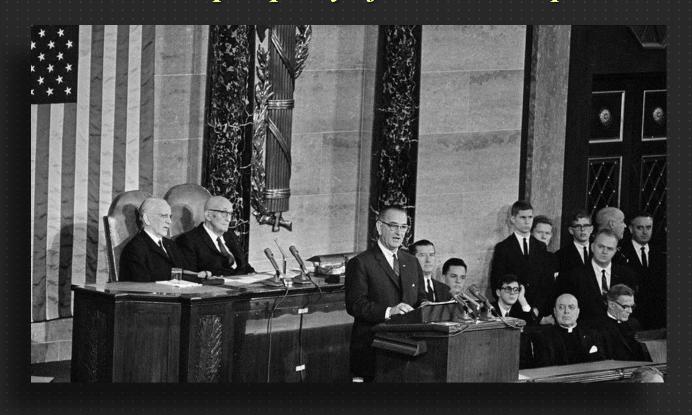
- ▶ Scenery as a public resource
- ► Baseline Visual Assessment

# POP QUIZ...

"The beauty of our land is a natural resource. Its preservation is linked to the inner prosperity of the human spirit."

"The beauty of our land is a natural resource. Its preservation is linked to the inner prosperity of the human spirit."



President Johnson- address to Congress February 8, 1965

- City and rural landscapes
- Pollution: Air, water, litter, junkyards, pesticides
- Solid waste management
- Sewage waste management
- Highway beautification
- Electrical transmission lines
- National trails system
- Rivers
- Wilderness
- Greenhouse gas emissions



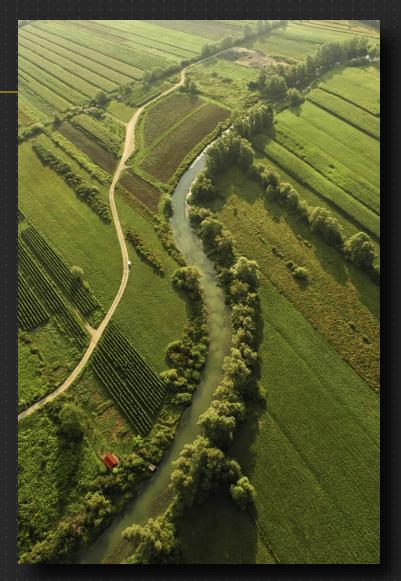
- ▶ Highway Beautification Act (HBA), 1965
- ▶ Wild and Scenic Rivers Act, 1968
- ▶ National Trails System Act, 1968
- ▶ National Environmental Policy Act, 1969
- ► Clean Air Act, 1970
- ► Clean Water Act, as amended 1972
- ▶ Resource Conservation and Recovery Act, 1976
- Surface Mining Control and Reclamation Act, 1977
- ▶ National Forest Management Act, 1976
- ▶ Federal Land Policy and Management Act, 1976



### PRACTICES & STANDARDS: SESSION |

## **Big Picture**

- Scenery is a <u>Public Resource</u>
  - (aesthetic/ visual/ scenic)
- Landscape/ Community Character
  - James K. Knight Foundation-"Place"
- Inventory, Manage, and Monitor



No one "owns" the view of scenic resources.



No one "owns" the view of scenic resources.

The charming landscape which I saw this morning is indubitably made up of some twenty or thirty farms. Miller owns this field, Locke that, and Manning the woodland beyond.

But none of them owns the landscape...

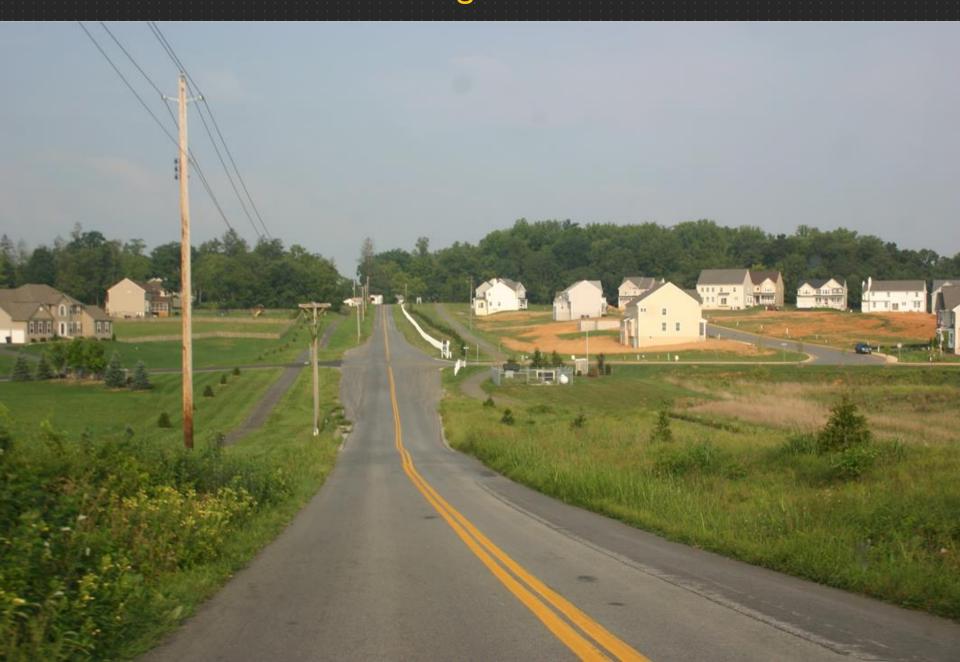
... This is the best part of these men's farms, yet to this their warranty-deeds give no title.

Ralph Waldo Emerson

# Vanishing Resource



# Vanishing Resource



### Scenic character is at risk of becoming a vanishing resource.











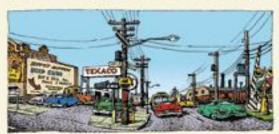














# It makes a difference....



## It makes a difference....



### Four Steps for Scenic Conservation

- (I) Engage Partners
- (2) Inventory & Map Visual Quality
- (3) Identify Scenic Issues
- (4) Develop Strategies







on Scenic Byways



Scenic Conservation Action Plan

## STEP (4): Develop Strategies & Action Plan

#### ► (I) Education

- presentations to city or town councils
- contributing articles to newsletters and newspapers

#### ▶ (2) Voluntary Measures

- non-binding landowner agreements
- Clean-up and restoration efforts

#### ▶ (3) Incorporation into Mgt. Objectives

- Objectives for adjacent Land Mgt. Agencies, Jurisdictions
- Objectives within Corridor Management Plan for Byway

#### ▶ (4) Incentives

- Grants for planting and landscaping
- Funds for community improvement projects

#### ► (5) Acquisition/Purchase

- Conservation easements
- Sensitive property acquisition

#### ► (6) Regulatory Measures

- Design review
- Historic preservation ordinances

- Scenery as a public resource
- ► Baseline Visual Assessment

# Long Distance Landscapes

CONDUCTING A BASELINE VISUAL ASSESSMENT FOR THE PACIFIC NORTHWEST NATIONAL SCENIC TRAIL





Presented by:

Brad Cownover and Matt Ramich Landscape Architects, US Forest Service



- Objectives
- **▶** Benefits

▶ Methods & Results

Next Steps & Lessons Learned





# PROJECT OVERVIEW



# LANDSCAPE ARCHITECTURE DETAIL

**Byron Stringham** 

**David Fothergill** 

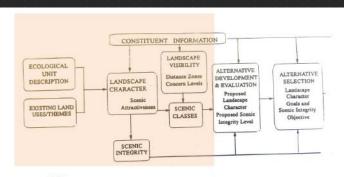
**Matt Ramich** 

# OBJECTIVES AND PRINCIPLES

- Compile existing scenery resource information currently available across multiple jurisdictions
- ▶ Obtain a baseline visual (scenic) inventory and landscape character assessment;
- ► Evaluate existing landscape (scenic) character;
- ▶ Produce a seen area (visibility) and viewshed analysis;
- Evaluate existing scenic integrity and stability; and
- ▶ Complete an on site (field based) visual resource analysis and photographic documentation from the trail corridor.

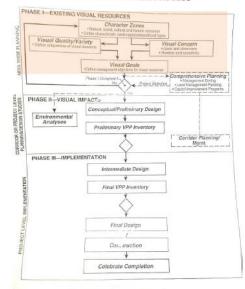
### BENEFITS...

- Document existing conditions
- Monitor change over time
- Assist with Optimal Location Review
- Protect Quality of Trail Experience
- ▶ Restore / Enhance (from what, to what?)
- ▶ Define distinctiveness, Zones of experience
- Assess Public Sensitivity
- ▶ Reflect Intrinsic Values/ Benefits to Communities
- ▶ Etc...
- ▶ Inform Comprehensive Plan



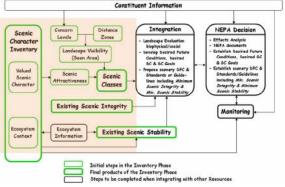
SMS (FS)

#### VISUAL PRIORITIZATION PROCESS

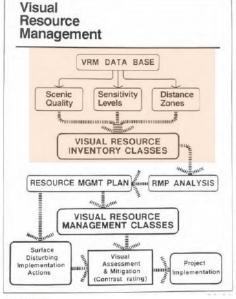


VPP (Federal Highways)

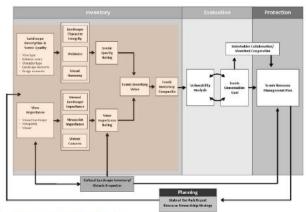
Visual Inventory (or Assessment) Portion =



SMS Appendix J (FS)



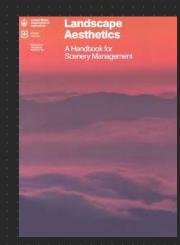
VRM (BLM)



Scenery Conservation System (NPS)

## MERGING TWO SYSTEMS

- Forest Service Scenery Management System
  - Referenced Terminology from USFS Landscape Management and Landscape Aesthetics, Agriculture Handbook 701 for scenery analysis.



