Incomplete Kernel Development – What Determines Corn Yield?

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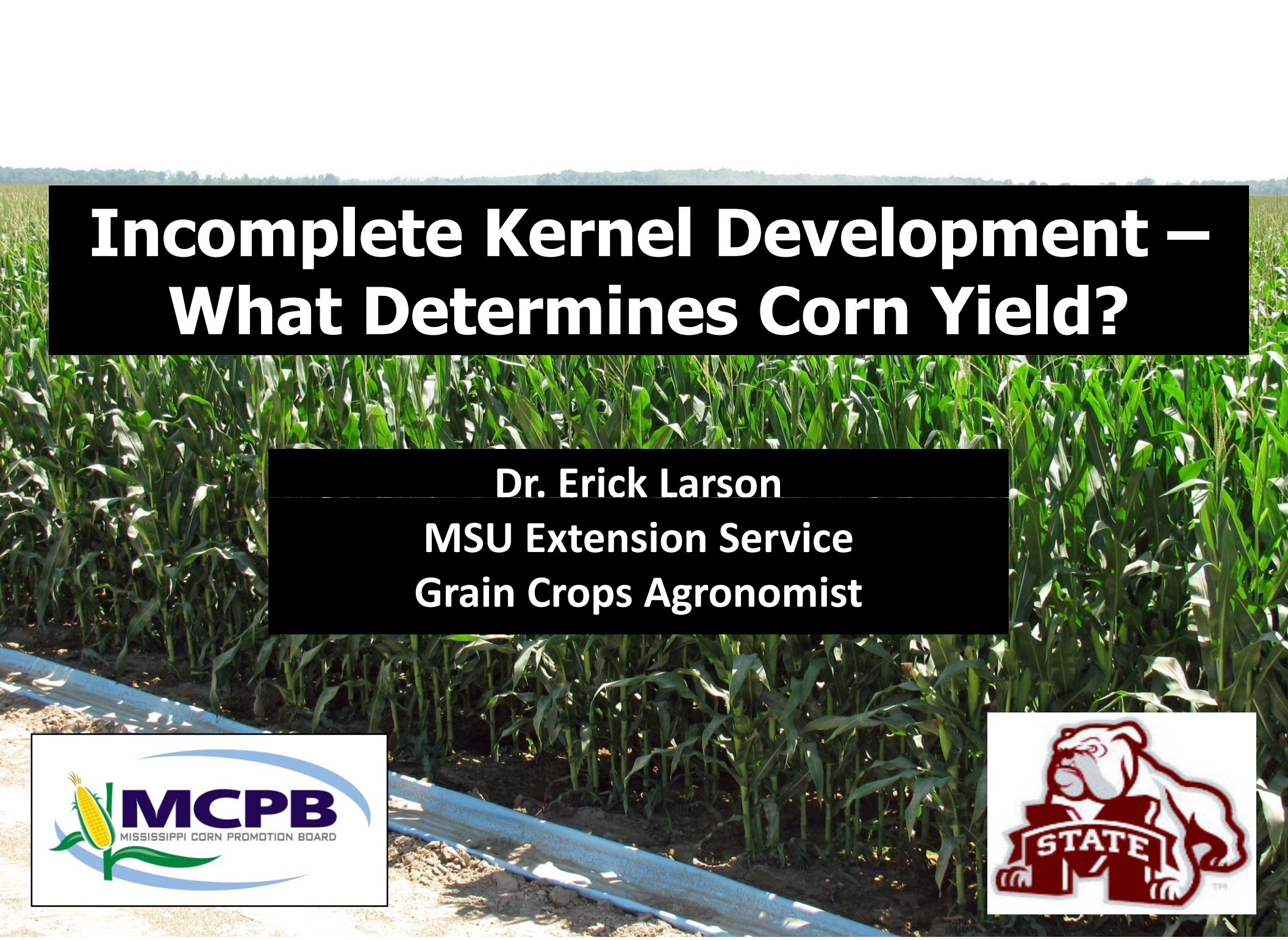
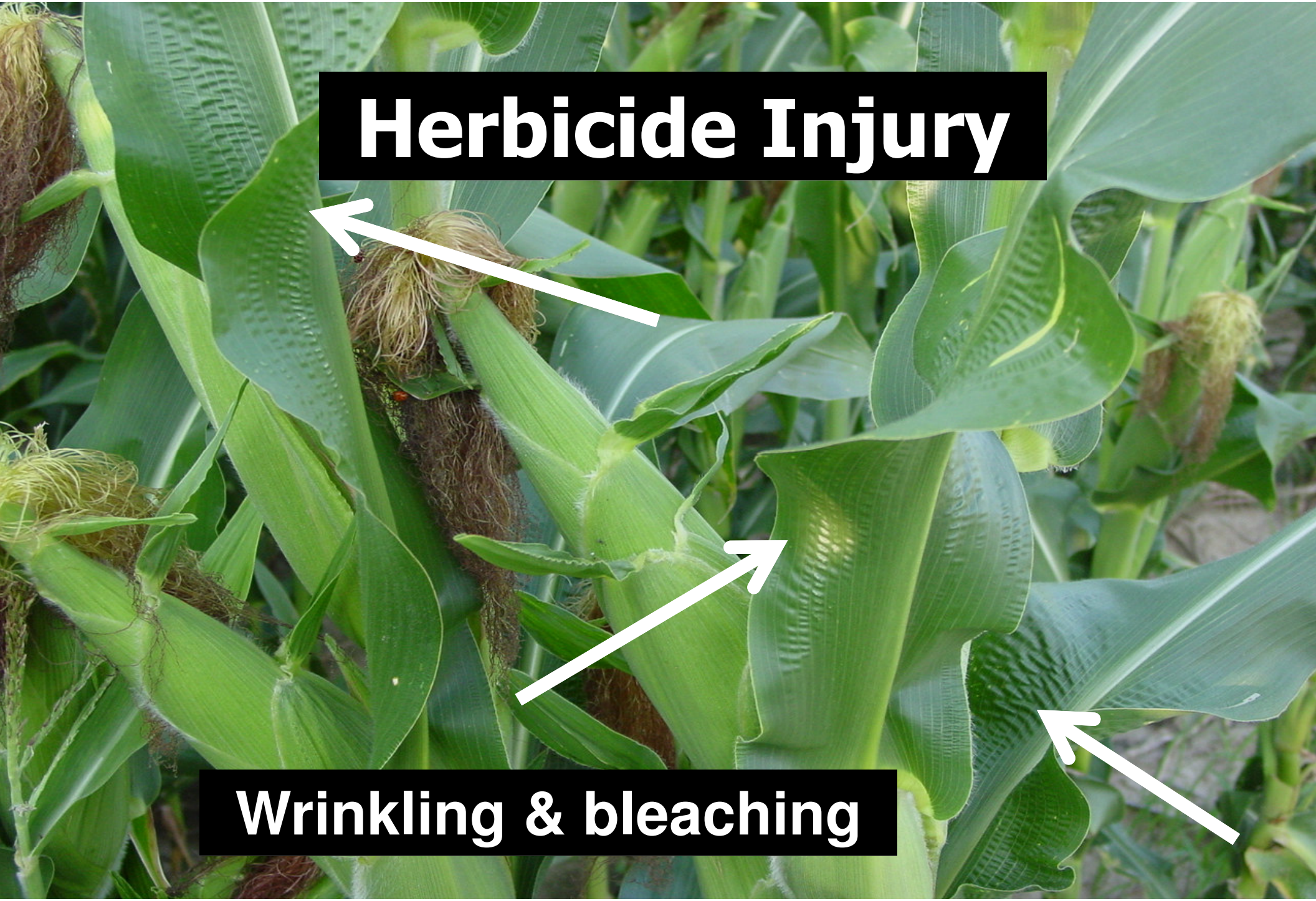
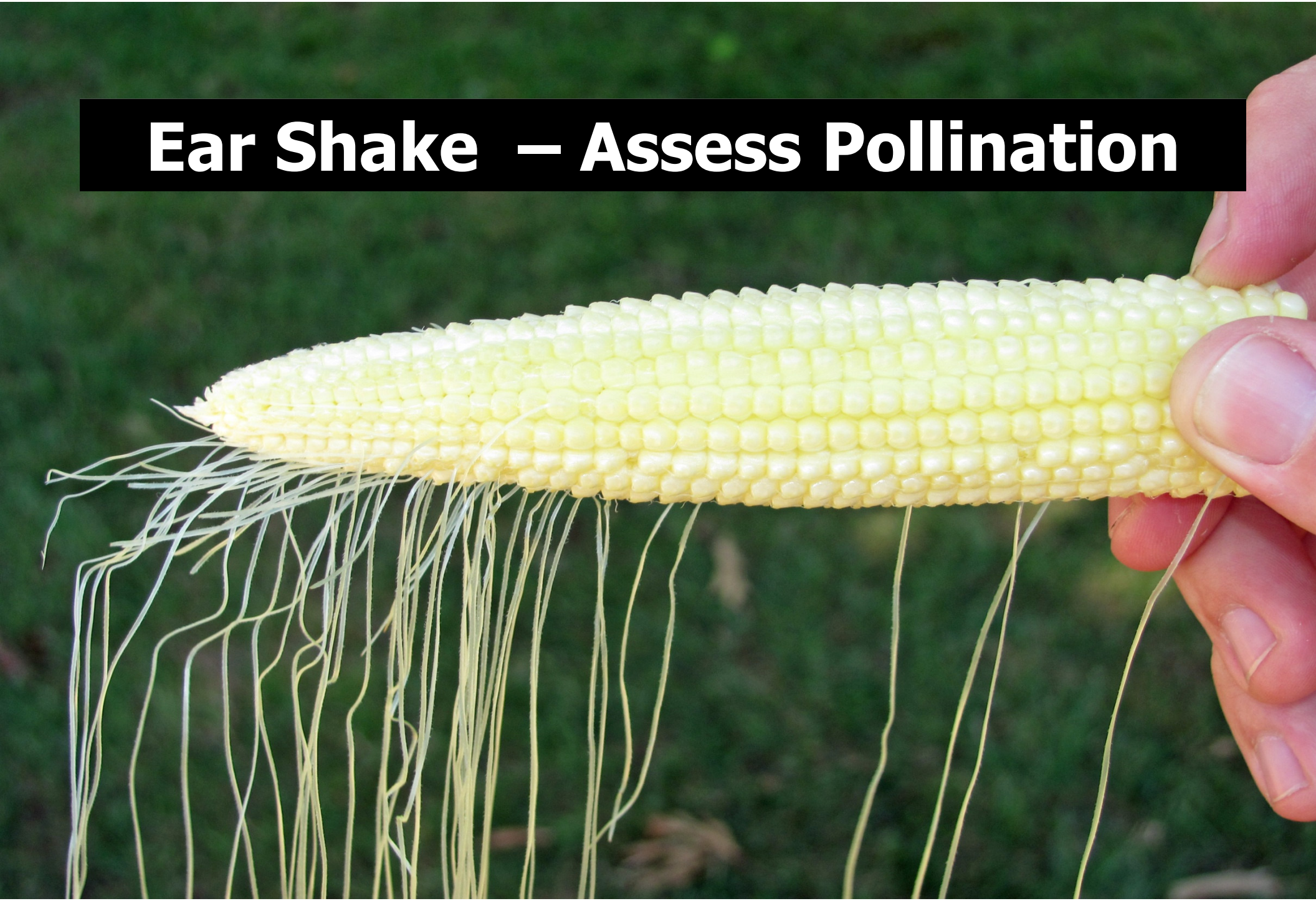


