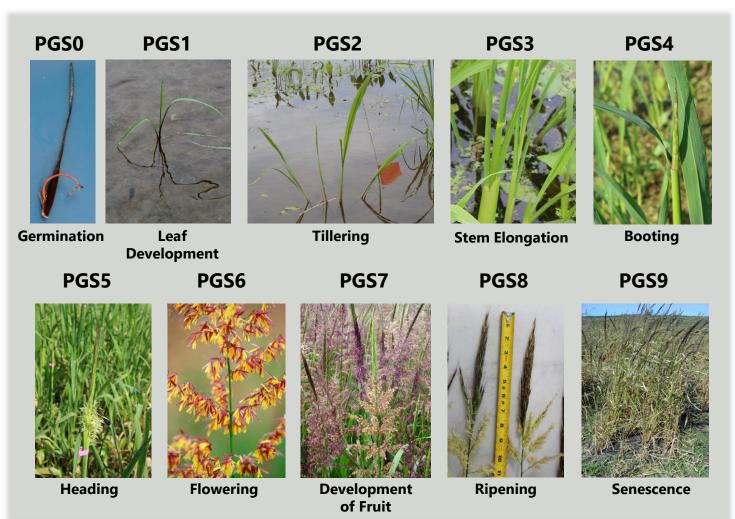


A Phenological Growth Scale for Northern Wild Rice



- → The phenology of a species, which consists of biological events such as germination, flowering, and fruit development, is largely dependent on seasonal changes, unique microclimates, and latitude.
- → A BBCH scale describes the growth stages of a plant throughout its life cycle. In this type of scale there are 10 principal growth stages (PGS).



Principal Growth Stage (PPS)	Period																						
PPS 0: Germination																							
PPS 1: Leaf Development																							
PPS 2: Formation of Tillering																							
PPS 3: Stem Elongation																							
PPS 4: Booting																							
PPS 5: Heading																							
PPS 6: Flowering																							
PPS 7: Development of Fruit																							
PPS 8: Ripening																							
PPS 9: Senescence																							
	Jan	an Feb Mar		ſar	Apr		May		June		July		Aug		Sept		Oct		Nov		Dec		

Representation of chronological progression of northern wild rice principal phenological stages when spring-planted in Northern Minnesota.

- → This coding system standardizes phenological information for growers and researchers.
- ★ It can improve the accuracy of management activities, especially the timing of these practices, and inform crop adaptability to different environments, which in turn can aid in development of breeding programs.