



Assessment



Prioritization



Activity (Design/Implementation)



Monitoring



Modification

> What is the Resource Condition?

RIPARIAN MANAGEMENT OBJECTIVES

Pool Frequency

Width 10 20 25 50 75 100 125 150 200

Pools/Mile 96 56 47 26 23 18 14 12 9

Width/Depth Ratio

<10, mean wetted width/mean depth

Water Temperature

64° F - Migration & Rearing

60° F - Spawning

Large Woody Debris

>80 pieces/mile; >24" dia.; >35' len. - Coast

>20 pieces/mile; >12" dia.; >35' len. - Eastside

Bank Stability

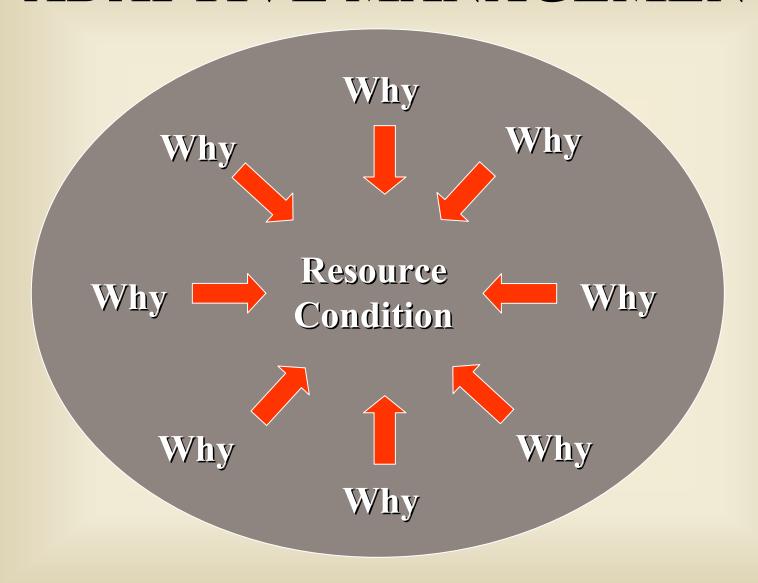
> 80% Stable

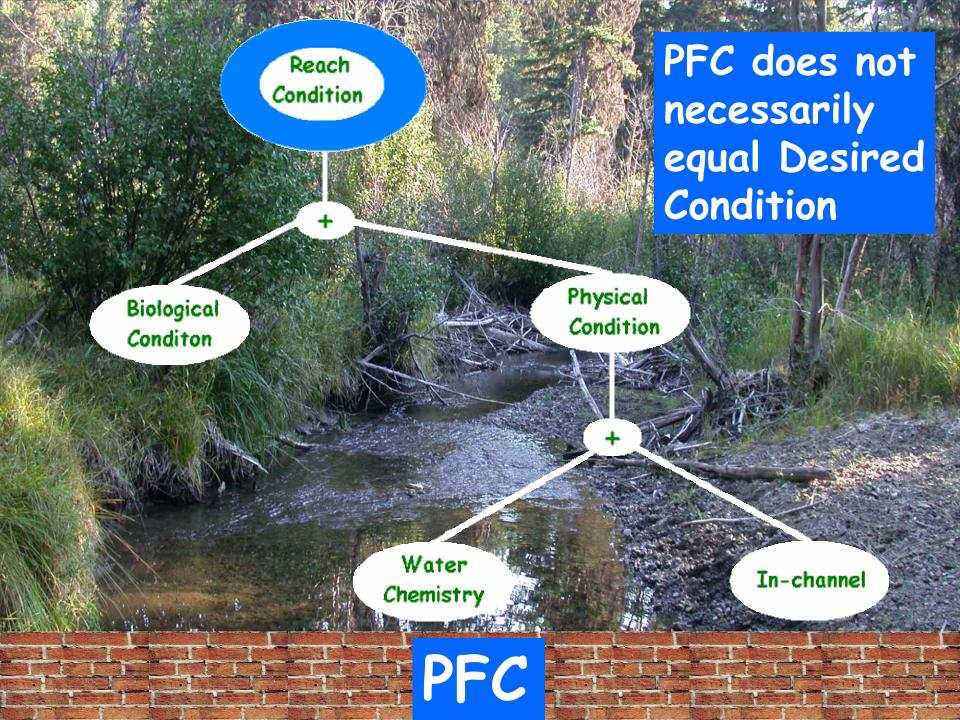
Lower bank Angle

>75% of banks with <90% angle

PFC Helps

- >>> Determine potential and capability
 - >>> Provide linkage between reach/watershed processes and habitat/water quality conditions