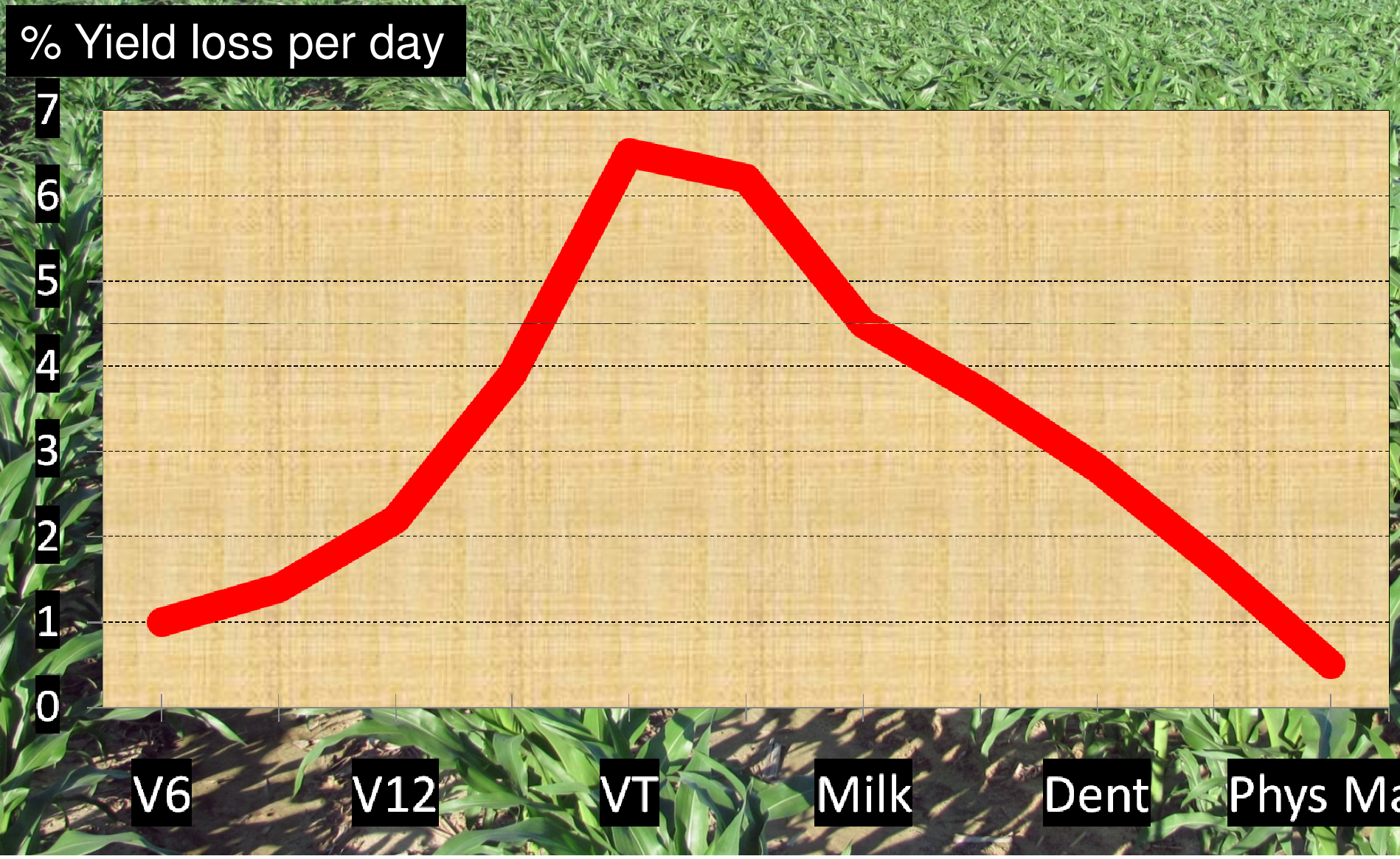
Pollination Failure


Herbicide Injury
Wrinkling & bleaching

