



OSU College of Forestry
McDonald-Dunn Research Forest Faculty Planning Committee Meeting #11
316 Peavy Forest Science Center or Zoom (<u>Join Zoom Meeting</u>)
20 March 2023, 11am-1pm

Agenda

Meeting Purpose:

- Finalize underlining principles and definitions for each 'management strategy'
- Define criteria used to evaluate tradeoffs among 'scenarios'
- Describe opportunities created by each management strategy

Start Time	Activity
11:00am	Welcome & overview of upcoming events
11:05am	Finalize guidelines/definitions for the 5 new 'management strategies'
11:30am	Revisit criteria to be used to evaluate tradeoffs among 'scenarios'
12:00pm	Revisit matrix of opportunities created by each 'management strategy'
12:30pm	Revisit draft Table of Contents for the new plan
12:50pm	Next steps
1:00pm	Adjourn



MCDONALD-DUNN RESEARCH FOREST PLANNING PROCESS



MCDONALD-DUNN RESEARCH FOREST PLANNING PROCESS



The OSU College of Forestry is developing a new management plan for the McDonald and Dunn Research Forests, which is anticipated to be ready for implementation in 2024. This new plan will determine how the forests provide opportunities for teaching, research and outreach efforts of the College of Forestry. The new research forest plan will reflect the college's diverse values, and will position the McDonald-Dunn Research Forest to be a model example of multiple value forest management. Management decisions and activities on the McDonald-Dunn Research Forest will be driven by College of Forestry research agendas, education and demonstration opportunities, and considerations of an inclusive balance of forest uses and values.

The process of developing the new management plan will involve opportunities for public input, and two committees working in tandem from spring 2022 through fall 2023.

- Public input opportunities include three Community Listening Sessions, a webform through which written comments can be provided, and an email to which written questions can be sent.
- Two committees will assist in the development of the new plan: an external Stakeholder Advisory Committee (SAC) and College of Forestry Faculty Planning Committee (FPC). Comments submitted through the webform will be forwarded to these committees.

Upcoming Meetings & Events:

- March 20, 2023, 11:00am 1:00pm Faculty Planning Committee Meeting (agenda, open to the public to listen remotely through Zoom but not comment; video recording will be posted online after the meeting).
 Zoom link: https://oregonstate.zoom.us/i/8948549218?pwd=Uko4L2hYNnpQU0dlWlhWWGxhcFZFZz09
- March 21, 2023, 5:30 7:00pm Open Forum A listening session for faculty, staff, and students who use the forests for research, teaching, or outreach
- March 22, 2023, 8:30 10:00am Open Forum A listening session for faculty, staff, and students who use the forests for research, teaching, or outreach

Past Meetings & Events:

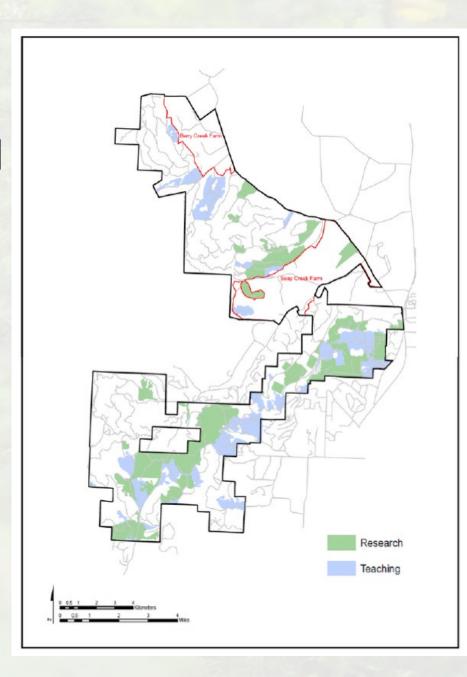
- June 14, 2022, SAC and FPC Joint Kickoff Meeting (agenda, video, meeting summary)
- Aug 30, 2022, SAC Meeting (agenda, presentation, meeting summary)
- Aug. 31, 2022, Community Listening Session (agenda, presentation, meeting summary)
- Sept. 16, 2022, Faculty Planning Committee Meeting (agenda, presentation, meeting summary)
- Sept. 20, 2022, Stakeholder Advisory Committee Meeting (agenda, presentation, video recording, meeting summary)
- Oct. 11, 2022, Faculty Planning Committee Meeting (agenda, presentation, video recording, meeting summary)
- Oct. 25, 2022, Faculty Planning Committee Meeting (agenda, presentation, video recording, meeting summary)
- Nov. 7, 2022, Community Listening Session (agenda, presentation, video recording, meeting summary)
- Nov. 22, 2022, Faculty Planning Committee Meeting (agenda, presentation, video recording, meeting summary)
- Dec. 5, 2022, Stakeholder Advisory Committee (agenda, presentation, video recording, meeting summary)
- Dec. 6, 2022, Faculty Planning Committee Meeting (agenda, presentation, video recording, meeting summary)- Remarks made by an individual during the Dec 6 Faculty Planning Committee meeting do not reflect the values of the university or the College of Forestry, or our shared commitment to respectful discussion and engagement. The College appreciates all input being provided in planning the future of the McDonald-Dunn Research Forests and is committed to listening to and considering all perspectives with respect. An apology for these remarks was made during the Stakeholder Advisory Committee meeting on Dec 13.
- Dec. 13, 2022, Stakeholder Advisory Committee Meeting (agenda, video recording, meeting summary)
- Dec. 20, 2022, Faculty Planning Committee Meeting (agenda, presentation, video recording, meeting summary)
- Jan. 18, 2023, Stakeholder Advisory Committee (agenda, presentation, video recording, meeting summary)
- Jan. 23, 2023, Faculty Planning Committee Meeting (agenda, presentation, video recording, meeting summary)
- Feb. 6, 2023, Faculty Planning Committee Meeting (agenda, presentation, video recording, meeting summary)
- Feb. 20, 2023, Faculty Planning Committee Meeting (agenda, presentation, video recording, meeting summary)
- . Feb. 25, 2023, SAC and FPC Joint Field Tour
- Mar. 1, 2023, Stakeholder Advisory Committee Meeting (agenda, presentation, video recording, meeting summary)
- Mar. 6, 2023, Faculty Planning Committee Meeting (agenda, presentation, video recording)

