



Rare Plant Symposium US Fish and Wildlife Service Update

September 18, 2020

Threatened and Endangered Plant Species in Colorado

Eriogonum pelinophilum	Clay-Loving wild buckwheat	Endangered
Sclerocactus glaucus	Colorado hookless Cactus	Threatened
Phacelia submutica	DeBeque phacelia	Threatened
Lesquerella congesta	Dudley Bluffs bladderpod	Threatened
Physaria obcordata	Dudley Bluffs twinpod	Threatened
Pediocactus knowltonii	Knowlton's cactus*	Endangered
Astragalus humillimus	Mancos milk-vetch*	Endangered
Sclerocactus mesae-verdae	Mesa Verde cactus*	Threatened
Phacelia formosula	North Park phacelia	Endangered
Astragalus osterhoutii	Osterhout milkvetch	Endangered
Ipomopsis polyantha	Pagosa skyrocket	Endangered
Penstemon debilis	Parachute beardtongue	Threatened
Eutrema penlandii	Penland alpine fen mustard	Threatened
Penstemon penlandii	Penland beardtongue	Endangered
Spiranthes diluvialis	Ute ladies'-tresses	Threatened
Platanthera praeclara	Western prairie fringed Orchid*	Threatened

- 16 Listed Species
- 9 Threatened
- 7 Endangered

* Species lead is a state other than Colorado



What Has the FWS Been Doing?

- Species Status Assessment (SSA)
 - Species Ecology
 - Current Condition
 - Future Condition
 - A single source for species' biological information needed for all Service ESA decisions (listing, permitting, HCPs, recovery planning)
 - 2020: 2 SSAs in surname, 4 in progress, 3 starting soon

Surname	In Progress	Upcoming
Parachute beardtongue	Clay loving wild buckwheat	Kremmling milkvetch
Pagosa skyrocket	North Park phacelia	Kremmling beardtongue
	Colorado hookless cactus	
	DeBeque phacelia	



What Has the FWS Been Doing?

- Draft Recovery Plans

- Objective, measurable criteria biologically necessary for recovery
- Site-specific management actions
- Estimates of time and cost
- 2020: 2 published, 2 in surname, 2 starting soon

Published	In Progress	Upcoming
Dudley Bluffs bladderpod	Parachute beardtongue	Colorado hookless cactus
Dudley Bluffs twinpod	Pagosa skyrocket	DeBeque phacelia



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What Has the FWS Been Doing?

- 5-year reviews
 - Review for change in listing status
 - 2020: 3 published - no change in status, 5 by 2021

Published	Upcoming
Dudley Bluffs bladderpod	Pagosa skyrocket
Dudley Bluffs twinpod	Clay-loving wild buckwheat
Parachute beardtongue	North Park phacelia
	Colorado hookless cactus
	DeBeque phacelia



Other Happenings

- Chapin Mesa milkvetch
 - Proposed listing as threatened – September 17th
 - Proposed critical habitat of 3,635 acres
 - 60 day comment period
- Boat-shaped bugseed
 - Waiting on genetic results



Information for Planning and Consultation (IPaC)



Area of Influence

The areas of influence for 6 plants have been updated in FY20.



IPaC

Information in IPaC has been updated for 3 species in FY20 with 4 additional species in progress. A total of 8 species are functional in IPaC.



Information for Planning and Consultation (IPaC)

Area of Influence Updates

Clay-loving Wild Buckwheat		 in progress with SSA
Colorado Hookless Cactus		 in progress with SSA
DeBeque Phacelia		 in progress with SSA
Dudley Bluffs Bladderpod		
Dudley Bluffs Twinpod		
North Park Phacelia		
Osterhout Milkvetch		
Pagosa Skyrocket		
Parachute Beardtongue		
Penland Alpine Fen Mustard		
Penland Beardtongue		