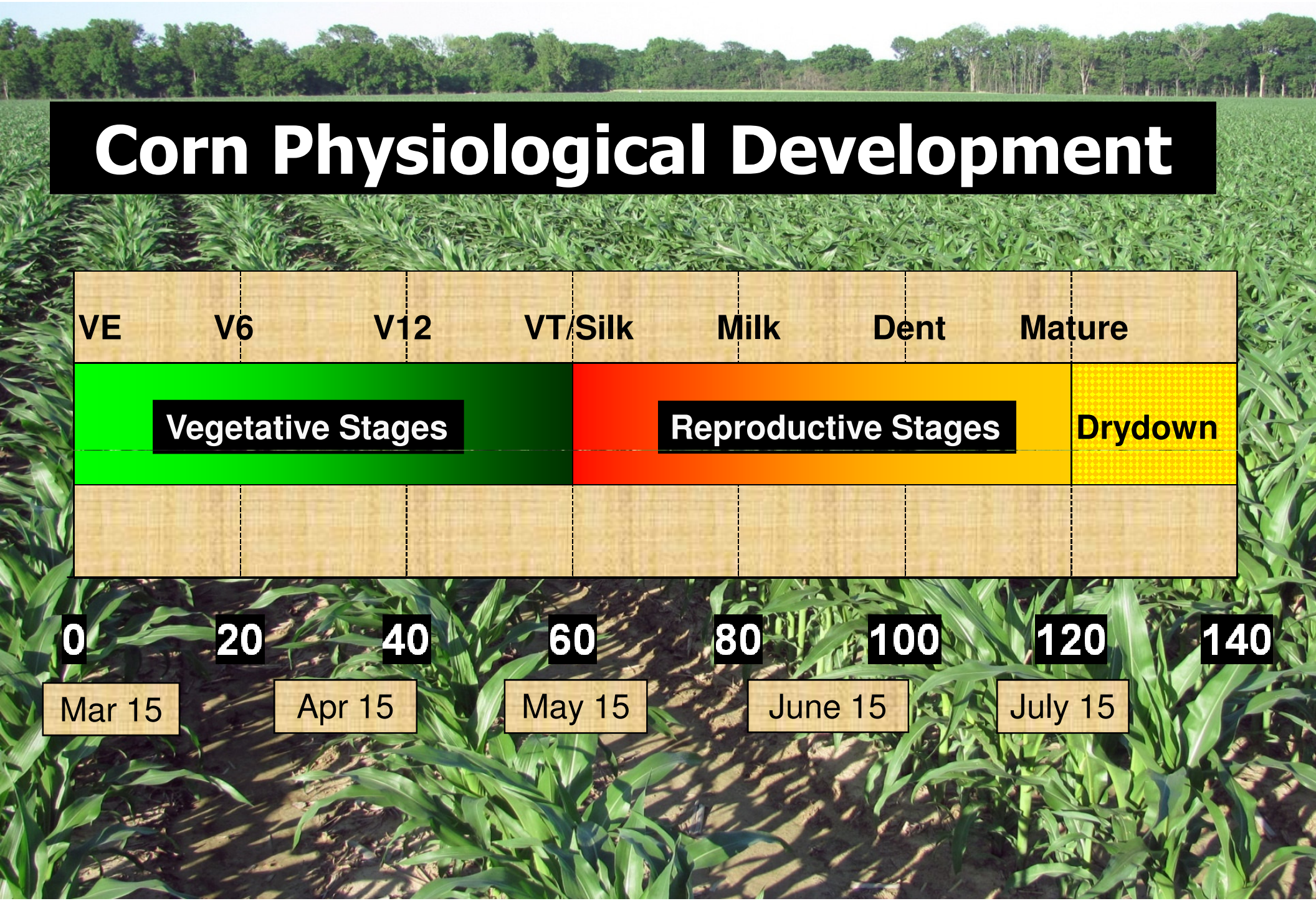
Ear Shake – Assess Pollination



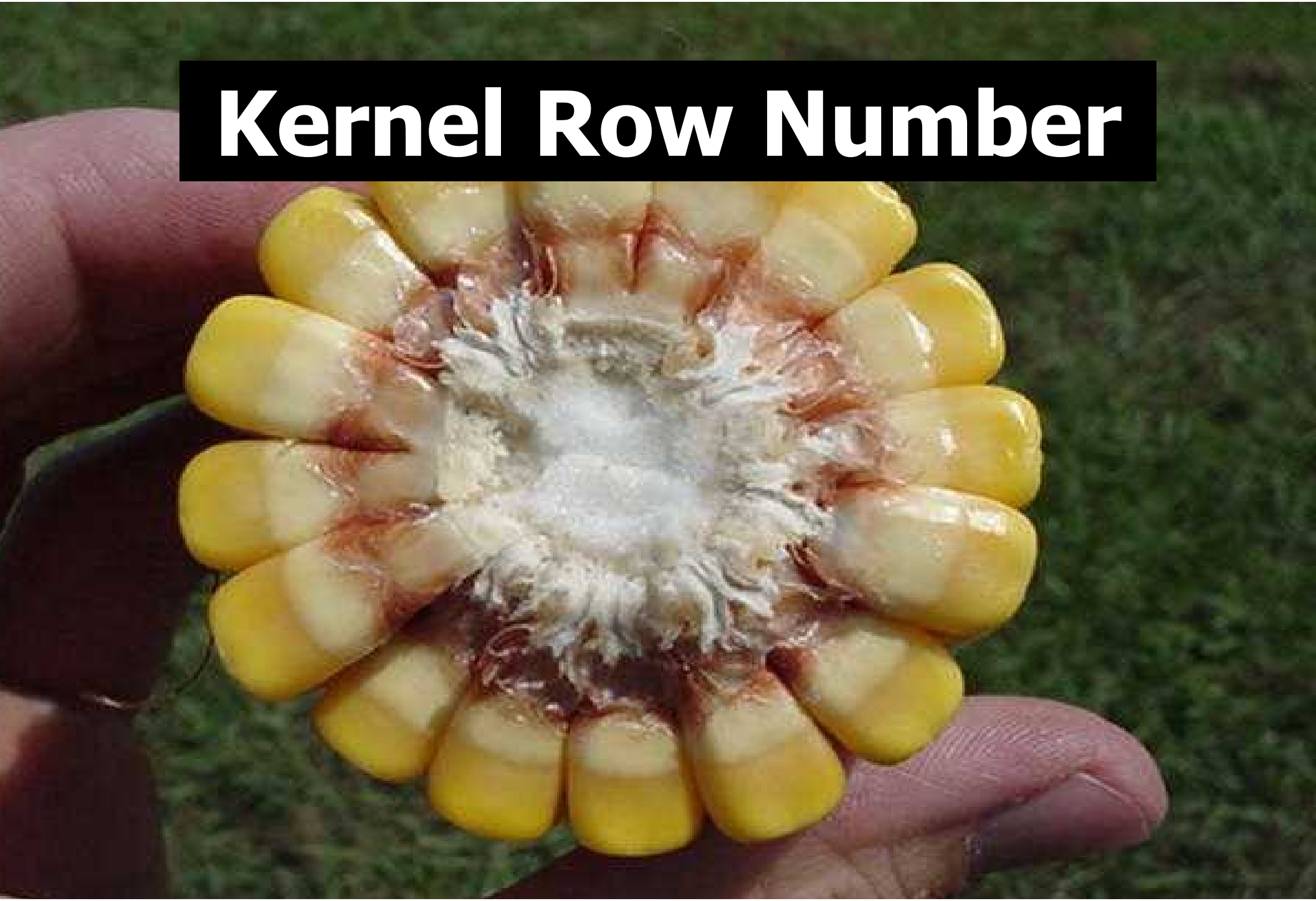