 - >> Define issues that need to be addressed
 - >>> Selecting appropriate management practices
 - >> Determine appropriate monitoring





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Water Quality (water temperature)

Width:Depth Ratio

Shading

Topographic

Riparian

Inflow

Bank Storage

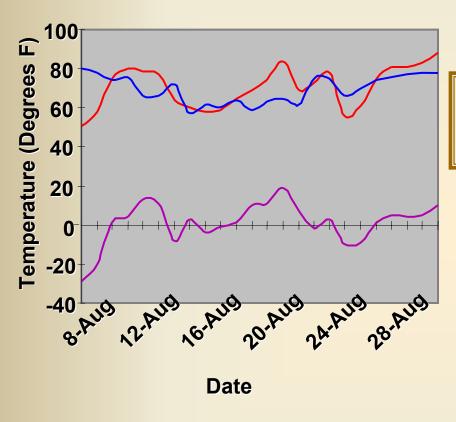
Springs

Sub Surface Flow

In channel

Adjacent slopes

Difference in Air & Water Temperatures



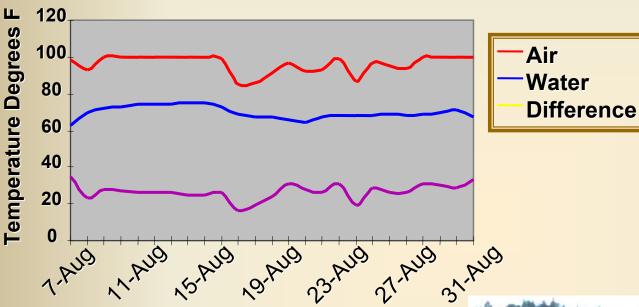
Bear Creek - Central Oregon1977

— Air — Water — Difference



Difference in Air & Water Temperatures

Bear Creek - Central Oregon1998



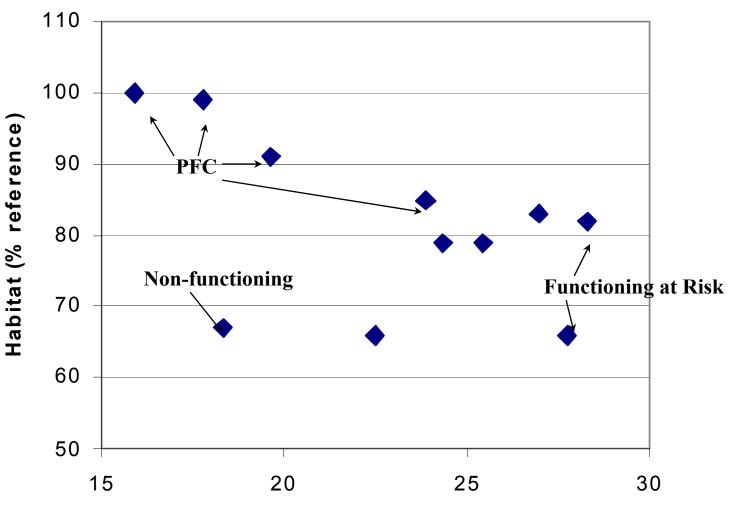
Date



Physical Habitat Structure

- » Depth
- » Velocity
- » Position In Channel
- » Turbulence
- » Shape
- » Cover

