

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: A63-00172B

Date Received: 2/16/1990

Receipt No: W005934

Received By: TCH

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: HAAS DITCH COMPANY
Address: C/O RAYMOND ABBOTT
PARMA, ID

208-722-5785

83660

2. Date of Priority: JUN 01, 1868

3. Source: BOISE RIVER

Trib. to: SNAKE RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4 of	Lot	County
05N	05W	27	NE	NW			CANYON

5. Description of diverting works:
HEADGATES, DITCHES, GRAVITY FLOWS

6. Water is used for the following purposes:

Purpose	From	To	C.F.S.	(or)	A.F.A.
IRRIGATION	03/15	11/15	8.540		

7. Total Quantity Appropriated is:
8.540 C.F.S. (and/or)

A.F.A.

8. Total consumptive use is

Acre Feet Per Annum.

9. Non-irrigation uses:
NONE

10. Place of Use:

Township	Range	Section	1/4 of	1/4 of	Lot	Use	Acres
05N	05W	16	NW	SW		IRR	2.0
			SW	SW		IRR	33.0
Section Acres							35.0

A63-00172B

Page 1

Date: 02/16/90

MICROFILMED

AUG 17 1992

10. Place of Use: Continued

Township	Range	Section	1/4	of	1/4	Lot	Use	Acres
05N	05W	17	SW		NE		IRR	7.0
			SE		NW		IRR	25.0
			NE		SW		IRR	8.0
			NE		SE		IRR	13.0
			NW		SE		IRR	25.0
			SW		SE		IRR	37.0
			SE		SE		IRR	40.0
			Section Acres					155.0
		20	NE		NE		IRR	23.0
			NW		NE		IRR	15.0
			Section Acres					38.0
		21	NE		NE		IRR	38.0
			NW		NE		IRR	40.0
			SW		NE		IRR	38.0
			SE		NE		IRR	32.0
			NE		NW		IRR	39.0
			NW		NW		IRR	28.0
			SE		NW		IRR	27.0
			NE		SE		IRR	38.0
			NW		SE		IRR	13.0
			SE		SE		IRR	3.0
			Section Acres					296.0
		22	NW		NW		IRR	38.0
			SW		NW		IRR	33.0
			NW		SW		IRR	29.0
			SW		SW		IRR	8.0
			Section Acres					108.0
			Total Acres					632.0

11. Place of use in counties: CANYON

12. Do you own the property listed above as place of use? NO

13. Other Water Rights Used:
A63-00202B

14. Remarks:

THIS RIGHT WAS SPLIT BY MALLARD FARMS AND HAAS DITCH CO.
A63-00172B Page 2 Date: 02/16/90

MICROFILMED

AUG 17 1992

14. Remarks: Continued

241 ACRES OF THIS CLAIM HAVE BEEN PAID BY MALLARD FARMS,
HOWEVER HAAS DITCH CO. BELIEVE THEY ARE THE OWNER OF THIS
WATER RIGHT, THE EXACT OWNER WILL HAVE TO BE DETERMINED LATER.

15. Basis of Claim: DECREED

Case Number:

Court :

Decree date:

FARMERS CO-OP DITCH CO.

Decree Plaintiff

vs

RIVERSIDE IRR. DIST.

Decree Defendant

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not + wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: _____

For Organizations:

I do solemnly swear or affirm that I am Secretary of _____ Title

Haas Ditch Company Organization, that I have signed the foregoing document in the space below as Secretary Title of

Haas Ditch Company Organization and that the statements contained in the foregoing document are true and correct.

Raymond Abbott
Signature of Authorized Agent

Secretary Haas Ditch Company
Title and Organization

February 16, 1990
Date

State of Idaho)
County of ADA) ss.

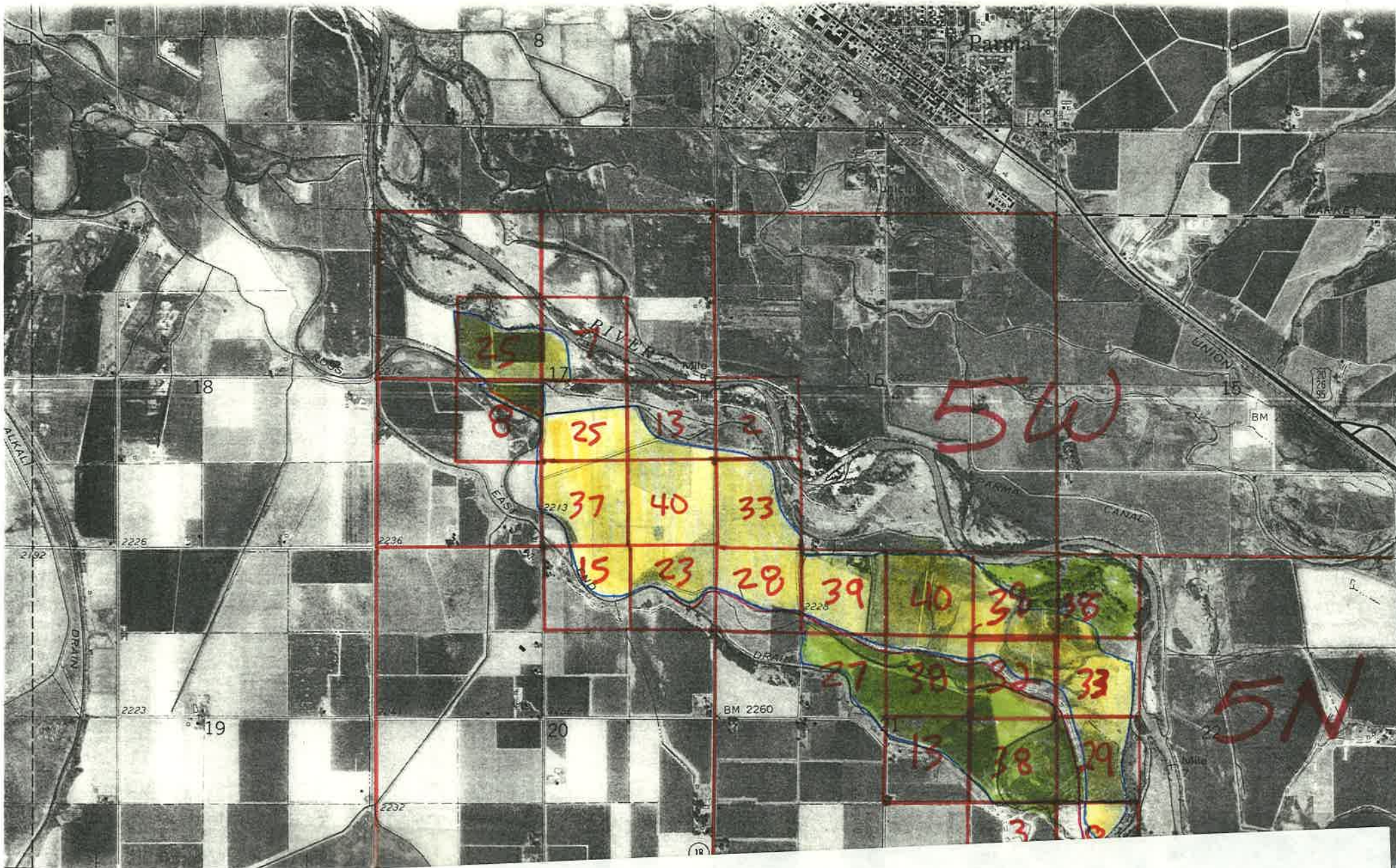
Subscribed and sworn (or affirmed) before me this 16th day
of Feb 19 90

