

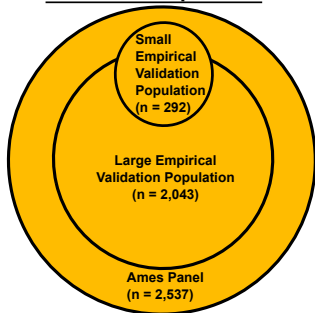
A

Training Population



Model training

Prediction Population



B

36 Phenotypes

Plant Architecture



Upper leaf angle
Plant height *
Leaf width

Middle leaf angle
Ear height *
Leaf length

Flowering



Days to silk *
Days to tassel *
GDD Anthesis-Silking Interval *

GDD days to silk *
GDD days to tassel *

Tassel



Tassel length
Tassel branch length
Secondary branch number
Spikelets-primary branch

Tassel primary branches
Main spike length
Spikelets-main spike

Ear



Ear weight
Total Kernel Weight
Cob diameter
Ear rank number
Seed set length

Cob weight
Ear diameter
Ear length
Ear row number

Kernel



20 kernel weight
NIR starch
Total kernel volume

NIR oil
NIR protein
Germination count

Other

Southern leaf blight
Stand count
Tillering index

C

Validation