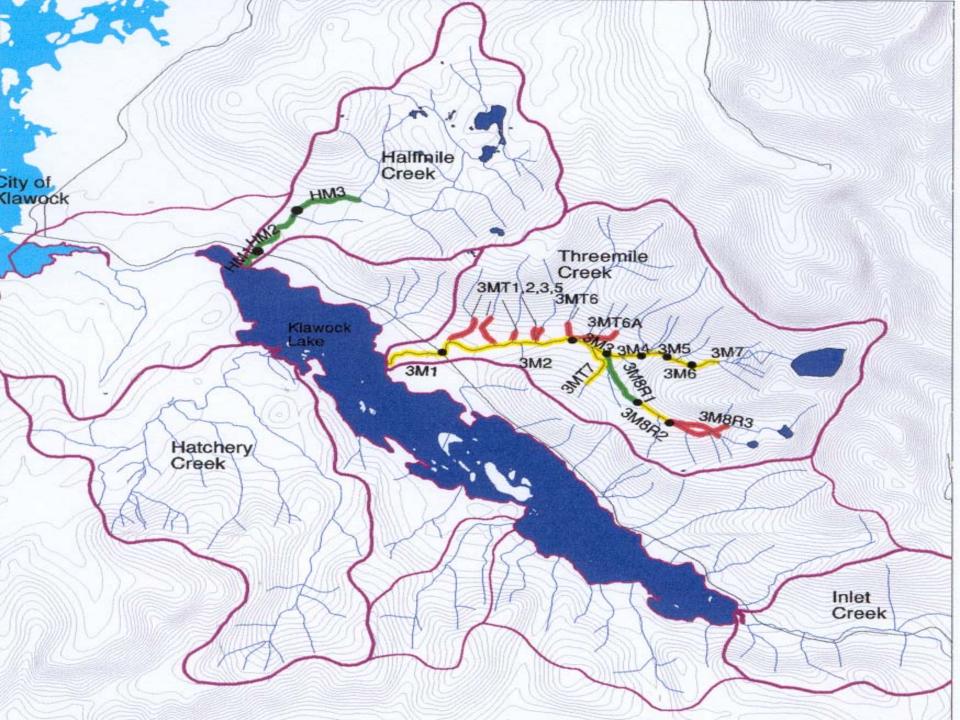
Maxumum Temperature vs. Habitat Condition NMP Sites - 1997



Seasonal Maximun 7 Day Statistic (C)

> Based on need

> Reach, watershed, basin scale



- > Designed to address the "why"
- > Reach, watershed, basin scale

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> Is the Resource Condition Improving?

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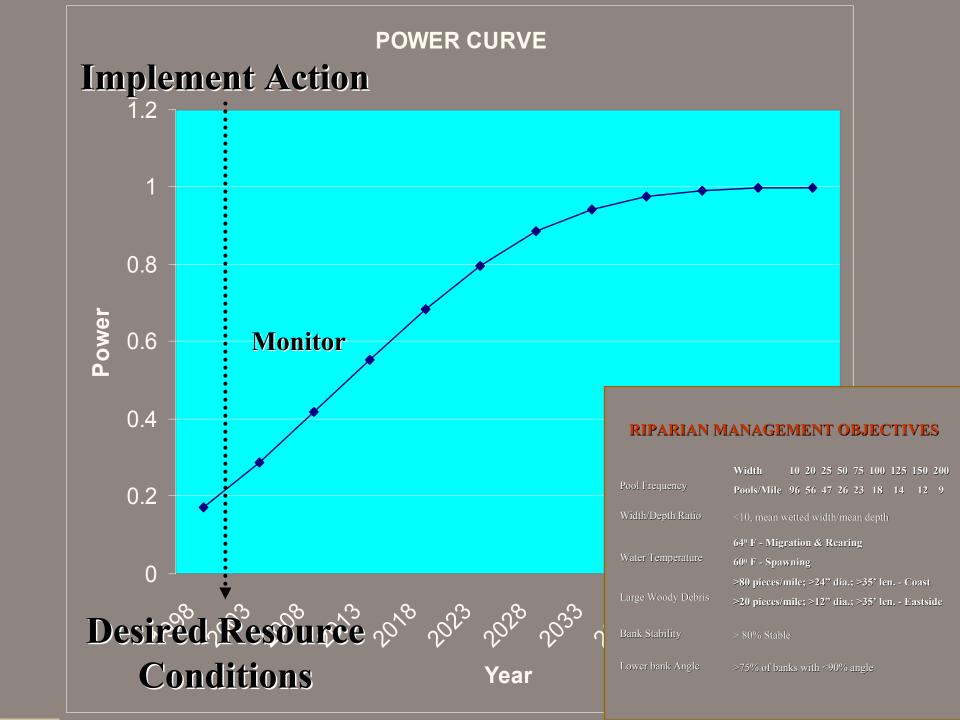
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Bank Stability

