

Ecological site R226XY080AK Sandy Beach (AK653 St Paul Island)

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General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs immediately adjacent to the ocean. It includes the low and high tidal zones as well as the storm tide influenced zones. This site occurs intermittently along the water edge and varies depending upon tidal fluctuations and hydraulics resulting from high-energy wave impact. This site is associated with Rocky Beach site. The occurrence or absence of this site is dependent upon parent material and landforms.

Table 2. Representative physiographic features

Landforms	(1) Beach
Flooding duration	Brief (2 to 7 days) to long (7 to 30 days)
Flooding frequency	Occasional to frequent
Elevation	0–10 ft
Slope	0–5%

Climatic features

Table 3. Representative climatic features

Frost-free period (average)	120 days
Freeze-free period (average)	100 days
Precipitation total (average)	24 in

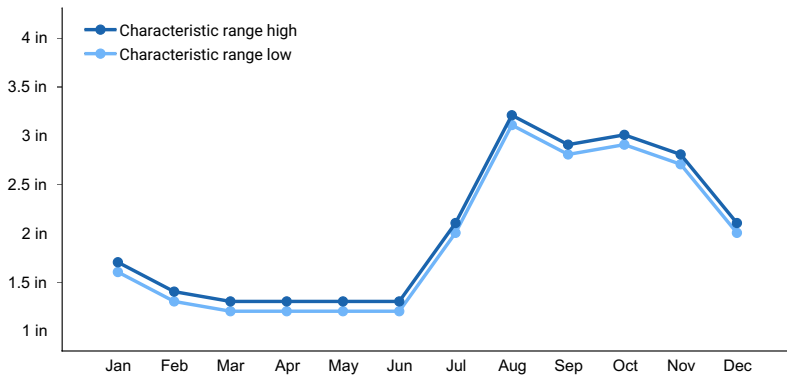


Figure 1. Monthly precipitation range

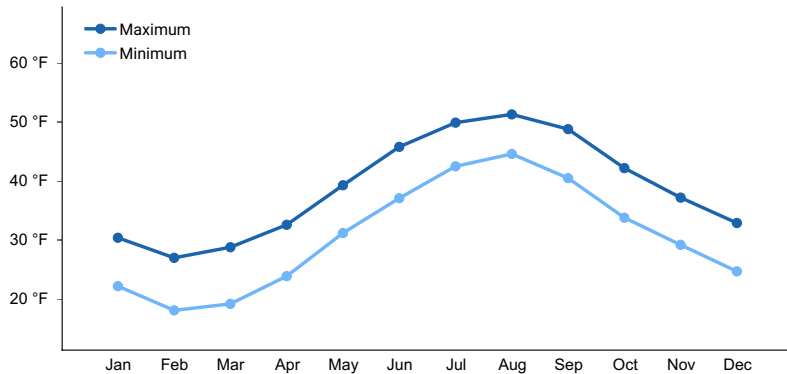


Figure 2. Monthly average minimum and maximum temperature

Influencing water features

Soil features

Ecological dynamics

There are no macro-flora growing on this site. Several tons of kelp biomass may accumulate after storm tides.

State and transition model

Animal community

Important quantities of kelp accumulate on the beach after major storm tides during any time of the year. Important minerals such as salt (sodium chloride) and elements such as potassium, iodine, phosphorous, and trace elements can be acquired from the kelp; these minerals help to supplement potentially mineral deficient diets. Sites that are accessible can provide high value kelp when available. This site provides valuable feeding habitat for shore birds and waterfowl. Reindeer will utilize this area for insect relief. These areas are also important Northern Fur Seal haul out areas in the summer time when the seals return to the island to give birth and breed.

Recreational uses

Beach combing

Wood products

Beach logs can often be found on these beaches, and are preserved by the salt water. They are usable for fenceposts and corrals.

Other products

Plastic fishing and crabbing floats are commonly found on these beaches.

Contributors

Swanson

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

1. **Number and extent of rills:**

2. **Presence of water flow patterns:**

3. **Number and height of erosional pedestals or terracettes:**

4. **Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):**

5. **Number of gullies and erosion associated with gullies:**

6. **Extent of wind scoured, blowouts and/or depositional areas:**

7. **Amount of litter movement (describe size and distance expected to travel):**

8. **Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):**

9. **Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):**

10. **Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:**

11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):**

12. **Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):**

Dominant:

Sub-dominant:

Other:

Additional:

13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):**

14. **Average percent litter cover (%) and depth (in):**

15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):**

16. **Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:**

17. **Perennial plant reproductive capability:**