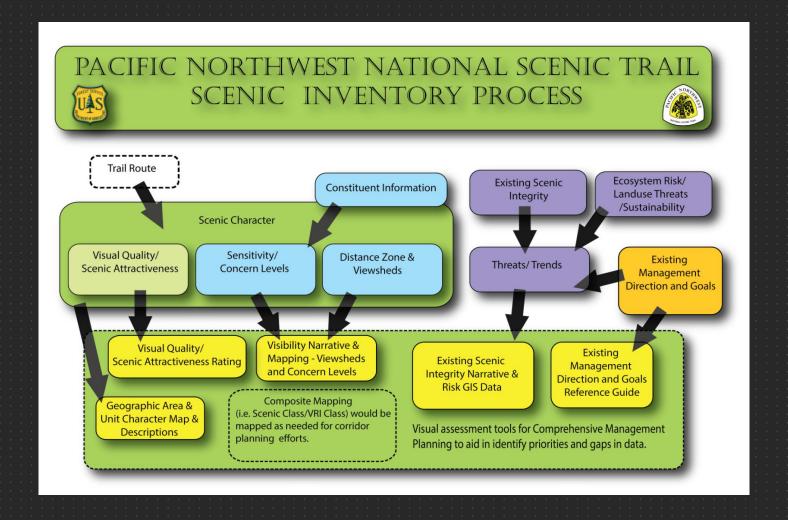
- Bureau of Land Management Visual Resource Inventory
  - Referenced Terminology from BLM Manual H-8410-1



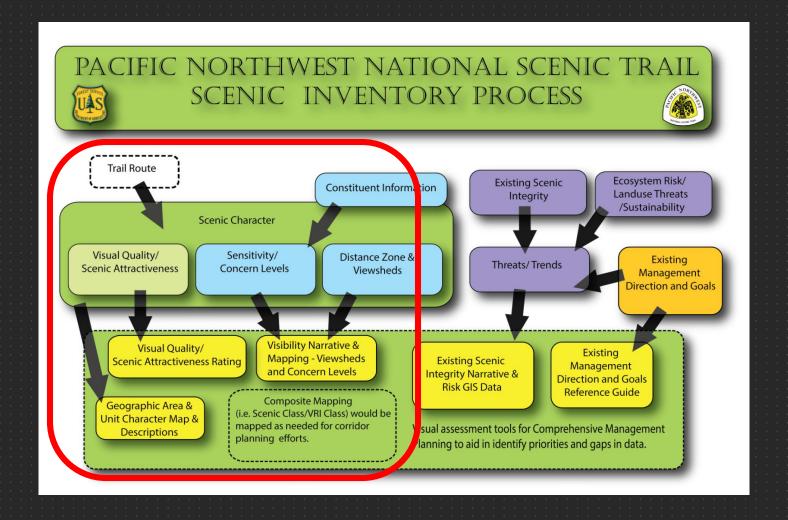
# The 'SCENIC' Resource Principles

- ✓ Condition
- √ Sensitivity to Change
- √ Visibility

## FLOW CHART WALKTHROUGH



## WALKTHROUGH CONTINUED



## Landscape (Scenic) Character

"A combination of the physical, biological and cultural images that gives an area its positive scenic identity and contributes to its sense of place."

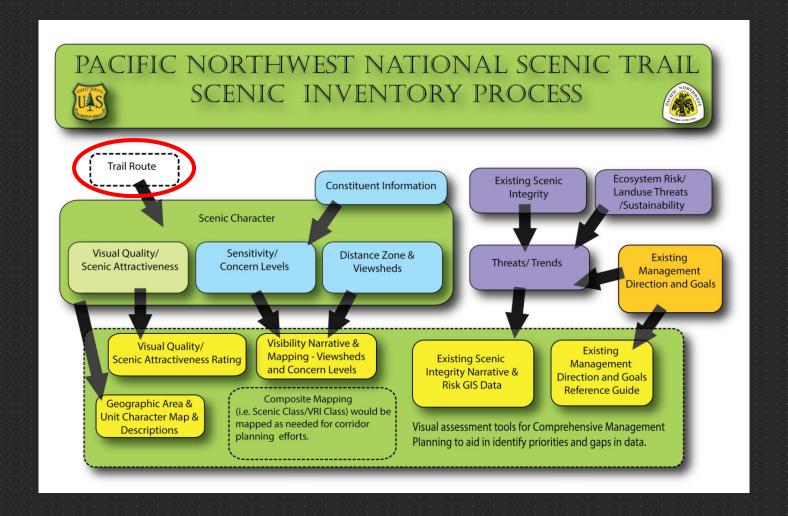
Scenic Character
the <u>essential scenery resource</u>
to be protected and restored

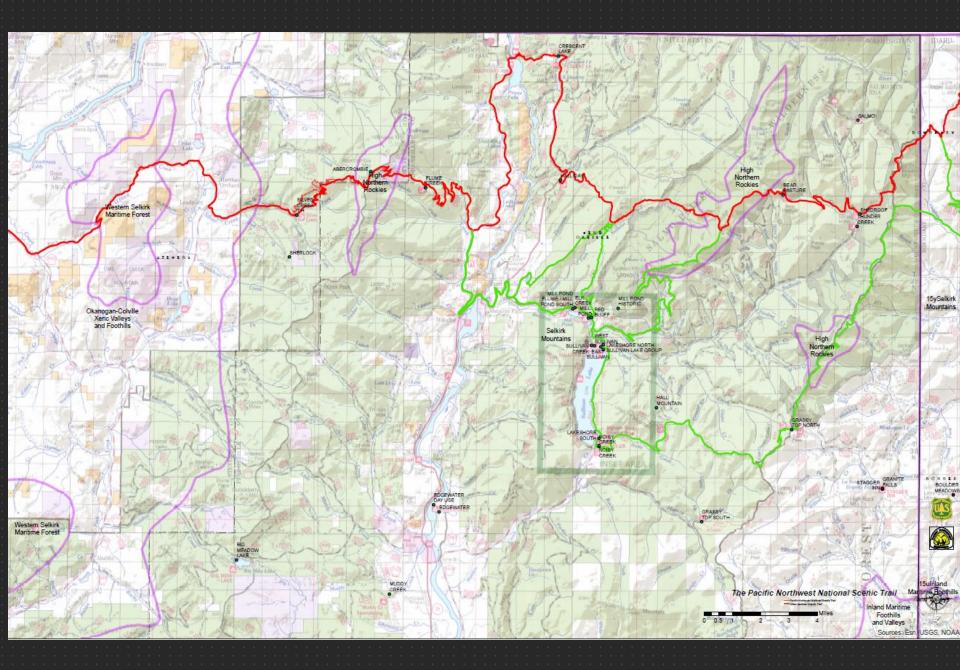
Seen Experience of the PNT Traveler

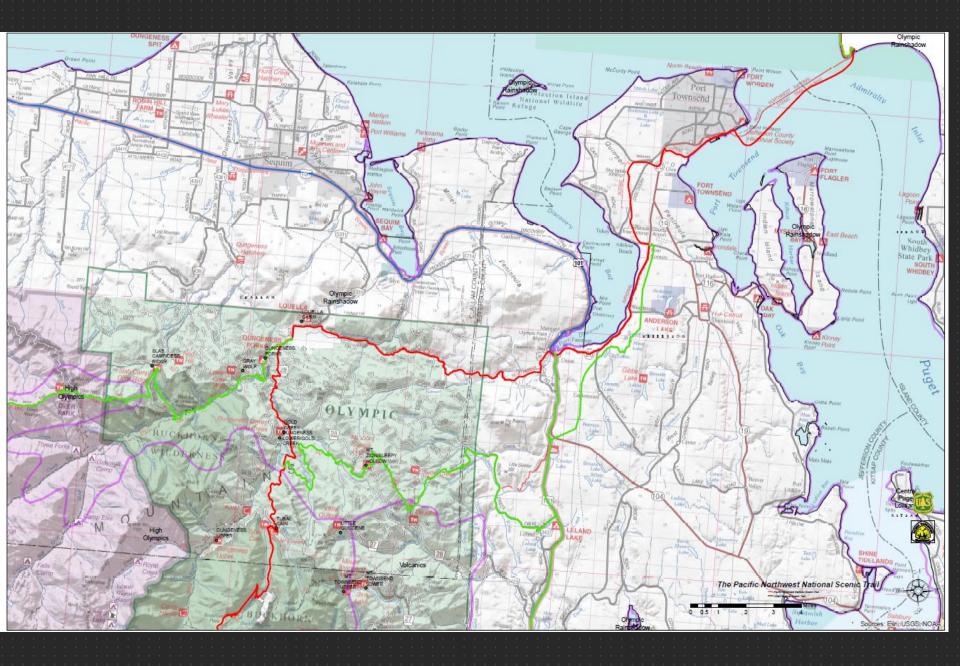




## WALKTHROUGH CONTINUED





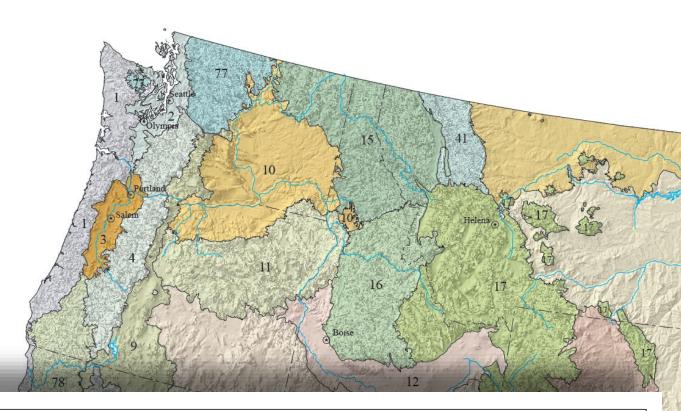


## REGIONS... ZONES

#### Level III



- 2. Puget Lowland
- 3. Willamette Valley
- 4. Cascades
- 5. Sierra Nevada
- 6. Central California Foothills and Coastal Mountains
- 7. Central California Valley
- 8. Southern California Mountains
- Eastern Cascades Slopes and Foothills
- 10. Columbia Plateau
- 11. Blue Mountains
- 12. Snake River Plain
- 13. Central Basin and Range
- 14. Mojave Basin and Range
- 15. Northern Rockies
- 16. Idaho Batholith
- 17. Middle Rockies



Organization	Unit				
EPA Level III Ecoregions	Coast Range	Puget Lowland	North Cascades (includes small sliver of	Northern	Canadian Rockies
			Columbian Plateau)	Rockies	
PNTA	Olympic Region	Puget Sound	North Cascades	Eastern	Rocky Mountains
				Washington	
FS	Olympic Peninsula	Puget Sound	North Cascades	Okanogan	Rocky Mountains
				Highlands	