SUBMIT YOUR COMMENTS SUBMIT YOUR QUESTIONS STAY CONNECTED

HISTORIC DOCUMENTS - MCDONALD-DUNN RESEARCH FOREST PLANNING 2004-PRESENT

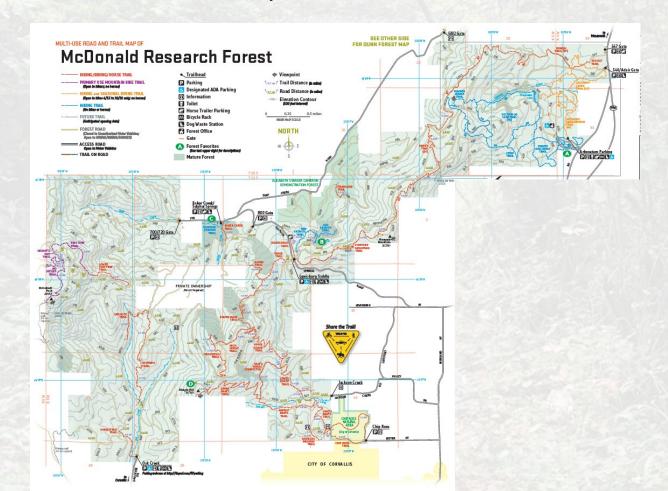
Upcoming Events

- Academic User Listening Session [Open Forums]
 - For faculty, staff, & students who use or could use the forests for learning
 - 。 Intent
 - Understand which regions are used for R/T/O
 - Understand constraints in using the forest for R/T/O
 - Hybrid drop-in sessions
 - 21 March 5:30-7pm
 - 22 March 8:30-10am
 - Advertised to department heads across all colleges

