Economic Effects

OWYHEE PROJECT

IRRIGATION DISTRICT	ACRES AFFECTED
South Board of Control	28,000 +/-
Old Owyhee DID	14,000 +/-
Owyhee Irrigation District	52,433.8 use 52,434
Total Acres Affected	94,434 acres

Estimated **67% loss in available irrigation water to the user for 2014 and 2015.**

** Estimated that **25%** of lands will remain fallow in 2015.**

Based on discussions with both County Extension Agents for Owyhee County, Idaho and Malheur County, Oregon the majority of the crops grown in their counties are feed crops. Although high value crops such as; mint, onions, sugar beets, beans, and seed crops are grown in the drought effected locations, they are seeing that the growers are moving the locations in which they are planting these high value crops and are following the water, so to speak.

Information provided by Scott Jensen University of Idaho Owyhee County Extension Agent, located in Marsing, Idaho.

- Using a 40/40/20 split on the crop of Alfalfa/Hay, Corn, Small Grains
- Estimated that these crops would see a 40% reduction in yields based on the estimated irrigation water available for 2015.
- Crop average yields and gross values
    - 2014 Value/ Hay - $200 ton with avg. yields of 6 tons/acre. Using a gross of $1050/acre for an avg. (to allow for rain damage or quality differences)
    - 2014 Value/Corn - Silage Corn -$38/ton with avg. yields of 27 tons/acre. Grain Corn - $5.88/bushel with an avg. yield of 185 bushels/acre. Using a gross of $1050/acre for an avg.
    - 2014 Value/Small Grains (wheat or triticale hay) - $160/ton with avg. yields of 4 tons/acre. Using a gross of $640/acre for an avg.

Estimated Losses

Acres Affected = 94,434 ac

25% of Acres that will remain fallow = 23,609 ac

Fallow Acres Losses(Based on 40/40/20 split)

Small Grains – 20% (4722 ac)

4722 acres ($640/ac) = $3,022,080

Hay – 40% (9444 ac)

9444 acres ($1050/ac) = $9,915,780

Corn – 40% (9443 ac)

9443 acres($1050/ac) = $9,915,150

Total Losses on Fallow Acres = $22,853,010

Irrigated Acres Losses (Based on 40/40/20 split)

75% of the acres expected to receive 1.3 AF/ac instead of 4 AF/ac resulting in and estimated production losses of 40%.

Small Grains – 20% (14,165 ac)

14,165 acres ($640/ac) = $9,065,600

Hay – 40% (28,330 ac)

28,330 acres ($1050/ac) = $29,745,500

Corn – 40% (28,330 ac)

28,330 acres($1050/ac) = $29,745,500

$68,556,600(40% yield losses)=$27,422,640

Total Losses under the Owyhee Project = $50,275,650

VALE PROJECT

IRRIGATION DISTRICT	**ACRES AFFECTED**
Vale Oregon Irrigation District	35,000 +/-
Warmsprings Irrigation District	19,949.5
Total Acres Affected	54,949.5 acres use 54,950 ac

Estimated **67% loss in available irrigation water to the user for 2014 and 2015.**

** Estimated that **25%** of lands will remain fallow in 2015.**

Based on discussions with both County Extension Agents for Owyhee County, Idaho and Malheur County, Oregon the majority of the crops grown in their counties are feed crops. Although high value crops such as; mint, onions, sugar beets, beans, and seed crops are grown in the drought effected locations, they are seeing that the growers are moving the locations in which they are planting these high value crops and are following the water, so to speak.

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    - 2014 Value/Small Grains (wheat or triticale hay) - $160/ton with avg. yields of 4 tons/acre. Using a gross of $640/acre for an avg.

Estimated Losses

Acres Affected = 54,950 ac

25% of Acres that will remain fallow = 13,737.5 ac

Fallow Acres Losses(Based on 40/40/20 split)

Small Grains – 20% (2747.5 ac)

2747.5 acres ($640/ac) = $1,758,400

Hay – 40% (5495 ac)

5495 acres ($1050/ac) = $5,769,750

Corn – 40% (5495 ac)

5495 acres($1050/ac) = $5,769,750

Total Losses on Fallow Acres = $13,297,900

Irrigated Acres Losses (Based on 40/40/20 split)

75% of the acres expected to receive 1.3 AF/ac instead of 4 AF/ac resulting in and estimated production losses of 40%.

Small Grains – 20% (8,242.5 ac)

8,242.5 acres ($640/ac) = $5,275,200

Hay – 40% (32,970 ac)

32,970 acres ($1050/ac) = $34,618,500

Corn – 40% (28,330 ac)

32,970 acres($1050/ac) = $34,618,500

$75,512,200(40% yield losses)=$29,804,880

Total Estimated Losses under the Vale Project = $43,102,780

Total Estimated Losses for the Owyhee and Vale Projects = $93,378,430