# **REGIONS**

**Rocky Mountains** – A Units

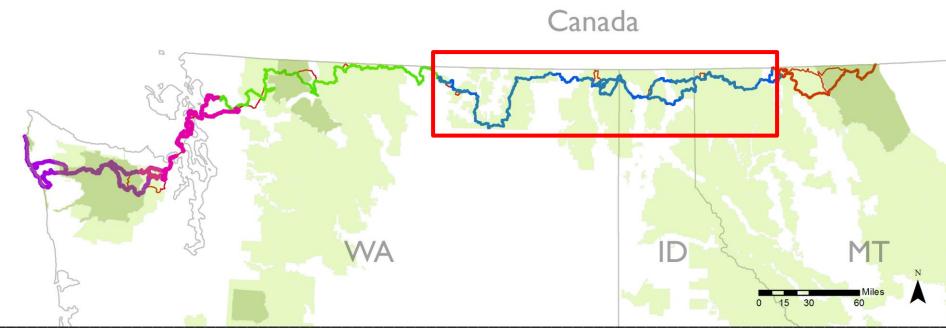




# REGIONS

**Columbian Rockies - B Units** 



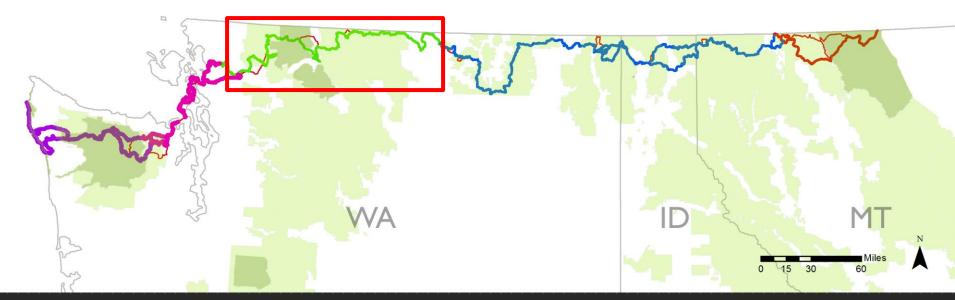


# REGIONS

North Cascades – C Units



#### Canada

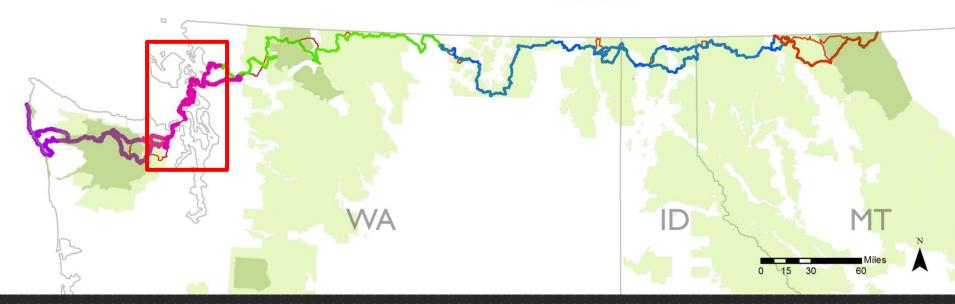


# **REGIONS**

**Puget Sound** – D Units



### Canada

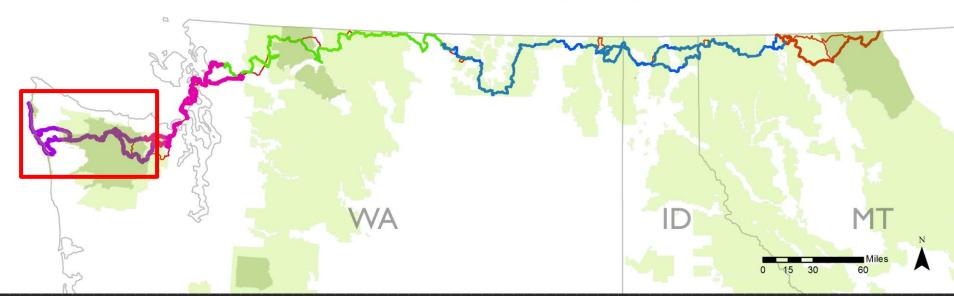


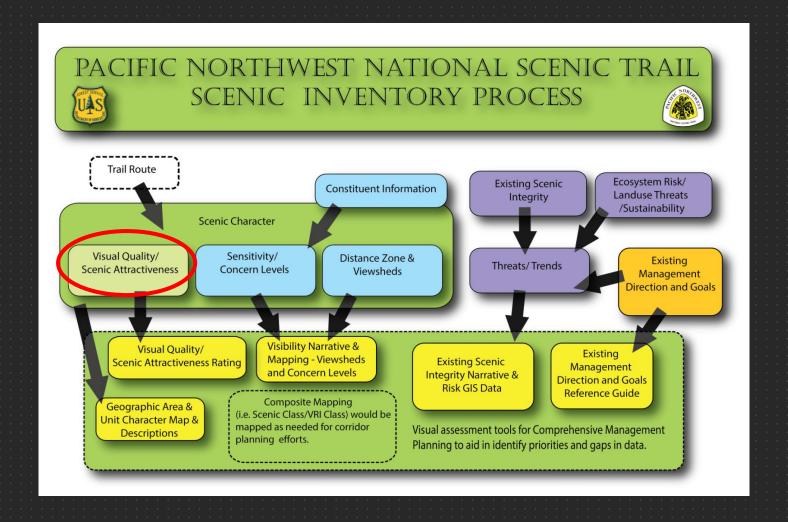
# **REGIONS**

Olympic Peninsula – E Units









# Visual (Scenic) Quality/ Scenic Attractiveness

Measures the scenic importance of a landscape based upon perceptions of the intrinsic beauty of landform, rock form, vegetative patterns, water characteristics, cultural land use

- Class A = Distinctive
- Class B = Typical
- Class C = Indistinctive





**Variety** 

- Unity
- Vividness
- Mystery
- Intactness
- Coherence
- Harmony
- Uniqueness
- Pattern
- Balance

Geographic Area: N RACKIES

Scenic Character Unit: 60+ENAI VALLEY

Scenic Attractiveness/ Visual (Variety, Unity, Vividness, Myst Coherence, Harmony, Uniquen	ery, Intactness.
Landform Spatial Definition	I. M /H/
Rock Features	О м н
Vegetation Patterns	L Ø H
Surface Water Characteristics	LMA
Landmarks	L M 60
Landuse Patterns	LMA
Built Features	L & H
Cultural/Sense of place	L M
Score (Circle One)	A B C
Scenic Integrity	
Level of Natural Intactness	L M H
Wholeness	L M H
Score (Circle One)	VL L M P VH
Visibility	
Foreground View: RIVER	
Middleground View:	
Background View:	

**GPS Location:** 

Photographs:

\$ 0767-0325

B-8

Scenic Character Description:

Vegetation:
LITTLE RIPADIAN EDGE
COTTONWOODS
TEXTURE OF FORESTED GLOPES
PASTORAL

Land Use:

FARMLAND HOPS, WHEAT, MUSTARD?

FORESTRY

SLAUMINER RIVER

LEVEES

PATTLY WORK PATTERNS

PASTURE GRASS - MONOCULTURE

Landform:

FLAT VALLEY

MEANDER OF LARGE RIVER

FORESTED, SELKIRK: PVRCELLS

WITH BRUSHLANDS.

JUST A HINT OF SELKIRK CREST

STEEP SLOPES DOWN TO PLAT

Features:

Other Comments:
RV9TUNL OF COHOMWOODS
BV9TLE OF WIND BURST
CHIRPING OF SWALLOWS
FULL LIGHT
QUIET
PEACEFUL
BURDER PATROL
11EERY