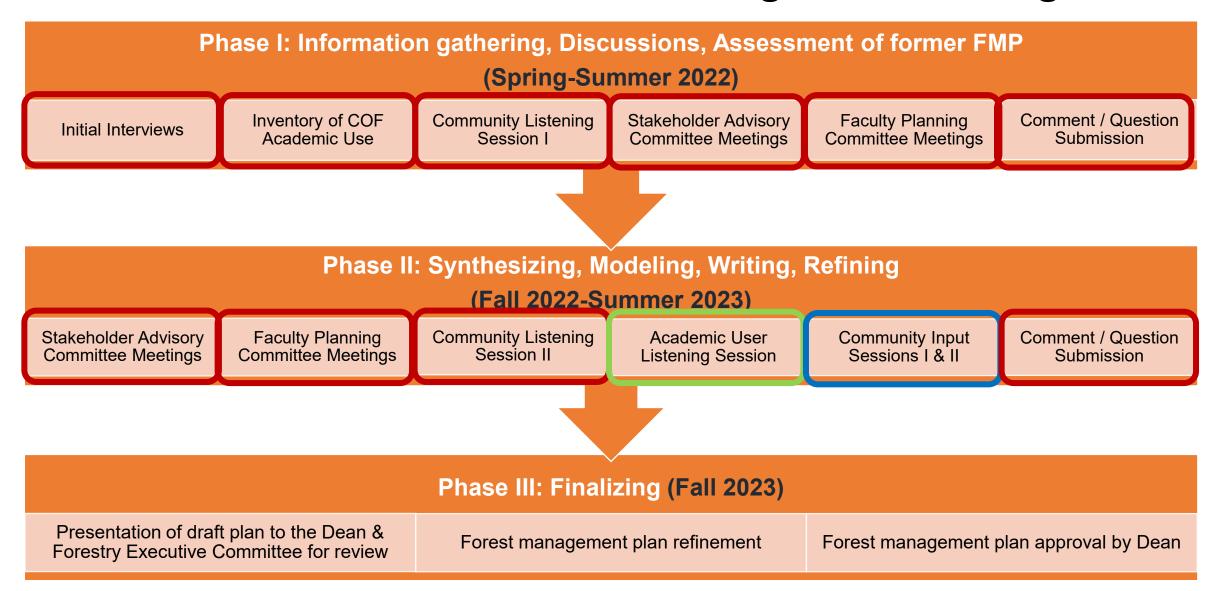


Upcoming Events

- SAC-FPC Field Tour
 - weekday option: Mon, March 27, 1-5pm



McDonald & Dunn Research Forests Management Planning Process



McDonald & Dunn Research Forests Management Planning Process

PHASE 2	SYNTHESIZING, MODELING, REFINING, WRITING
2a	Synthesizing
	SAC meetings
	-write synthesis document to share with FPC
	-identify new 'management strategies' & 'scenarios'
	-consider structure & components of the new plan
	FPC meetings
	-write overarching principles document to share with SAC
	-identify new 'management strategies' & 'scenarios'
	-consider structure & components of the new plan
2b	Modeling, Refining
	Modeling Evaluation of merits of each scenario (SAC, FPC, Community Input Session I)
	Evaluation of merits of each scenario (SAC, FPC, Community Input Session I)
	Modeling Evaluation of merits of each scenario (SAC, FPC, Community Input Session II)
	Evaluation of merits of each scenario (SAC, FPC, Community Input Session II)
2c	Writing
	Drafting of chapters (various work groups and individuals)

Detailed view of Phase 2 of the plan development process

Defining each new 'Forest Management Strategy'

- A. Even-aged, short rotation
- B. Even-aged, long rotation
- C. Multi-aged, multi-species
- D. Managed reserves
- E. Ecosystems of concern



McDonald-Dunn Research Forests draft guidelines for each new 'Management Strategy' [version after FPC meeting on 6 March 2023]

	<u>Even-aged</u> short rotation	Even-aged long rotation	Multi-aged multi-species	Managed reserves	Ecosystems of concern
Overview	Even-aged plantations of Douglas-fir (or other climatic-appropriate species and genetic stock) will be established and managed to be financially competitive by maximizing yields of wood products valuable for domestic mills. Clearcut harvests will not exceed 80 acres (with limited exceptions due to large-scale disturbances).	Even-aged forests of Douglas-fir (or other climatic-appropriate species and genetic stock) will be established and managed to provide older forest conditions and produce high-quality wood for domestic mills. Clearcut harvests will not exceed 40 acres (with limited exceptions due to large-scale disturbances).	Multi-aged, mixed- species forests of primarily Douglas- fir will be established and managed using shelterwood-with- residuals, group- selection, and variable retention regeneration harvests to create heterogeneity in openings, regenerate new age classes of trees, and maintain structural diversity and visual aesthetics, Multiple native tree species will be encouraged. These harvests will not exceed 40 acres.	These areas will be held and conserved outside the management base using only a light touch when needed to promote and maintain historical older-forest structural and compositional diversity, visual aesthetics, and provide for public safety. Forest succession and developmental processes following natural disturbances will proceed with little human intervention. Areas added to the existing reserve base may need more active operations to promote the development of historical conditions.	Restoration and maintenance activities will be undertaken in native oak savanna/woodlands, meadows, and riparian/aquatic systems. Two strategies will be employed: • retain and conserve the most at-risk and highest value components of ecological and cultural diversity, and • use intensive efforts where needed to improve and restore broader ecological and/or cultural functions at specific sites.

