

Native Forb Seed Production



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Outline

- ◉ Wild-collect v. Field Production
- ◉ Seed Quantity
- ◉ Field Establishment
- ◉ Field Longevity
- ◉ Harvest Method
- ◉ Production Yield



Wild-collect v. Field Production

- ◉ Project goals
- ◉ Species considerations
- ◉ Feasible



Wild Collection

- Insufficient lead time
- Low or slow production potential
 - *Balsamorhiza* sp.
- Challenging species
 - Labor intensive harvest
 - Seed cleaning difficulty
 - *Machaeranthera canescens*
 - *Symphyotrichum* sp.



Field Production

- Success stories

- *Eriogonum*, *Erigeron*,
Penstemon, *Lomatium*,
Lupinus, *Phacelia*, etc.

- Protocol plots

- Potential candidates,
unfamiliar species





Seed Quantity

- Recommended for 0.1 acre plot
 - Account for TZ and purity
- Additional Considerations
 - Extra seed
 - Poor emergence
 - Ineffective seed treatment
 - Timing is everything!



Field Establishment

- Method of propagation
 - Field direct seed (DS)
 - Transplants (plugs/tubes)
- Timing
 - Species dependent
 - Spring and Fall



Planting Method

- Direct seed
- Species dependent
 - Annuals
 - Species with no dormancy or treatment requirements
 - Species that don't transplant well
 - Weed management



Timing of Planting

- Direct seeded species
- Fall
 - Seed treatment requirements
- Laborious weed control





Planting Method

- Greenhouse propagation
- Ray Leach Cone-tainers (plugs/tubes)
 - 4 cubic inch
 - 10 cubic inch
- Transplant success



Timing of Planting

- Transplants (plugs/tubes)
- Spring and Fall establishment
- Improved weed control





Field Longevity

- Long-lived perennials
- Short-lived perennials
- Annuals



Harvest Method



Production Yield

○ Annual

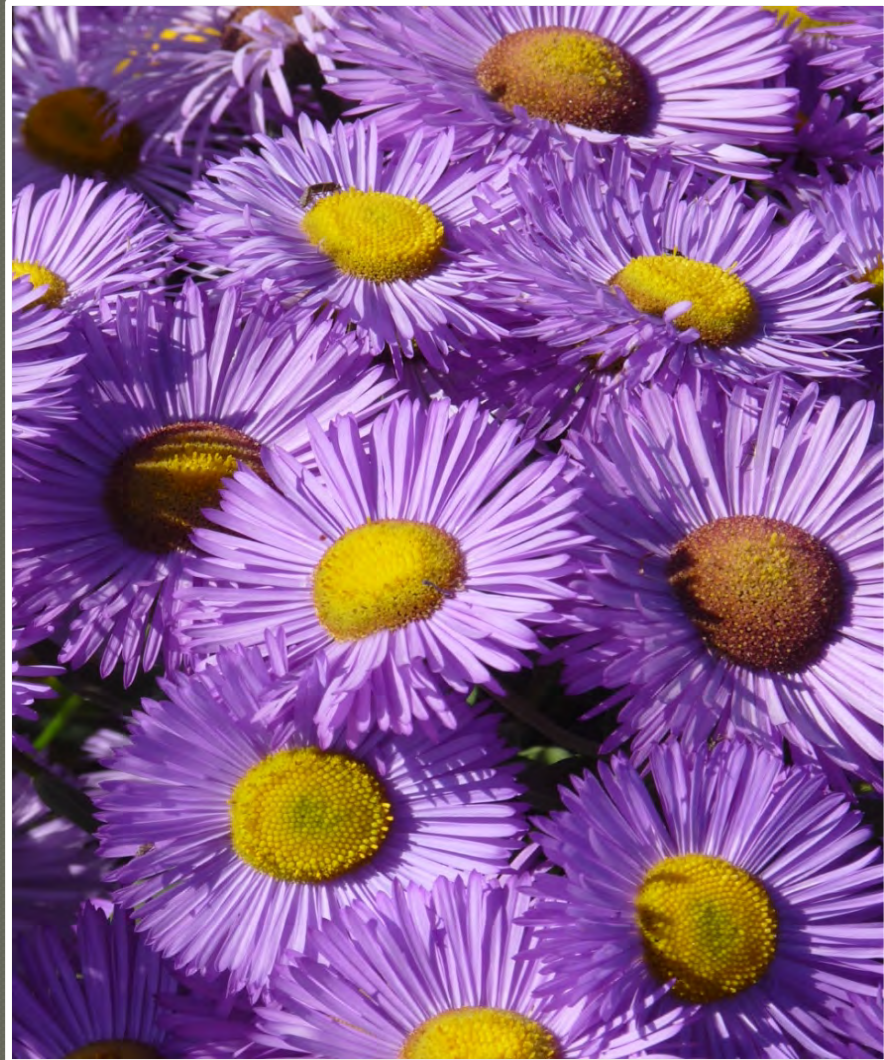
- *Cleome lutea*
- *Clarkia amoena*
- *Polanisia
dodecandra*
- *Leptosiphon
(Linanthus) bicolor*



Production Yield

- Perennial

- *Astragalus filipes*
- *Dalea ornata*
- *Erigeron*
- *Eriogonum*
- *Penstemon*



Our Pollinators















Questions?





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This and additional presentations available at <http://nativeseed.info>