Ron Howerton
Notary Public

Seal

Residing at Ron Howerton

My Commission Expires Residing at Boise, Idaho
My Commission Expires December 8, 1994



W R 5 W 501
 e Geological Survey
 epared from 1:80,000-scale aerial
 July 30, 1981
 ordinate system, west zone
 or)
 ased on Idaho coordinate system,
 egon coordinate system, south zone
 ial Transverse Mercator grid, zone 11

MICROFILMED
AUG 17 1992

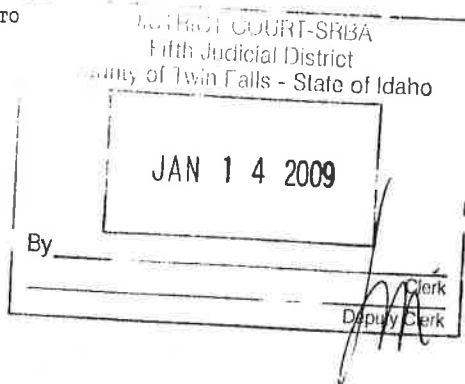
IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA

Case No. 39576

PARTIAL DECREE PURSUANT TO
I.R.C.P. 54(b) FOR

Water Right 63-00172B



NAME AND ADDRESS:

HAAS DITCH CO
C/O A HUMPHRIES OR J WALLER
PIZZA HUT OF IDAHO INC
504 N PHILLIPPI
BOISE, ID 83706

SOURCE:

BOISE RIVER TRIBUTARY: SNAKE RIVER

QUANTITY:

8.54 CFS

Whenever it becomes necessary for the watermaster to deliver this right the following condition shall apply. This right shall receive 100 percent of its decreed quantity until the natural flow of the waters of the Boise River shall decrease so that all rights containing this condition cannot receive 100 percent of their decreed quantities, at which time this right and the other rights containing this condition shall first be cut to 75 percent of their decreed quantities, as the natural flow of the river decreases, beginning with the latest rights containing this condition and proceeding to the earliest rights containing this condition in the order of their priority dates, and after all of the rights containing this condition shall have been reduced to 75 percent of their decreed quantities, should the natural flow of the waters of the river decrease below the amount necessary to supply 75 percent of those decreed quantities, then this right and the other rights containing this condition, beginning with the latest and proceeding to the earliest, shall be reduced to 60 percent of their decreed quantities.

PRIORITY DATE:

06/01/1868

POINT OF DIVERSION:

T05N R05W S27

NENW

Within Canyon County

PURPOSE AND

PERIOD OF USE:

PURPOSE OF USE
Irrigation

PERIOD OF USE
03-01 TO 11-15

QUANTITY
8.54 CFS

Diversion for irrigation under this water right prior to April 1 and after October 31 shall occur only when the natural flow in the Boise River below the Star Bridge in Township 04 North, Range 01 West, Section 18, NE of the SE of the SE, Boise Meridian (approximate river mile 33.9) is sufficient for water to be available for diversion at the point of diversion described above, provided that any such use of this water right prior to April 1 and after October 31 shall be subordinated to water rights for storage in Lucky Peak Reservoir, Lake Lowell, Arrowrock Reservoir, and/or Anderson Ranch Reservoir, as decreed in SRBA Case No. 39576.

PLACE OF USE:

This right when combined with Right No 63-202B can be used to irrigate up to 561 acres within the boundary of the Haas Ditch Company.
The boundary encompassing the place of use for this water right is described with a digital boundary as defined by I.C. Section 42-202B(2) and authorized pursuant to I.C. Section 42-1411(2)(h). The data comprising the digital boundary are

SRBA Partial Decree Pursuant to I.R.C.P. 54(b) (continued)

PLACE OF USE (continued)

incorporated herein by reference and are stored on a CD-ROM disk issued in duplicate originals on file with the SRBA District Court and the Idaho Department of Water Resources. A map depicting the place of use is attached hereto to illustrate the place of use described by the digital boundary.

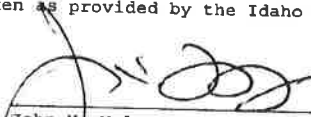
OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This right is designated as No. 39 in the Stewart decree and the Boise Water Distribution Report.

THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE ENTRY OF A FINAL UNIFIED DECREE. I.C. SECTION 42-1412(6).

RULE 54(b) CERTIFICATE

With respect to the issues determined by the above judgment or order, it is hereby CERTIFIED, in accordance with Rule 54(b), I.R.C.P., that the court has determined that there is no just reason for delay of the entry of a final judgment and that the court has and does hereby direct that the above judgment or order shall be a final judgment upon which execution may issue and an appeal may be taken as provided by the Idaho Appellate Rules.


John M. Melanson
Presiding Judge of the
Snake River Basin Adjudication

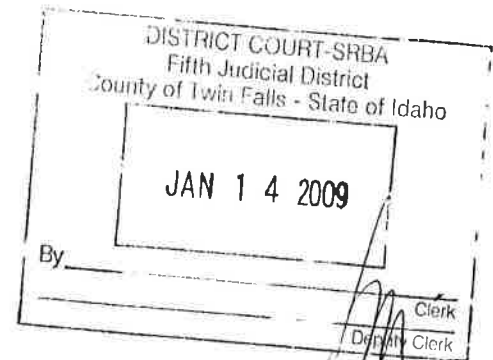
IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA

Case No. 39576

PARTIAL DECREE PURSUANT TO
I.R.C.P. 54(b) FOR

Water Right 63-00202B



NAME AND ADDRESS:

HAAS DITCH CO
C/O A HUMPHRIES OR J WALLER
PIZZA HUT OF IDAHO INC
504 N PHILLIPPI ST
BOISE, ID 83706

SOURCE:

BOISE RIVER TRIBUTARY: SNAKE RIVER

QUANTITY:

8.80 CFS

Whenever it becomes necessary for the watermaster to deliver this right the following condition shall apply. This right shall receive 100 percent of its decreed quantity until the natural flow of the waters of the Boise River shall decrease so that all rights containing this condition cannot receive 100 percent of their decreed quantities, at which time this right and the other rights containing this condition shall first be cut to 75 percent of their decreed quantities, as the natural flow of the river decreases, beginning with the latest rights containing this condition and proceeding to the earliest rights containing this condition in the order of their priority dates, and after all of the rights containing this condition shall have been reduced to 75 percent of their decreed quantities, should the natural flow of the waters of the river decrease below the amount necessary to supply 75 percent of those decreed quantities, then this right and the other rights containing this condition, beginning with the latest and proceeding to the earliest, shall be reduced to 60 percent of their decreed quantities.

PRIORITY DATE:

06/01/1878

POINT OF DIVERSION:

T05N R05W S27

NENW

Within Canyon County

PURPOSE AND

PERIOD OF USE:

PURPOSE OF USE
Irrigation

PERIOD OF USE
03-01 TO 11-15

QUANTITY
8.80 CFS

Diversion for irrigation under this water right prior to April 1 and after October 31 shall occur only when the natural flow in the Boise River below the Star Bridge in Township 04 North, Range 01 West, Section 18, NE of the SE of the SE, Boise Meridian (approximate river mile 33.9) is sufficient for water to be available for diversion at the point of diversion described above, provided that any such use of this water right prior to April 1 and after October 31 shall be subordinated to water rights for storage in Lucky Peak Reservoir, Lake Lowell, Arrowrock Reservoir, and/or Anderson Ranch Reservoir, as decreed in SRBA Case No. 39576.

