

Technical Methods for 2018 Activity Targets

(Day 1 – 845-945)

Phase III/IV Project

Technical Workshop #2

November 1-2, 2005 – San Diego, CA



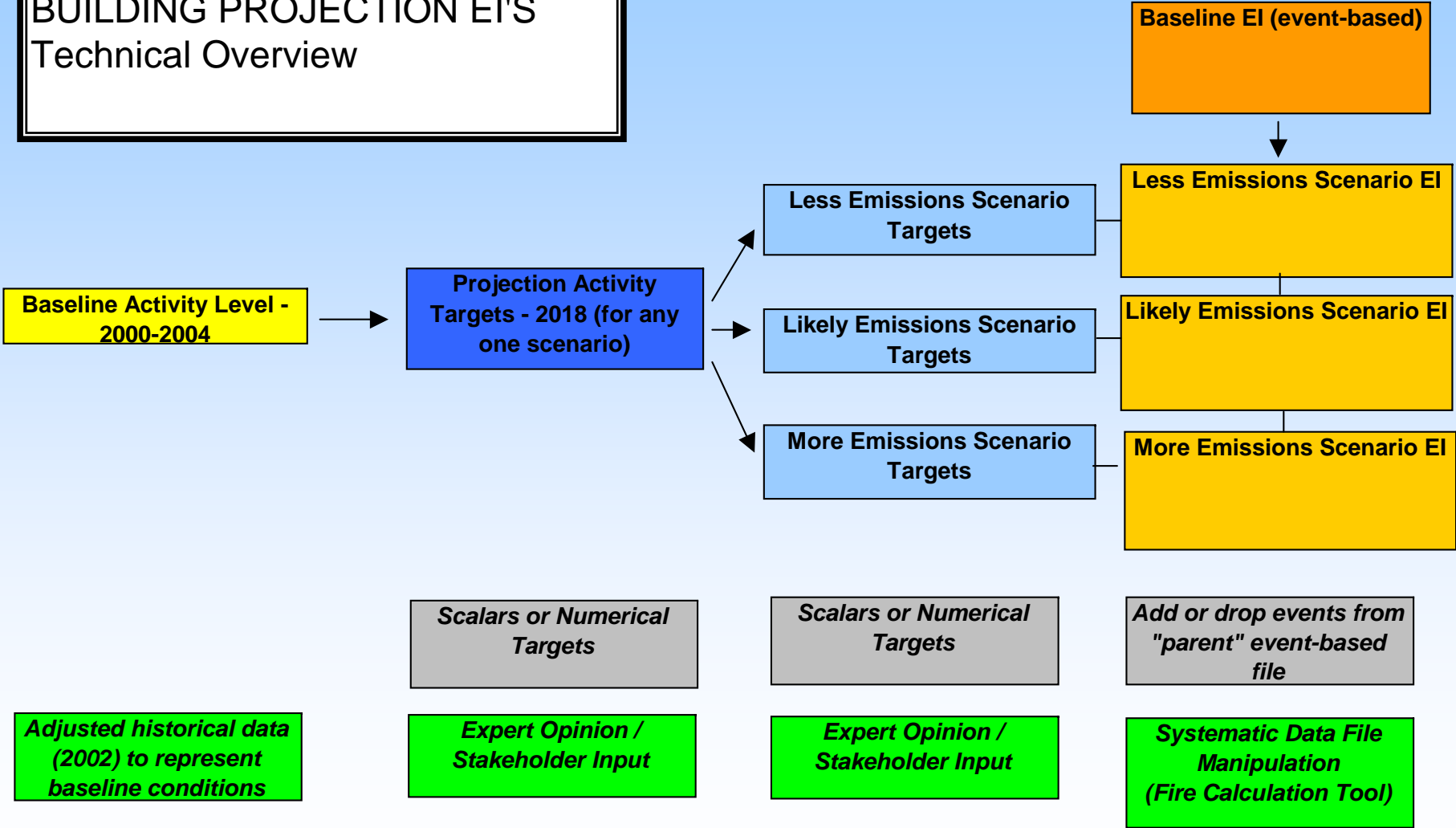
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Desired Outcome

2. Agreement on projection activity levels for all fire types.

BUILDING PROJECTION EI'S Technical Overview



Application of ERTs

More

Prescribed Fire 2018 Projection Scenarios

Less Emissions

Likely Scenario

More Emissions

More Emissions

Events judged to not contrib to vis probs in 308 states
High proportion of maintenance burns in 309 states
Max funding for treatment & ideal conditions for burning
Perfect implementation of treatment objectives

Likely Scenario

Pretty aggressive application of ERTs
Funding for treatment holds steady
Rx burning conditions are favorable in most states

Less Emissions

Most aggressive application of ERT's
(309 states with lots of ANTH; 308 states charged with vis protection)
Drought conditions/funding probs/poor achievement of treatment goals

Less

Less

More

Level of treatment (acres)

Method - Wildfire

- General
 - Baseline = 2018
- Specific
 - Pass through Baseline EI with Projection EI files.
 - **Technical Module**
Determine relationship of WFU projections to Wildfire projections.

Method – Prescribed Fire (Rx)

- General
 - Federal Land Management agencies (Interagency Fuels Committee) provide Rx burning targets
- Specific
 - FLM targets (by agency by state) represent More Emissions scenario
 - Strawman scalars to derive activity levels for Likely and Less Emissions scenarios
 - Pile:broadcast ratio same as baseline

Scaling Rules for Projection Scenarios Prescribed Burning

- Baseline = Average Baseline Period
Activity by State
- More Projection = IFC Projections by State
- Likely Projection = $0.5 \times$ IFC Projections
- Less Projection = $0.25 \times$ IFC Projections

Method – Wildland Fire Use (WFU)

- General
 - Federal Land Management agencies (Interagency Fuels Committee) provide WFU burning targets
- Specific
 - FLM targets (by agency by state) represent More Emissions scenario
 - Strawman scalars to derive activity levels for Likely and Less Emissions scenarios
 - **Technical Module Determine relationship of WFU projections to Wildfire projections.**

Scaling Rules for Projection Scenarios

WFU

- *Baseline = Average Baseline Period Activity by State*
- **More Projection = IFC Projections by State**
- **Likely Projection = 0.5 x IFC Projections**
- **Less Projection = 0.05 x IFC Projections**

Method – Non-Federal Rangeland (NFR)

- General
 - USDA National Resources Conservation Service (NRCS) provides NFR burning targets
- Specific
 - NRCS targets (by state) represent Likely scenario
 - Strawman scalars (provided by NRCS to derive activity levels for Less and More emissions scenarios)

Scaling Rules for Projection Scenarios

Non-Federal Rangeland Burning

- Baseline = WRAP Phase II NF-Rangeland Acres Burned by State
- Likely Projection =
 - California, Montana, Nevada, Oregon, South Dakota, Washington, Wyoming = Baseline
 - Arizona = 1.5 x Baseline
 - New Mexico = 2.0 x Baseline
 - Colorado = 20,000 acres
 - Idaho = 10,000 acres
 - Utah and North Dakota = 35,000 acres
- Less Projection = 0.5 x Likely Projection
- More Projection = 3.0 x Likely Projection

Method – Agricultural Burning

- General
 - Baseline activity levels reduced due to Ag residue burning restrictions to be on the books by 2018
- Specific
 - Legislation-driven levels to represent More Emissions scenario.
 - Strawman scalars to derive Likely and Less emissions scenarios

Scaling Rules for Projection Scenarios

Agricultural Burning

- **Baseline** inventory is identical to Phase II, except
- Ag burning for Nevada is currently being gap-filled (Zero acres in Phase II being filled to 1,000 – 2,000 acres burned for Baseline)
- **Projection Scenarios** are under development
- Initial statute and rule search for *quantitative* Ag burning limits is underway
- Will require additional expert estimates (non-codified) of burning limits for 2018

Discussion/Revisions to Methods

- Revisions
- Justification