MOUNTAINS

BY DENCE OF MODIFICATION
FOR PLOOPLAN AGRICULTURE

# **Scenic Quality**

### Seven scenic quality factors



Landform



Color



Vegetation



Adjacent Scenery



Cultural Modifications



Water



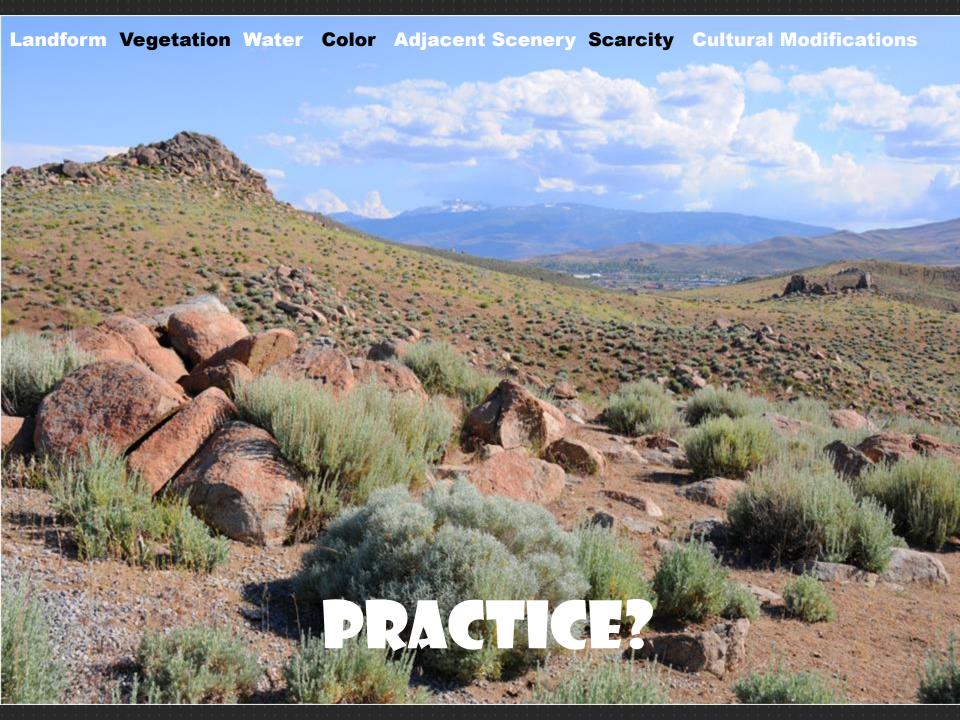
Scarcity

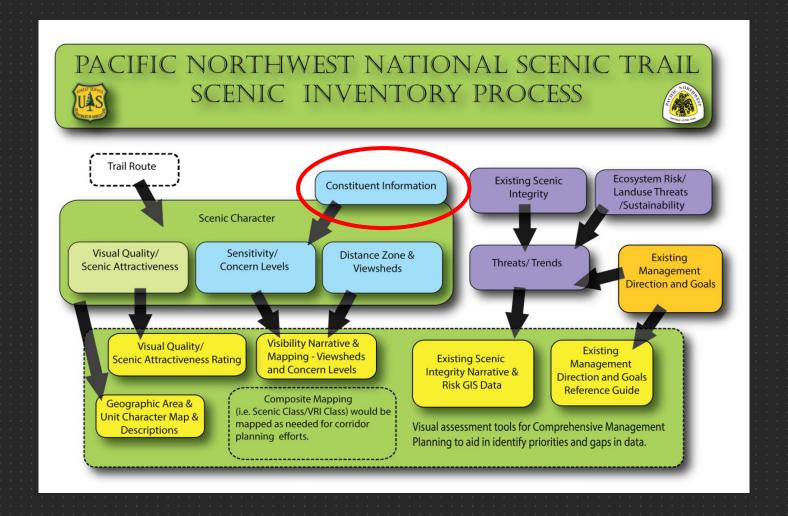
Key Factors	i i	Rating Criteria and Score	
Landform	High vertical relief as expressed in prominent cliffs, spires, or massive rock outcrops, or severe variation or highly eroded formations including major dune systems or detail features dominant and exceptionally striking and intriguing such as glaciers.	Steep canyons, mesas, buttes, cinder cones, and drumlins, or interesting erosional patterns of variety in size and shape of landforms, or detail features which are interesting though not dominant.	Low rolling hills, foothills, or flat valley bottoms, or few or no interesting landscape features.
Vegetation	A variety of vegetative types as expressed in interesting forms, textures, and patterns.	Some variety of vegetation, but only one or two major types.	Little or no variety or contrast in vegetation.
	5	3	1
Water	Clear and clean appearing, still, or cascading white water, any of which are a dominant factor in the landscape.	Flowing, or still, but not dominant in the landscape.	Absent, or present, but not noticeable.
	5	3	0
Color	Rich color combinations, variety or vivid color, or pleasing contrasts in the soil, rock, vegetation, water or snow fields.	Some intensity or variety in colors and contrast of the soil, rock and vegetation, but not a dominant scenic element.	Subtle color variations, contrast, or interest, generally mute tones.
	5	3	1
Influence of Adjacent Scenery	Adjacent scenery greatly enhances visual quality.	Adjacent scenery moderately enhances overall visual quality.	Adjacent scenery has little or no influence on overall visual quality.
	5	3	0
Scarcity	One of a kind or unusually memorable, or very rare within region. Consistent chance for exceptional wildlife or wildflower viewing, etc.	Distinctive, though somewhat similar to others within the region.	Interesting within its setting, but fairly common within the region.
	*5+	3	1
Cultural Modifications	Modifications add favorably to visual variety while promoting visual harmony.	Modifications add little or no variety to the area, and introduce no discordant elements.	Modifications add variety but are very discordant and promote strong disharmony.
	2	0	-4

Figure Source: BLM Manual H-8410-1, Illustration 2.

<sup>\*</sup> A rating of greater than 5 can be given but must be supported by written justification.

PNNST Visual Inventory	Date: 8/3  2015
Geographic Area: COAST PANGE PHINAVE	A) B-44
Scenic Character Unit: LOW OF MPICS	er)
Visual Quality /Scenic Attractiveness	Scenic Character Description:
(Variety, Unity, Vividness, Mystery, Intactness, Coherence, Harmony, Uniqueness)	Manadallani
Landform Ø 3, 1 pts	Vegetation:
Vegetation & 3, 1 pts	· DOUG FIR · W RED CHESAR
Water #3.3,0 pts	BIN DE LEAF MAPLE
	PIPARIAN SWOOD TERN
Color 5/B, 1 pts	FRIGHTIC MISS LICHEN
Influence of Adjacent Scenery /Viewshed 5, 0 pts	PAGEC MAPRINES !! FERNY HARSETA
Scarcity 5+, <b>3</b> , 1 pts	RECREATION ,
Cultural Modification	CONSERVATION
Sense of place 1,0,-4 pts (Also see Scenic Integrity)	RESTORATION
A=19+ , B=12-18 , C=11-	
Score (Circle One) B C	/# NEW TOTAL OF THE TOTAL OF TH
Scenic Integrity	Landform:
Level of Natural Intactness H (W) L  Wholeness Fig M L	FLYVIAL PROCESSES POINT BARS
	RIVER CANYONS CUTTING DEPOSITING
Score (Circle One) VL L M H (V) Visibility (Sensitivity/Concern Level/Viewshed)	HAT SPRINGS DYNAMISM
	EXPOSED ROLL EXPRESSES VOLCAMPE
Foreground View: CARIDOR	THERINE AIRAPIAN HUSTORY
TVNNBL OF TREES	Features:
OPENINGS IN CANOPY IS LIMITED	RVEC
	HOT SPRINGS (BOULDER)
Middleground View :	COOL CLITTEAL MODIFICATION OF
HIMPSES OF RIVER RUTER PROCESSES	BREACHED PAM
RITER TROCESSES	PARK MANAGEMENT GIVES FURAL
	Other Comments:
Background View:	TPAIL INTERACTS WITH RWER
LIMITED	ABOVE MARY'S FALL'S CAMPGROUND
SOME POLK OUTCROPS	FULL SHADE IN MANY AREAS
PORBSTED UPLAND SLOPES	GUIST IN THIS
GPS Location:	WET CHMATE
O. O LOCALION.	H-) Velum-
	DENSE FOREST
	7,000
Photographs:	14 A TO THE STATE OF THE STATE

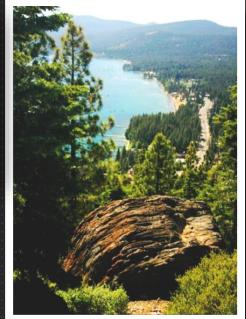




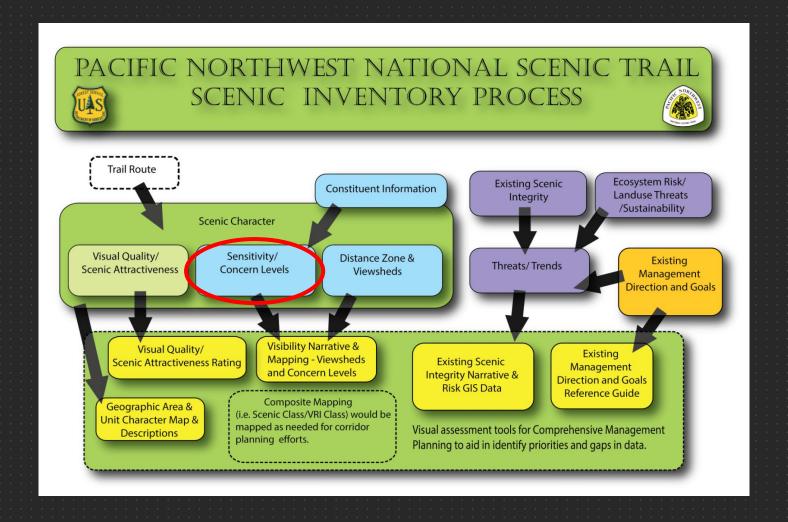
## Constituent Information

- how people use area
- preferences and thresholds for scenery condition
- PNT- Local Field Office as surrogates for formal survey of trail hikers
- Crowd-source potentialgeophotos
- Comp. Planning can augment









### Concern Levels

A measure of public *concern* for scenery as viewed from travelways, use areas, special places.

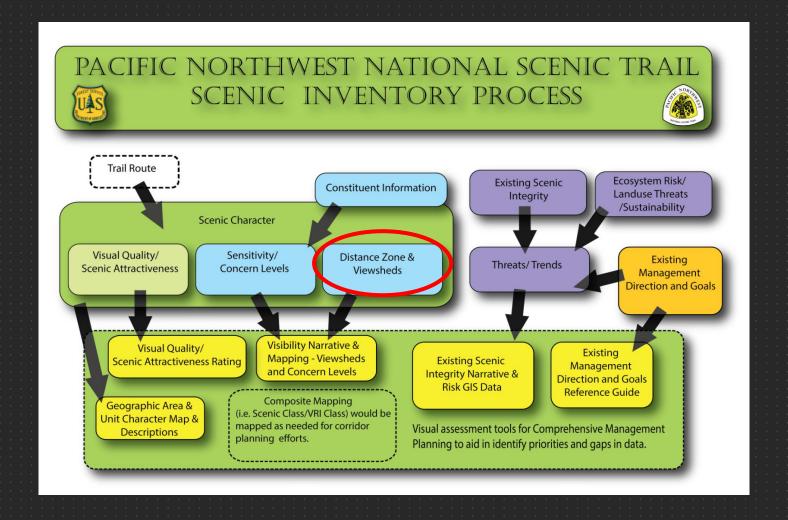
Based on numbers of viewers & social importance of the scenery