PLACE OF USE:

The boundary encompassing the place of use for this water right is described with a digital boundary as defined by I.C. Section 42-202B(2) and authorized pursuant to I.C. Section 42-1411(2)(h). The data comprising the digital boundary are incorporated herein by reference and are stored on a CD-ROM disk issued in duplicate originals on file with the SRBA District Court and the Idaho Department of Water Resources. A map

SRBA Partial Decree Pursuant to I.R.C.P. 54(b) (continued)

PLACE OF USE (continued)

depicting the place of use is attached hereto to illustrate the place of use described by the digital boundary. This right when combined with Right No. 63-172B can be used to irrigate up to 561 acres within the boundary of the Haas Ditch Company.

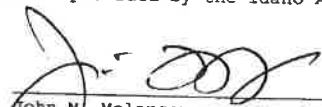
OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This right is designated as No. 70 in the Stewart Decree and the Boise Water Distribution Report.

THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE ENTRY OF A FINAL UNIFIED DECREE. I.C. SECTION 42-1412(6).

RULE 54(b) CERTIFICATE

With respect to the issues determined by the above judgment or order, it is hereby CERTIFIED, in accordance with Rule 54(b), I.R.C.P., that the court has determined that there is no just reason for delay of the entry of a final judgment and that the court has and does hereby direct that the above judgment or order shall be a final judgment upon which execution may issue and an appeal may be taken as provided by the Idaho Appellate Rules.


John M. Melanson
Presiding Judge of the
Snake River Basin Adjudication

Idaho Department of Water Resources

GIS Place of Use Illustration

*Haas Ditch Co.
Right No(s): 63-172B, 63-202B*

Legend

Service Area



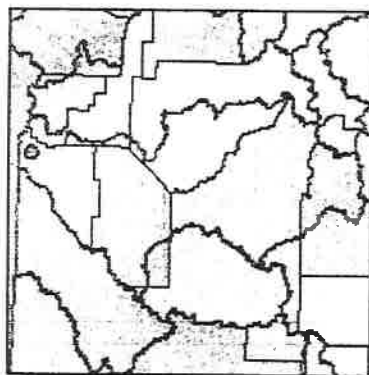
Townships



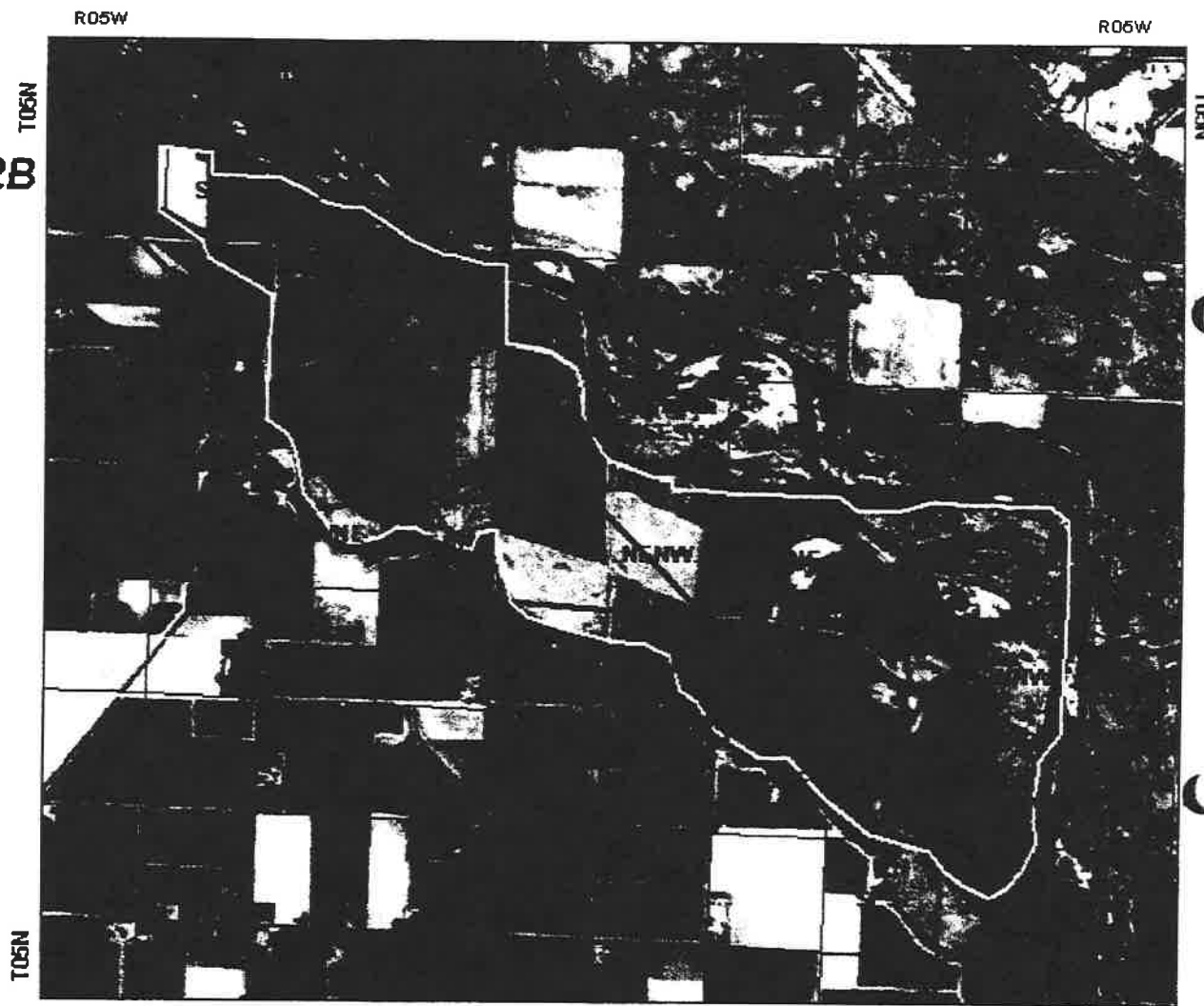
PLS Sections



Quarter Quarters



Canyon County
IDWR Basin 63



0 0.8 1.6 Miles



Prepared by D. Favreau
Date: August 2006
1987/88 Aerial Photography

08/17/2006

NOTICE OF ERROR
REPLY

Please type or print clearly, fill out this form completely and mail.

Return this reply form to IDWR by the deadline date printed below if you want IDWR to change your recommendation or you want to let IDWR know that you agree with its recommendation.

YOUR DEADLINE FOR RETURNING A NOTICE OF ERROR REPLY IS: September 29, 2006

Water right number: 63-172B

HAAS DITCH CO.
G/O RAYMOND ABBOTT
26948 STEPHEN LN
PARMA ID 83660

Telephone Number: (208) 722-5785

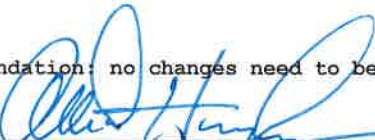
PLEASE SEE ATTACHED
CHANGE OF ADDRESS

1. Describe the portion of the proposed recommendation with which you disagree (e.g. priority date, period of use, source):
2. Describe the changes you wish to make in the proposed recommendation:
3. Give a brief explanation as to why you disagree with these portions:

☒ I AGREE with this proposed recommendation: no changes need to be made.

