Project Summary Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title Non-native Plants Survey of the Greater Vellowstone Inventory and
Monitoring Network (GRYN): Study Plan
Type of Project: Research/biological science
Funding Agency: National Park Service
Effective Dates: May 1, 2003 - March 30, 2004
Funding Amount: \$41,000
Investigators and Agency Representative:
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Project Abstract: The cooperator will:
Increase baseline knowledge on the locations of exotic, invasive, novious
weed populations within network parks
Survey targeted areas (habitats and areas at risk for invasion by priority
non-native plant species and areas that have not been adequately surveyed in
previous efforts) to acquire baseline distribution and abundance information
on selected non-native plant species. Survey crews from MSU will map exotic
plants from selected areas of the Northern Range of Yellowstone NP and will
collaborate on weed mapping surveys of the valley floor of Grand Teton NP.
Identify environmental characteristics that correlate with exotic plant
distribution.
Identify high priority areas for weed management action.
Gain an increased knowledge of resource threats related to noxious weed
establishments (e.g. degradation to native habitats, loss of wildlife forage,
threats to T&E species, loss of cultural landscape, accelerated erosion).
Produce GIS-based maps/database for each weed species' distribution that can
be queried for weed management planning.
Increase individual parks ability to establish effective weed monitoring
programs/ activities.
Further refine the MSU sampling methodology by applying it to a broader
geographic region of the GRYE, a methodology that will lead to a predictive
model for identifying areas and habitats of high risk for exotic plant
Intestation.
will provide information on invasive plants within VELL and CDEE and to
adequately capture information on environmental factors that contribute to
the distribution and abundance of these plants
Outcomes with completion dates: This will lead to a predictive model for identifying
areas and habitats of high risk for exotic plant infestation.
Keywords: Greater Yellowstone Network, non-native plants, Yellowstone NP,
Grand Teton NP, noxious weeds
For Administrative use only:
Date Annual Report Received:
Date Final Report Received:

Publications, etc. on file: