DESIRED CONDITIONS DIALOGUE WORKSHOP May 9-10, 2012

OBJECTIVES

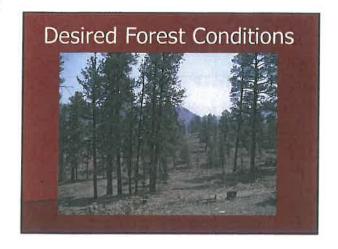
- Begin a dialogue on desired forest conditions to develop a common understanding and a framework for shared learning
- Describe desired conditions for ponderosa pine and dry mixed conifer forests
- Describe links between desired conditions and ecological restoration
- Discuss use of desired conditions as a target and measure of success

Development of R3 Desired Conditions

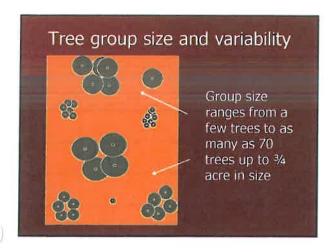
- DC team commissioned in 2008
- History of development
 - DC developed for Forest Plan Revision
 - Iterative and adaptive process
- DCs used in project level development
- Based on best available science for forest ecology, wildlife ecology, natural range of variability, etc.

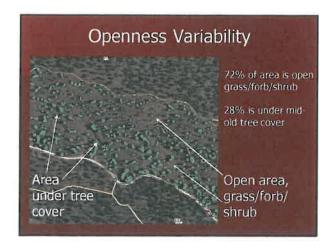
	
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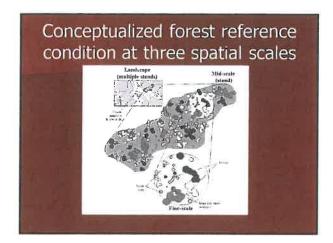
Desired Co	ndition Team			
Christine Dawe	Mike Manthei			
Roy Hall Bruce Higgins	Tessa Nicolet Richard Reynolds	_		
Emily Irwin	Joe Stringer			
Pat Jackson	Linda Wadleigh			
Ronnie Maes	Jim Youtz			
Chicago State				3.03
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Desired Condition	ons: key elements	_		
■ Tree species and a		<u> </u>	···	
– Sustaining a balanc				
 Spatial characterist Tree groups: size, o 				
	ion, size, arrangement	<u> </u>	·····	
■ Processes and Fund	tions	10		
 Biological diversity, processes, nutrient 				
– Disturbances (fire, i				
	al frequencies and levels			
The same of the same of	AND DESCRIPTION OF THE PERSON NAMED IN			
P Pine vs Dry	Mixed conifer			 <u> </u>
Similar structu	re and function	_		
P pine	Dry MC			
 Ponderosa pine 	Mix of conifers w/ ponderosa pine			
dominated Dryer and warmer	Cooler and wetter		······································	
Less productive	More productive	<u></u>		
	– larger, denser			
	groups – smaller openings	-		

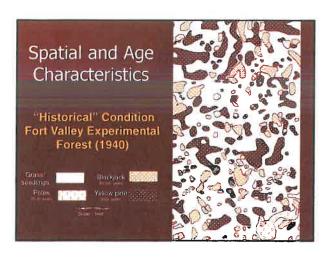


Spatial and Age Characteristics Trees grouped with interlocking crowns Openings between tree groups All age classes and as much old forest as is ecologically sustainable High interspersion of age classes



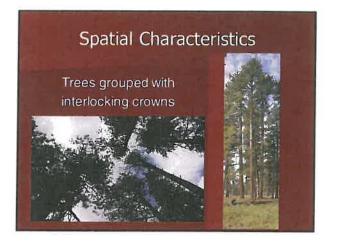


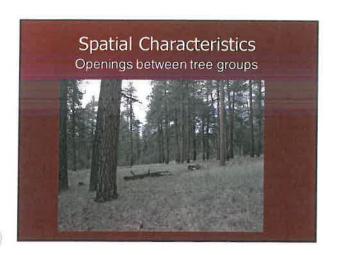




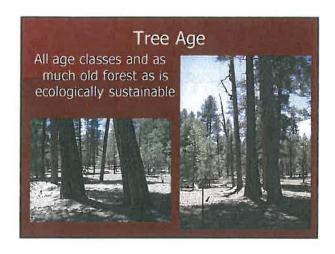
	
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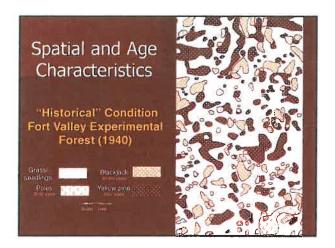