Corn Yield Reduction to Stress



Corn Physiological Development

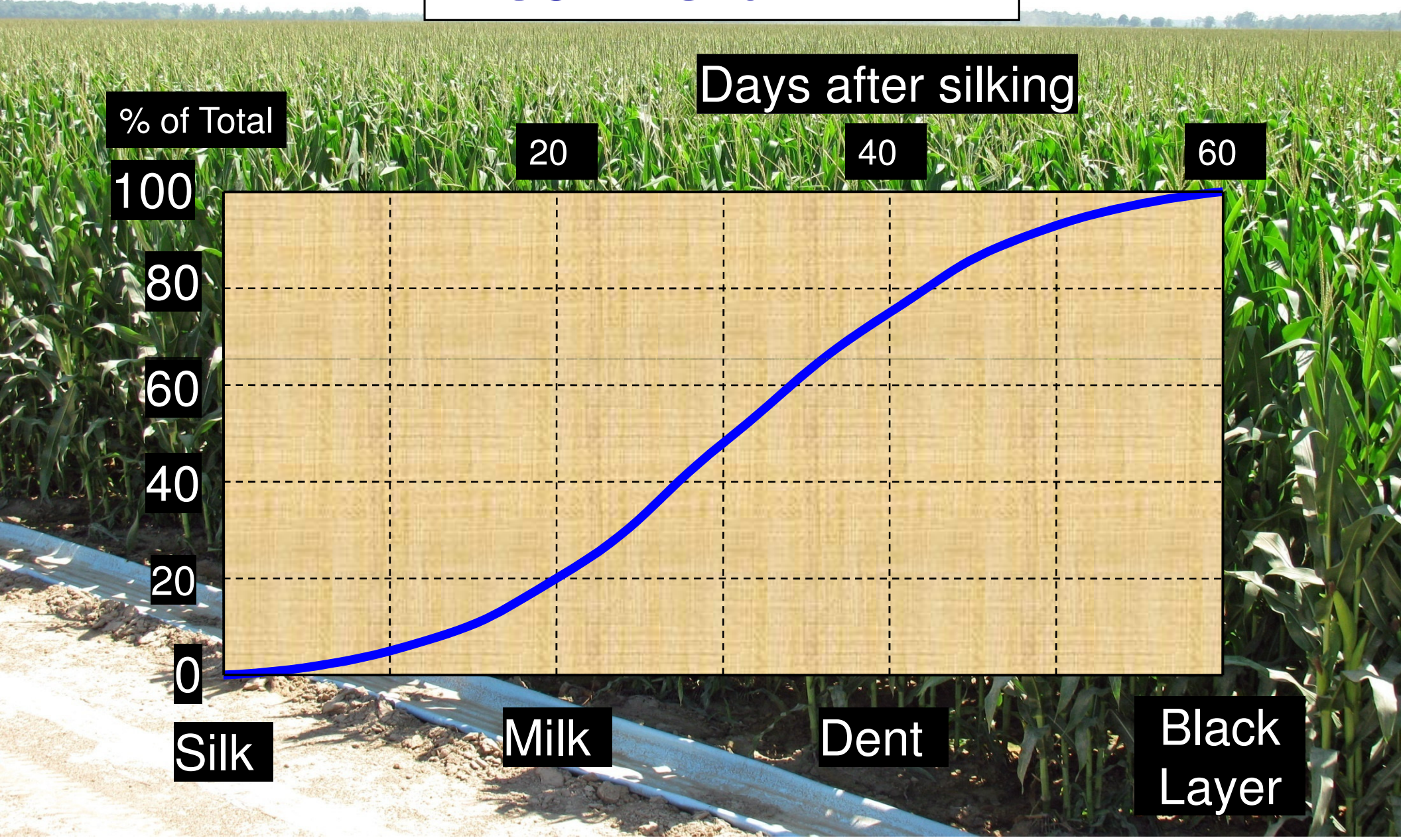


Yield Components