IPaC Effects Pathway Manager

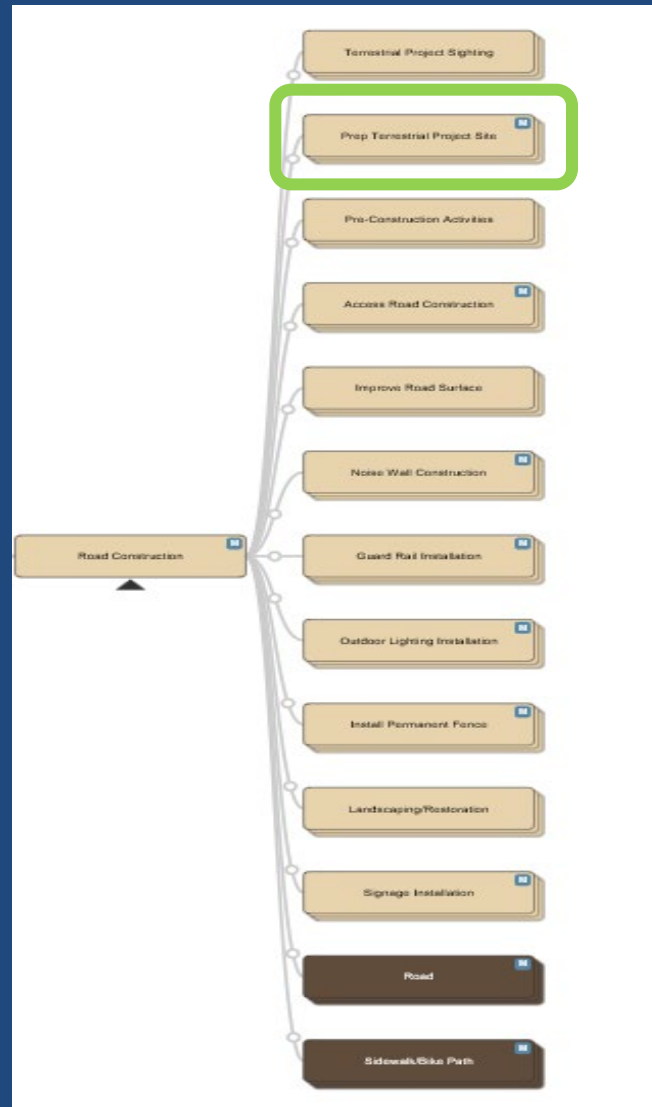
- A way to deliver impact analyses and conservation measures to project proponents
- Breaks larger activities into smaller bite-sized pieces
- Addresses possible impacts of actions
- Recommends conservation measures
- Additional information
- Species survey guidelines
- Habitat assessment guidelines
- Project design guidelines (general conservation measures)



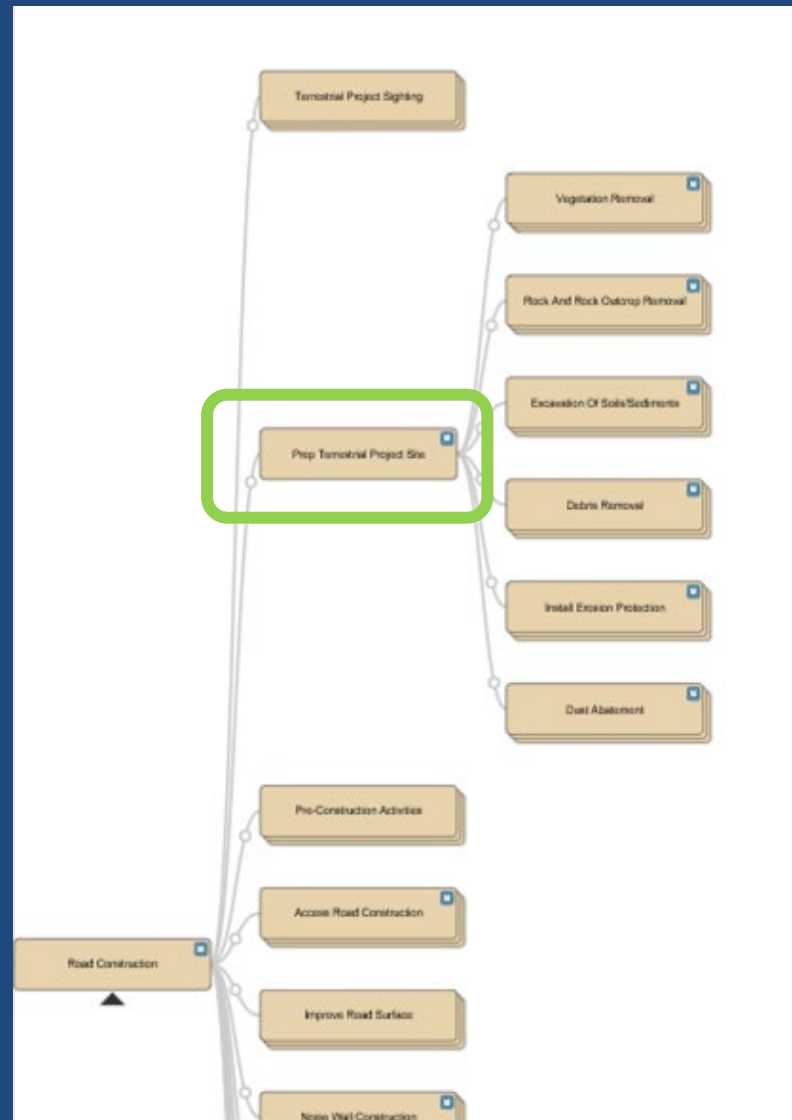
Behind the Scenes: Effects Pathway Manager