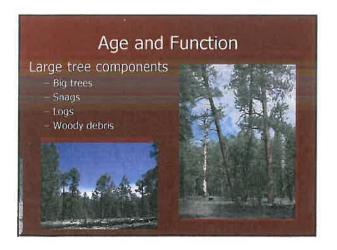


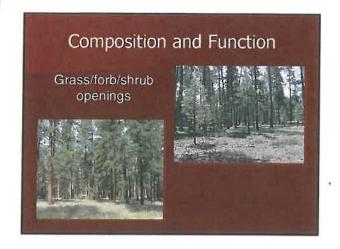


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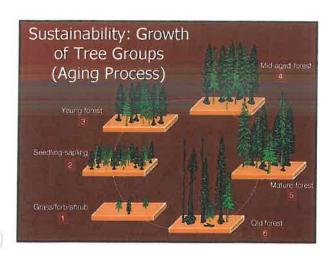












Concepts

- Desired Conditions are a work in progress
 - Will be adapted to new science/information
- Desired Condition characteristics are presented in ranges, not single targets, to account for variability across most of a landscape. For poine:
 - Percent of area in openings, 30-60%
 - Typically 20 to 90 sq ft/BA per acre
 - Generally 3 to 7 tons woody debris per acre
- Desired Condition at three scales
 - Landscape
 - Mid scale
 - Fine scale

Links between desired conditions and ecological restoration

- The Desired Conditions fall within natural historic conditions
- Natural conditions are a good example of functioning, sustainable, and resilient ecosystems
- Attaining the Desired Conditions will achieve restoration objectives

Application of Desired Conditions

Characteristic	Current Condition	Desired Condition
Forms Chamman	New openings	Openings generally are 30% to 50% of area, 10% and 70% are extremes of range
Spiritual distributions of trees	Even to random specing, minimal to no tree groups	Groups of trees separated by openings
Tree soes	Primarily single- or two- aged forest	Selance of ages, young, mid, old

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Challenges

- Desired Conditions may not be attainable in a single treatment
- Operational feasibility (funding, workforce, industry capacity, etc.) may constrain our ability to achieve desired conditions everywhere
- Necessitates prioritizing landscapes and strategies for achieving desired conditions
- Maintenance of desired conditions

Outcomes of Desired Conditions

- Reduced severity of fire effects
- Reduced fire hazards and increased flexibility for managing fires
- Increased resilience to climate variability and change, insects, disease



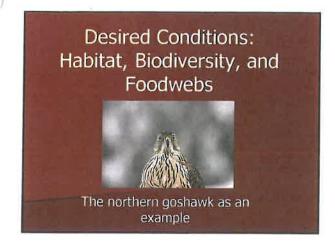


Outcomes (cont)

- Sustainable old growth condition
- Restored hydrologic function
- Sustainable wood supply
- Improved forage production
- Enhanced visual quality
- Improved plant and animal habitat, biodiversity, foodwebs

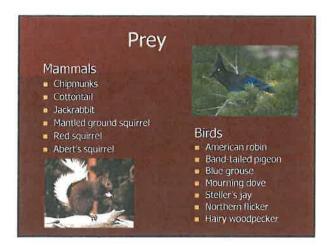
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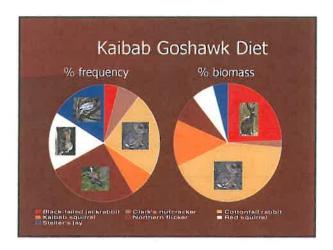
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	No light
Pre-fi	re treatment (Fort Apache I.R.) c after Rodeo-Chediski Wildfire)

