June 14, 1939

Mr. E. G. Nielson
Associate Engineer
Bureau of Reclamation
339 Federal Building
Salt Lake City, Utah

Dear Mr. Nielson:

In answer to your recent letter requesting information on the benefits derived from supplemental water through the Gooseberry Project, the following is submitted for your consideration:

According to information taken from the supervision of farms in 1938 under the Agricultural Conservation Program the following table indicates the percentage of land in the various crops. This land percentage has been used as a basis of figuring gross income per acre using yields which are being obtained in the area and figuring income on the basis of average prices received for these crops.

PRESENT SETUP ON PROJECT LANDS

| CROPS | ACRES | YIELD PER ACRES | TOTAL PRODUCTION | AVERAGE PRICE | GROSS RETURN |
|---|---|---|---|---|---|
| Potatoes | 1 Ac. | 100 bu. | 100 bu. | 60¢ | $ 60.00 |
| Beets | 9 Ac. | 9 Ton | 81 Ton | $5.50 | 445.50 |
| Barley | 12 Ac. | 40 bu. | 480 bu. | .48 | 230.40 |
| Oats | 6 Ac. | 40 bu. | 240 bu. | .32 | 76.80 |
| Wheat | 12 Ac. | 25 bu. | 300 bu. | .70 | 210.00 |
| Peas | 2 Ac. | 1¼ Tons. | 2½ Ton. | $50.00 | 125.00 |
| Alfalfa | 58 Ac. | 2 Tons. | 116 Tons. | 8.00 | 928.00 |
| Alfalfa-Pasture | | | 58 | .50 | 29.00 |
| | 100 Acres | | | TOTAL GROSS INCOME | $2104.70 |
| | | | | AVERAGE GROSS INCOME PER ACRE | 21.04 |

If an additional supplemental supply of water were available as would be provided by Gooseberry Project to the extent of an average of one acre foot per acre on project lands, some crop shifts would occur along with an increased yield per acre of crops.

These extra increased yields would accrue not only because of an additional water supply, but also because of better crop rotation systems than are now permitted with our limited water supply after July 1.

The following table indicates the estimated crop shifts that would be made and resulting yields with an additional acre foot of supplemental water per acre:

CROPING SETUP ON PROJECT LANDS WITH ONE ACRE FOOT OF SUPPLEMENTAL WATER

| CROPS | ACRES | YIELD | PRODUCTION | PRICE | GROSS RETURNS | EXTRA EXPENSE | NET DIFFERENCE |
|---|---|---|---|---|---|---|---|
| Potatoes | 9.4 Ac. | 250 bu. | 2350 | $ .45 | $1057.50 - | $198.60 | $ 858.90 |
| Beets | 21.1 | 15 T. | 316.5 | 5.50 | 1740.75 - | 474.65 | 1266.10 |
| Barley | 14.3 | 60 bu. | 858.0 | .48 | 411.84 - | 35.54 | 376.30 |
| Oats | 4.7 | 60 bu. | 282 | .32 | 90.24 + | 1.61 | 91.85 |
| Wheat | 9.4 | 40 bu. | 376 | .70 | 263.20 + | 5.08 | 268.28 |
| Peas | 4.7 | 1.75 T. | 8.22 T. | 50.00 | 411.00 - | 75.60 | 335.40 |
| Alfalfa | 35.3 | 4 T. | 141.2 | 8.00 | 1129.60 - | 31.50 | 1098.10 |
| Truck Crop | 1.1 | | 100.0 | | 110.00 - | 44.00 | 66.00 |
| Alfalfa-Pasture | | | 35.2 | 2.00 | 70.40 + | .00 | 70.40 |
| | 100 Acres | | | | | | |
| | | | TOTAL GROSS INCOME | | $5285.53 | $853.20 | $4431.33 |

GROSS INCOME PER ACRE $52.85

TOTAL EXTRA EXPENSE DUE TO CHANGED CROPING SETUP $853.20

INCREASED EXPENSE PER ACRE $8.53

TOTAL GROSS INCOME LESS EXTRA EXPENSES $4431.33

AVERAGE GROSS INCOME LESS EXTRA EXPENSE PER ACRE $44.31

In addition to the benefits derived from the application of water to the land itself, it is estimated that there will be an increased carrying capacity of the pasture land adjoining the Sanpitch River of approximately 35%. This would be made possible because of sub-irrigation from lands above it.

