

# The Economics of Cool-Season Annual Forages

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<b>Table 1. An Analysis of Cool-Season Annual Forage Cost Per Dry Matter Ton Consumed For Various Levels of Forage Production and Production Cost Per Acre</b>									
<b>Forage Production, DM lbs./acre</b>	<b>Forage Utilization*, DM lbs./acre</b>	<b>Cool-Season Annual Forage Production Costs, \$/acre</b>							
		<b>\$100</b>	<b>\$125</b>	<b>\$150</b>	<b>\$175</b>	<b>\$200</b>	<b>\$225</b>	<b>\$250</b>	<b>\$275</b>
		<b>Total Cost of Growing and Grazing Per Dry Matter Ton Utilized</b>							
2,500	1,250	\$160	\$200	\$240	\$280	\$320	\$360	\$400	\$440
3,500	1,750	\$114	\$143	\$171	\$200	\$229	\$257	\$286	\$314
4,500	2,250	\$89	\$111	\$133	\$156	\$178	\$200	\$222	\$244
5,500	2,750	\$73	\$91	\$109	\$127	\$145	\$164	\$182	\$200
6,500	3,250	\$62	\$77	\$92	\$108	\$123	\$138	\$154	\$169
7,500	3,750	\$53	\$67	\$80	\$93	\$107	\$120	\$133	\$147
8,500	4,250	\$47	\$59	\$71	\$82	\$94	\$106	\$118	\$129
9,500	4,750	\$42	\$53	\$63	\$74	\$84	\$95	\$105	\$116

\*Forage utilization was assumed to be 50 percent of the available forage production (column one x 0.50)

**Table 2. A Sensitivity Analysis of the Total Cost of Growing and Grazing Cool-Season Annual Forages**

<b>Forage Utilization</b>		<b>Forage Production, DM lbs./acre</b>							
<b>Percentage Change</b>	<b>Level of Forage Utilization</b>	<b>Percentage Change</b>	<b>-30%</b>	<b>-20%</b>	<b>-10%</b>	<i>Base</i>	<b>10%</b>	<b>20%</b>	<b>30%</b>
		<b>Level of Forage Production</b>	<b>4,900</b>	<b>5,600</b>	<b>6,300</b>	7,000	<b>7,700</b>	<b>8,400</b>	<b>9,100</b>
		<i>Total Cost of Growing and Grazing Per Dry Matter Ton Utilized</i>							
<b>-15%</b>	<b>35%</b>		\$181	\$158	\$141	\$127	\$115	\$105	\$97
<b>-10%</b>	<b>40%</b>		\$158	\$138	\$123	\$111	\$101	\$92	\$85
<b>-5%</b>	<b>45%</b>		\$141	\$123	\$109	\$98	\$89	\$82	\$76
<i>Base</i>	50%		\$127	\$111	\$98	<b>\$89</b>	\$81	\$74	\$68
<b>5%</b>	<b>55%</b>		\$115	\$101	\$89	\$81	\$73	\$67	\$62
<b>10%</b>	<b>60%</b>		\$105	\$92	\$82	\$74	\$67	\$62	\$57
<b>15%</b>	<b>65%</b>		\$97	\$85	\$76	\$68	\$62	\$57	\$52