

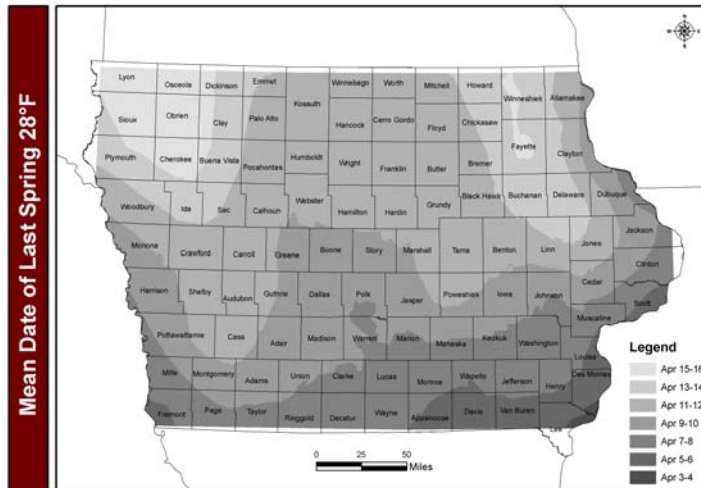
Agronomy 212 – Grain and Forage Crops

Corn - Planting

Goals and Considerations

Critical Spring Planting Period

Spring Freeze Risk



For these odds	Add this number of days
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1 in 3

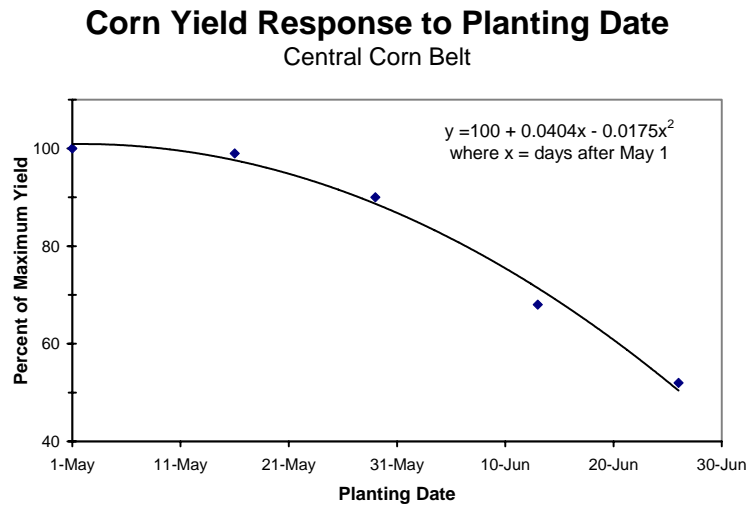
1 in 4

1 in 5

1 in 10

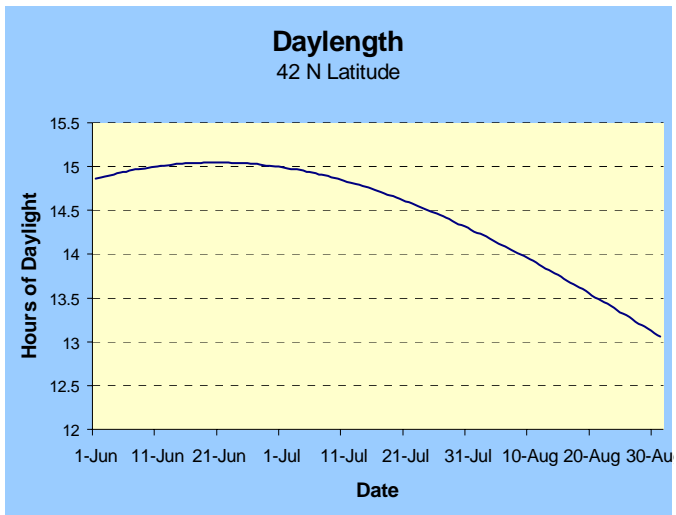
1 in 20

Yield Loss for Delayed Planting



Early Planting

Planting Date	Emergence d	Silking Date	Moisture %	Relative Yield %
May 2	12	7/23	29.1	100
May 10				
May 20				
May 30				



