Main activities during 2015 growing season included:

- Growing plugs for field seed increase and on site revegetation
- Maintenance of existing plantings
- Seed harvest
- Seed cleaning

Growing plugs for field seed increase and on site revegetation

Following species were selected for seed increase in the field this spring:

*Beckmannia syzigachne* AK930-621

*Trisetum spicatum* AK930-636

*Festuca saximontana* AK930-615

Nine hundred plugs were planted in March in the greenhouse. By May young plants were well established and in June they were transplanted in the field. Due to very warm weather and irrigation, plants grew fast and some of them set seed which was harvested in the fall. For example, Beckmannia syzigachne transplanted in May produced large amount of seed by the end of the summer.

Fig. 1. *Beckmannia syzigachne* with numerous seed heads
Over seven hundred additional plugs were grown to be used in on site revegetation project. This species are:

*Carex athrostachya* AK930-631

*Carex bonanzensis* AK930-628

*Carex utriculata* AK930-638

*Carex saxatilis* AK930-622 and AK930-627

*Juncus arcticus* AK930-629

These plugs were started at the end of January because they required a month long pre chill to overcome dormancy, which is usual for *Carex* and *Juncus*. By the time plants were transported to the site they were very well rooted and ready to be put in the ground.

![Carex sp. ready to be transplanted on site.](image)

**Maintenance of existing plantings**

Most of the species planted previous summer overwintered successfully. Even with very little snow cover winter damage wasn’t observed. Seed from these plantings was harvested for first time in 2015. The only specie that didn’t produce any seed was *Fesuca altaica* AK930-105+165.
Weed management program was implemented for the last few seasons. It included mechanical and chemical methods. Field plantings were fertilized in the beginning of the season and irrigated during the season.

**Seed Harvest**

Seed from the following species was harvested from field increase plots and box garden:
- Festuca rubra AK930-497
- Deschampsia cespitosa AK930-452
- Deschampsia cespitosa AK930-159
- Trisetum spicatum AK930-204
- Leymus mollis AK930-456
- Poa alpina AK930-162
- Calamagrostis canadensis AK930-457
- Bromus inermis AK930-480
- Beckmannia syzigachne AK930-621
- Arctagrostis latifolia AK930-165
- Arctagrostis latifolia AK930-465
- Arctagrostis latifolia AK930-527
- Chamerion latifolium AK930-391
- Hedysarum alpinum AK930-522
- Hedysarum alpinum AK930-95
Seed cleaning

During 2015 field season, BLM staff obtained sixty six seed collections. They were brought to the Plant Materials Center (PMC) where they will be cleaned shortly. Number of seed per gram and the approximate number of seed in the seed lot will be calculated. Out of these collections 10,000 seeds of each seed lot will be sent to the Plant Introduction Station in Pullman, WA. The rest will be kept at the PMC for future revegetation needs.