

Growing Getting Started in Ag: **Alternative Forage Cropping Options in Wyoming**

Most new or beginning producers are likely aware that raising any crop is a challenge in Wyoming for a variety of reasons: weather extremes, natural disasters, water shortages and many other factors.

Cash-crop operations, livestock operators raising feed, or those involved in both generally find that it pays to have multiple options available. The current high cost and volatile market environment demands that managers produce a viable crop that can generate revenue, even if that means switching to plan B.

Alternative forage crops offer options to producers from several perspectives, including risk management. Such production options are critical for profitability in the current economy. Fertilizer, herbicides, fuel and other input costs have increased substantially, while prices for all types of hay and forage are also high. In some cases, such as a year with limited irrigation water,

Сгор	Seed Price/Lb	Lbs/Acre	Total Cost/Acre
Sorghum/Sudan Hybrid	\$ 1.00	20	\$ 20.00
Proso Millet	\$ 4.50	20	\$ 90.00
Forage Sorghum	\$ 2.00	20	\$ 40.00
Teff	\$ 4.00	10	\$ 40.00
Oats	\$ 0.24	100	\$ 24.00
Triticale	\$ 0.60	75	\$ 45.00
	Price/Unit	Units/Acre	
Silage Corn	\$ 0.004	33,000	\$ 132.00

it may make better financial sense to plant an alternative crop and save on inputs. Forage crops provide a forage resource with lower seed costs and fewer input requirements, including reduced requirements for fertilizer and herbicides. These crops can provide a backup crop if a primary crop fails. For example, if a silage corn crop is wiped out by hail, a summer annual forage crop could provide a silage option even in an abbreviated growing season.

Alternative crops can also be used in a double crop system. For example, in this type of system, oats could be planted for silage and then followed with a summer annual forage crop. These crops can also be utilized as cover crops.

Growing research shows that long-term soil health and fertility is positively affected by using cover crops in place of fallow over the fall and winter. Many forage crops can be easily adapted to a wide range of crop systems, allowing the grower to take full advantage of the entire growing season.

SUMMER ANNUALS

This class of crops includes sorghums, sudan grass, sorghum/ sudan grass hybrids, pearl millets, proso millets, and teff. These forages offer several advantages compared to corn and alfalfa; the primary benefit is their low cost and potential to produce large amounts of usable forage for silage, hay or grazing.

typically have shorter maturity timelines than corn. This may offer greater flexibility following a primary crop failure or in a double crop system. Fertilizer requirements are generally low for these crops, especially millets and teff. Another important advantage of summer annuals s they require less water to produce a crop than many primary crops.

Summer annuals



Triticale for hav.

Summer annuals may also present some management as is true with summer annuals. These crops also may fit well in a challenges, mainly in the form of nitrate and prussic acid issues. double crop system. Crop systems that include cereals are growing These tend to show up if the crop is drought stressed or is in popularity, as they allow managers to maximize the growing overfertilized. Testing feed for these problems and harvesting at season, trim costs, and provide a level of risk protection because the right time (generally before a frost) can reduce the chances that production does not rely on a single crop. Examples include these issues will lead to other difficulties. harvesting triticale or early-planted oats for silage, followed by a forage sorghum for hay or silage in the fall. Cereals may also fit well CEREAL GRAIN CROPS in reduced-till and no-till systems, especially in locations where they This class of forages includes oats, wheat, triticale and rye. Many require fewer inputs.

producers harvest these crops for forage in the form of hay and silage, as well as for grain.

Utilizing cereal crops in a rotation provides several benefits. Other forage options to consider include winter peas, radishes, Cereals allow producers to take advantage of early spring moisture; turnips and conventional sugar beets. These crops are often in particular, triticale and rye often do not require much early complementary in nature and work well when planted with another irrigation to produce several tons per acre of forage. They also crop. They can add protein to forages, in the case of peas, and often provide flexibility: wheat, rye and triticale can be grazed over the work well in cover crop mixes. Radishes and conventional sugar winter and early spring, while oats can provide late summer and fall beets have grown in popularity, particularly in cover crop mixes, due grazing under the right conditions. to their ability to provide soil benefits in the form of increased root Cereal crops have relatively low fertilizer requirements, often matter and natural tillage. These crops may also provide a source of making them a lower cost option compared to conventional forages, forage for grazing when livestock are a consideration.

FOR MORE INFORMATION

There are numerous cropping options that can benefit both crop and livestock operations in Wyoming. For more information on forage crops and how they may fit your operation, visit the Beginning Farmer and Rancher Library at farmanswers.org/library. For numerous risk management and budgeting tools that can help you decide how these crops may fit your operation, visit RightRisk.org.

James Sedman is a consultant to the Department of Agricultural and Applied Economics in the University of Wyoming 💒 UNIVERSITY College of Agriculture, Life Sciences and Natural Resources, and John Hewlett is a farm and ranch management specialist in the department. Hewlett may be reached at (307) 766-2166 or hewlett@uwyo.edu.

Proso millet and teff mix for hav.

OTHER FORAGE CROPS





Extension