

Forestry BMPs for Invasive Species Checklist

Chapter	Invasives BMP	N/A	Yes	No	Comments/Decisions made
3. Management Planning	Property planning				<i>Are invasive species part of the Property Plan? Does the Timber Sale Plan/Contract address invasive species?</i>
	Activity planning	3.2: Prior to implementing management activities, scout for and locate invasive species infestations, consistent with the scale and intensity of operations.			<i>Is invasive species scouting part of normal stand inventory and monitoring? Are there invasive species on adjacent activity areas? Consider scouting landings, skid trails, recreation trails, new plantings, and stands of dead/dying/stressed trees for invasive species.</i>
		3.3: Consider the need for action based on: 1) the degree of invasiveness; 2) severity of the current infestation; 3) amount of additional habitat or hosts at risk for invasion; 4) potential impacts; and, 5) feasibility of control with available methods and resources.			
		3.4: Plan management activities to limit the potential for the introduction and spread of invasive species.			<i>Keep in mind the following: timing, cleaning, boundaries, scheduling, ground disturbance, forest structure, transport.</i>
		3.5: Plan for post-activity management of highly damaging invasive species.			<i>Is monitoring necessary to check for new infestations or the spread of existing populations of invasives? Is reforestation, revegetation or restoration necessary?</i>
4. Forest Stewardship	4.1: Provide training in identification of locally known invasive plants and pests to forest workers.				
	4.2: If pre- or post-activity control treatments are planned, ensure that they are applied within the appropriate time window.				<i>Consider life history of target species. Is there enough time to apply controls prior to activity? Is harvest taking place when trees are at high or low risk of infection following wounding? When does harvested material need to be removed from the site to prevent infestation or spread of invasives?</i>
	4.3: Consider the likely response of invasive species or target species when prescribing activities that result in soil disturbance or increased sunlight.				<i>What is the likely response of the target species to increased light? Soil disturbance? What is the likely response of the invasive species to increased light? Soil disturbance?</i>
	4.4: Prior to moving equipment onto and off of an activity area, scrape or brush soil and debris from exterior surfaces, to the extent practical, to minimize the risk of transporting propagules.				<i>Will cleaning take place where equipment is loaded/ unloaded; where invasives are less likely to spread; where invasives are already established? Will site require follow-up monitoring for invasives?</i>
	4.5: Take steps to minimize the movement of invasive plants, pests and diseases to non-infested areas, during forest stewardship activities.				<i>Can work be carried out under conditions that minimize the risk of spread? Can infested areas be excluded from travel corridors? Is harvest taking place when trees are at high or low risk of infection following wounding? Can activities be carried out in noninfested areas first?</i>
	4.6: Take reasonable steps to avoid small, isolated, populations of invasives during forest stewardship activities.				<i>Have areas of avoidance been identified prior to activity?</i>
5. Forest Access	5.1: To the extent practical, use existing roads, skid trails and landings to reduce disturbance.				<i>Are invasives present on existing accesses?</i>
	5.2: Avoid constructing new roads, skid trails and landings in areas infested with invasive species where possible.				
	5.3: Avoid spreading seeds and other propagules from infested to non-infested areas during road maintenance, reconstruction, new construction, and closure. (See also BMP 4.4).				<i>Can work be carried out under conditions that minimize the risk of spread? Can infestations along accesses be treated prior to activities? Can activities be carried out in noninfested areas first?</i>
	5.4: Where site conditions permit, allow natural revegetation of the roads, skid trails and landings to occur. If seeding or planting is necessary to minimize the threat of highly damaging invasive species from spreading, use native seed or non-invasive cover crops for revegetation. (See also BMPs 6.2 and 6.3).				<i>Are invasive plant species present or nearby? Are desirable plant species present or nearby? Will road, trail, landing receive continued use?</i>
	5.5: Ensure, to the extent practical, that fill and gravel are free of invasive species and their propagules.				

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6. Reforestation and Revegetation	6.1: Limit the introduction and spread of invasives during reforestation or revegetation site preparation activities. (See also BMP 4.4).				<i>Are invasive species present and/or are their propagules thought to be in the soil seedbank? Can site preparation be conducted when propagules are not present? Can targeted site preparation (spot herbicide spraying, patch or row scarification) work for this site?</i>
	6.2: Revegetate or reforest as quickly as feasible after site disturbance. (See also BMP 5.4).				
	6.3: When consistent with site conditions and goals, allow natural revegetation of the ground layer to occur. If seeding or planting is necessary to minimize the threat of highly damaging invasive species from spreading, use native seed or non-invasive cover crops for revegetation. (See also BMP 5.4).				<i>Is the area subject to continued disturbance? Are invasive species known to be in the seedbank? Natural regeneration is not likely in these situations.</i>
	6.4: Select plant materials that are site appropriate to favor establishment and vigor.				
	6.5: Plan for post-planting management of invasive species (See also BMP 3.5).				
7. Wildlife Habitat Management	7.1: Provide training in identification of locally known invasive plants and pests to land managers whose objective is wildlife management.				
	7.2: Select non-invasive species for seed mixes and plant materials used in wildlife habitat projects. (See also Chapter 6: Reforestation and Revegetation.)				
	7.3: If invasive tree or brush removal is planned, ensure that it is applied within the appropriate time window such that introduction and spread of invasive species is limited.				<i>What is the life history of the target species in relation to timing of control methods and harvest?</i>
	7.4: If desirable (native or non-invasive exotic) tree or brush removal is planned as part of habitat enhancement, ensure that it is applied within the appropriate time window such that introduction and spread of invasive species is limited.				
	7.5: Prior to moving equipment onto and off of a management unit, scrape or brush soil and debris from exterior surfaces, to the extent practical, to minimize the risk of transporting propagules.				<i>Is there a designated cleaning area?</i>
	7.6: Take steps to minimize the movement of invasive plants, pests and diseases to non-infested areas during habitat maintenance activities.				<i>Can work be carried out under conditions that minimize the risk of spread? Can infested areas be excluded from transportation corridors?</i>
	7.7: Determine the likely response of invasive species or target species when prescribing activities that result in soil disturbance or increased sunlight.				<i>Which invasive species are present? Which species do you want to promote? How will these respond to increased light levels? How will these respond to increased soil disturbance?</i>

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8. Fire Management	Pre-fire, pre-incident training					
	Prescribed fire	8.2: Avoid placing fire breaks in infestations of invasive species.				
		8.3: Incorporate invasive species considerations into the planning of prescribed burns. (See also Chapter 3: Management Planning).				<i>Is there an invasive species present that will be promoted rather than discouraged by fire? If so, are follow up control measures planned?</i>
		8.4: Avoid spreading invasive seeds and other propagules from infested to non-infested areas during fire management activities. (See also BMP 4.4).				
		8.5: Following a prescribed burn, rehabilitate soil disturbance related to burn activities, especially bladed or plowed firelines, where invasive species establishment is likely. (See also BMPs 6.2 and 6.3).				
	Wildfire suppression	8.6: When possible, avoid infestations when constructing fire breaks.				
		8.7: Avoid spreading invasive seeds and other propagules from infested to non-infested areas during fire fighting activities. (See also BMP 4.4).				
		8.8: Following a wildfire, rehabilitate soil disturbance related to suppression activities, especially bladed or plowed firelines, where invasive species establishment is likely. (See also BMPs 6.2 and 6.3).				
9. Transport of Woody	9.1: Prior to trucking, implement mitigation strategies to reduce the risk of transporting highly damaging invasive insect and disease species when present, to the extent practical.					
Additional Comments:						