



## Wapato, *Sagittaria latifolia*

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### Range

- Ø All over the U.S. except Nevada (5)

### Climate, elevation

- Ø Moist, mild climate; low elevations (2)

### Local occurrence (where, how common)

- Ø Often grows in marshes and along shorelines, and on edges of lakes, ponds, and sloughs (1 and 3)
- Ø Most commonly occurring in the vicinity of the Columbia River below Bonneville Dam (1)

### Habitat preferences

- Ø Often in mucky soils (1)
- Ø Freshwater marshes

### Plant strategy type/successional stage (stress-tolerator, competitor, weedy/colonizer, seral, late successional)

- Ø Tolerates inundation up to two feet (4)
- Ø Tolerates turbidity, mild pollution, and pH levels of 5.9 to 8.8 (4)
- Ø Can tolerate fluctuating water levels and prolonged soil saturation (2)
- Ø Can form monotypic stands or be part of a diverse marsh community

### Associated species

- Ø Sedges (*Carex* spp.), Rushes (e.g. *Juncus effuses*), nodding beggarticks (*Bidens cernua*), yellow flag iris (*Iris pseudacorus*) (1)

### May be collected as: (seed, layered, divisions, etc.)

- Ø Seed (4)
- Ø Tubers (4)

### Collection restrictions or guidelines

- Ø Collect seeds in fall
- Ø Tubers can be harvested after plant senesces (2)

Propagation recommendations (plant seeds, vegetative parts, cuttings, etc.)

- Ø Plant seeds after collection in pots with mucky soil, and allow to establish in greenhouse (2)
- Ø Tubers can be divided (4)
- Ø Can seed directly on-site

Soil or medium requirements (inoculum necessary?)

- Ø Silty/mucky soil with high water holding capacity (2)

Installation form (form, potential for successful outcomes, cost)

- Ø Tubers (must bury 4 to 6 inches to prevent floating to surface, best done during a dry period that will be followed by inundation) (4)
- Ø Direct seeding (2)
- Ø Established seedlings

Care requirements after installed (water weekly, water once etc.)

- Ø Soil must be kept consistently moist, tubers can not survive extended drying (4)
- Ø Waterfowl must be excluded from site, because they graze on tubers (4)

Sources cited

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3. Pojar, Jim and Andy MacKinnon. Plants of the Pacific Northwest Coast-Washington, Oregon, British Columbia and Alaska. B.C. Minisrty of Forest and Lone Pine Publishing. 1994.
4. Stevens, M. and R. Vanbianchi. 1993. Restoring Wetlands in Washington: A Guidebook for Wetland Restoration, Planning and Implementation. Washington State Department of Ecology Publication 93-17, 110 p.
5. USDA, NRCS. 2002. The PLANTS Database, Version 3.5 (<http://plants.usda.gov>). **National Plant Data Center**, Baton Rouge, LA 70874-4490 USA.

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