	0.77	4.60	95
MO-1	1.12	2.73	0.73	4.58	96
Fria	1.06	2.66	0.75	4.47	96
ME-94	1.01	2.48	0.83	4.32	90
Nelson	0.67	2.73	0.74	4.14	76
Hercules	0.64	2.40	0.91	3.95	83
DH-3	0.81	2.35	0.69	3.85	86
Marshall	1.04	1.97	0.68	3.69	94
KB Royal	0.77	2.13	0.70	3.61	90
Jackson	0.71	2.03	0.78	3.52	87
<b>Mean</b>	<b>0.91</b>	<b>2.61</b>	<b>0.81</b>	<b>4.33</b>	<b>92</b>
LSD (.05)	0.21	0.41	0.25	0.52	5.6
CV (%)	15.8	11.3	21.2	8.7	5.8

## Feed Quality - 2013 Short Lived Annual Grass Trial

*Trial Data: Penn State*

Annual Ryegrass Variety	RFV Cut 1	RFV Cut 2	RFV Cut 3	Average RFV all Cuts	Weighted Average RFV
Kodiak	163	122	120	135	130
MO-1	154	119	125	132	129
Hercules	144	122	126	130	127
Fria	153	117	113	127	125
Nelson	141	114	125	126	120
KB Supreme	140	118	118	125	123
ME-94	139	122	109	123	123
Marshall	128	123	114	121	123
KB Royal	137	104	116	119	113
Jackson	133	108	113	118	114
DH-3	142	99	111	117	110
<b>Mean</b>	<b>143</b>	<b>118</b>	<b>118</b>	<b>125</b>	<b>123</b>