

Noxious Weed Data Bases

Various offices and groups have developed noxious weed data bases. Listed below are some of the weed data bases and a brief description on what they were developed for:

Montana Weed Surveying and Mapping Data Base

The primary objective of weed surveying and mapping is to accurately identify and delineate land with populations of unwanted plants. These surveys are conducted so scientists and managers can predict those areas that are potentially subject to weed invasion; understand the biology of the invasion process and determine means by which weeds spread; develop, implement and evaluate weed management plans; assess the economic impact of weed invasion, and increase public awareness, education and weed management efforts.

The specific objective of the Montana Noxious Weed Survey and Mapping System are:

- to determine and record locations of noxious weeds
- to accurately calculate the total numbers of acres infested for each weed inventoried
- to determine how fast noxious weeds are spreading by comparing weed inventories from year to year.

This data base was developed by Diana Cooksey and Elizabeth Roberts at Montana State University, Bozeman, Montana 59717 Telephone: (406) 994-5684. MSU requested that the Bureau of Land Management, Montana State Office, Geographic Information System Group assume the maintenance of this mapping program, developed as an ArcView mapping application.

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Montana BLM Noxious Weed Treatment Data Base

This data base was designed to track infestation areas, and treatments of those infestation areas. Treatments within this data base can be biological, chemical, domestic animal or

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mechanical or a combination of these treatments. This weed data base also stores information necessary for generation of yearly reports, and other reports as requested. The basic data base was developed by Mitch Forsyth of Havre Field Station and then modified and updated by the BLM Montana State Office. This application is written for the Unix platform using Informix as the database.

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Idaho/Oregon Noxious Weed Treatment Data Base

This data base is basically the same as the Montana BLM Noxious Weed Treatment Data Base. However this one was developed by the BLM Boise, Idaho Field Office, BLM Vale, Oregon District Office and their cooperators with the basic database design by Danielle Bruno, Idaho Department of Agriculture, P.O. Box 790, Boise, ID 83701
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These last two data bases are designed to:

1. Track infestation areas over time.
2. Track treatments of infestation areas over time.
3. Treatments within this data base can be biological, chemical, domestic animal or mechanical in nature or a combination of these treatments.
4. Generate yearly reports and other reports as requested.
5. Link to mapping data stored in a Geographic Information System through a site identification field.

This application is written to run in MS Access on Microsoft 95/98 or NT platforms.

The three above data bases are developed so that they can be combined or worked together.

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Southwest Exotic Plant Mapping Program Data Base

This data base was a cooperative effort among many federal, state and private individuals to develop a mapping data base. The USGS-BRD has the lead on this program called SWEMP, www.usgs.nau.edu/swemp

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