Kernel Row Number

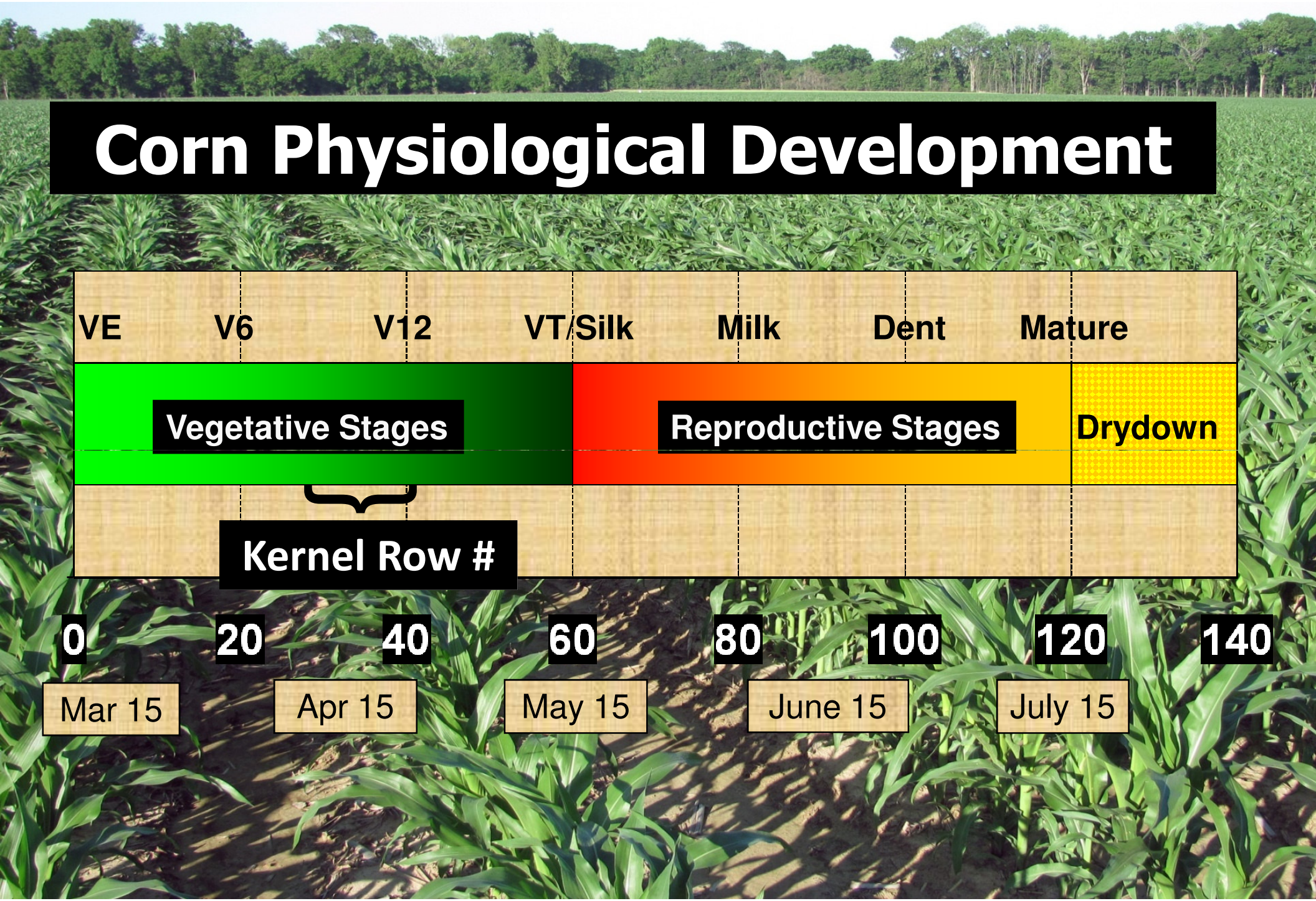
Kernel Number

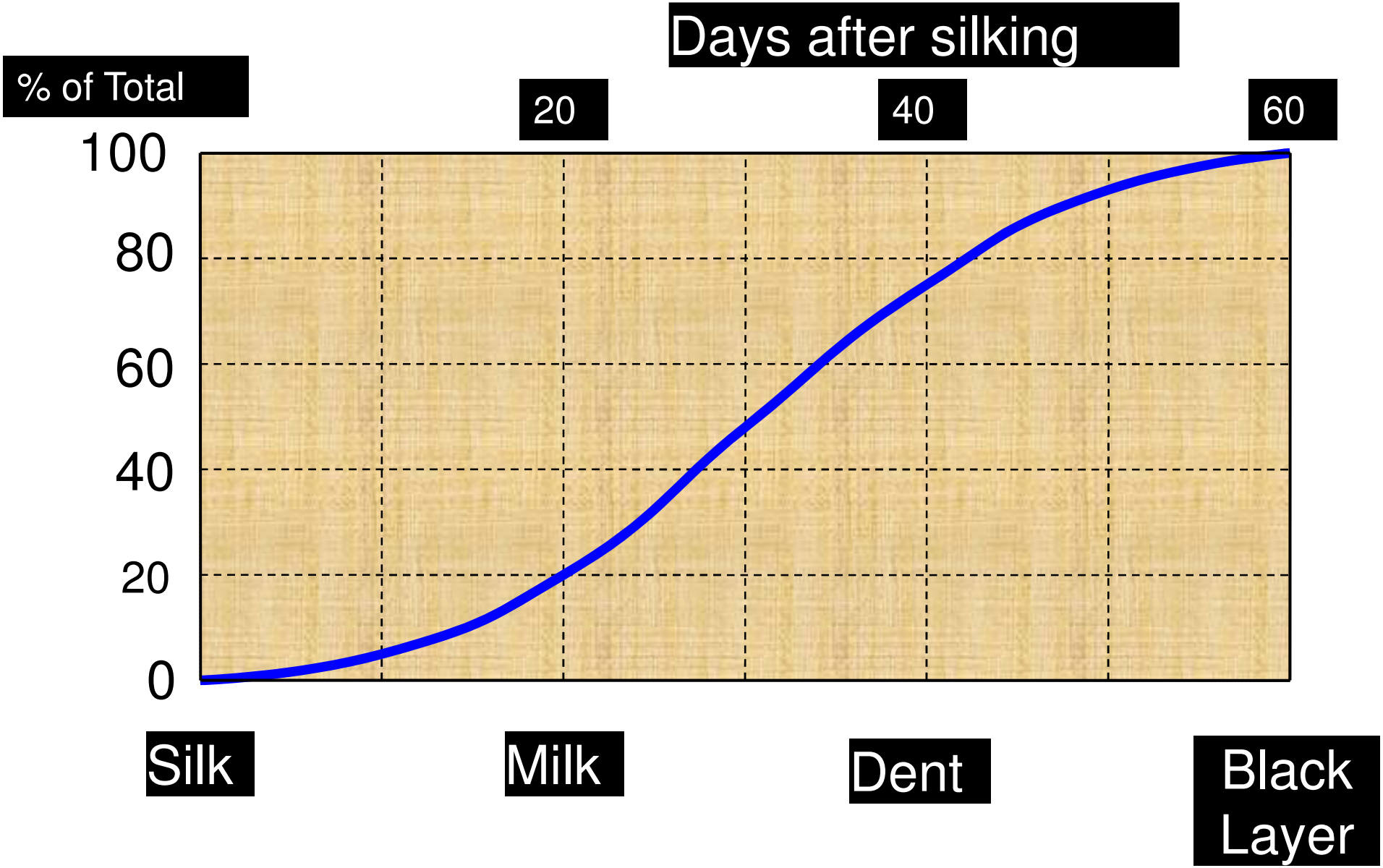