Employs intensive site preparation following industry standards (prescribed fire and vegetation control) for ease of planting and early stand establishment. Planted seedings will be from the best genetically assistable for timber production but will also consider genetic seed sources adapted to a changing climate production but will also consider genetic seed sources adapted to a changing climate production. In the latest production but will also consider genetic seed sources adapted to a changing climate. Planting dentifies will be a sufficient to meet all thinning but PCT would be allowed if warranted. Spacing can be variable and an proportate to minimize growth loss of tree seedlings will be managed to minimize growth loss of tree seedlings will be managed to minimize growth loss of tree seedlings will be managed to minimize growth loss of tree seedlings for the first 1-5 years until trees are free-to-grow, and then competing vegetation will be landward for the seedling will be managed to managed with the state of the seedling will be managed to managed with the state of the seedling will be managed to managed with the state of the seedling will be managed to managed with the state of the seedling will be managed to managed with the state of the seedling will be managed to managed with the state of the seedling will be managed to managed with the state of the seedling will be managed to managed with the state of the seedling will be managed to managed with the state of the seedling will be managed to managed with the state of the seedling will be managed to managed with the state of the seedling will be managed to		i di si Maria da Asar Paristina ya da da mari	Even-aged short rotation	Even-aged long rotation	Multi-aged multi-species	Managed reserves	Ecosystems of concern
throughout the areas that are dictated	1.0		Employs intensive site preparation following industry standards (prescribed fire and vegetation control) for ease of planting and early stand establishment. Planted seedlings will be from the best genetically selected material available for timber production but will also consider genetic seed sources adapted to a changing climate. Planting densities will be sufficient to meet the Oregon Forest Practices Act and with the intent to but avoid the need for precommercial thinning, but PCT would be allowed if warranted. Spacing will be more or less intentionally uniform. Competing vegetation will be managed to minimize growth loss of tree seedlings for the first 1-5 years until trees are free-to-grow, and then competing vegetation will be allowed to grow. ~5% of hardwood trees and/or resprouts will be identified and purposely left free to	Employs adequate site preparation to plant and establish a stocked young stand. Planted seedlings will be from the best genetically selected material available for timber production but will also consider genetic seed sources adapted to a changing climate with an eye to longer rotations. Initial stocking rates will be appropriate for the site conditions with enough established trees to accommodate multiple commercial thinning harvests within the rotation, with the intent to avoid PCT but allowing it if warranted. Spacing can be variable and appropriate to the site. Competing vegetation will be managed with less herbicide than short rotations, with the intention of limiting tree seedling mortality during the first 1-3 years, and then competing vegetation will be free to grow. ~10% of hardwood trees and/or resprouts will be identified and purposed left free to	A combination of pile burning, broadcast burning, and limited surface herbicide treatments will be used for site preparation in understory and/or small openings. Seedlings will be interplanted to augment natural regeneration of conifers from seed and hardwoods from both sprouts and seed, with an eye to species richness and genetic variability. Shelterwood with residuals will maintain an appropriate overstory density to allow understory trees to grow. Overstory trees may be spaced uniformly or variably, dictated by site, stand, and windthrow risk conditions. Group-selection harvests will contain small (1.5-4.0 acre) openings. Variable retention regeneration harvests will retain individual trees, clumps of thinned and unthinned	Typically, stands will regenerate continuously on their own from natural seeding. Active conifer and hardwood regeneration efforts may occur in areas subjected to largescale disturbances (e.g., windstorms, ice storms, or wildfires), or when adding acres to the reserve base. Invasive vegetation will be managed to ensure establishment and growth of tree seedlings and culturally significant	Oak savanna/woodlands – in areas designated to receive intensive restoration treatment, oaks may be purposefully established through seed or seedlings at appropriate densities along with other native and culturally significant vegetation that historically occurred in these ecosystems. Site preparation with prescribed fire and/or judicious surface herbicide use may be required. Meadows – may require site preparation with prescribed fire and/or judicious surface herbicide use may be required. Meadows – may require site preparation with prescribed fire and/or judicious surface herbicide use and seeding of other appropriate native herbaceous vegetation. Riparian systems - in areas designated to receive small- scale restoration treatment, limited harvests will occur with site preparation and planting at appropriate densities along with other native vegetation that historically occurred in

	Even-aged short rotation	Even-aged long rotation	Multi-aged multi-species	Managed reserves	Ecosystems of concern
Intermediate treatments	Thinning and other intermediate stand treatments will only be done if justifiable economically or if needed to respond to an unplanned disturbance event to maintain the health of each the stand. -5% of hardwoods would be retained in thinning treatments.	The first commercial thinning will occur as dictated by stand conditions, likely around 28-34 years of age. Additional commercial thinning entries will be done until final harvest using a variety of thinning approaches. The last thinning will occur no later than 10-15 years before final harvest. ~10% of hardwoods would be retained in thinning treatments	Shelterwood-with-residuals - understory trees may be commercially thinned when needed (likely 30-40 years of age) depending on the overstory density. If overstory trees die, replacement trees may be assigned from the understory cohort to maintain the two-storied canopy structure over time. Group-selection - Periodic thinning will be used to increase vertical and horizontal structure, maintain health, and provide interim income. Variable retention regeneration harvests - Periodic thinning will be used to increase vertical and horizontal structure, maintain health, and provide interim income.	All areas may receive intermediate treatment under limited circumstances: Treatment of invasive species Removal of individual trees due to safety concerns Prescribed burning to emulate historical processes and for research purposes. Areas newly added to the reserve base may need intermediate treatment under limited circumstances: Irregular thinning or creation of gaps to promote characteristics of historical late-seral forest conditions typical of the region and in light of climate change	Oak savanna/woodlands - treatments could include prescribed burning, contro of invasive plants, and/or precommercial thinning to remove young invading conifers. Meadows - treatments could include repeat prescribed burning and control of invasive plants and invading conifers. Riparian systems - treatments could include additional structural thinning, repeat prescribed burning, and control of invasive plants. Aquatic systems - In- stream and pond treatments could include removal of invasive species, including invasive aquatic plants.