DATE: 9/28/06

SIGNATURE:



Please print your name: ALLAN D. HUMPHRIES, PRESIDENT

IDWR Regional Office, 322 E Front St
PO Box 83720, Boise, ID 83720-0098, 2082874800

SCANNED
OCT 03 2006

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

MAILED ORIGINAL
TO LORI GRAVES
ON 3-9-2006

CHANGE IN ADDRESS

This form can be used to notify the Department of a change in
address of the owners of record for the listed water rights.
(Please print or type)

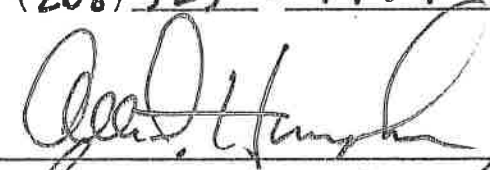
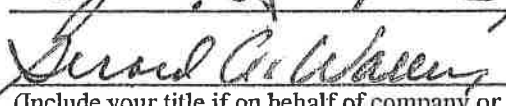
[] Water Right Number(s): A63-172B, A63-202B

[] Name(s): HAAS DITCH CO

[] Old Mailing Address: C/O RAYMOND ABBOTT
26948 STEPHEN LN
PARMA ID 83660

[] New Mailing Address: C/O ALLAN HUMPHRIES, JERRY WALLER
PIZZA HUT OF IDAHO INC
504 N PHILLIPPI ST
BOISE ID 83706

Telephone Number: (208) 323 - 7767

[] Signature(s) of Owner(s)  President
 Vice-President
(Include your title if on behalf of company or organization)

Date: 3/8/06

SCANNED

NOV 3 2006

Records
updated
10-10-06
/R

08/17/2006

IDAHO DEPARTMENT OF WATER RESOURCES
PRELIMINARY RECOMMENDATION OF WATER RIGHTS ACQUIRED UNDER STATE LAW

RIGHT NUMBER: 63-172B

NAME AND ADDRESS: HAAS DITCH CO
C/O RAYMOND ABBOTT
26948 STEPHEN LN
PARMA ID 83660

SOURCE: BOISE RIVER

TRIBUTARY: SNAKE RIVER

QUANTITY: 8.540 CFS

Whenever it becomes necessary for the watermaster to deliver this right the following condition shall apply. This right shall receive 100 percent of its decreed quantity until the natural flow of the waters of the Boise River shall decrease so that all rights containing this condition cannot receive 100 percent of their decreed quantities, at which time this right and the other rights containing this condition shall first be cut to 75 percent of their decreed quantities, as the natural flow of the river decreases, beginning with the latest rights containing this condition and proceeding to the earliest rights containing this condition in the order of their priority dates, and after all of the rights containing this condition shall have been reduced to 75 percent of their decreed quantities, should the natural flow of the waters of the river decrease below the amount necessary to supply 75 percent of those decreed quantities, then this right and the other rights containing this condition, beginning with the latest and proceeding to the earliest, shall be reduced to 60 percent of their decreed quantities.

PRIORITY DATE: 06/01/1868

POINT OF DIVERSION:
T05N R05W S27 NENW Within CANYON County

PURPOSE AND
PERIOD OF USE:

<u>PURPOSE OF USE</u>	<u>PERIOD OF USE</u>	<u>QUANTITY</u>
IRRIGATION	03/01 11/15	8.540 CFS

Diversion for irrigation under this water right prior to April 1 and after October 31 shall occur only when the natural flow in the Boise River below the Star Bridge in Township 04 North, Range 01 West, Section 18, NE¼ of the SE¼ of the SE¼, Boise Meridian (approximate river mile 33.9) is sufficient for water to be available for diversion at the point of diversion described above, provided that any such use of this water right prior to April 1 and after October 31 shall be subordinated to water rights for storage in Lucky Peak Reservoir, Lake Lowell, Arrowrock Reservoir, and/or Anderson Ranch Reservoir, as decreed in SRBA Case No. 39576.

PLACE OF USE:

561 ACRES TOTAL

The boundary encompassing the place of use for this water right is described with a digital boundary as defined by I.C. Section 42-202B(2) and authorized pursuant to I.C. Section 42-1411(2)(h). The data comprising the digital boundary are incorporated herein by reference and are stored on a CD-ROM disk issued in duplicate originals on file with the SRBA District Court and the Idaho Department of Water Resources. A map depicting the place of use is attached hereto to illustrate the place of use described by the digital boundary.

This right when combined with Right No 63-202B can be used to irrigate up to 561 acres within the boundary of the Haas Ditch Company.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

This right is designated as No. 39 in the Stewart decree and the Boise Water Distribution Report.

EXPLANATORY MATERIAL: BASIS OF CLAIM - Decreed

Right includes accomplished change in point of diversion pursuant to Section 42-1425, Idaho Code.

Done
D. Gagnon

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

CHANGE IN ADDRESS

This form can be used to notify the Department of a change in
address of the owners of record for the listed water rights.
(Please print or type)

RECEIVED

MAR 10 2006

WATER RESOURCES
WESTERN REGION

RECEIVED

AUG 29 2006

DEPARTMENT OF
WATER RESOURCES

[] Water Right Number(s): A63-172B, A63-202B

[] Name(s): HAAS DITCH CO

[] Old Mailing Address: c/o RAYMOND ABBOTT
26948 STEPHEN LN
PARMA ID 83660

[] New Mailing Address: c/o ALLAN HUMPHRIES, JERRY WALLER
PIZZA HUT OF IDAHO INC
504 N PHILLIPPI ST
BOISE ID 83706

Telephone Number: (208) 323 - 7767

[] Signature(s) of Owner(s) *Alan Humphries* President
Jerry Waller Vice-President
(Include your title if on behalf of company or organization)

Date: 3/8/06

SCANNED

AUG 29 2006

63-172B RECEIVED

NOV 18 2005

Department of Water Resources

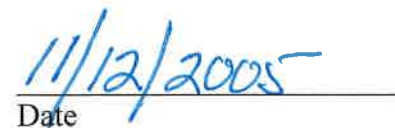
Haas Ditch Co.
26948 Stephen Ln.
Parma, ID 83660

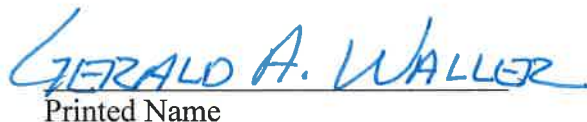
Idaho Department of Water Resources
322 E. Front St.
P.O. Box 83720
Boise, ID 83720-0098

To Whom It May Concern:

The Board of Directors of the Haas Ditch Co. has deemed that the service area boundary of the Haas Ditch Co. is illustrated accurately, without modifications, and in its entirety on the map(s) created by Danielle Favreau on October 13, 2005. Additionally, the previously identified map(s) accurately illustrate the location of land serviced by the company as of 1987. We understand that in the process of finalizing the SRBA recommendations, these maps may be adjusted.


Signature


Date


Printed Name


Title

SCANNED

NOV 21 2005

XXXV.

