



# ECONOMICS of conservation



## MCKENZIE PIPELINE PROJECT

NRCS leveraged PL-566 funds in partnership with the Three Sisters Irrigation District (TSID) and the Deschutes and Jefferson County Soil and Water Conservation Districts to plan, design and support implementation of the McKenzie Pipeline Project. Environmental benefits include the following:



### WATER CONSERVATION



increase in on-farm delivery when water availability is short due to the elimination of existing canal seepage and evaporation.



Irrigation infrastructure improvements allowed producers to sustain irrigation delivery throughout the season even during years of consecutive, prolonged drought.



# 193

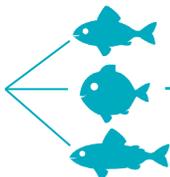
farms will be metered resulting in improved water in conveyance and delivery systems.

### FISH CONSERVATION THREATENED & ENDANGERED SPECIES

# 35

cfs

of protected flow in **WHYCUS CREEK** will benefit Redband, Bull Trout, Chinook and Steelhead.



Proactive infrastructure improvements augmented in-stream flows to support threatened and endangered fish species, while also helping farmers and ranchers sustain agricultural enterprises.

Installation of a state-of-the-art Farmer's Conservation Fish Screen.

### ENERGY CONSERVATION



conserved / yr



Once complete, three Hydro facilities will generate

# 4 million kWh

of clean, green, renewable energy annually.

By

# 2020

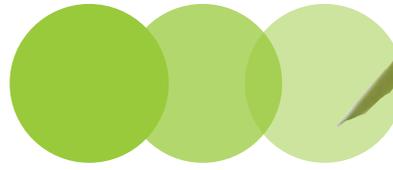
TSID will be carbon neutral.



# BREAKDOWN

## Economic impacts of NRCS Oregon Investments

Source: Impact Analysis for Planning (IMPLAN) model



NRCS PROGRAM	FEDERAL COST	DIRECT DESCHUTES COUNTY IMPACTS	TOTAL OUTPUT	TOTAL VALUE ADDED	DIRECT JOBS PER YEAR	JOBS PER \$1M OF FEDERAL COST	FEDERAL COST TO VALUE ADDED MULTIPLIER	FEDERAL COST TO OUTPUT MULTIPLIER
PL-566	\$979,700	\$577,544	\$1,047,299	\$773,309	11.7	11.94	0.79	1.07

### HOW ARE ECONOMIC IMPACTS CALCULATED?

NRCS economists used the Impact Analysis for Planning (IMPLAN) model to calculate economic impacts of this project. This is a sophisticated, input-output model widely used by economists that traces the linkages among economics sectors in a study area through the purchase or sale of goods and services.

### WHAT DO JOB ESTIMATES MEAN?

Job estimates reported here include both new jobs (if the job did not exist before and unemployed labor is hired) and sustained jobs (if currently

employed labor is hired or retained with the expenditure). Job estimates represent a mix of full-time temporary and part-time jobs. Each job represented one employee per year as a full-time equivalent (FTE) expenditure.

### APPLICABILITY

The economic impacts reported here only apply to expenditures through NRCS conservation programs. This analysis does not include economic impacts of partner investments or private landowner expenditures.

## DESCHUTES County, OR

### Quick Facts



- 181,307** Population
- \$51,223** Median Household Income
- 131,036** Acres of Land in Farms
- 33,979** Acres of Irrigated Land
- 28,916** Acres of Total Cropland
- 102** Acres Total Farm Size

## PARTNER

### Contributions

The following amounts were provided by partnering organizations/agencies for the McKenzie Canyon Project.

PHASES	PARTNER FUNDS
PHASES 1-3	\$1,971,300
PHASES 4-5	\$1,516,508
<b>TOTALS</b>	<b>\$3,487,808</b>