	Even-aged short rotation	Even-aged long rotation	Multi-aged multi-species	Managed reserves	Ecosystems of concern
Stand age	Rotation lengths will be regulated primarily by age that maximizes net revenue production. Rotations will be 30- 60, likely 35-45 years.	Rotations typically will be 60-90 years, with a small percentage (<10%) managed to 120 years.	Shelterwood-with-residuals Final harvest of understory trees will be 60-70 years. The age of the oldest trees harvested from these stands will be 60-120 years, regulated primarily by the complexity of habitat desired for each stand. Group-selection - Re-entry harvest will occur every 15-30 years to create 3-4 age classes. Minimum proximity of group selection openings to previous harvest entries will be >200 feet. Variable retention harvest - Re-entry harvest will occur every 15-30 years to create 3-4 age classes.	NA. The age of the oldest trees in these stands will continue to increase over time adding to the age-class diversity across the forest.	NA. The age of the oldest trees in oak ecosystems and riparian ecosystems will tend to increase over time. For riparian ecosystems, tree age will increase for long-lived conifers but for alders and other short-lived species, tree age may decrease as they achieve senescence and die.
Legacy elements	Procedures will follow OFPA regulations (i.e., retain wildlife trees and CWD in harvest units >25 acres).	Procedures will exceed OFPA regulations (i.e., retain additional legacy trees, green trees, snags, and CWD).	This management system maintains abundant living and dead structure constantly within each stand in an effort to create and sustain diverse forest conditions.	NA – it is the legacy	Oak savanna/woodlands - old conifers with an open grown character dating to pre-settlement will be retained. Meadows - NA Aquatic/riparian systems - large old trees and big logs will be retained or enhanced both in-stream and in riparian zones.

McDonald-Dunn Research Forests draft guidelines for each new 'Management Strategy' [version after FPC meeting on 6 March 2023]

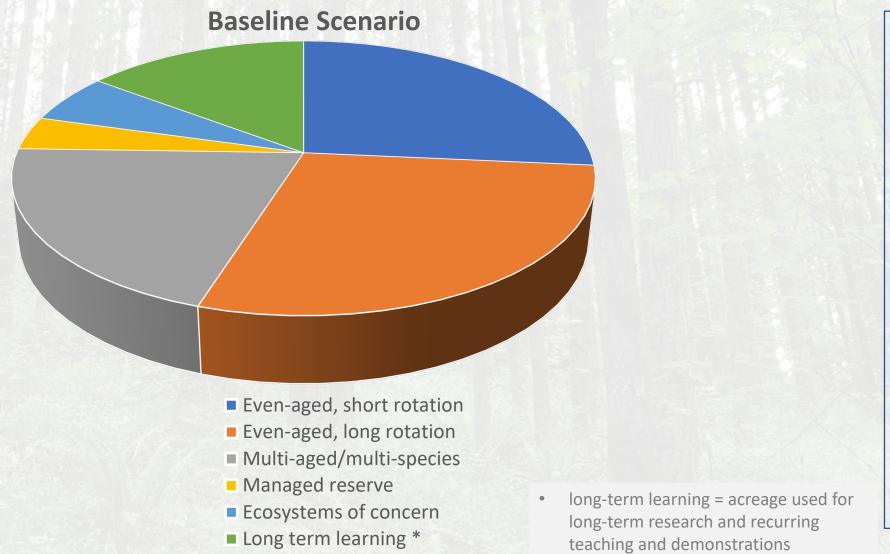
	Even-aged short rotation	Even-aged long rotation	Multi-aged multi-species	Managed reserves	Ecosystems of concern
Guiding principles	Manage in a way that creates learning and research opportunities about short-rotation forestry and early seral conditions, under the principle of financial sustainability. Application of Indigenous knowledge may be incorporated in earl-seral stages of forest development for culturally important plants and animals.	Manage in a way that creates learning and research opportunities about long-rotation forestry and retention of legacy elements throughout the life of each stand. Application of Indigenous knowledge may be incorporated in early-seral as well in later stage of forest development for culturally important plants and animals.	Manage in a way that creates learning and research opportunities about managing multi- aged and/or multi- species stands-te support diverse forest values recognized by a variety of cultures Application of Indigenous knowledge may be incorporated in early seral as well in later stages of forest development for culturally important plants and animals.	Manage in a way that ensures learning and research opportunities about the creation and maintenance of historical late-seral forest conditions informed by both Indigenous knowledge and Western science for culturally important plants and animals.	Manage in a way that creates learning and research opportunities about a range of restoration opportunities and intensities to improve and maintain the health and resiliency of selected ecosystems, informed by both Indigenous knowledge and Western science for culturally important plants and animals.