That the defendants H. D. GOODMAN and DORA GOODMAN be, and they are hereby awarded the use of the waters of Boise River, diverted from a point on said river in SE $\frac{1}{4}$ of NE $\frac{1}{4}$ of Sec. 5, T. 3 N.R. 2 E. B.M., through what is known as the Thurman Mill Ditch or slough, for use upon lands situated in Secs. 31 and 32, T. 4 N. R. 2 E. B.M., in the following amount and from the following date;

63 0170 185 inches, from June 1, 1868; and hereby designated as Right No. 37

7-736 And be adjudged to pay \$12.95 costs in addition to the costs incurred by them.

XXXVI.

That the defendant T. T. JOHNSON be, and he is hereby awarded the use of the waters of Boise River, diverted at a point in the NW $\frac{1}{4}$ of SE $\frac{1}{4}$ of Sec. 12, and SE $\frac{1}{4}$ of Sec. 2, T. 4 N. R. 4 W. B.M., for use upon the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$, NE $\frac{1}{4}$ of SW $\frac{1}{4}$, SW $\frac{1}{4}$ of NE $\frac{1}{4}$, SE $\frac{1}{4}$ of NW $\frac{1}{4}$, and lots 2 and 3 in Sec. 3, T. 4 N. R. 4 W. B.M., in the following amount from the following date;

63 0171 160 inches, from June 1, 1868; and hereby designated as Right No. 38.

7 A.D. 3 And be adjudged to pay \$11.20 costs in addition to the costs incurred by him.

XXXVII.

That the defendants C. B. ROSS, C. H. ALLEN, EDGAR DILLEY and W. H. ROSS, be and they are hereby awarded the use of the waters of Boise River, diverted at a point on the south bank of said river near the NE corner of Sec. 21, through what is known as the Haas canal, for use upon lands in Secs. 16, 17, 20 and 21, T. 5 N. R. 5 W. B.M., in the following amount from the following date;

63 0172 427 inches, from June 1, 1868; and hereby designated as Right No. 39.

And be adjudged to pay \$29.89 costs in addition to the costs incurred by them.

XXXVIII.

That the defendant S. S. GRAY be, and he is hereby awarded the use of the waters of Boise River, diverted from said river at a point at the head of the Middleton Mill ditch, on NE $\frac{1}{4}$ of NW $\frac{1}{4}$, Sec. 13, T. 4 N. R. 1 W. B.M., for use upon the N. $\frac{1}{2}$ of SE $\frac{1}{4}$ of Sec. 10, T. 4 N. R. 1 W. B.M., in the following amount and from the following date;

63 0173 70 inches, from June 1, 1868; and hereby designated as Right No. 40.

And be adjudged to pay \$4.20 costs in addition to the costs incurred by him.

Memorandum

To: Dave Tuthill 
From: Marci Pape
Date: 1/29/06
Re: Diversion Rate Analysis for Haas Ditch Co. Right Nos. A63-00172B & A63-00202B

I have completed the diversion rate analysis for the Haas Ditch Co. water right listed above and have attached the results. I was not able to analyze all the fields, since the claimant did not supply information for some of the fields. The majority of the fields were analyzed, however, and all of those fields require diversion rates in excess of 1 in/ac, according to my findings.

CALCULATIONS

Raymond Abbott supplied some of the information necessary for the analysis. He included furrow direction and a five-year crop history for 24 of the 30 fields. The remaining fields were not fully addressed. Mr. Abbott did not describe the irrigation method(s) for the property, so I assumed the fields were irrigated using corrugations and furrows. I based the row spacings on those given in Figure A-6 of the Evaluation Workbook for Irrigation Diversion Rates, prepared in 1991 by Hubble Engineering and Associated Earth Sciences, Inc. I used a spacing of 2 ft. for sugar beets, rounding up from the suggested 22 in. to the nearest 0.5 foot.

Danielle Favreau provided the shapefile used by IDWR for the recommended Place of Use and I used those field boundaries in ArcView to determine average furrow lengths. Some of the fields were split for the purposes of the investigation, either because the furrow lengths were too variable or because the analysis required it for the full irrigation of an individual field.

Field slopes were determined using 1:24000 digital topographical maps in ArcView wherever possible. The area is nearly flat, according to both the topographic maps and Mr. Abbott. I assumed a slope of 0.2 percent for those fields where a slope was impossible to measure due to a lack of topographic lines.

The soil types were determined using the soils information from the USDA, NRCS for the Canyon Area, Idaho. The dominant soils on the property are Baldock loam, Moulton loam, saline Moulton loam, Notus, and Oliaga loam. There are other soil types on the property, but none of them cover more than 10 percent of the area of any field, so they were not used in the analysis.

The weather station nearest to this site is the Parma Experimental Station. The 80th percentile monthly ET values from that weather station were used for my analysis. There were no ET values available for one of the crops grown on the property, radish seed, so I assumed an ET value equivalent to that for alfalfa hay to allow for a generous estimate of ET.

RESULTS

The total on-farm irrigation requirement for the analyzed fields was determined to be **23.44 cfs for 385.7 acres, or 0.061 cfs per acre**. This determination was made using the crop with the highest irrigation requirement for each field. The results for each field are contained in the table below. These are strictly the on-farm diversion requirements, with no allowances made for conveyance loss.

Field No.	On-Farm Irrigation Reqt. (cfs/ac)	Field Size (ac.)	Total On-Farm Irrigation Reqt. (cfs)
A	0.031	9.5	0.30
B	0.034	12.5	0.43
C	0.038	3.0	0.12
D	0.029	5.9	0.17
E	0.051	13.6	0.69
F	0.045	10.2	0.46
G1	0.102	16.2	1.65
G2	0.043	22.0	2.44
H	0.085	1.2	0.10
I	0.049	7.4	0.37
J	0.080	15.9	1.27
K1	0.102	24.8	2.53
K2	0.050	10.5	0.53
L	0.085	2.1	0.18
M	0.054	11.1	0.60
N	0.111	1.1	0.12
O	0.031	14.3	0.45
P	0.052	37.1	1.92
Q	0.045	23.3	1.04
R	0.053	26.9	1.43
S	0.046	23.8	1.10
W	0.043	57.9	2.46
X	0.058	11.7	0.68
Y	0.101	23.7	2.40
TOTAL		385.7	23.44

cfs

Avg. On-Farm Irrigation
Requirement (cfs/ac):

0.061

cfs/ac

The remaining fields include a total of 175.9 acres. If those fields were assumed to require only 0.02 cfs/ac, it would add an additional 3.52 cfs to the total. This would bring the **Total On-Farm Irrigation Requirement to 26.96cfs**. This exceeds the claimed diversion rate of 8.54 cfs (A63-00172B) + 8.80 cfs (A63-00202B) = **17.34 cfs**. Therefore, I have concluded that the claimed diversion rate is reasonable.

