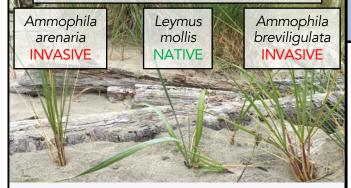
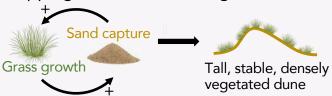


The sand dunes of the PNW are home to 3 dune-building grasses.



These grasses build dunes via a positive feedback loop between trapping sand and vertical growth.



Ecosystem services:

Both Ammophila species build taller dunes than the native Leymus. These dunes provide critical **coastal protection**. However the invasive Ammophila grasses outcompete native plants and **decrease** habitat for some native birds.

A new hybrid:

In 2012, a hybrid Ammophila beach grass was discovered in the PNW. The first step in understanding the impact of this hybrid on coastal protection and biodiversity management is to map how much of it exists. You can help! Simply upload your beach grass photos to iNaturalist.

Want to learn more?

Scan this code to visit our iNaturalist project!



Special thanks to:













A guide to beach grasses of the Pacific Northwest

Learn to identify
American marram grass,
European marram grass,
and their hybrid grass





Ammophila arenaria

European marram grass (AKA European beachgrass)







Identifying characters:

- Stems tightly clumped
- Leaves rolled
- Liqule long, pointy $(\sim 20 \text{mm})$

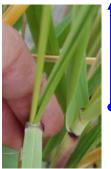
Range:

Present in WA, OR, CA but dominant from central OR to southern CA

Ammophila breviligulata

American marram grass (AKA American beachgrass)







characters:

- •Stems more spread out
- •Leaves wider

Identifying

 Liqule very short and flat (~2mm)

Range:

Dominant from northern OR into WA

A. arenaria x breviligulata

Hybrid marram / beachgrass









(~7mm)



Identifying characters:

•Intermediate liqule length

•Intermediate leaf width

Range:

So far, only found in southern WA and northern OR.

ID tips:

Check the ligule!

The easiest way to tell these grasses apart is using their liqule, the small piece of tissue between the base of the leaf and the stem. A. arenaria has a long, pointy ligule while A. breviligulata has a short, flat one.



Where are you?

Check the ranges of the species to see which one is most likely. A. breviligulata is dominant in WA. A. arenaria is dominant in most of OR.



Not sure? Submit to iNaturalist! Submit photos of the liqule, leaves, and flowers as "genus Ammophila." The curator will figure out the ID.

Leymus mollis

American dune grass







Identifying characters:

- •Leaves very wide leaves with waxy coating
- Prominent midvein
- •VERY short liqule (<1mm)

Range:

Present in WA, OR, and CA but never dominant

Naturalist

How to submit an observation:

- 1) Log on to iNaturalist.org or open the app
- 2) Click the "Upload" or "Observe" button



Website

3) Select all your photos of this individual including the:







a) plant

b) liqule

c) flower (if present)

- 4) Fill in your species ID (date and location should auto fill)
- 5) Click "Submit"!

Your observation is automatically uploaded to the Beachgrass Mapping Project.