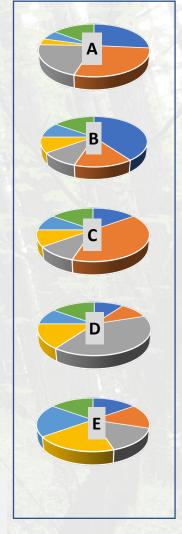
	Even-aged short rotation	Even-aged long rotation	Multi-aged multi-	Managed reserves	Ecosystems of concern
Opportunities created	Offers dependable financial returns Early-seral provid so if hunters short rotations ensure edge habitat important for some wildlife species Short rotations allow testing & demonstration of climate adaptability using alternative genetics of Douglasfir or other species Enables demonstration of the longevity and character of early-seral conditions and use of prescribed fire Creates learning sportunities about est operations, wion, man. compars. carbon seques between Douglas-in and alternative species	Ingh-quality rogs/wood that fills niche markets Provides net carbon sequestration potential relative to shorter rations relative to shorter r	returns • Multi-aged stands with varying degrees of within-stand complexity will promote overall biodiversity and a broad suite of habitat conditions for wildlife • Continuous cover ensures visual aesthetics • Provides enhanced recreational portunities • It is net carbon sion in multide multispecies states on the landscapecause there are such forests on lands under other ownership • Creates learning opportunities about managing with complex silvicultural techniques, and investigations of operational costs and harvest costs associated with non-typical silvicultural approach	preserves future carbon markets • Allows exploration of opportunity costs and direct costs and benefits of conserving late seral conditions • Sustains relatively undisturbed conditions that promote habitat for some plant and wildlife species • Provides preferred aesthetic conditions for recreation • Net carbon sequestration will be seful for parisons sarning about som invas climate e climate-indu disturbances as age and tree densition increase • Provides • Provides • Provides	Enables research, teaching and demonstration on all aspects of ecosystem storation and monitoring meadow, and quatic systems se to understand the second secon

Opportunities Created - this is material extracted from the definition table, arranged according to 8 subject categories, in response to a suggestion from the SAC to reorganize this info

Forest Values	Even-aged short rotation	Even-aged long rotation	Multi-aged, multi-species	Managed reserves	Ecosystems of concern
Learning, training, & demonstration opportunities	Creates learning opportunities about harvest operations, regeneration, vegetation treatments, fuels management, and comparison of net carbon sequestration between Douglasfir and alternative species; Enables demonstration of the longevity and character of early-seral conditions and use of prescribed fire; Short rotations allow testing & demonstration of climate adaptability using alternative genetics of Douglas-fir or other species	Creates learning opportunities about managing and financing rotation lengths longer than is typical; Provides training opportunities on thinning and underburning	Creates learning opportunities about managing with complex silvicultural techniques, and investigations of operational costs and harvest costs associated with non-typical silvicultural approaches; Demonstrates complex approaches for small-scale forest operations and woodland owners		Enables research, teaching, and demonstration on all aspects of ecosystem restoration and monitoring for oak, meadow, and riparian/aquatic systems; Enables learning about restoration principles, the ecology of native plants, first foods, and invasive species reduction; Demonstrates potential applications of Indigenous knowledge; Creates chance to understand costs incurred by restoration and maintenance programs for unique ecosystems.
Finances	Offers dependable financial returns	Offers dependable financial returns	Offers reduced and variable financial returns	Enables exploration of non-timber benefits and preserves options for future carbon markets; Allows exploration of opportunity costs and direct costs and benefits of conserving late seral conditions	Offers opportunity to learn about costs incurred by restoration of various ecosystem types
Habitat conditions	Early-seral conditions provide habitat for some plant & wildlife species; Short rotations ensure edge habitat important for some wildlife species		Multi-aged stands with varying degrees of within-stand complexity will promote overall biodiversity and a broad suite of habitat conditions for wildlife	Sustains relatively undisturbed conditions that promote habitat for some plant and wildlife species	Enhances biodiversity by improving health in three distinct ecosystem type and at the landscape scale
Carbon		Provides net carbon sequestration potential relative to shorter rotations	Enables net carbon sequestration in multi-aged stands and multi-species stands	Net carbon sequestration will be useful for comparisons	
Forest products	Produces logs/wood for typical markets	Produces high-quality logs/wood that fills niche markets			
Recreation & aesthetics	Early-seral conditions are preferred by some hunters; harvest units provide	Is aesthetically appealing	Provides enhanced recreational opportunities; Continuous cover	Provides preferred aesthetic conditions for recreation	
Wildfire risk	With effective site preparation, reduces surface loading within units and interrupts wildfire flow across watersheds; a short window of vulnerability as a plantation	With effective site preparation, reduces surface loading within units and interrupts wildfire flow across watersheds; a longer window of vulnerability as an older plantation prior to thinning and prescribed fire	Requires careful management of surface and ladder fuels (mechanical and prescribed fire) in order to reduce wildfire risk given the continuous forest cover created by this regime	Vulnerability to wildfire is managed by isolation from continuous fuel beds in the watershed, through treatment of adjacent units and/or fire breaks	Restoration and maintenance of meadows, savannas and woodlands reduce wildfire risk, particularly in the WUI through strategic placement; riparian management zones, in contrast represent corridors for wildfire
Unique features provided relative to the surrounding region		Older stands fill a gap on the landscape because there are few such forests on lands under other ownership	gap on the landscape because there are few such forests on lands under other ownership	Older stands fill a gap on the landscape because there are few such forests on lands under other ownership	meadows and oak woodlands that fill a gap on the landscape because few exist on lands under other ownership
Other					Enhances partnerships with external entities interested in restoration;