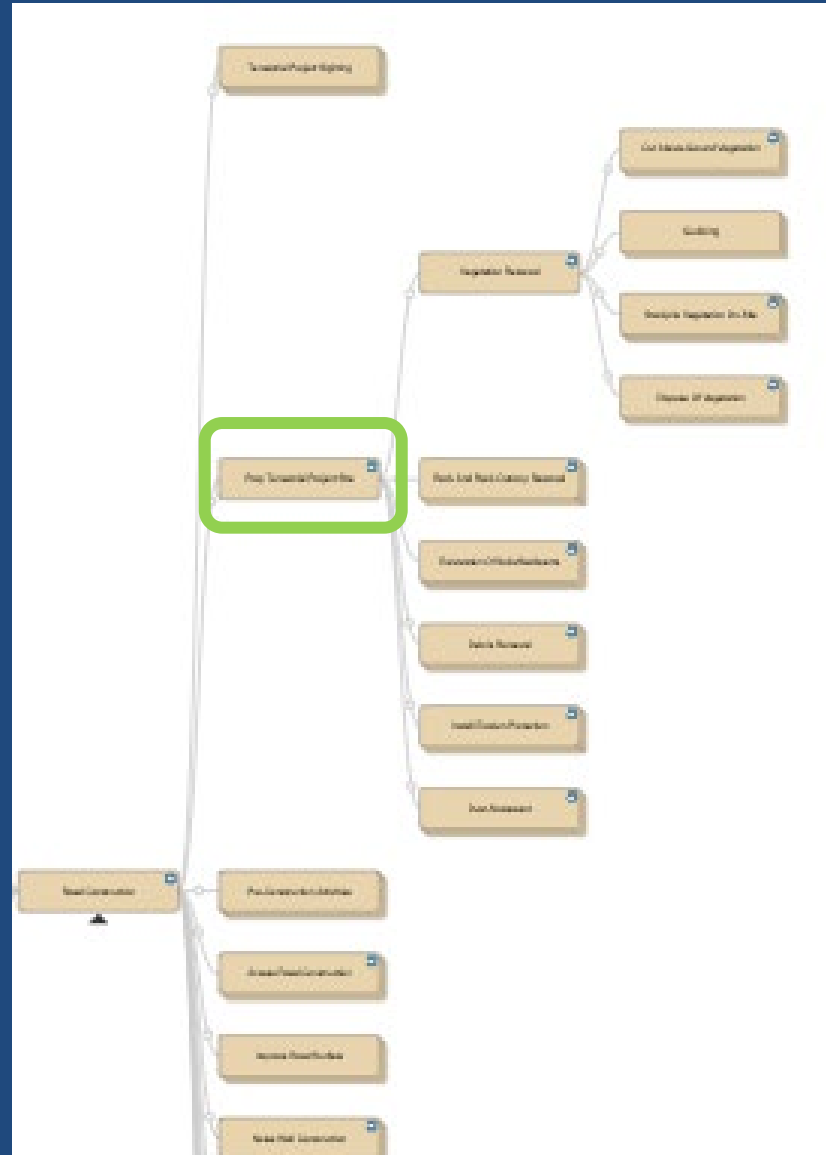
Behind the Scenes: Effects Pathway Manager