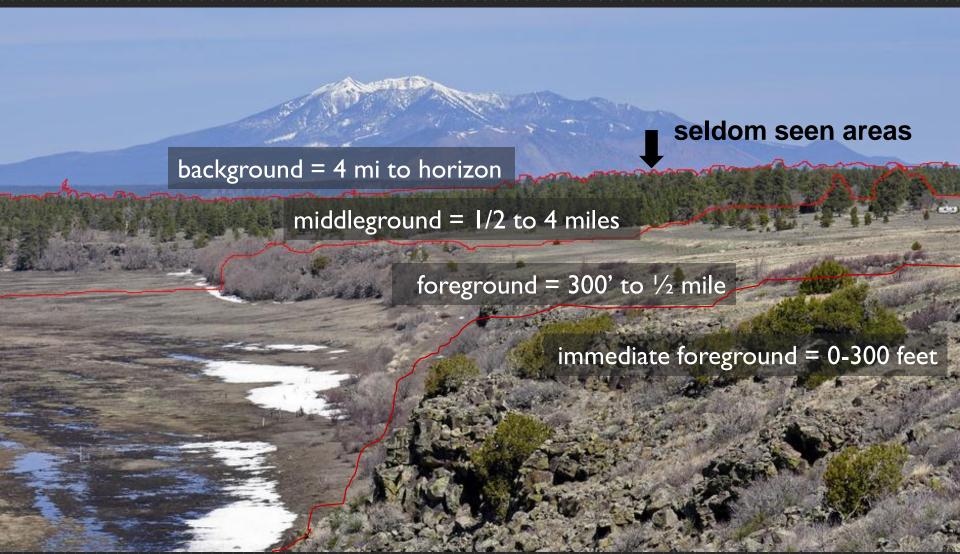
high 1

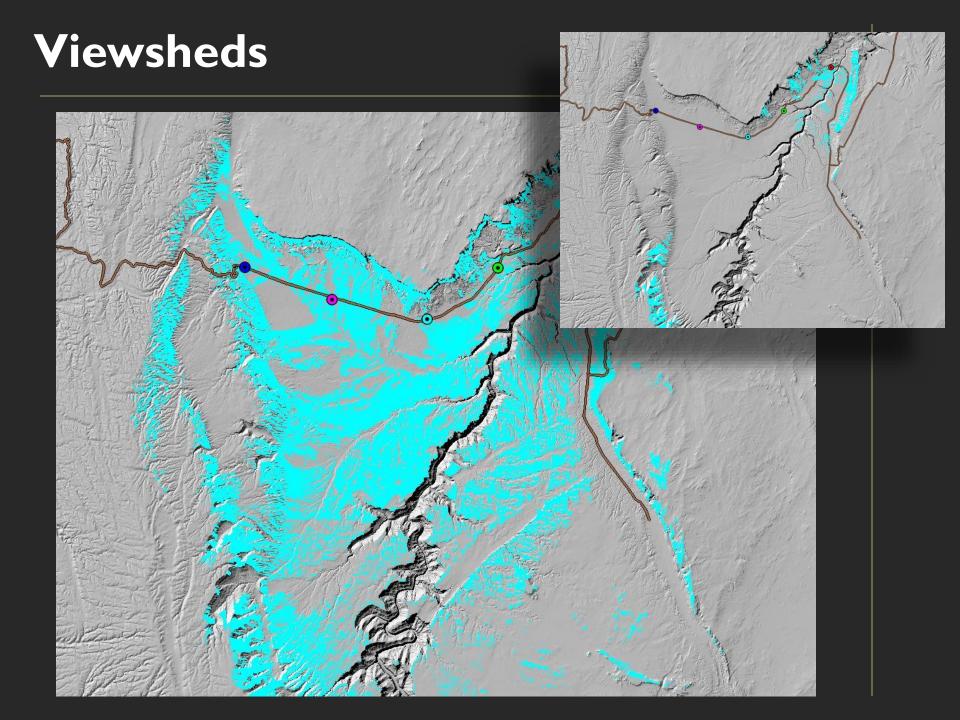
moderate 2

low 3

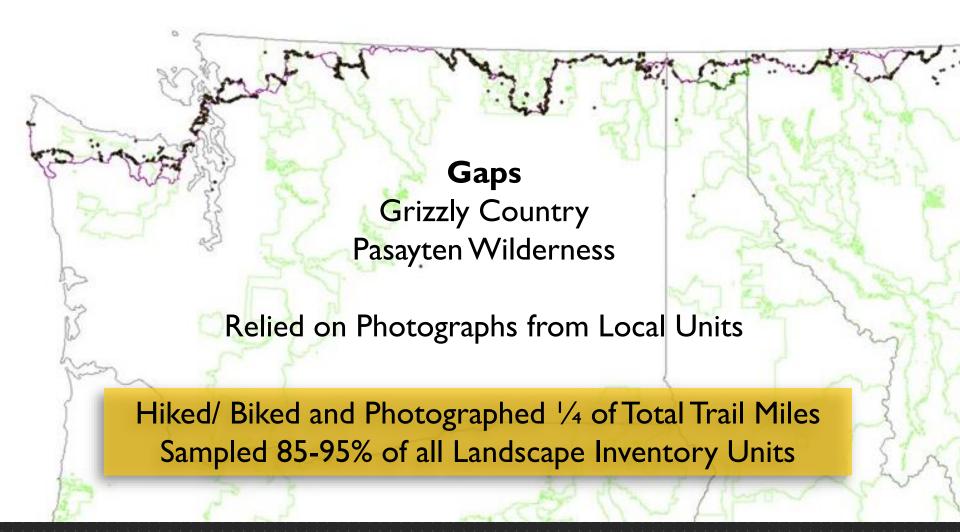


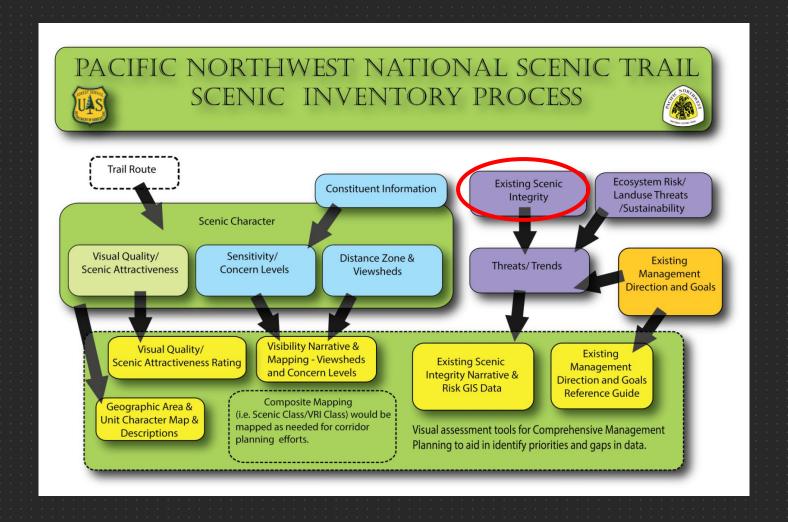
# Landscape Visibility





### PHOTO INVENTORY POINTS





### **KEY INDICATOR**

# Scenic Integrity

measures <u>scenery disturbance</u> of the scenic character, in 6 levels:

SIO very high high moderate	no disturbance unnoticed disturbance minor disturbance	VQO P R PR
low very low no integrity	co-dominant disturbance strong disturbance excessive disturbance	M MM UM

Scenic Integrity is emphasized within view of travelways, use areas and special places – measures existing/future disturbance & can define thresholds for future disturbance



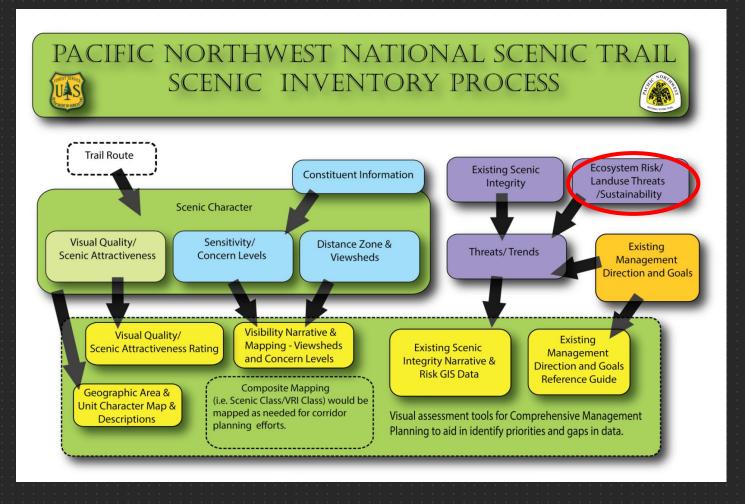
very high integrity (Preservation VQO)



moderate integrity (Partial Retention) vqo



no integrity (Unacceptable Modification)



SUSTAINABILITY-STABILITY...

- -ecological
- -social

## Scenic Stability

measures <u>ecological sustainability</u> of the valued scenic character attributes, in 6 levels:

very high high moderate

<u>all</u> attributes sustainable <u>dominant</u> attributes sustainable <u>most dom</u> attributes sustainable

low very low no stability some dom attributes sustainable few dom attributes sustainable no dom attributes sustainable



very low scenic stability

Scenic Stability recognizes the often subtle, incremental changes that can severely diminish or eliminate valued scenic character – it uses <u>historic range of variation</u> as a reference baseline for sustainability

### The role of scenic stability:



HIGH Scenic Integrity Scenery appears intact, disturbances remain unnoticed.

LOW Scenic Stability The attractive aspen and large tree scenery attributes are being eliminated due to white fir encroachment and wildfire suppression -ecosystem conditions & stressors are outside of their historic range.

**Scenic Stability** addresses ecosystem influences on scenery with a quantifiable method to help direct ecosystems towards a socially desired, sustainable future.

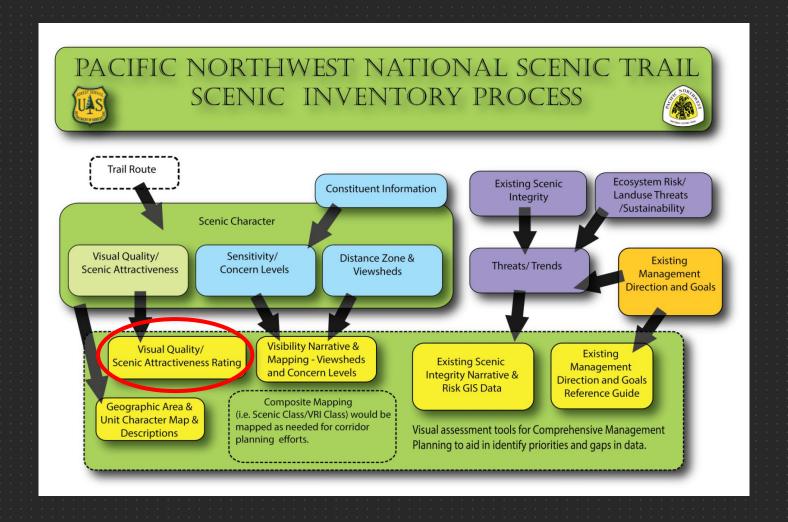
### Prioritization Matrix

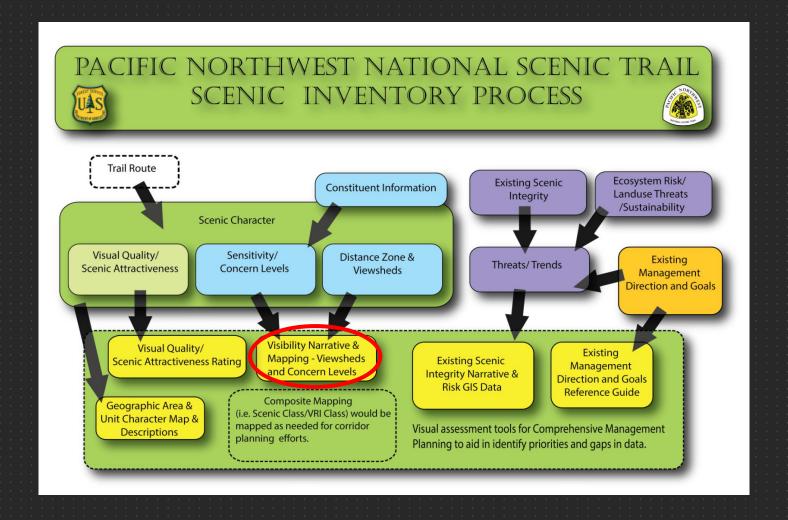
### Scenic Class

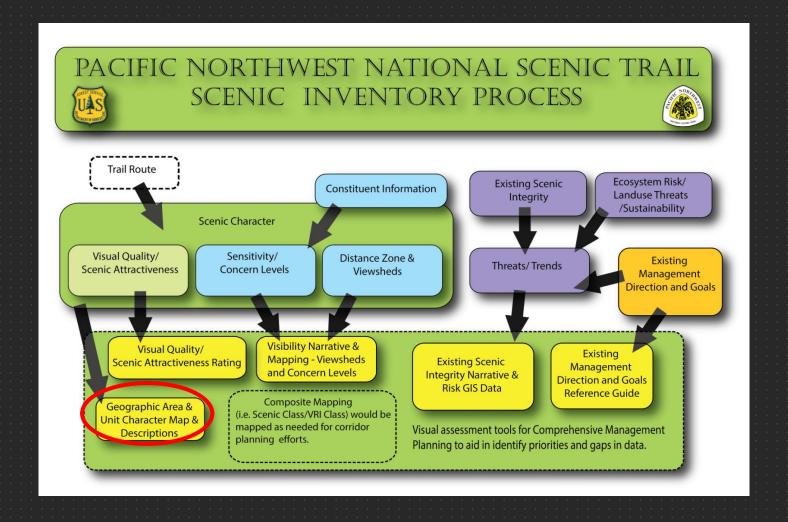
		2	3	4	5	6	7
Highly Sustainable	Enhance or Maintain	Enhance or Maintain	Maintain	Maintain	Maintain	Maintain	Maintain
Sustainable	Enhance or Maintain	Enhance or Maintain	Maintain	Maintain	Maintain	Maintain	Maintain
Moderately Sustainable	Restore	Restore	Maintain or Restore	Maintain or Restore	Maintain	Maintain	Maintain
Low Sustainability	Restore	Restore	Recommend Restoration	Recommend Restoration	Consider Restoration	Consider Restoration	Maintain
Unsustainable	Restore	Restore	Recommend Restoration	Recommend Restoration	Consider Restoration	Consider Restoration	Consider Restoration