Corn Grain Fill



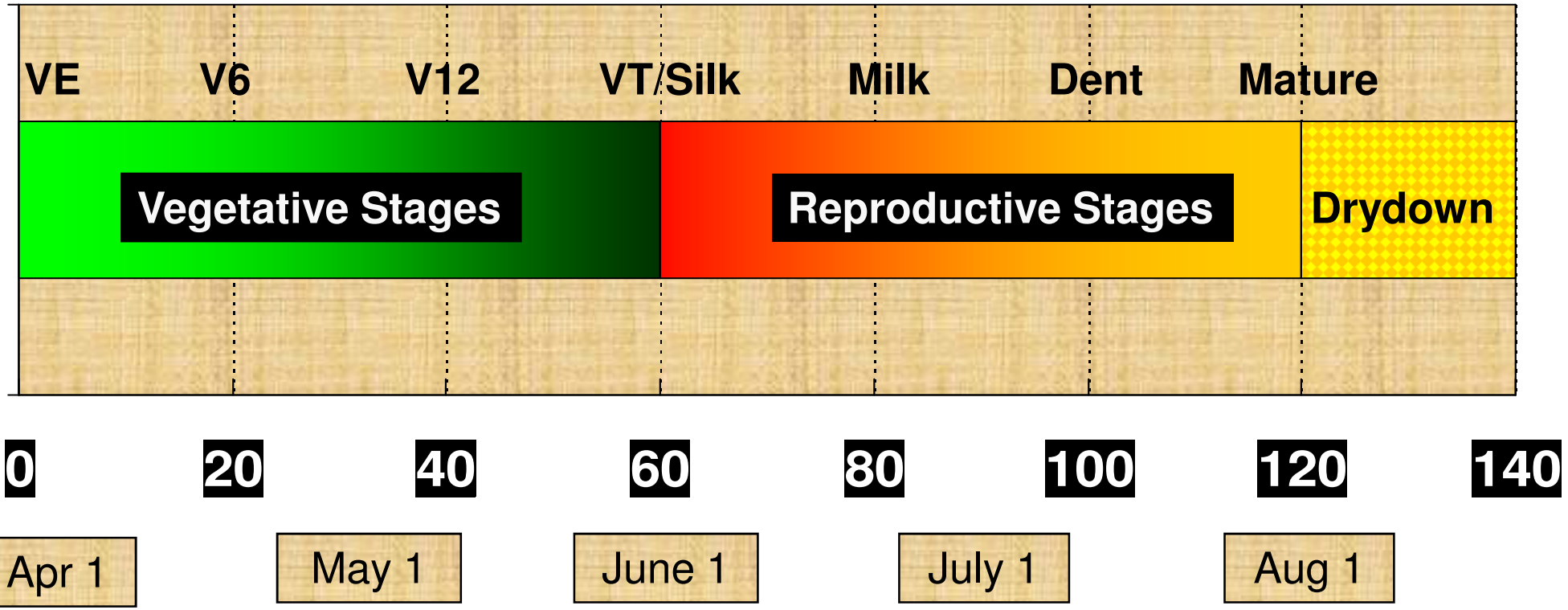
2010
2009

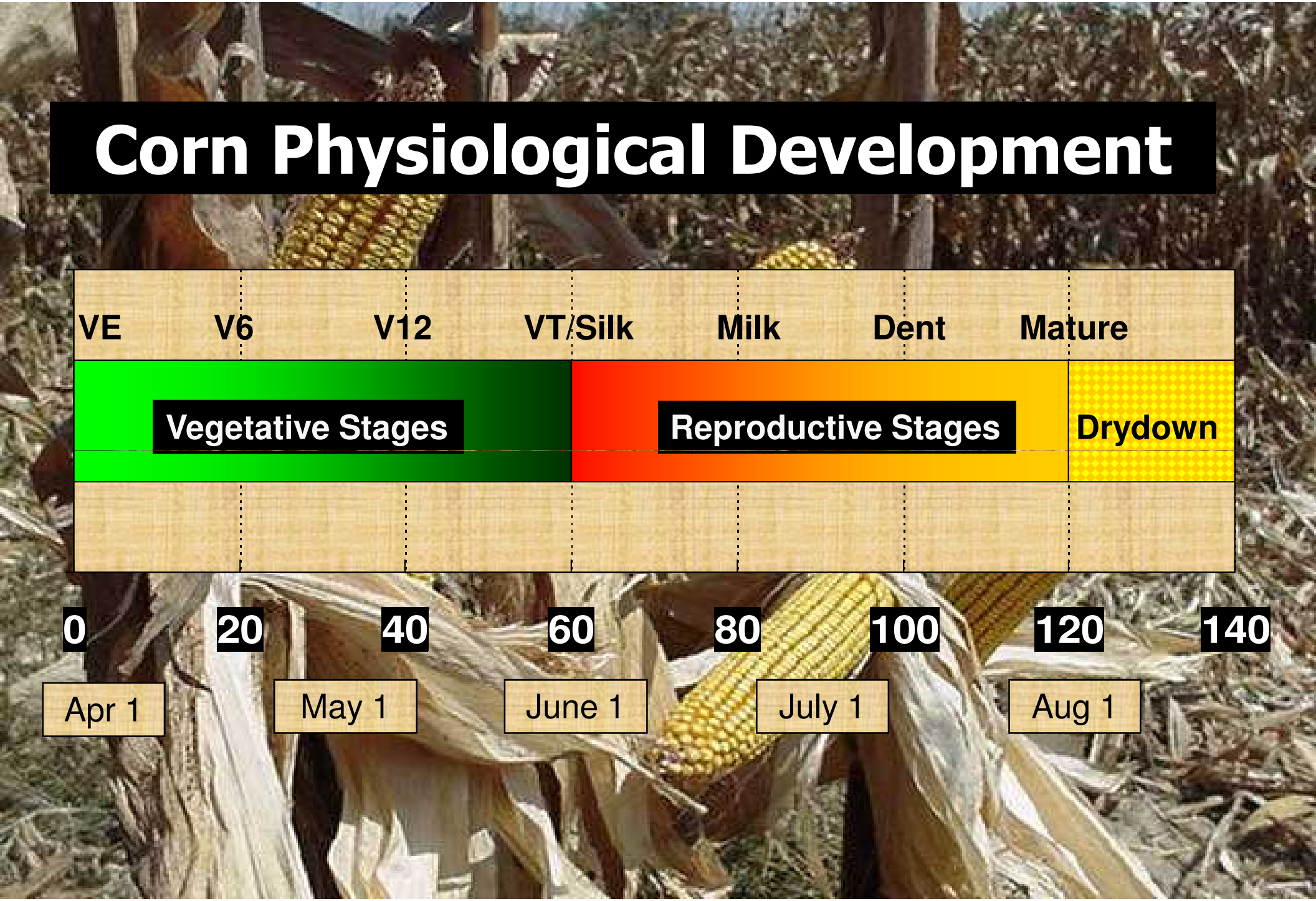
Questions?