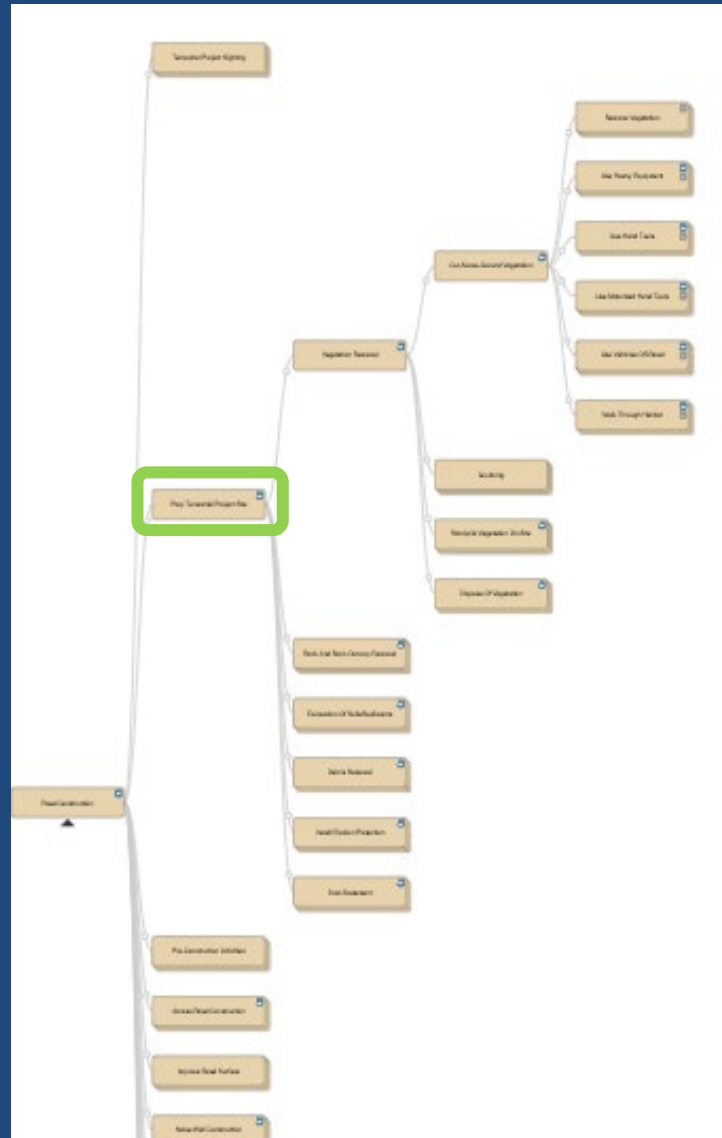


Behind the Scenes: Effects Pathway Manager

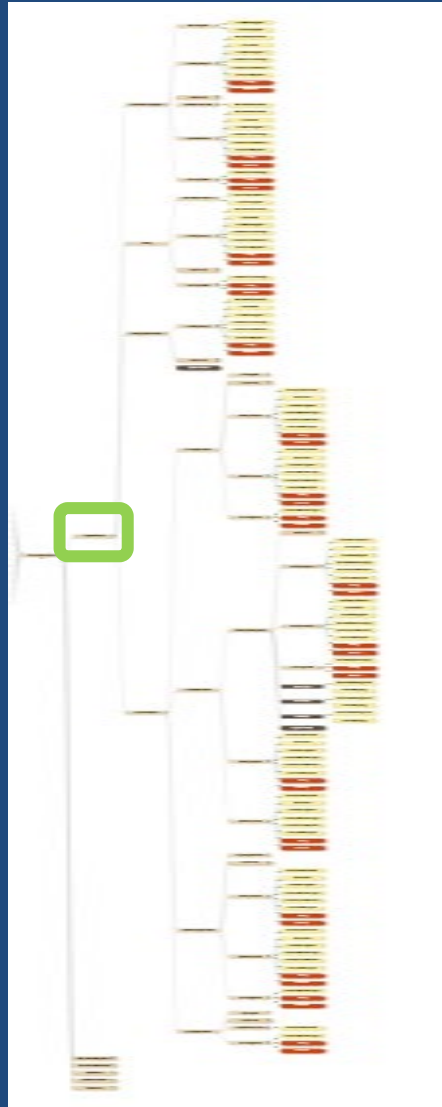


Behind the Scenes: Effects Pathway Manager





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Behind the Scenes: Effects Pathway Manager