Scenic Character Goals Development

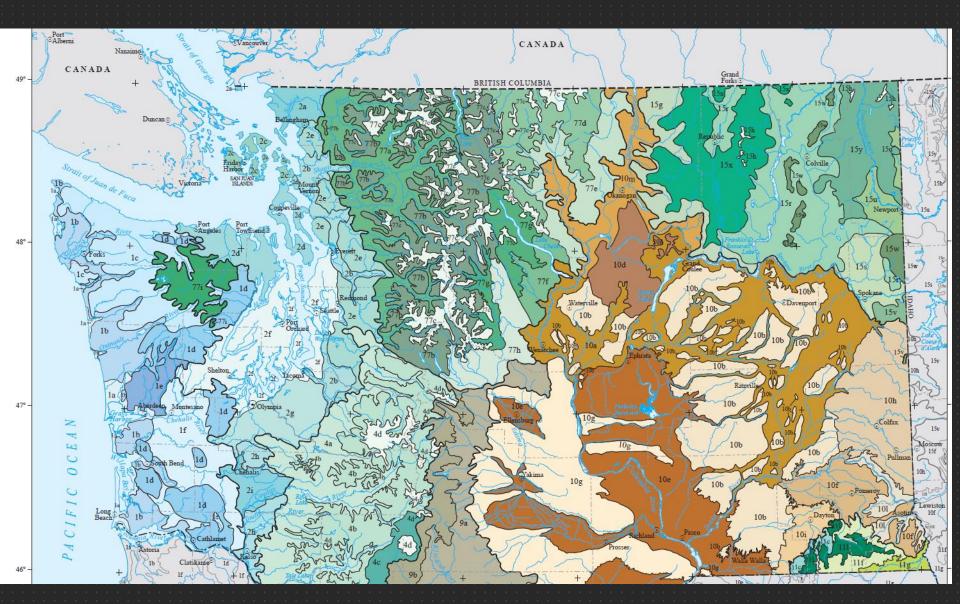








## REGIONS --- SUB-REGIONS --- LANDSCAPE ROOMS



### Rocky Mountains Index:



A1 - Belly River Valley Pg: 2 - 3

A2 - Stony Indian Pass Pg: 4 - 5

A3 - Waterton Lake Pg: 6 - 7 A4 - Brown Pass Pg: 8 - 9

A5 - Bowman Lake Pg: 10 - 11

A6 - North Fork of the Flathead - Pg: 12 - 13

A7 - Whitefish Range -Hay Creek - Pg: 14 - 15

A8 - Whitefish Divide Pg: 16 - 17

A9 - Whitefish Range -Ten Lakes Area - Pg: 18 - 19

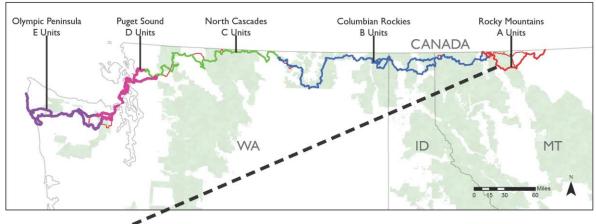




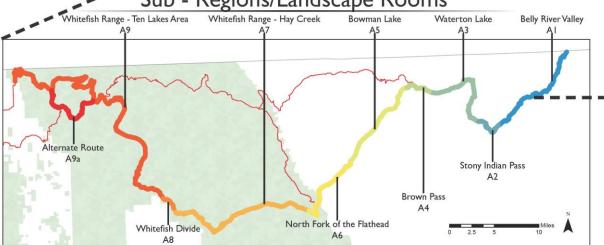
Pacific Northwest National Scenic Trail

# REGIONS - VISUAL INVENTORY FORMS









### Visual Inventory Form

Date: 7-6-2015

Scenic Charact Trailhead, Trail		nch Creek	
(Variety, Unity,	/Scenic Attractive Vividness, Mystermony, Uniquene	rv. Intactness.	Scenic Character Descrip
Landform	5, 3, 1 pts	3	Vegetation:
Vegetation	5, 3, 1 pts	1	
Water	5, 3, 0 pts	3	Land Use:
Color	5, 3, 1 pts	3	
Influence of Ad Viewshed	jacent Scenery 5, 3, 0 pts	3	Landform:
Scarcity	5+, 3, 1 pts	3	Features:
Cultural Modific Sense of place (Also see Scen	4. 04 pts	0	Other Comments:
A=19+ , B=12- Score (Circle C		A В С	Outer Comments.
Scenic Integri	ty		
Level of Natura	I Intactness	H M L	
Wholeness		H M L	
Score (Circle C		VL L M H VH Level/Viewshed)	
Foreground Vie	ew:		
Middleground \	/iew :		-
Background Vir	ew.		

The Belly River Valley lies east of the Continental Divide in the rain shadow of the Rocky Mountains. The most eastern section of the PNNST coincides with an alternate route of the Continental Divide National Scenic Trail. The broad Belly River Valley extends into Canada cradling the north flowing river. Nestled along the Rocky Mountain Front, here the Rocky Mountains dramatically uplift from the vast prairie to the east. Open meadows intersperse with aspen groves and mixed coniferous forest. Riparian corridors carve through rolling hills. Glacially scoured Cosley and Glenns Lakes display clear, azure water and are linked together by the Mokawanis River. High quality water abounds in many shades and forms. Expansive views of the surrounding Lewis Range are abundant.

Chief Mountain presides over the valley, a landscape sacred to the Blackfoot Nation. The Belly River Ranger Station stands testament to National Park Service management and the primary land use of recreation. Wildlife is abundant with most of the entire suite of species still extant, including lynx and grizzly bears. Non-native plant species, such as Timothy grass, have been introduced.

#### **Aerial Overview**



#### **UNIT MAP**



#### VISUAL QUALITY/SCENIC ATTRACTIVENESS

	Rating	Explanation or Rationale
Landform	4	Dramatic, glaciated mountains and valleys of Lewis Range.
Vegetation	3	Mixed coniferous forest; meadow; riparian corridor; aspen groves.
Water	5	Abundant in many forms: river; streams; lakes high quality water.
Color	3	Meadow flowers; aspen; clear cerulean water.
Adjacent Scenery	3	Rocky, jagged mountains including iconic Chief Mountain.
Scarcity	5	Exceptional; national significance.
Cultural Modification	3	Excellent trails and campgrounds; Belly River Ranger Station and associated facilities.
Total	26	RATING = A

Visual Inventory Form

Zone: 5 - Rocky Mountains Unit # A1 Belly River Valley

Date: 07/06/2015 Jurisdiction (s): National Park

#### **LOCATION MAP**



#### VISIBILITY

Viewsheds/ Screening/ Distance Zone	Views are filtered by vegetation in sections but mostly far reaching into Middleground and Background of surrounding Lewis Range.
Sensitivity/	Very high concern levels because
Concern	of high use and portal access to
Level	Glacier National Park.

#### **SCENIC INTEGRITY**

Level of Naturalness	Very High except introduced pasture grass
Wholeness	Very High





The Belly River Valley lies east of the Continental Divide in the rain shadow of the Rocky Mountains. The most eastern section of the PNNST coincides with an alternate route of the Continental Divide National Scenic Trail. The broad Belly River Valley extends into Canada cradling the north flowing river. Nestled along the Rocky Mountain Front, here the Rocky Mountains dramatically uplift from the vast prairie to the east. Open meadows intersperse with aspen groves and mixed coniferous forest. Riparian corridors carve through rolling hills. Glacially scoured Cosley and Glenns Lakes display clear, azure water and are linked together by the Mokawanis River. High quality water abounds in many shades and forms. Expansive views of the surrounding Lewis Range are abundant.

Chief Mountain presides over the valley, a landscape sacred to the Blackfoot Nation. The Belly River Ranger Station stands testament to National Park Service management and the primary land use of recreation. Wildlife is abundant with most of the entire suite of species still extant, including lynx and grizzly bears. Non-native plant species, such as Timothy grass, have been introduced.

#### **Aerial Overview**



#### **UNIT MAP**



#### VISUAL QUALITY/S

VISUAL QUALITY/S		
	Rating	
Landform	4	
Vegetation	3	
Water	5	
Color	3	
Adjacent Scenery	3	
Scarcity	5	
Cultural Modification	3	
		ı

Total

#### Visual Inventory Form

Zone: 5 - Rocky Mountains Unit # A1 Belly River Valley

Date: 07/06/2015

Jurisdiction (s): National Park

#### **LOCATION MAP**



#### **VISIBILITY**

Viewsheds/ Screening/ Distance Zone	Views are filtered by vegetation in sections but mostly far reaching into Middleground and Background of surrounding Lewis Range.

Sensitivity/ Concern Level Very high concern levels because of high use and portal access to Glacier National Park.