/DM

$$\frac{26.96 \text{ CFS}}{561 \text{ AC}} = .048 \text{ CFS/AC OR } 2.4" / \text{AC}$$

IRRIGATION DIVERSION RATE ANALYSIS

CLAIM NO(S): 63-00172B, 63-00202B
 FIELD ID NO: E
 TOTAL ACRES: 13.6 AC
 FIELD SLOPE: 0.6 %
 FURROW LENGTH: 800 FT

ANALYSIS COMPLETED BY: MARCI PAPE
 DATE OF ANALYSIS: 01/12/06

Qmax PER FURROW: Qmin PER FURROW:
 For corrugates: 10.0 gpm For both: 3.0 gpm
 For furrows: 16.7 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = hay		CROP = wheat		CROP = beets		CROP =		CROP =	
				MAD	EFFICIENCY	MAD	EFFICIENCY	MAD	EFFICIENCY	MAD	EFFICIENCY	MAD	EFFICIENCY
MwA	9.1	67	0.7	2.6	50%	2.24	34%	2.6	51%				
No	4.5	33	0.55	1.76	44%	1.52	30%	1.76	44%				

TOTAL AC 13.6
 TOTAL % 100

CFS/AC FOR EACH CROP: 0.037

0.051

0.037

TOTAL CFS FOR FIELD:

0.69

FIELD ID NO: F
 TOTAL ACRES: 10.2 AC
 FIELD SLOPE: 0.2 %
 FURROW LENGTH: 700 FT

DATE OF ANALYSIS: 01/12/06

Qmax PER FURROW: Qmin PER FURROW:
 For corrugates: 10.0 gpm For both: 3.0 gpm
 For furrows: 50.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = corn		CROP = wheat		CROP = sugar beets		CROP =		CROP =	
				MAD	EFFICIENCY	MAD	EFFICIENCY	MAD	EFFICIENCY	MAD	EFFICIENCY	MAD	EFFICIENCY
MwA	10.1	99	0.7	2.24	45%	2.24	34%	2.6	37%				
No	0.1	1	0.55		***		***		***		***		***

TOTAL AC 10.2
 TOTAL % 100

CFS/AC FOR EACH CROP:

0.045

TOTAL CFS FOR FIELD:

0.46

← same crop, eff, I.F., + MAD as that for Field Q, ∴ use cfs/ac for Field Q

(assumed slope - nearly flat)

* 24 hr set times

TOTAL CFS FOR FIELD :

TOTAL CFS FOR FIELD :

TOTAL CFS FOR FIELD :

0.37

FIELD ID NO: J
 TOTAL ACRES: 15.9 AC
 FIELD SLOPE: 0.2 %
 FURROW LENGTH: 900 FT

(assumed slope - nearly flat)

DATE OF ANALYSIS:

1/21/06

Qmax PER FURROW:

For corrugates: 10.0 gpm
 For furrows: 50.0 gpm

Qmin PER FURROW:

For both: 3.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	barley EFFICIENCY	CROP = MAD	corn EFFICIENCY	CROP = MAD	sugar beets EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	14.5	91	0.7	2.24	1990	2.24	4290	2.6	3590				
BdA	1.4	9	0.55		***		***		***		***		***

TOTAL AC 15.9
 TOTAL % 100

CFS/AC FOR EACH CROP:

0.080

0.036

0.046

TOTAL CFS FOR FIELD:

1.27

FIELD ID NO: K1
 TOTAL ACRES: 24.8 AC
 FIELD SLOPE: 0.2 %
 FURROW LENGTH: 1050 FT

(assumed slope - nearly flat)

DATE OF ANALYSIS:

1/21/06

Qmax PER FURROW:

For corrugates: 10.0 gpm
 For furrows: 50.0 gpm

Qmin PER FURROW:

For both: 3.0 gpm

* 36 hr set time
 ** 24 hr set time

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	corn EFFICIENCY	CROP = MAD	wheat EFFICIENCY	CROP = MAD	sugar beets EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	11.4	46	0.7	2.24	4190	2.24	4490*	2.6	3490				
No	5.4	22	0.55	1.52	3390	1.52	1590**	1.76	2790				
BdA	8.0	32	0.55	4.44	2990	4.44	4090**	5.42	4090				

TOTAL AC 24.8
 TOTAL % 100

CFS/AC FOR EACH CROP:

0.049

0.102

0.060

TOTAL CFS FOR FIELD:

2.53

FIELD ID NO: K2
 TOTAL ACRES: 10.5 AC
 FIELD SLOPE: 0.2 %
 FURROW LENGTH: 1300 FT

(assumed slope - nearly flat)

DATE OF ANALYSIS:

1/21/06

Qmax PER FURROW:

For corrugates: 10.0 gpm
 For furrows: 50.0 gpm

Qmin PER FURROW:

For both: 3.0 gpm

* fields split into 650 ft lengths

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	corn EFFICIENCY	CROP = MAD	wheat EFFICIENCY	CROP = MAD	sugar beets EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	4.0	38	0.7	2.24	3890	2.24	3490*	2.6	3290				
BdA	6.5	62	0.55	4.44	3290	4.44	5990*	5.42	4190				

TOTAL AC 10.5
 TOTAL % 100

CFS/AC FOR EACH CROP:

0.045

0.045

0.050

TOTAL CFS FOR FIELD:

0.53

FIELD ID NO: L
 TOTAL ACRES: 2.1 AC
 FIELD SLOPE: 0.2 %
 FURROW LENGTH: 200 FT

(assumed slope - nearly flat)

DATE OF ANALYSIS:

1/12/06

Qmax PER FURROW:

For corrugates:

10.0 gpm

For furrows:

50.0 gpm

Qmin PER FURROW:

For both:

3.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	pasture EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	0.4	19	0.7	1.88	22%								
No	1.7	81	0.55	1.28	15%								

TOTAL AC 2.1
 TOTAL % 100

CFS/AC FOR
 EACH CROP: 0.085

TOTAL CFS FOR FIELD: 0.18

FIELD ID NO: M
 TOTAL ACRES: 11.1 AC
 FIELD SLOPE: 0.2 %
 FURROW LENGTH: 650 FT

(assumed slope - nearly flat)

DATE OF ANALYSIS:

1/12/06

Qmax PER FURROW:

For corrugates:

10.0 gpm

For furrows:

50.0 gpm

Qmin PER FURROW:

For both:

3.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	hay EFFICIENCY	CROP = MAD	wheat EFFICIENCY	CROP = MAD	sugar beets EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
No	9.0	81	0.55	1.76	38%	1.52	29%	1.76	30%				
BdA	2.1	19	0.55	5.42	59%	4.44	59%	5.42	35%				

TOTAL AC 11.1
 TOTAL % 100

CFS/AC FOR
 EACH CROP: 0.043

0.053

0.054

TOTAL CFS FOR FIELD: 0.60

FIELD ID NO:	N	DATE OF ANALYSIS:	1/12/06
TOTAL ACRES:	1.1 AC		
FIELD SLOPE:	0.2 %	(assumed slope - nearly flat)	
FURROW LENGTH:	450 FT	Qmax PER FURROW:	Qmin PER FURROW:
		For corrugates:	10.0 gpm
		For furrows:	50.0 gpm
			For both: 3.0 gpm

[illegible]

TOTAL CFS FOR FIELD :

0.12

DATE OF ANALYSIS:		1/12/06	
Qmax PER FURROW:		Qmin PER FURROW:	
For corrugates:	10.0 gpm	For both:	3.0 gpm
For furrows:	20.0 gpm		

[illegible]

TOTAL CFS FOR FIELD :

0.025

0.45

DATE OF ANALYSIS:		1/12/06	
Qmax PER FURROW:		Qmin PER FURROW:	
For corrugates:	10.0 gpm	For both:	3.0 gpm
For furrows:	50.0 gpm		

[illegible]