It is realized that some extra expenses will be necessary in the proposed crop shifts, and the following table indicates the extimated amount of extra expenses necessary for the production and harvest of the crops under the proposed setup: These extra expenses have been determined only on the increased acreage and/or production from the present setup.

## EXTRA EXPENSES

| | | |
|---|---|---|
| Potatoes - $12 seed x 8.4 | - | $100.80 |
| Harvesting 2300 x 3.6¢ | - | 82.80 |
| Equipment expense | - | 15.00 |
| | | $198.60 |

| | | |
|---|---|---|
| Barley: | | |
| Seed 2.3 Ac. @ $1.95 | - | $ 4.48 |
| Thrashing 378 x 7 | | 26.46 |
| Binding 2.3 x 2.00 | | 4.60 |
| | | $35.54 |

| | | |
|---|---|---|
| Beets: | | |
| Thining - 12.1 x 7.50 | - | 90.75 |
| Seed - 12.1 x 4.00 | - | 48.40 |
| Topping - 235.5 x .70 | - | 164.85 |
| Hauling - 235.5 x .30 | - | 70.65 |
| | | $474.65 |

| | |
|---|---|
| Oats: | |
| 1.3 Ac. less seed @ 1.50 | - 1.95 |
| 1.3 Ac. less binding 2.00 | - 2.60 |
| 42 bu. more oats thrashing @ 7¢ | 4.55 - 2.94 |
| Saving | $1.61 |

| | |
|---|---|
| Wheat: | |
| 26 Ac. less seed @ 2.00 | - - - - 5.20 |
| 26 Ac. less binding @ 2.00 | - - 5.20 |
| | 10.40 |
| 76 bu. more wheat thrashing 7¢ | - - - - 5.32 |
| Saving | 5.08 |

| | |
|---|---|
| Peas: | |
| Seed 2.7 Ac. x $16.00 | - - - 43.20 |
| Harvesting 2.7 x $12.00 | - - 32.40 |
| | $75.60 |

Alfalfa:
Harvesting
25.2 Ton x 1.25 - - $31.50

Truck Crops:
Plants 1.1 Ac. x $40.00 - $44.00
&
Harvesting

The additional benefits that would accrue to adjacent lands under the project would be the return flow of water applied on project lands into the Sanpitch River. This amount is difficult to determine.

At the present time farmers in the Moroni district pay $15.00 an acre foot for supplementary water for late summer use. Fountain Green farmers are paying from $3.00 to $6.00 an acre for supplementary water, and the pumps operating west of Ephraim are costing $6.00 per acre foot for water delivery. No estimates are being placed in this report as to the maximum amount farmers can pay for supplementary water.

The increased income shown on the two tables above indicate a net increased income per acre of $23.15. Furthermore, in dry years this increased water supply would actually mean the difference between a satisfactory crop yield and a crop failure.

We, therefore, solicit your approval of the Gooseberry Project.

Respectfully submitted,

Elmer H. Gibson

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|---|---|---|---|
| (Signed) | Elmer H. Gibson | Co. Agr. Agent | Manti, Utah |
| (Signed) | John L. Bench | Fairview | Utah |
| | Elmo L. Irons | Moroni | Ut. |
| | John L. Bench | Fairview | Utah |
| | Alex S. B. Rigby | Ephraim | Utah |
| | Lyman Seeley | Fountain Green | Ut |
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