5 'scenarios' discussed at the last FPC meeting



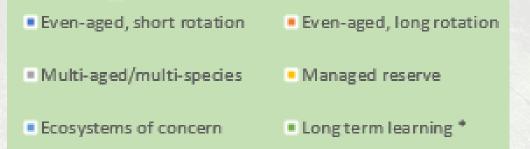


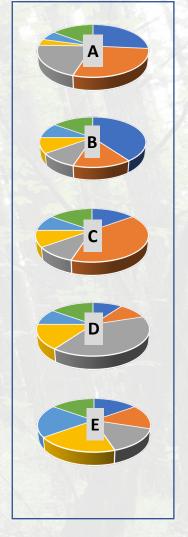
5 Scenarios to be modeled

Proportion	Scenario A (baseline)	Scenario B (lots of EASR)	Scenario C (lots of EALR)	Scenario D (lots of MAMS)	Scenario E (lots of MR & EOC)
Even-aged, short rotation	27%	<mark>40%</mark>	15%	10%	15%
Even-aged, long rotation	29%	15%	40%	10%	15%
Multi-aged/multi-species	21%	10%	10%	<mark>40%</mark>	15%
Managed reserve	4%	10%	10%	15%	<mark>20%</mark>
Ecosystems of concern	6%	10%	10%	10%	<mark>20%</mark>
Long term learning *	15%	15%	15%	15%	15%
TOTAL	100%	100%	100%	100%	100%



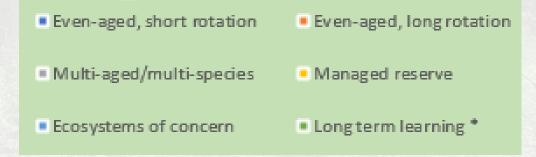
 long-term learning = acreage used for long-term research and recurring teaching and demonstrations

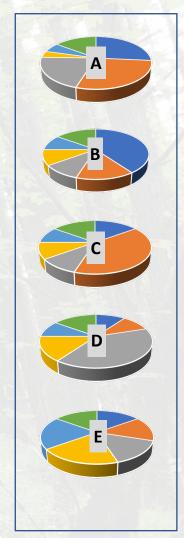




What metrics should be used to evaluate scenarios?

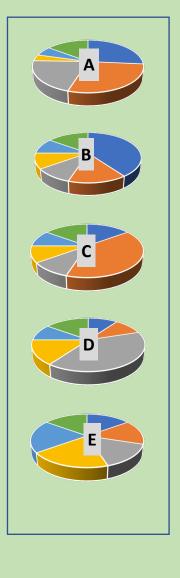
Forest Value	Scenario A (baseline)	Scenario B (lots of EASR)	Scenario C (lots of EALR)	Scenario D (lots of MAMS)	Scenario E (lots of MR &EOC)
Biodiversity					
Carbon storage					
Cultural values					
Forest products					
Recreation suitability & needs					
Resilience					
Revenue					_
Wildfire risk					





Forest values to be used to evaluate the merits of each scenario

Value	Relevant metrics
Biodiversity	Stand age class distribution (a measure of the diversity of forest age class) Forest cover (a measure of habitat suitability for some species) Tree species diversity Invasive species cover # of Species of Concern Snag density, diameter, and/or basal area
Carbon storage	Aboveground biomass (a measure of biomass of stem wood, bark, and foliage) Stand age class
Cultural values	% cover of plant species of cultural value
Forest products	Log diameter and length Total board ft and cubic ft by species; defect
Recreation suitability & needs	Qualitative measure of preferences for various rec users
Resilience to natural disturbance	Stand Density Index (a measure of tree density and size)
Revenue	Projected (a dollar value projected to be earned through timber harvest & used for restoration)
Wildfire risk	Composite index (derived from Canopy bulk density, Canopy base height, Canopy cover)