CFS/AC FOR EACH CROP:	<u>0.052</u>	<u>0.045</u>
TOTAL CFS FOR FIELD:		<u>1.92</u>

DATE OF ANALYSIS:		1/12/06	
Qmax PER FURROW:		Qmin PER FURROW:	
For corrugates:	10.0 gpm	For both:	3.0 gpm
For furrows:	16.7 gpm		

[illegible]

CFS/AC FOR EACH CROP: 0.033 0.031 0.045
TOTAL CFS FOR FIELD: 1.04

DATE OF ANALYSIS:		1/12/06	
Qmax PER FURROW:		Qmin PER FURROW:	
For corrugates:	10.0 gpm	For both:	3.0 gpm
For furrows:	33.3 gpm		

[illegible]

0.053

TOTAL CFS FOR FIELD:

1.43

DATE OF ANALYSIS:		1/12/06	
Qmax PER FURROW:		Qmin PER FURROW:	
For corrugates:	10.0 gpm	For both:	3.0 gpm
For furrows:	33.3 gpm		

[illegible]

CFS/AC FOR EACH CROP: 0.046

0.029

TOTAL CFS FOR FIELD :

1.10

DATE OF ANALYSIS:	1/12/06
Qmax PER FURROW:	Qmin PER FURROW:
For corrugates: 10.0 gpm	For both: 3.0 gpm
For furrows: 50.0 gpm	

[illegible]

0.043

2.46

DATE OF ANALYSIS:	1/12/06
Qmax PER FURROW:	Qmin PER FURROW:
For corrugates: 10.0 gpm	For both: 3.0 gpm
For furrows: 50.0 gpm	

[illegible]

0.058

0.68

FIELD ID NO: Y
 TOTAL ACRES: 23.7 AC
 FIELD SLOPE: 0.2 %
 FURROW LENGTH: 1050 FT

DATE OF ANALYSIS: 1/12/06
 Qmax PER FURROW:
 For corrugates: 10.0 gpm
 For furrows: 50.0 gpm
 Qmin PER FURROW:
 For both: 3.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	hay EFFICIENCY	CROP = MAD	wheat EFFICIENCY	CROP = MAD	pasture EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MvA	18.0	76	0.7	2.6	21%	2.24	14.7% use 5%	1.88	18% use 15%	1.88	30% use 15%	1.88	30% use 15%
MwA	5.7	24	0.7	2.6	"	2.24	"	1.88	"				

TOTAL AC 23.7 TOTAL % 100 CFS/AC FOR EACH CROP: 0.022 0.101 0.083
 TOTAL CFS FOR FIELD: 2.40

FIELD ID NO:
 TOTAL ACRES: AC
 FIELD SLOPE: %
 FURROW LENGTH: FT

DATE OF ANALYSIS: 1/12/06
 Qmax PER FURROW:
 For corrugates: #VALUE! gpm
 For furrows: #VALUE! gpm
 Qmin PER FURROW:
 For both: 3.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	alfalfa EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY

TOTAL AC 0.0 TOTAL % 0 CFS/AC FOR EACH CROP: TOTAL CFS FOR FIELD:

FIELD ID NO: A
 TOTAL ACRES: 9.5 AC
 FIELD SLOPE: 0.2 %
 FURROW LENGTH: 500 FT

DATE OF ANALYSIS: 1/25/06
 Qmax PER FURROW:
 For corrugates: 10.0 gpm
 For furrows: 50.0 gpm
 Qmin PER FURROW:
 For both: 3.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	corn EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	9.5	100	0.7	2.24	48%								

TOTAL AC 9.5 TOTAL % 100 CFS/AC FOR EACH CROP: 0.031

TOTAL CFS FOR FIELD: 0.30

FIELD ID NO: B
 TOTAL ACRES: 12.5 AC
 FIELD SLOPE: 0.2 %
 FURROW LENGTH: 800 FT

DATE OF ANALYSIS: 1/25/06
 Qmax PER FURROW:
 For corrugates: 10.0 gpm
 For furrows: 50.0 gpm
 Qmin PER FURROW:
 For both: 3.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	corn EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	12.5	100	0.7	2.24	44%								

TOTAL AC 12.5 TOTAL % 100 CFS/AC FOR EACH CROP: 0.034

TOTAL CFS FOR FIELD: 0.43

FIELD ID NO: C
 TOTAL ACRES: 3.0 AC
 FIELD SLOPE: 0.2 % (assumed slope - nearly flat)
 FURROW LENGTH: 200 FT

DATE OF ANALYSIS: 1/25/06
 Qmax PER FURROW:
 For corrugates: 10.0 gpm
 For furrows: 50.0 gpm
 Qmin PER FURROW:
 For both: 3.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	corn EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	3.0	100	0.7	2.24	39%								

TOTAL AC 3.0
 TOTAL % 100

CFS/AC FOR
 EACH CROP: 0.038

TOTAL CFS FOR FIELD: 0.12

FIELD ID NO: D
 TOTAL ACRES: 5.9 AC
 FIELD SLOPE: 0.2 % (assumed slope - nearly flat)
 FURROW LENGTH: 400 FT

DATE OF ANALYSIS: 1/25/06
 Qmax PER FURROW:
 For corrugates: 10.0 gpm
 For furrows: 50.0 gpm
 Qmin PER FURROW:
 For both: 3.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	corn EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	5.7	97	0.7	2.24	52%								
No	0.2	3			***		***		***		***		***

TOTAL AC 5.9
 TOTAL % 100

CFS/AC FOR
 EACH CROP: 0.029

TOTAL CFS FOR FIELD: 0.17

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field A
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	sep	
corn	9.5	fur	48	0	0	1.99	3.99	8.16	6.78	3.98	0.9	2.24	1.11	6.3	4.60	9.23	18.87	15.68	9.20	2.08			

Summary 9.5 4.60 9.23 18.87 15.68 9.20 2.08

Peak Gross Irrigation Application (mm/day) = 18.87
 On-Farm Irrigation Requirement (cfs/acre) = 0.031
 Total On-Farm Irrigation Requirement (cfs) = 0.30
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field B
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
corn	12.5	fur	44	0	0	1.99	3.99	8.16	6.78	3.98	0.9	2.24	1.11	6.3	5.02	10.07	20.59	17.10	10.04	2.27		

Summary 12.5

5.02 10.07 20.59 17.10 10.04 2.27

Peak Gross Irrigation Application (mm/day) = 20.59
 On-Farm Irrigation Requirement (cfs/acre) = 0.034
 Total On-Farm Irrigation Requirement (cfs) = 0.43
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field C
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
corn	3	fur	39	0	0	1.99	3.99	8.16	6.78	3.98	0.9	2.24	1.11	6.3	5.66	11.36	23.22	19.30	11.33	2.56		

Summary 3

5.66 11.36 23.22 19.30 11.33 2.56

Peak Gross Irrigation Application (mm/day) = 23.22
 On-Farm Irrigation Requirement (cfs/acre) = 0.038
 Total On-Farm Irrigation Requirement (cfs) = 0.12
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field D

date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
corn	5.9	fur	52	0	0	1.99	3.99	8.16	6.78	3.98	0.9	2.24	1.11	6.3		4.25	8.52	17.42	14.47	8.50	1.92	

Summary 5.9

Peak Gross Irrigation Application (mm/day) = 17.42
 On-Farm Irrigation Requirement (cfs/acre) = 0.029
 Total On-Farm Irrigation Requirement (cfs) = 0.17
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

