



Forage Options Following Alfalfa Winterkill

by Dan Undersander

What are the best forage choices for planting mid-April to mid-May?

A small grain-field pea mixture is the best choice for those needing forage in early/mid summer. The primary benefit of peas mixed with small grains is to improve quality; yield effects are variable ranging from 0 to 0.5 t/a increases. Peas may be mixed with oats, triticale, or barley. Barley tends to be ready to harvest earlier than the other two species. There does not appear to be a best species - the top yielding varieties of each species perform better than the poorer-yielding varieties of all other small grain species. Small grain-pea mixtures have a wider harvest window.

The recommended seeding rate for optimum yield and quality are for 10-15 oat seeds /ft² (60 lb/a) and 4 pea seeds/ft² (50 lb/a) of Trapper peas. Size of pea seed varies greatly among varieties and poundage rate should be increased as pea size increases to keep the same seeding rate (4 seeds/sq ft). For more information, see the *Focus on Forage* fact sheet "Pea and Small Grain Mixtures".

Whether the small grain is planted alone or mixed with peas, the forage should be harvested based on the maturity stage of the small grain. These mixtures should be harvested at the late boot (few heads showing) for lactating dairy cows and soft dough stage for heifers and beef cattle.

Crop	Maturity Date	Yield (t/a)	Crude Protein (%)	RFV			
Forage needed in early July							
Oats & peas	late June	2.5-3.0	16-20	120-135			
Spring triticale & peas	mid-July	2.5-3.0	16-20	120-135			
Barley & peas	mid-June	2.5-3.0	16-20	120-135			
Oats	late June	2.5-3.0	13-16	100-120			
Spring triticale	mid-July	2.5-3.0	13-16	100-120			
Barley	mid-June	2.5-3.0	13-16	100-120			
Total-season forage							
Alfalfa w/ cover crop	late June	4.0-6.0	16-22	120-150			
Corn silage	mid-Sept.	5.0-8.0	9.0-10.0	95-105			

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What are the best forage choices for planting mid-May to mid-June?

Planting at this time usually means that either the grower has waited to take first cutting alfalfa before plowing down or has had a very wet spring and hasn't been unable to get into the field. At this point, we are usually not needing short-term forage and are looking for forages that will produce the most total season yield.

Most farmers are familiar with corn silage and this remains the best choice because of high yield, good quality, and familiarity. Two other choices are sorghum-sudangrass hybrids (for hay or silage) and sudangrass (for hay or grazing). These crops do well in drought. They need high temperatures to produced good yield and will yield little in cool years. The sorghum-sudangrasses and sudangrasses should be seeded at 20 to 30 lbs/acre. They can be cut whenever they reach about 30 inches height for high quality or 36 inches height for heifers and beef cattle. Plants should be cut at 6 inch height if expecting regrowth.

Other crops, such as buckwheat and foxtail millets are often considered but are not recommended due to difficulty of obtaining seed, low yield, and poor forage quality (for additional information about these crops see http://www.hort.purdue.edu/newcrop/afcm/index.html.).

Crop	Maturity Date	Yield (t/a)	Crude Protein (%)	RFV
Total-season forage				
Corn silage	mid-Sept	5.0-6.0	9.0-10.0	95-105
Sorghum-sudangrass	mid-July	4.0-6.0	12.0-14.0	90-100
hybrids				
Sudangrass	mid-July	3.0-5.0	11.0-13.0	90-100

What are the best forage choices for planting mid-June to early July?

At these later dates, corn will no longer mature before frost and the sorghums and sudangrasses become the best choices for highest yield for the remaining portion of the season. See the comments above for sorghum-sudangrasses and sudangrasses. Forage sorghums are normally drilled at 12 to 15 lbs/a into 20 to 30 inches rows and harvested as corn silage would be. When planted this late, forage sorghums will likely need to be killed by frost to dry sufficiently for

ensiling. Do not harvest within 1 week of a killing frost to reduce potential for prussic acid poisoning. Forage sorghums may not be the best choice if the year is average to cool in temperature.

Turnips can be planted anytime during the season and harvested about 45 days later by grazing. This forage is generally not harvested for hay or silage due to the low yield. After 1 or 2 grazings, the turnips can be dug (with a disc) and they can be grazed. Turnips are high in copper and may be detrimental to sheep.

Crop	Maturity Date	Yield (t/a)	Crude Protein (%)	RFV
Total-season forage		()	(1.1)	
Sorghum-sudangrass	mid-Aug.	3-5	12-14	90-100
hybrids	:1 04	2.4	10.11	00 100
Forage sorghum	mid-Sept.	2-4	10-11	90-100
Sudangrass	mid-Aug	2-4	11-13	90-100
Turnips-tops	September	2-3	20-25	150-250
Turnips-beet	October	0.5	16-20	

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