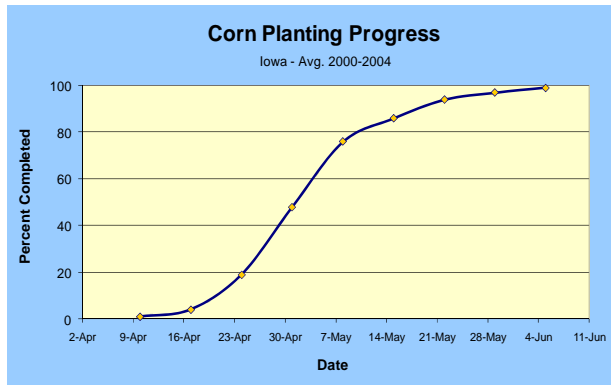
Additional Benefits of Early Planting

Morphology and Physiology

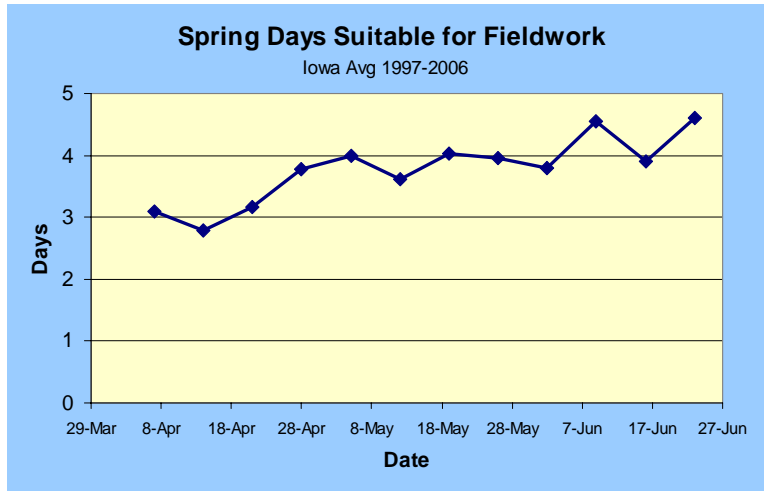
Corn Silage

Yield component	Planting Date		
	April 15	May 20	June 7
Relative grain yield (%)	100		
Relative DM yield (%)	100		
Ratio grain/67% silage (Bu/T)	6.6		

Planting Considerations

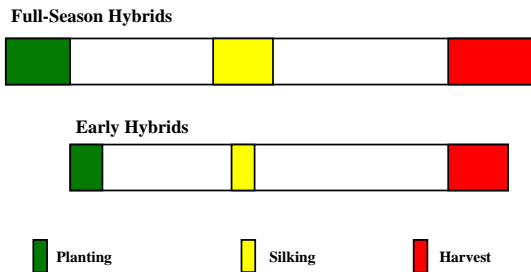


Spring Days Suitable for Fieldwork

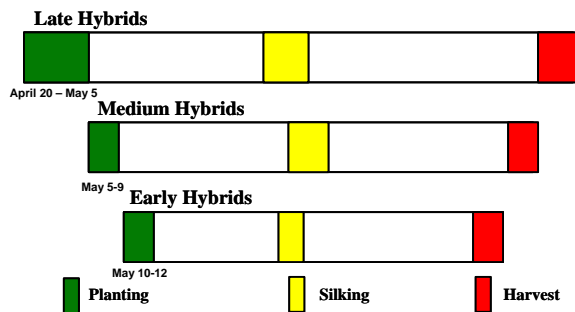


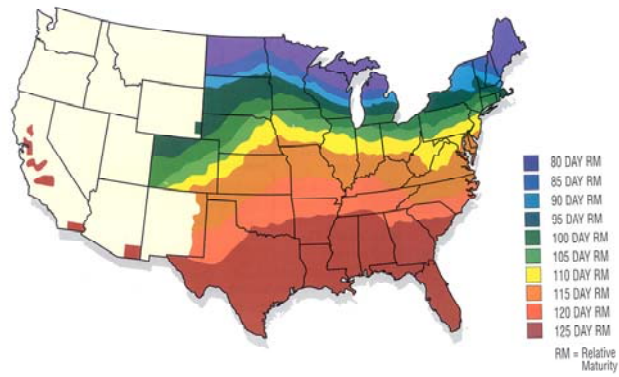
Hybrid Maturity Management

A Poor Planting Scheme for Corn?



A Better Planting Scheme for Corn?





Source: Asgrow Seed Resource Guide

Planting Depth

Planting depth inches	April 13		May 2	
	Emergence %	Days	Emergence %	Days
1.25				
2.25				
3.25				
4.25				

Late Planting and Replanting

Influence of planting date and plant population on corn yield

Final Stand* (plants/A)	Planting Date				
	April 20 – May 5	May 13-19	May 26- June 1	June 10-16	June 24-28
	Relative yield potential (percent)				
28,000-32,000	100	99	90	68	52
24,000	94	93	85	64	49
20,000	81	80	73	55	42
16,000	74	73	67	50	38
12,000	68	67	61	46	35

*Assumes a uniform plant stand
Source: ISU Extension