Corn Physiological Development
VE
V6
V12
VT/Silk
Milk
Dent
Mature
Vegetative Stages
Reproductive Stages
Drydown
Kernel Row #
0
20
40
60
80
100
120
140
Mar 15
Apr 15
May 15
June 15
July 15

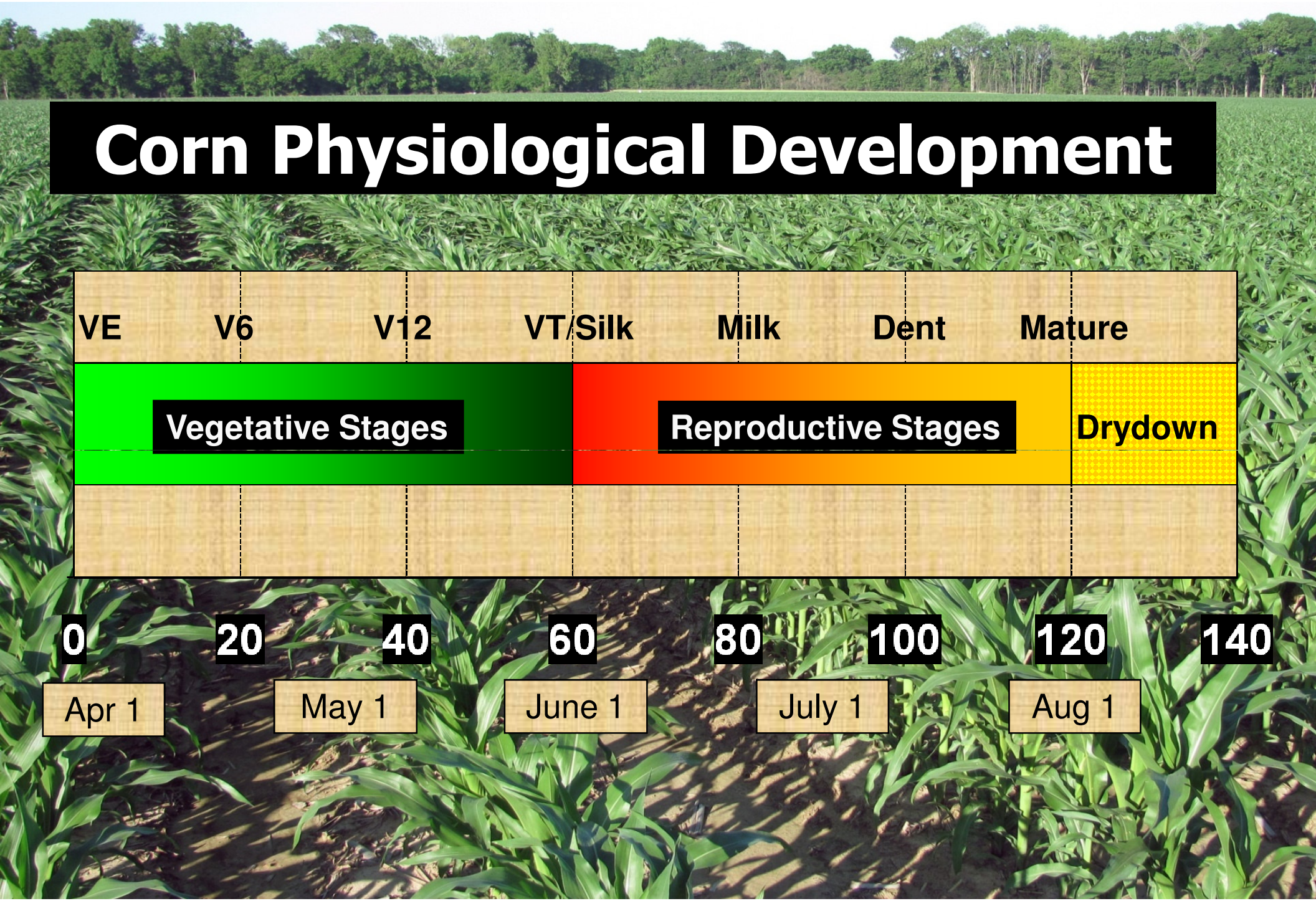

Days after silking
% of Total
20
40
60
100
80
60
40
20
0
Silk
Milk
Dent
Black Layer

Corn Physiological Development




Corn Physiological Development
VE
V6
V12
VT/Silk
Milk
Dent
Mature
Vegetative Stages
Reproductive Stages
Drydown
0
20
40
60
80
100
120
140
Apr 1
May 1
June 1
July 1
Aug 1

Corn Physiological Development



Milk-line