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levels because rtal access to ark.

introduced



#### **SCENIC INTEGRITY**

Level of Naturalness	Very High except introduced pasture grass
Wholeness	Very High



The Belly River Valley lies east of the Continental Divide in the rain shadow of the Rocky Mountains. The most eastern section of the PNNST coincides with an alternate route of the Continental Divide National Scenic Trail. The broad Belly River Valley extends into Canada cradling the north flowing river. Nes-

#### VISUAL QUALITY/SCENIC ATTRACTIVENESS

Rating Explanation or Rationale

Landform 4 Dramatic, glaciated mountains and valleys of

Visual Inventory Form

Zone: 5 - Rocky Mountains Unit #A1 Belly River Valley

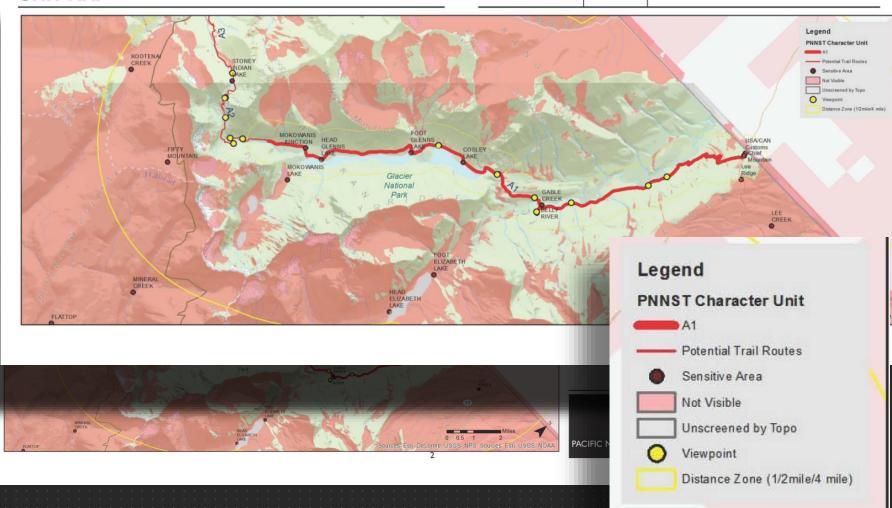
Date: 07/06/2015

**UNIT MAP** 

**Total** 

26

RATING = A



The Belly River Valley lies east of the Continental Divide in the rain shadow of the Rocky Mountains. The most eastern section of the PNNST coincides with an alternate route of the Continental Divide National Scenic Trail. The broad Belly River Valley extends into Canada cradling the north flowing river. Nestled along the Rocky Mountain Front, here the Rocky Mountains dramatically uplift from the vast prairie to the east. Open meadows intersperse with aspen groves and mixed coniferous forest. Riparian corridors carve through rolling hills. Glacially scoured Cosley and Glenns Lakes display clear, azure water and are linked together by the Mokawanis River. High quality water abounds in many shades and forms. Expansive views of the surrounding Lewis Range are abundant.

VISUAL QUA

Landform

Vegetation

Water

Color

Adjacent Scenery

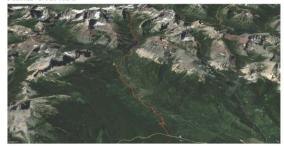
Scarcity

Cultural Modification

Total

Chief Mountain presides over the valley, a landscape sacred to the Blackfoot Nation. The Belly River Ranger Station stands testament to National Park Service management and the primary land use of recreation. Wildlife is abundant with most of the entire suite of species still extant, including lynx and grizzly bears. Non-native plant species, such as Timothy grass, have been introduced.

#### **Aerial Overview**



#### **UNIT MAP**



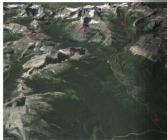
### **VISUAL QUALITY/SCENIC ATTRACTIVENESS**

	Rating	Explanation or Rationale
Landform	4	Dramatic, glaciated mountains and valleys of Lewis Range.
Vegetation	3	Mixed coniferous forest; meadow; riparian corridor; aspen groves.
Water	5	Abundant in many forms: river; streams; lakes high quality water.
Color	3	Meadow flowers; aspen; clear cerulean water.
Adjacent Scenery	3	Rocky, jagged mountains including iconic Chief Mountain.
Scarcity	5	Exceptional; national significance.
Cultural Modification	3	Excellent trails and campgrounds; Belly River Ranger Station and associated facilities.
Total	26	RATING = A

The Belly River Valley lies east of the Cor shadow of the Rocky Mountains. The most easte cides with an alternate route of the Continental I broad Belly River Valley extends into Canada cract tled along the Rocky Mountain Front, here the Refrom the vast prairie to the east. Open meadows and mixed coniferous forest. Riparian corridors cially scoured Cosley and Glenns Lakes display clt together by the Mokawanis River. High quality we forms. Expansive views of the surrounding Lewis

Chief Mountain presides over the valley, foot Nation. The Belly River Ranger Station stan Service management and the primary land use of with most of the entire suite of species still exta Non-native plant species, such as Timothy grass,

#### **Aerial Overview**



#### **UNIT MAP**



#### **SCENIC CHARACTER**

The Belly River Valley lies east of the Continental Divide in the rain shadow of the Rocky Mountains. The most eastern section of the PNNST coincides with an alternate route of the Continental Divide National Scenic Trail. The broad Belly River Valley extends into Canada cradling the north flowing river. Nestled along the Rocky Mountain Front, here the Rocky Mountains dramatically uplift from the vast prairie to the east. Open meadows intersperse with aspen groves and mixed coniferous forest. Riparian corridors carve through rolling hills. Glacially scoured Cosley and Glenns Lakes display clear, azure water and are linked together by the Mokawanis River. High quality water abounds in many shades and forms. Expansive views of the surrounding Lewis Range are abundant.

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#### **Aerial Overview**



#### **UNIT MAP**



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Viewpoint - Panorama #01



Viewpoint #02



Viewpoint #03





The Tobacco Plains unit is a broad valley sculpted by glaciation. Drumlins, or hills composed of glacial till, create low relief and well drained soils. The Tobacco River carves through the rolling landscape with rich riparian habitat replete with bird life. Land cover is largely treeless. Uplands, such as river terraces, supports dry, fragrant ponderosa pine forests. Pockets of aspen add to the pleasant mosaic. Suitable land has been converted to agriculture use, adding pastoral charm. Open expanses have distant views of the Whitefish and Salish Mountain ranges.

The convivial town of Eureka, a social oasis nestled in the Tobacco Plains, offers sustenance to weary travelers. Portions of the trail sample the residential and commercial fabric of this quiet community. The unit's geologic history renders it rich with sand and gravel deposits.

#### **Aerial Overview**



#### **UNIT MAP**



#### VISUAL QUALITY/SCENIC ATTRACTIVENESS

	Rating	Explanation or Rationale
Landform	3	Lowland hills; alluvial terraces; river bluffs.
Vegetation	3	Mostly treeless; ponderosa pine; aspen; riparian corridor; agricultural fields.
Water	3	Tobacco river; farm ponds.
Color	2	Fall color of aspen and broadleaf riparian plants; agriculture.
Adjacent Scenery	3	Broad agricultural valley; Whitefish Range t the east; Salish Mountains to the west.
Scarcity	1	Common agricultural landscape.
Cultural Modification	2	Historic rural farm houses; historic downtown Eureka.
Total	17	RATING = B

Visual Inventory Form

Zone: 4 - Columbian Rockies
Unit # B I Tobacco Plains

Date: 07/07/2015

Jurisdiction (s): Private, US Forest Service

#### **LOCATION MAP**



#### VISIBILITY

Viewsheds/	Middleground views are open in
Screening/	the Ag land. Background is
Distance Zone	dominated by mountain ranges.
Sensitivity/ Concern Level	Very High concern levels because of proximity to Eureka.

#### **SCENIC INTEGRITY**

Level of Naturalness	Low level because landscape is altered for the majority of the unit.
Wholeness	Low level because agricultural land has continuity but other land





is fragmented.

Viewpoint - Panorama #01



#### Viewpoint #02



#### Viewpoint #03





22

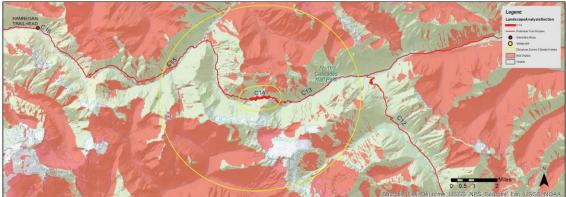
#### **SCENIC CHARACTER**

The Whatcom Pass unit is a high elevation vista with impressive far reaching views, lagged mountain tops abound with active glaciers. Challenger and Whatcom Glaciers are in the middleground distance zone, allowing for close observation of details, such as crevasses and blue ice. Bare mountain, polished smooth and scarred by scraping, is exposed as glaciers recede. Slopes are unstable and constantly falling apart. Avalanche chutes are frequent. Rock is abundant with granite talus and cliff bands. Hanging valleys conceal clear, shallow tarns, such as Tapto Lakes. Water falls plummet from glaciers and snowpack. Pockets of woodland are stunted with predominantly mountain hemlock. Alaska yellow cedar and silver fir pick up at forest edges. Wet seeps are fringed with Lewis's monkey flower and other conspicuous wildflowers. Meadows are short in stature with low species diversity. Low-growing shrubs with berries cover large areas of high slopes. Bears are commonly seen foraging in late summer and early fall. The windswept pass is imbued with a microclimate of plentiful precipitation and cool temperatures.

#### **Aerial Overview**



#### **UNIT MAP**



#### VISUAL QUALITY/SCENIC ATTRACTIVENESS

	Rating	Explanation or Rationale  Mountain pass that features alpine lakes, granite and rock outcroppings as well as screefields.						
Landform	5							
Vegetation	5	Landscape includes a great diversity of trees species with slight plant variety in the meadows. Blueberries are present at certain times of the year in this area.						
Water	5	Beautiful alpine lakes and waterfalls reside in this unit and add dramatic visual character to the scenery.						
Color	5	A beautiful mixture of greens, yellows, reds, blues, and browns play off each other simply to create a visually interesting landscape mosaic.						
Adjacent Scenery	5	Glacier fields, mountain slopes with talus chutes or waterfalls, and/or old growth for patches all join to create a stimulating and breathtaking scene surrounding the unit.						
Scarcity	5	This is a visually significant and unique unit that is locally and regionally valued for its amazing landscape character.						
Cultural Modification	0	No presence of human use activities or structures that add or detract visual interest.						
Total	30	RATING = A+						

Visual Inventory Form

Zone: 3 - North Cascades Unit # C14 Whatcom Pass

Date: 08/28/15 Jurisdiction (s): National Park Service

#### LOCATION MAP



#### VISIBILITY

Viewsheds/ Screening/ Distance Zone	Foreground includes old growth groves, scree fields, and glacier chutes. Middleground includes glaciers, waterfalls, and scattered tree groups. Background includes aged mountain tops.
Sensitivity/ Concern Level	Very High concern because of national park designation and high recreational use.

#### **SCENIC INTEGRITY**

Level of Naturalness	Very High
Wholeness	Very High





Viewpoint - Panorama #01



Viewpoint #02



Viewpoint #03





#### **SCENIC CHARACTER**

The Skagit River Valley unit is composed of floodplains and terraces. Western red cedar forest, western hemlock forest, and both riverine and wetland habitat were common before the 19th century. Subsequently, many of the wetlands were drained. Pastures, cropland, forests, and urban centers now dominate the landscape. In sections, a re-purposed rail line is the trail platform. The trail corridor stitches together riparian area, patchwork of agriculture, residential and industrial development. The urban fabric of Sedro-Wooley and Burlington are brought into the fold. These cheerful communities provide lodging, fare, and, leisure for weary travelers. Views are often screened by vegetation and other land cover. The iconic Mt Baker is looms over the area.