Behind the Scenes: Effects Pathway Manager



Behind the Scenes: Effects Pathway Manager

Prep Terrestrial Project Site

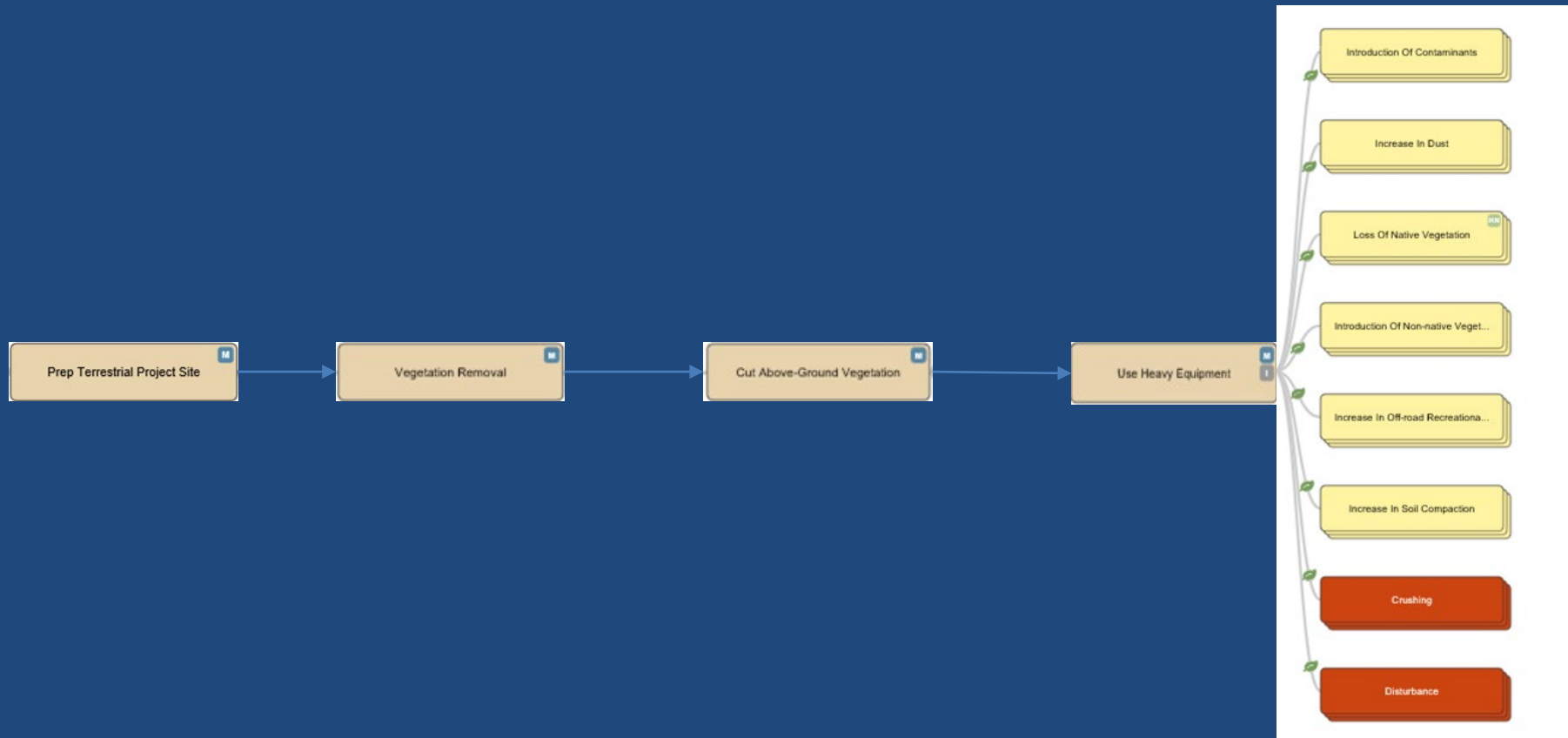
Vegetation Removal

Cut Above-Ground Vegetation

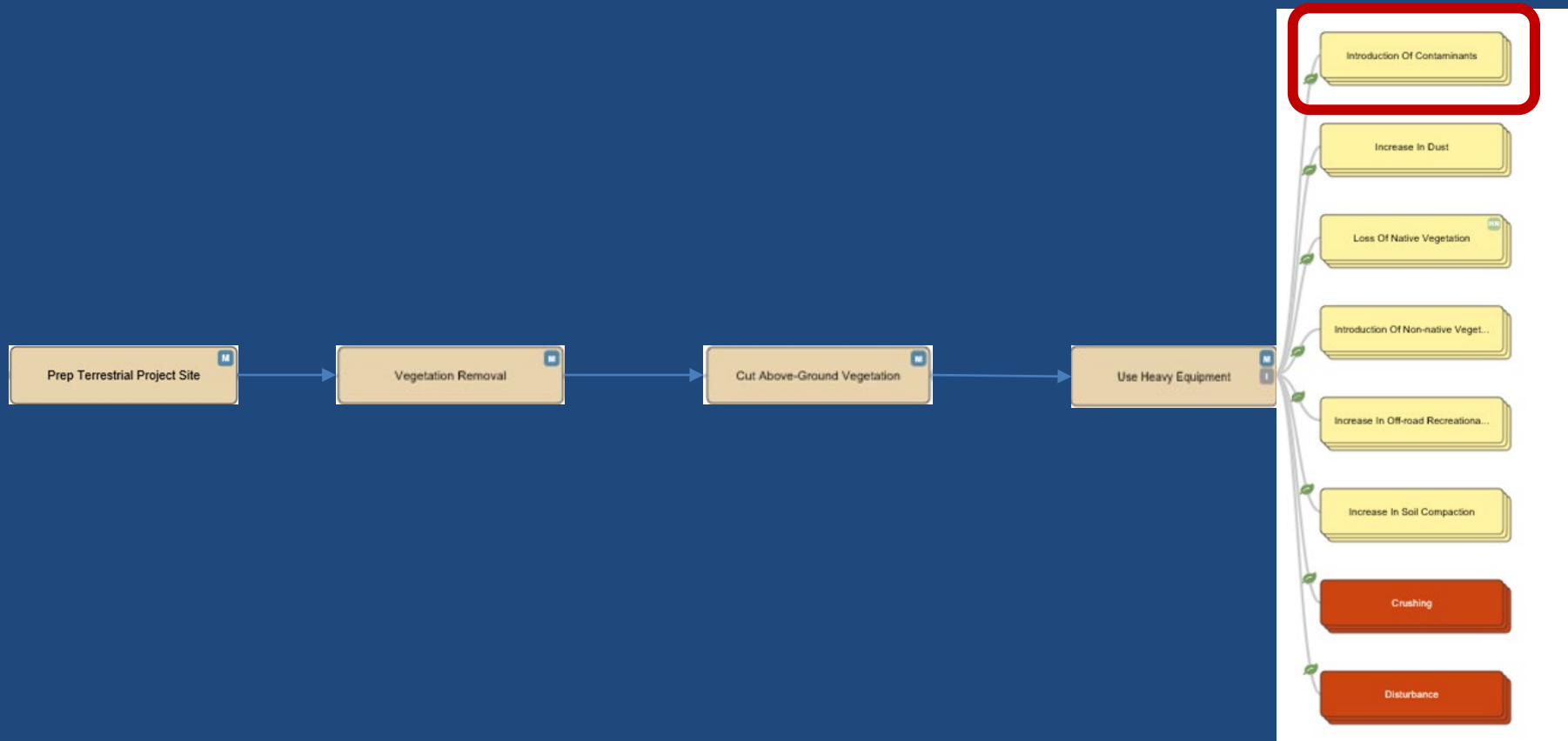
Use Heavy Equipment

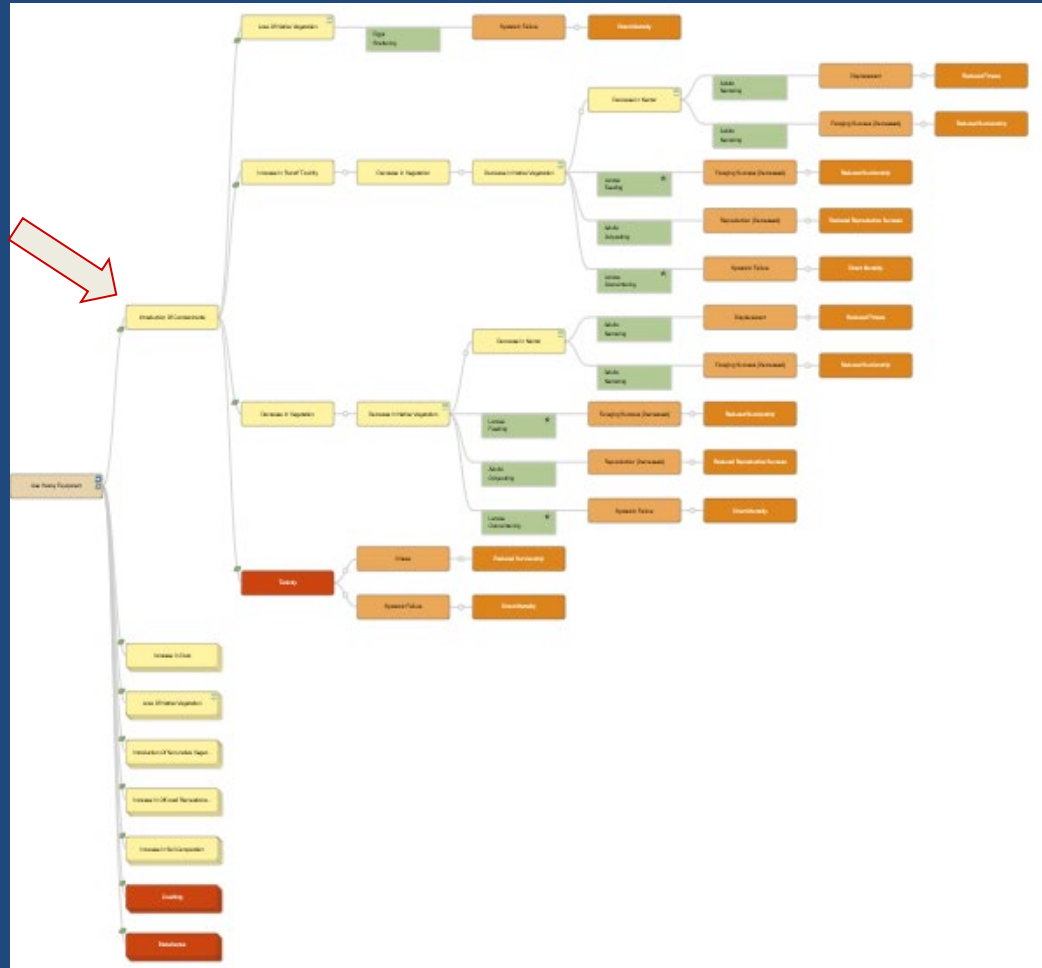


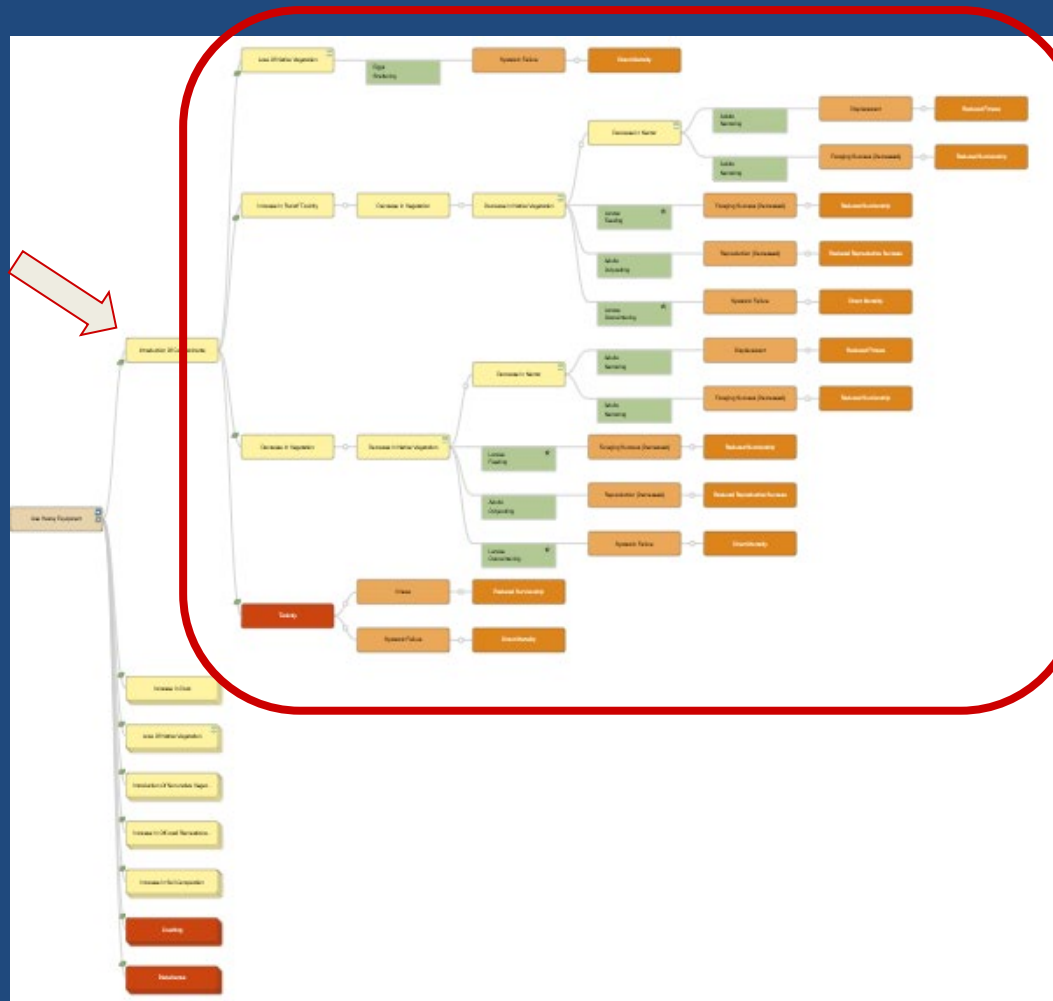
Behind the Scenes: Effects Pathway Manager



Behind the Scenes: Effects Pathway Manager







Information for Planning and Consultation (IPaC)

