



## Planting Techniques

1. Fall planting
  - a. Fall and spring plantings were compared with monitoring data collected from the 2013-2016 plantings, and overall, there was no season effect found on survival. However, fall plantings resulted in a higher survival rate in planting locations that showed higher success of plantings overall.
  - b. Fall plantings allow for greater flexibility with planting timing and obtaining plants from the nursery.
  - c. Best planting dates are typically from late October through November depending on fall moisture patterns.
  - d. It is best to delay planting until at least one significant rainfall event to allow for easier drilling and planting.
  - e. Planting should occur prior to ground freeze or significant snowfall.
2. Pot size
  - a. 10 cubic inch and 58 cubic inch pot survival rates were compared with monitoring data collected from the 2013-2016 plantings. No pot size effect was found, and Latah SWCD will move forward with 10 cubic inch pots as they are smaller and lighter, which allows for easier transport to the planting locations.
  - b. 58 cubic inch pots may be used if needed. For example, plants that need to be carried over to the next year in the plant nursery may need to be potted up from 10 to 58 cubic inch pots to allow for additional plant growth.
3. Planting site locations
  - a. Aspect - previous monitoring of Spalding's catchfly within the Paradise KCA (data collected from 2013-2020) has shown that the highest survival rates have consistently been occurring on sites located on west, northwest, and west-northwest aspects.
  - b. Sites to be avoided on the Paradise KCA include south aspects (thin soils, and less moisture), and north aspects (often densely covered by sedge and forb communities or shrub and tree dominated on the Palouse). This is counter to habitat suitability in other physiographic regions like the Canyon grasslands where Spalding's catchfly is primarily found on north-facing slopes.
  - c. Palouse Prairie remnants are sensitive areas, and extra care should be taken during planting to minimize disturbance of the site.
4. Planting arrangement
  - a. Plant Spalding's catchfly in clumps of 3-10 for easier relocation and to enhance pollination success
  - b. For planting at transect locations, plants are arranged in clumps of 5 in a star pattern. See [monitoring protocol](#) for details.
5. Drilling
  - a. Use gas-powered augers with appropriately sized bits.
  - b. Drillers should ensure that they are drilling into the interspaces between existing bunchgrasses and forbs as much as possible.
  - c. The holes should be drilled deep enough for the planter to insert the plant without j-hooking the root. If the hole is too deep, planters may need to fill the hole with extra soil to prevent the plant from being planted too deeply. A small depression in the soil surrounding the plant is okay and may be beneficial to encourage water pooling and infiltration in the planting zone. The top of the plant should be just below the natural soil surface with no potting soil or roots exposed.
6. Watering
  - a. Each plant will be watered at least twice on planting day. During fall plantings, Spalding's catchfly plants may be dormant or nearly so, and watering may seem

unnecessary if there is seemingly sufficient soil moisture. However, watering helps to eliminate air pockets and provides additional soil moisture for the plants to utilize in the case of unseasonably dry/warm conditions.

- b. Care should be taken to gently water near the base of the plants to prevent soil wash out and subsequent root exposure.
7. Mulching
    - a. Placing a certified weed-free straw mulch around the base of the plants is beneficial for multiple reasons:
      - i. Increases soil moisture
      - ii. Prevents weed encroachment as plants are establishing
      - iii. Highlights planting location for easier relocation
    - b. Pelletized and shredded straw mulch have been used successfully in the past.
  8. Data management
    - a. Data sheets, field notes, site maps, shapefiles and photos will be stored in a monitoring folder on the Latah SWCD network in the landowner's customer folder.
    - b. Monitoring techniques are detailed in the updated [monitoring protocol](#).



Latah SWCD field crew on planting day



Planting materials





Group of 5 Spalding's catchfly: 10 cubic inch pots



Group of 5 Spalding's catchfly planting: 58-cubic inch pots



Clump of 10 Spalding's catchfly with straw mulch



Newly planted Spalding's catchfly with straw mulch

### Spalding's Catchfly Growth Forms



Rosette



Stem plant



Flowering



Seedling

### REFERENCES

Latah SWCD. 2025. Spalding's Catchfly Survival Monitoring Protocol.  
<https://www.latahswcd.org/spaldingscatchfly>

U.S. Fish and Wildlife Service. 2007. Recovery Plan for *Silene spaldingii* (Spalding's Catchfly).  
U.S. Fish and Wildlife Service, Portland, Oregon. Xiii + 187 pages.