Draft Table of Contents of the New Plan

	IV. Maintaining Biodiversity
Executive Summary	a. At-risk Plants & Wildlife
Introductory Context	b. Management of Wildlife Habitat
I. Goals of the McDonald-Dunn Forest; desired future conditions	c. Management of Aquatic resources
II. Development of Vision, Mission, Goals for College of Forestry Research Forests in 2020	c. Management of Vegetation Communities of Concern
III. Development of McDonald-Dunn Research Forest Plan in 2022-2023	d. Management of Legacy Trees, Snags, & Down Wood
IV. Overview of Recent History of the McDonald-Dunn Forest (1993 plan; 2005 plan; suspension; resumption)	V. Managing Threats to Forest Health
Site Description	a. Climate Change
I. Location	b. Invasive Species
II. Biophysical Conditions	c. Wildfire
III. History: Ownership, Morril Act, Land Use	d. Insects & Disease
IV. Cultural Resources	e. Development (WUI)
V. Zoning, Regulations	f. Vandalism
VI. Harvest History and Recreation Use History	VI. Nurturing Human Dimensions
VII. Current Forest Conditions	a. Recreation
New Management Paradigms	b. Cultural Heritage
I. Prioritization of Opportunities for Research, Teaching, & Demonstration	VII. Enhancing Community Engagement
a. Long-term Research Projects	a. Community Science
b. Dedicated Teaching Areas	b. Interpretation
c. Research, Teaching, & Demonstration Projects	c. Communication Strategies
II. Forest Management Regimes that Create Learning Opportunities & Ensure Financial Sustainability	Plan Implementation
a. Five Management Regimes	I. Roles - Research Forest Staff, Forest Executive Committee, Dean
b. Timber Harvest Schedule	II. Annual Reporting
c. Future Forest Condition: Growth & Yield	III. Adaptive Management/Continuous Improvement
d. Alternative Funding Mechanisms	IV. Performance & Sustainability Indicators
III. Incorporation of Native American Perspectives	Literature Cited
a. TBD	Glossary
	Appendices

Who will lead on writing each section of the New Plan?

Executive Summary

Introductory Context

- I. Goals of the McDonald-Dunn Forest; desired future conditions
- II. Development of Vision, Mission, Goals for College of Forestry Research Forests in 2020
- III. Development of McDonald-Dunn Research Forest Plan in 2022-2023
- IV. Overview of Recent History of the McDonald-Dunn Forest (1993 plan; 2005 plan; suspension; resumption).

Site Description

- I. Location
- II. Biophysical Conditions
- III. History: Ownership, Morril Act, Land Use
- IV. Cultural Resources
- V. Zoning, Regulations
- VI. Harvest History and Recreation Use History
- VII. Current Forest Conditions

New Management Paradigms

- I. Prioritization of Opportunities for Research, Teaching, & Demonstration
 - a. Long-term Research Projects
 - b. Dedicated Teaching Areas
 - c. Research, Teaching, & Demonstration Projects
- II. Forest Management Regimes that Create Learning Opportunities & Ensure Financial Sustainability
 - a. Five Management Regimes
 - b. Timber Harvest Schedule
 - c. Future Forest Condition: Growth & Yield
 - d. Alternative Funding Mechanisms

III. Incorporation of Native American Perspectives

a. TBD

IV. Maintaining Biodiversity

- a. At-risk Plants & Wildlife
- **Technical workgroup**
- b. Management of Wildlife Habitat
- c. Management of Aquatic resources
- c. Management of Vegetation Communities of Concern
- d. Management of Legacy Trees, Snags, & Down Wood

V. Managing Threats to Forest Health

- a. Climate Change
- b. Invasive Species
- c. Wildfire
- d. Insects & Disease
- e. Development (WUI)
- f. Vandalism

VI. Nurturing Human Dimensions

- a. Recreation
- b. Cultural Heritage

Technical workgroup

Technical workgroup

VII. Enhancing Community Engagement

- a. Community Science
- b. Interpretation

- FPC group effort
- c. Communication Strategies

Plan Implementation

- I. Roles Research Forest Staff, Forest Executive Committee, Dean
- II. Annual Reporting

- **FPC** group effort
- III. Adaptive Management/Continuous Improvement
- IV. Performance & Sustainability Indicators

Literature Cited

- Glossary
- Appendices

Meetings of the FPC Spring Term

- We're entering a new phase, with a focus on modeling and writing
- We'll continue with biweekly meetings Spring Term
 - o The entire FPC will plan to meet once per month during April, May, and June
 - Work on those components of the plan that need group discussion (red sections on previous slide)
 - The second meeting each month will be for technical work groups to work on crafting sections of the plan
 - Work on those components of the plan that need technical expertise (blue sections on previous slide)
 - We'll select a day of week/time of day through a new scheduling poll