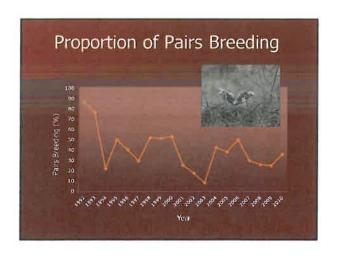


Morphological and Behavioral Characteristics Adapted to forest environments Long tail, short wings Sub-canopy forager Primarily perch hunter Short-sit, short-flight hunting behavior Searches for prey in low vegetation column Broad diet

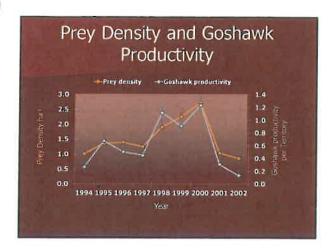


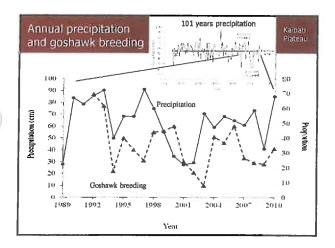


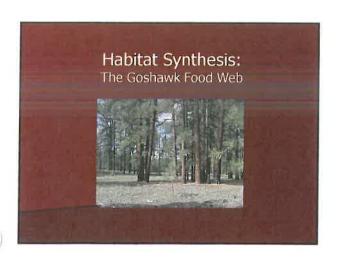


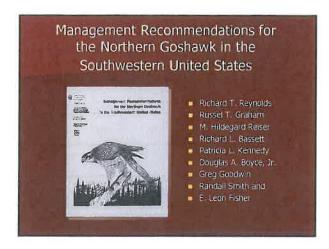


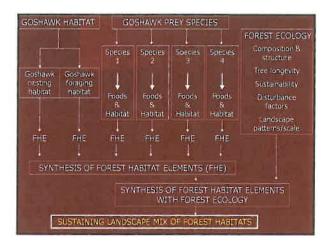
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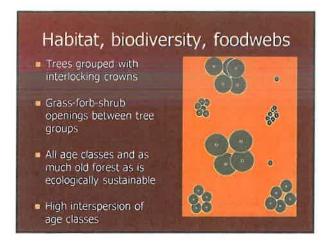




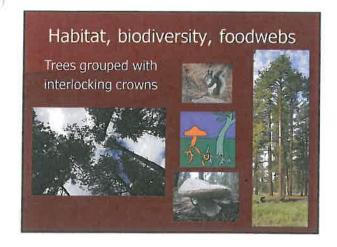


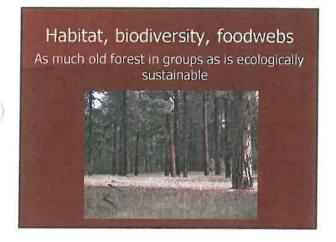


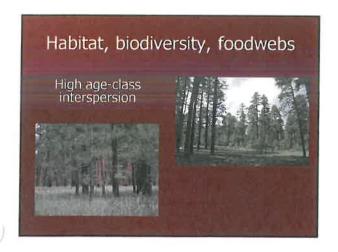




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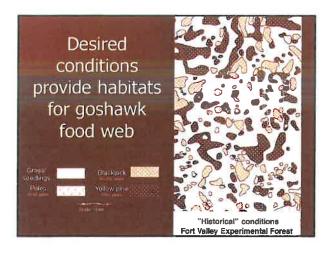








Habitat, biodiv	ersity, foodwebs
grass/forb/shrub	
	Series 12



		
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Unique elements

- Multi-species focus, not single species!!
- Food web approach
- Information across trophic levels
- Desired conditions are:
 - Ecosystem specific, different DCs for different forest types

Unique Elements

- Landscape ecology
 - Multiple goshawk home ranges = landscape scale
 - 1,000-year planning horizon incorporates forest growth and succession
 - Spatial & temporal shifting mosaic of habitat
- Forest Restoration
 - Natural composition, structure, and pattern of forest use as guides for assembling habitats
 - Restores natural disturbances, processes, and forest health (productivity)

Summation Small groups of trees with interlocking crowns Scattered single trees Grass-forb-shrub open interspaces between groups Snags, logs, woody debris Spatial and temporal distribution of the above

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