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## **Partnerships for developing regional native seed sources for use in restoration**

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Acquiring native seed from genetically , local sources to use in restoration and revegetation projects on western U . S . rangelands requires long term planning and collaboration . Grass and forb seed of local provenance is difficult to locate in the marketplace and in many cases is more expensive than non-native and native cultivars . There are many benefits to using seed of local origin : they assist in returning more normal fire intervals and fuel loading ; use less water ; provide food sources for native insects , birds and other wildlife ; compete with weeds ; are less likely to be invasive or overly competitive with other native vegetation ; protect biodiversity and stewardship of our natural heritage and are more genetically diverse and therefore able to adapt to changing climate and environmental conditions . In order to develop native seed for restoration in an efficient and economic way , a partnership was formed within the Deschutes Basin of Central Oregon .

The Deschutes Basin Native Plant Seedbank (DBNPS) formed as a collaboration of over 20 partners to collect , propagate , store , and provide local seed of common restoration species to federal , state , local agencies ; non-profit organizations ; private companies and landowners involved in restoration and revegetation activities in the Deschutes Basin . The Seedbank secures funding , coordinates contract growers , distributes seed , facilitates cooperation between formal partners and other users of the Seedbank and provides educational opportunities concerning the benefits of native plants , their use and seeding guidelines . In 2004 , a formal agreement , Memorandum of Understanding (MOU) , was drafted and signed by the cooperators .

In the last three years the organization accomplished many of its goals : we wild collected and contracted native seed farmers to grow seed of eight species ( six grasses and two forbs ) ; we designed and distributed 10 ,000 brochures to provide guidelines for seeding native species ; sold over 1 ,000 kilograms of seed to 30 customers for an average price of \$ 12 USD/lb . ; and secured funding for our operating budget by receiving federal and state grants , donations and seed sales . In the future we plan to monitor collaborators' revegetation projects in order to determine the effectiveness of our seed .

After a few years of successful operations , the Seedbank recently formed a non-governmental , non-profit organization (NGO) . DBNPS is similar to a buyers cooperative providing relatively affordable , local seed of bluebunch wheatgrass , (*Pseudoroegneria spicata*) , bottlebrush squirreltail (*Elymus elymoides*) , Basin wildrye (*Leymus cinereus*) , Sandberg's bluegrass (*Poa secunda*) , Idaho fescue (*Festuca idahoensis*) , Thurber's needlegrass (*Achnatherum thurberianum*) , western blue flax (*Linum perenne* var . *lewisi*) , and basalt milkvetch (*Astragalus filipes*) . Species for collection and propagation were selected by a majority vote of the partners . Wild collections incorporated the diversity within the Basin ; elevation , slope and soil conditions . All available seed was sold each year . The Seedbank has proven to be an effective model for other regions interested in creating partnerships for developing native plant materials .