IPaC Updates

Clay-loving Wild Buckwheat



in IPaC, update FY21

Colorado Hookless Cactus



DeBeque Phacelia



Dudley Bluffs Bladderpod



Dudley Bluffs Twinpod



in IPaC, update FY21

North Park Phacelia



Osterhout Milkvetch



Pagosa Skyrocket



in IPaC, update FY21

Parachute Beardtongue



Penland Alpine Fen Mustard



in IPaC, update FY21

Penland Beardtongue



Questions?

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What Has the FWS Been Doing?

- Parachute beardtongue
 - SSA in surname
 - Draft recovery name in surname
 - 5-year review was published in 2020 – no change in status
- Pagosa skyrocket
 - SSA in surname
 - Draft recovery name in surname
 - 5-year review by 2022



What Has the FWS Been Doing?

- Clay-loving wild buckwheat
 - SSA kickoff September 17th, complete by August 2021
 - 5-year review by 2021
- North Park phacelia
 - SSA very nearly complete
 - 5-year review by early 2021



What Has the FWS Been Doing?

- Colorado hookless cactus
 - SSA in progress, complete by March 2021
 - 5-year review by 2021
 - Draft recovery plan 2021, final 2022
- DeBeque phacelia
 - SSA in progress, complete by March 2021
 - 5-year review by 2021
 - Draft recovery plan 2021, final 2022



What Has the FWS Been Doing?

- Dudley Bluffs bladderpod and twinpod
 - 5-year review – no change in status
 - Final recovery plan
- Kremmling milkvetch and Kremmling beardtongue
(Osterhout milkvetch and Penland beardtongue)
 - SSA starting soon, likely around the end of November