#### **Aerial Overview**



#### **UNIT MAP**



#### VISUAL QUALITY/SCENIC ATTRACTIVENESS

	Rating	Explanation or Rationale						
Landform	I	Fragmented landscape, flat valley bottom.						
Vegetation	3	Crops, cottonwoods line irrigation ditches.						
Water	2	Irrigation ditches.						
Color	3	Fall color, green agricultural land.						
Adjacent Scenery	2	Hillsides of conifers.						
Scarcity	1	Typical rural landscape.						
Cultural Modification	2	Rail-to-trails and small towns of Hamilton, Lyman, Sedro-Wooley, and Burlington add to the uniqueness of the area, but portions of the built environment detract as well.						
Total	14	RATING = B-						

Visual Inventory Form

Zone: 2 - Puget Sound Unit # D1a Skagit River Valley

Date: 08/27/15 Jurisdiction (s): Private

#### **LOCATION MAP**



#### **VISIBILITY**

Viewsheds/ Screening/ Distance Zone	Views are limited by screening of adjacent vegetation and built structures, but do open up in a few areas.					
Sensitivity/ Concern Level	High concern because the the high use and population densitiy.					

#### **SCENIC INTEGRITY**

	Level of Naturalness	Low levels of naturalness.
The same of the sa	Wholeness	Fragmented landscape, low.





#### Viewpoint #0 I



Viewpoint #03



Viewpoint #02



Viewpoint #04





#### **SCENIC CHARACTER**

The Pacific Coast unit is the abrupt transition of mixed coniferous forest to coast. Forest is predominantly shore pine and Sitka spruce. Marsh occupies estuary areas. Grass and other pioneers stabilize beach terraces. Headlands make travel dangerous, and tides dictate opportunities. Beach is diverse with a range of substrates, including sand and basalt cobble. Pounding surf is an incessant and visceral force. Tide pools teem with colorful sea creatures. Ocean is dynamic and in perpetual motion. Sea stacks, vertical towers of rock, protrude from ocean. Salt laden wind and precipitation are common. Life is abundant and revolves around the rhythms of tide. Kelp and marine detritus collect in mats that swarm with insects and decomposers. Shore birds flock on tidal flats and cling to sea stacks. Sea otters and other marine mammals comb surf and bask on protected beaches.

Trail traverses the ecotone for prolonged experiences in solitude. Communities of people have long inhabited this productive coast and revere it as sacred ground. National Park Service designation speaks to its modern significance.

#### **Aerial Overview**



#### **UNIT MAP**



#### VISUAL QUALITY/SCENIC ATTRACTIVENESS

	Rating	Explanation or Rationale						
Landform	5	Dramatic views of coastal tidal pools, sea stacks, sand and rock beaches.						
Vegetation	5	Thick rain forest vegetation.: ferns, fungi, coastal conifers, kelp, salt grasses, and mosses.						
Water	5	Pacific Ocean. Rolling waves and moving tides.						
Color	3	Rock outcrops exuding browns against the blue water. Green ferns and colorful I fungi.						
Adjacent Scenery	5	Distant sea stacks and shoreline add to the visual integrity.						
Scarcity	5	Amazing views of the ocean shorline.						
Cultural Modification	5	Native American heritage and cultural features are positive elements. Some built elements take away.						
Total	33	RATING = A+						

Visual Inventory Form

Zone: I - Olympic Peninsula Unit # E8 Pacific Coast

Date: 09/02/15 Jurisdiction (s): National Park

#### **LOCATION MAP**



#### VISIBILITY

Viewsheds/ Screening/ Distance Zone	Views are open along the seashore but as you move inland, vies are limited to the immediate foreground.
Sensitivity/ Concern Level	Very high concern levels along this section of trail because of the high use and portal access to the Cascades National Park.

#### **SCENIC INTEGRITY**

Level of Naturalness	Landscape is natural appearing along the undeveloped coastline, but has very low scenic integrity along developed sections.
	Strong sense of intactness along

Wholeness

Strong sense of intactness along most of the trail except in a few developed portions where there are a loss of continuity.





#### Viewpoint #0 I



Viewpoint #03



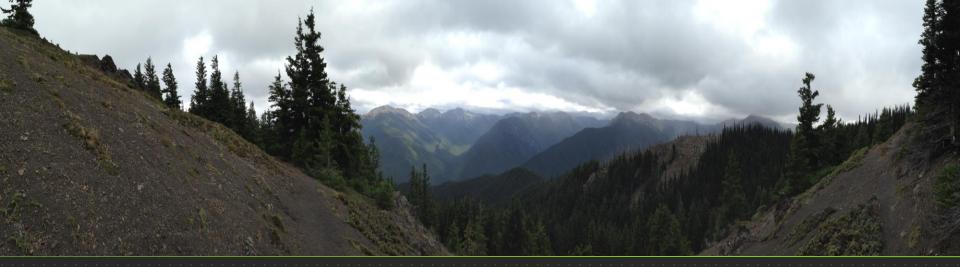
Viewpoint #02



Viewpoint #04



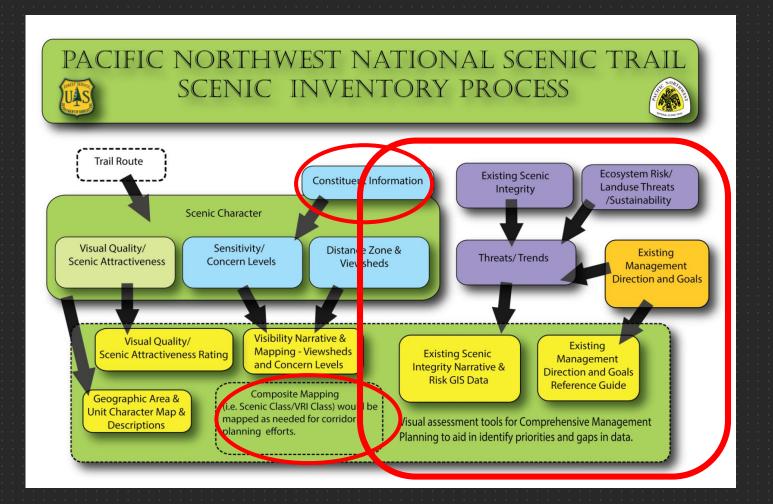






# **NEXT STEPS**

## WHAT'S NEXT?



# Comprehensive Plan

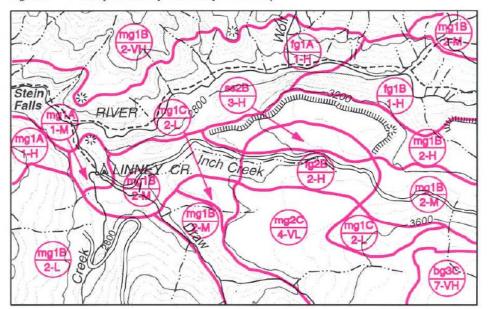
## Scenic Class

## Relative Scenery Importance, 1 to 7 scale

Table 4-2. Scenic Class Matrix

		D	Distance Zones/Seldom-Seen & Concern Levels										
		fg1	mg1	bg1	fg2	mg2	bg2	fg3	mg3	bg3	ss1	ss2	ss3
Scenic	Α	1	1	1	2	2	2	2	3	3	1	2	3
Attractiveness	В	1	2	2	2	3	4	.3	5	5	2	3	5
	С	1	2	3	2	4	5	5	6	7	3	5	7

Figure 4 - 4. Sample Scenery Inventory Final Map



## Based on

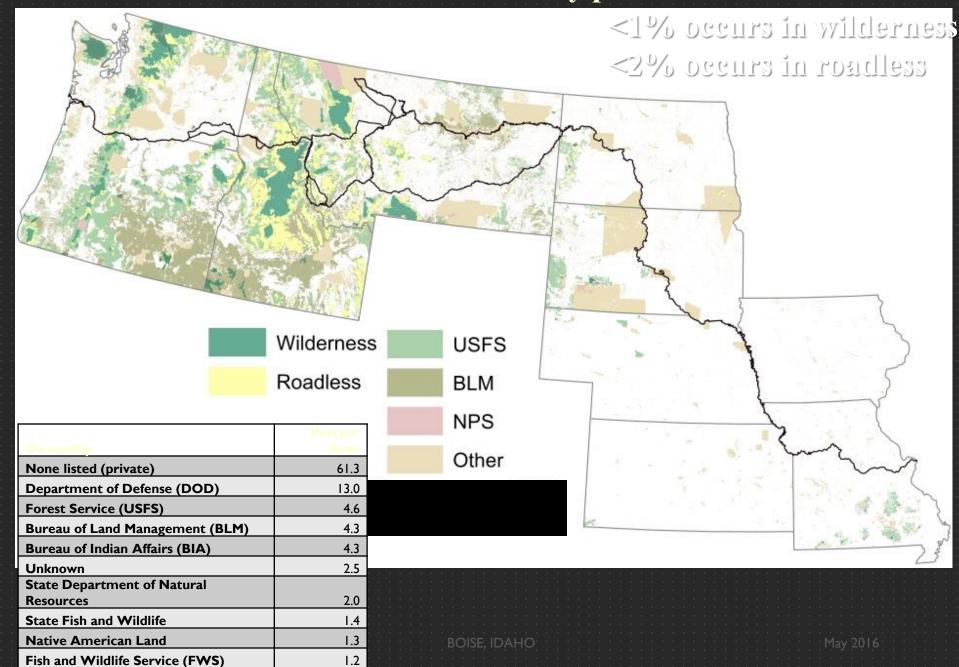
- Attractiveness
- Public Concern Level
- Viewing Distance/Visibility

Scenic Class Map

# Quantification, Synthesis, Analysis

- Scenic Quality (% A/B/C)
- Sensitivity (% H/M/L)
- Existing Scenic Integrity (%VH, H, M, L,VL)
- SCENIC CLASSES~ relative scenic importance (DESIRED FC)
- <u>Land Jurisdiction</u> (% federal/ state/ private/ other)
  - ► Federal: NPS/FS/BLM/FWS etc.
  - ▶ Private: Small/Large/ Corporate
- Level of Protection
  - ▶ Designation- (Wilderness, WSR, or not ...)
  - ► Conservation Easements (agr/scenic...)
  - Other projection (hillside, historic overlay...)

### How much of the Trail occurs on federally protected land?



# COMP. PLAN (ACTION PLAN)

### ▶ Prioritization of Lands for Protection

- Forest Planning
  - ► Geographic Areas & Overlay Mgt. Area & Corridor
- Land Acquisition, Conservation Easements, Voluntary Measures
- MANY APPROACHES...
  - ► ILARIS (Puget Sound TPL Greenprint)
  - Visual Prioritization Process (AZ Trail using)

## Compensatory Mitigation:

Information can help with identifying areas that might be targeted for scenic restoration, enhancement as offset for unavoidable impacts from nearby projects as part of a compensatory mitigation.

# LESSONS LEARNED



- Benefits of Hybrid System
- Importance of Actual FIELD BASED Inventory
- Information for Future Route Alternatives
- Tap into Experience of Nomadic 'PERPETUAL HIKERS'



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