





4 Outline	
BMR Corn Seed Selection Planting Considerations In Season Management Harvest Management Yield Comparisons Odds n Ends Low Lignin Alfalfa Seed Selection Planting, in Season Harvest Issues Quality Comparisons	





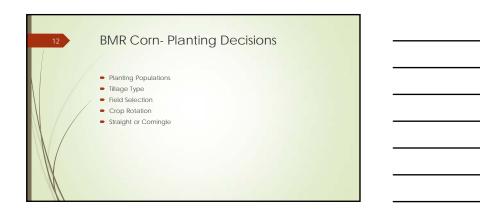
7	BMR Corn- Seed Selection	
	Companies Seed industry more about relationships than any other part of agronomy Mycogen- Old hat to the BMR market Ploneer- New kid on the block Other companies that have limited selection of BMR	——————————————————————————————————————

8	BMR Corn- Seed Selection
	Maturity Select a variety that fits your farm management Day length BMR only farm, Mix Chopping order Limited selection (number of varieties) Mycogen- 90 day- 116 day About 3 varieties every 5 days of maturity group Pioneer- 102-114 S varieties total



	10	BMR Corn- Seed Selection	
		 Agronomic Characteristics Emergence 	
		No: till, Corn on Corn, Early planting Early Vigor Sibease resistance, Cold wet soil	
		 Drought Tolerance Root Strength Stalk Strength 	
		Stank strength Plant Height Take with a grain of salt	
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11	BMR Corn- Seed Selection
	Comparison with Conventional Silage (Non BMR) BMR varieties tend to hold moisture longer than Conventional ones How to compare with those conventional hybrids Good rule of thumb is BMR varieties are 5 days maturity more than Conventional ones – LE - 100 day BMR = 95 day conventional



13	BMR Corn- Planting Decisions	
	Planting Populations Keep population consistent- No real benefit to VRT planting Cannot handle high populations As compared to conventional 36,000-40,000 Low populations give up to much yield Target approx. 30,000-32,000 seeds/acre	





16	BMR Corn- Planting Decisions
	Crop Rotations Considerations 1st year corn the best Crop scout for Disease and insects if Corn on Corn After alfalfa watch for Black Cutworm-Insect Traits have poor activity Good weed control very important

17	BMR Corn- Planting Decisions
	Co Mingle- Planting ½ and ½ BMR and Conventional in Same field Extra yield Good Quality BMR competitive advantage Bunker Space 2 and 2 Make sure to match up BMR Maturity with Conventional Maturity









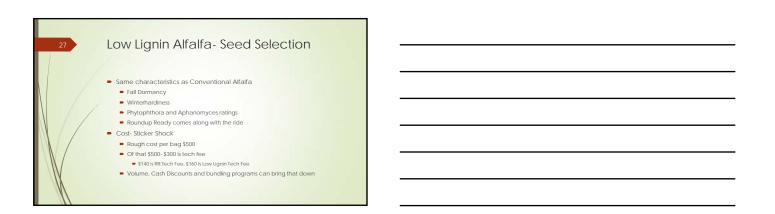
22	BMR Corn- Yield Comparison
	BMR corn will yield less than Conventional Corn- Approximately 10% 1st year corn fields on Alfalfa- Can yield upward of 28 ton as fed Co Mingled varieties will yield more than straight BMR Have seen 2 ton DM increase Weighed Fungicide trials- BMR vs. Untreated- 2-3 ton as fed basis increase in yield Not so much yield gain, but how much can you lose due to disease pressure NCLB- Northern Corn Leaf Blight Fast dry down

Odds and Ends Mycogen (BM3) claims 8%-15% NDFD advantage over Ploneer (BM1) Have had nutritionist tell me both ways Mycogen coming out with new BMR hybrid focusing on better Starch digestibility NEW Consultants Silage plots- Replicated, multi locations BMR vs. Conventional NDFD 2016-8.5 pt adv BMR, 2017-9.3 pt adv BMR DM 2016-0.94 tons adv Conv., 2017-1.2 tons adv Conv. Starch 2016-3 pt adv Conv., 2017-5 pt adv Conv.



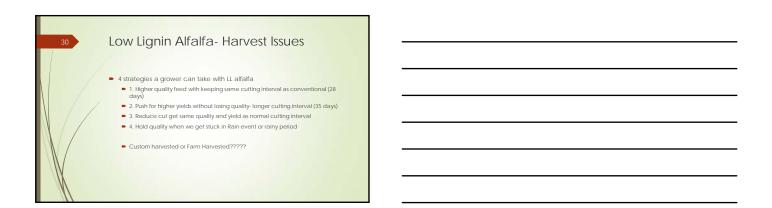
25	Management Strategies for Low Lignin Alfalfa	
	■ Low Lignin Alfalfa ■ Seed Selection	
	■ Planting, in Season ■ Harvest Issues	
	■ Quality Comparisons	
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26	Low Lignin Alfalfa- Seed Selection
	Han/Xtra True Low Lignin Trait Hi-Gest Conventional Plant breeding Coated vs. Un Coated Forage Genetics 34% Coating-Fungicide, MicroNutrient, Growth Regulator, Rhizobium Non Coated (IE Ploneer) Is it all marketing????????? New Seedling stands very similar



Low Lignin Alfalfa- Seed Selection	
How do we integrate it into our rotation Probably a 2-4 year process	
Do we separate Conventional alfalfa feed pile from LL Winter kill can accelerate the incorporation into rotation	
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Low Lignin Alfalfa- In Season Management Again similar to Conventional or Roundup Ready alfalfa Spray for weeds, with RR Technology need to kill out nulls in seeding year Push the Potash and Sulfur Scout and Spray for Weevils and Leafhoppers Fungicide Considerations Stand termination- Roundup Ready, need some type of Growth Regulator herbicide to terminate stand Status Barnet, 2.4-D Don't forget the Roundup too, Dandelions and grass in field



Low Lignin Alfalfa- Quality Comparisons	
Forage Genetics (Croplan) 12-20% lower AD Lignin- as compared to conventional at same stage of maturity Then can choose between 14-18% Higher NDFD (normal cutting schedule) 20% higher yield (Delayed harvest) Listed in Seed Guide	







35	Questions?
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