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> Is the activity 'fixing" the "why"?

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ANNUAL
INDICATORS OF
RECOVERY

3-5-YEARS INDICATORS OF RECOVERY

5 - 10 YEARS INDICATORS OF RECOVERY

DECADES
INDICATORS OF Decadesing Observed Control of the Control o

5 End-of-season condition e.g. residual vegetation

10

Ve**Jime**ive componente.g. greenline

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ADAPTIVE MANAGEMENT

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ANNUAL
INDICATORS OF
RECOVERY

3 - 5 - YEARS INDICATORS OF RECOVERY

5 - 10 YEARS INDICATORS OF RECOVERY

DECADES INDICATORS OF RECOVERY

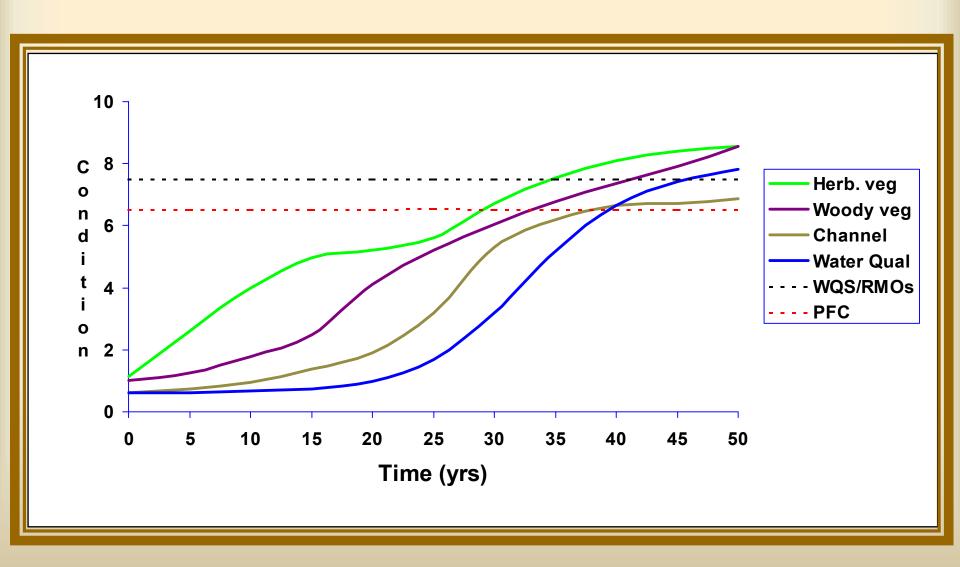
- = End-of-season condition e.g. residual vegetation
- Vegetative component e.g. greenline
- Vegetative componente.g. a. X-section compositionb. Woody recruitment
- = Riparian Management Objectives, e.g., temp, pools

PFC Helps

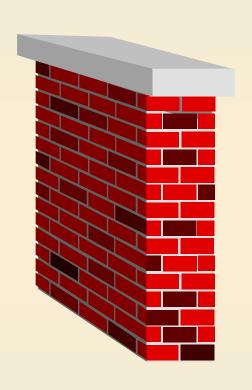
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Recovery Rates

Non-Functional



Current Conditions



Desired Future Conditions

Current Conditions



Desired Future Conditions

Supports PFC does not equal

>>> Desired Future Condition (DFC)

Supports PFC does not replace

>>> Legal Requirements, e.g., ESA, CWA

