

Invasive Species Management Cumulative Effects Checklist

Resource Area Human Health and Safety

Date 4 May 2010 Reviewed April 26, 2012

Spatial Boundary: Please fill in the spatial or geographical boundary for the resource area to be addressed.

Because all project-related activities will be confined to the Shawnee National Forest, and the area under consideration are a number of project areas included within the Shawnee National Forest, and all potentially hazardous materials will be used according to safe-handling directions, it is reasonable to limit the analysis to the Shawnee National Forest boundary.

Temporal Boundary: Please fill in the temporal boundary for the resource area to be addressed.

The temporal boundary is the amount of time required for the proposed chemicals, if any, to break down; beyond that timeframe any impacts from these activities would have been stabilized and no longer contributing to the cumulative effects. Five years was chosen to look back at these specific actions because their effects would be negligible beyond a five-year timeframe.

Past, Present and Reasonably Foreseeable Future Actions

Past, present and future actions for the project area are listed at the beginning of Chapter 3 of the Invasive Species Management Environmental Assessment. The effects of these projects are bounded in time and analyzed cumulatively with the anticipated effects of the proposed action for each resource. Reasons that the identified past, present or foreseeable future action will not have cumulative effects should be based on one or more of the following:

- a) The proposed action has no direct or indirect effects relative to the issue.
- b) The identified past/present/future action has no direct/indirect effect relative to the issue.
- c) The identified past, present and future actions are removed, temporally or spatially, from the proposed action to an extent that there is no combined effect on the specific resource of issue.
- d) There is no difference in effects between the action alternatives and the No Action alternative.

Action	Scope of Action
Agriculture (cultivated - row-cropping)	About 526,500 acres (past, present and future).
Agriculture (pastureland)	About 59,200 acres (past, present and future).
Wildfires	About 85 acres per year (past). About 1,000 acres per year (future).
ATV Use	Variable use in watersheds (past, present and future).
Utility Right of Way Maintenance	About 250 miles per year maintained with herbicide (past, present and future).
Non-system Trails	Estimate less than 100 miles of trail (past, present and future).

Action	Scope of Action
Invasive Species Control (private land)	About 100 acres treatment per year (past and present). About 200 acres herbicide treatment (future).
Residential Development	About 2000 houses per decade (past and future).

D WILL NOT HAVE CUMULATIVE EFFECTS WITH THE PROPOSAL

Explain: There will be no cumulative effects on human health and safety as a result of the above-mentioned actions, because there is no difference in effects between the action alternatives and the No Action alternative. These actions occur on private land or are not controlled by the government. There will be no difference in the effects as a result of choosing one alternative over another.

Action	Scope of Action
Prescribed Burning	About 3,000 acres per year (past). About 10,000 acres (present and future).
Timber Harvest/Firewood Cutting	About 1000 acres per year (past, present and future).
Timber Stand Improvement	About 800 acres per year (past, present and future).
Recreational Use	About 300,000 people visited the Forest for recreation. About 37,000 for horseback riding About 150,000 for hiking or walking About 37,000 for hunting About 16,000 for fishing About 5,000 for gathering forest products (mushrooms, berries, and others). About 600 for bicycling
Road (including right of way) maintenance	About 300 miles per year (past, present and future). About 1000 acres per year (past, present and future).
Tree Planting	About 500 acres per year (past, present and future).
Trail construction, reconstruction and maintenance	About 75 miles maintained per year (past, present and future). About 10 miles per year constructed or reconstructed.
Special-use Permits (telephone, electric, water and driveways).	Estimate less than 20 acres per year (past, present and future).
Openlands Management	Disking and planting about 200 acres (past). Disking and planting about 100 acres (future).

A WILL NOT HAVE CUMULATIVE EFFECTS WITH THE PROPOSAL

Explain: There will be no cumulative effects to human health and safety as a result of the implementation above-mentioned actions, because the proposed action has no direct or indirect effects relative to the issue. A methodology including mitigation measures, is in place to protect the health and safety of the public as well as the FS and others who may be working with or around the herbicides.