4.25 8.52 17.42 14.47 8.50 1.92

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field E
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)										AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct	mar	apr					may	jun	jul	aug	sep	oct					
alf hay	13.6	cor	44	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		1.76	1.12	4.5	6.29	12.78	16.88	21.03	22.55	18.91	14.46	8.63					

Summary 13.6

6.29 12.78 16.88 21.03 22.55 18.91 14.46 8.63

Peak Gross Irrigation Application (mm/day) = 22.55
On-Farm Irrigation Requirement (cfs/acre) = 0.037
Total On-Farm Irrigation Requirement (cfs) = 0.51
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field E

date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	mar	apr	may	Monthly ET (mm/day)					oct	AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
							jun	jul	aug	sep	mar						apr	may	jun	jul	aug	sep	oct		
sug. beet	13.6	fur	44	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01		1.76	1.12	4.5	3.84	5.14	12.27	22.40	18.25	12.07	5.12			

Summary 13.6

3.84 5.14 12.27 22.40 18.25 12.07 5.12

Peak Gross Irrigation Application (mm/day) = 22.40
 On-Farm Irrigation Requirement (cfs/acre) = 0.037
 Total On-Farm Irrigation Requirement (cfs) = 0.50
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field E
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
wheat	13.6	cor	30	0.75	1.7	5.55	8.26	6.78	1.35		1.52	1.12	4.2	2.80	6.35	20.72	30.84	25.31	5.04					

Summary 13.6

2.80 6.35 20.72 30.84 25.31 5.04

Peak Gross Irrigation Application (mm/day) = 30.84
 On-Farm Irrigation Requirement (cfs/acre) = 0.051
 Total On-Farm Irrigation Requirement (cfs) = 0.69
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G1
date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	mar	apr	may	Monthly ET (mm/day)					AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
							jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct			
alf hay	16.2	cor	22	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		1.76	1.12	4.5	12.57	25.56	33.75	42.05	45.11	37.83	28.92	17.26			

Summary 16.2 12.57 25.56 33.75 42.05 45.11 37.83 28.92 17.26

Peak Gross Irrigation Application (mm/day) = 45.11
On-Farm Irrigation Requirement (cfs/acre) = 0.075
Total On-Farm Irrigation Requirement (cfs) = 1.21
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G1
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	16.2	fur	28	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	1.76	1.12	4.5	6.04	8.08	19.28	35.20	28.68	18.96	8.04			

Summary 16.2 6.04 8.08 19.28 35.20 28.68 18.96 8.04

Peak Gross Irrigation Application (mm/day) = 35.20
 On-Farm Irrigation Requirement (cfs/acre) = 0.058
 Total On-Farm Irrigation Requirement (cfs) = 0.94
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G1

date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							oct	AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep						mar	apr	may	jun	jul	aug	sep	oct	
wheat	16.2	cor	15	0.75	1.7	5.55	8.26	6.78	1.35			1.52	1.12	4.2	5.60	12.69	41.44	61.67	50.62	10.08				

Summary 16.2

5.60 12.69 41.44 61.67 50.62 10.08

Peak Gross Irrigation Application (mm/day) = 61.67
 On-Farm Irrigation Requirement (cfs/acre) = 0.102
 Total On-Farm Irrigation Requirement (cfs) = 1.65
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G2
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							oct	AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep						mar	apr	may	jun	jul	aug	sep	
corn	22	fur	48	0	0	1.99	3.99	8.16	6.78	3.98	0.9	2.24	1.11	6.3			4.60	9.23	18.87	15.68	9.20	2.08	

Summary 22

Peak Gross Irrigation Application (mm/day) = 18.87
On-Farm Irrigation Requirement (cfs/acre) = 0.031
Total On-Farm Irrigation Requirement (cfs) = 0.69
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

4.60 9.23 18.87 15.68 9.20 2.08

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G2
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)										AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct	mar	apr					may	jun	jul	aug	sep	oct					
radish sd	22	fur	15	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		0.59	1.14	1.5	18.77	38.15	50.39	62.78	67.34	56.47	43.17	25.76					

Summary 22 18.77 38.15 50.39 62.78 67.34 56.47 43.17 25.76

Peak Gross Irrigation Application (mm/day) = 67.34
 On-Farm Irrigation Requirement (cfs/acre) = 0.111
 Total On-Farm Irrigation Requirement (cfs) = 2.45
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G2
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	22	fur	41	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	2.60	1.10	6.8	4.05	5.42	12.93	23.61	19.24	12.72	5.39			

Summary 22

4.05 5.42 12.93 23.61 19.24 12.72 5.39

Peak Gross Irrigation Application (mm/day) = 23.61
 On-Farm Irrigation Requirement (cfs/acre) = 0.039
 Total On-Farm Irrigation Requirement (cfs) = 0.86
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G2
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							oct	AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep						mar	apr	may	jun	jul	aug	sep	
wheat	22	cor	35	0.75	1.7	5.55	8.26	6.78	1.35			2.24	1.11	6.2	2.38	5.39	17.60	26.20	21.50	4.28			

Summary 22

2.38 5.39 17.60 26.20 21.50 4.28

Peak Gross Irrigation Application (mm/day) = 26.20
 On-Farm Irrigation Requirement (cfs/acre) = 0.043
 Total On-Farm Irrigation Requirement (cfs) = 0.95
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

initials: MP Claimant = Haas Ditch Co. - Field I
date: 01/18/06 Weather Station = Parma Exp. Station

Summary	7.4	2.71	6.14	20.05	29.84	24.50	4.88
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Peak Gross Irrigation Application (mm/day) =	29.84
On-Farm Irrigation Requirement (cfs/acre) =	0.049
Total On-Farm Irrigation Requirement (cfs) =	0.37
Irrigation Diversion Volume (ft/yr) =	0.00
Total Irrigation Diversion Volume (ac-ft/yr) =	0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field I

date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								oct	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	mar					apr	may	jun	jul	aug	sep	oct		
corn	7.4	fur	46	0	0	1.99	3.99	8.16	6.78	3.98	0.9		1.52	1.12	4.2		4.85	9.71	19.87	16.51	9.69	2.19		

Summary 7.4

4.85 9.71 19.87 16.51 9.69 2.19

Peak Gross Irrigation Application (mm/day) = 19.87
 On-Farm Irrigation Requirement (cfs/acre) = 0.033
 Total On-Farm Irrigation Requirement (cfs) = 0.24
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field I
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	7.4	fur	36	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	1.76	1.12	4.5	4.70	6.28	15.00	27.38	22.31	14.75	6.25			

Summary 7.4

4.70 6.28 15.00 27.38 22.31 14.75 6.25

Peak Gross Irrigation Application (mm/day) = 27.38
 On-Farm Irrigation Requirement (cfs/acre) = 0.045
 Total On-Farm Irrigation Requirement (cfs) = 0.34
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field J

date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)			
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug		sep	oct	
barley	15.9	cor	19	0.75	1.7	5.55	8.26	6.78	1.35		2.24	1.11	6.2	4.38	9.93	32.42	48.26	39.61	7.89						

Summary 15.9

4.38 9.93 32.42 48.26 39.61 7.89

Peak Gross Irrigation Application (mm/day) = 48.26
 On-Farm Irrigation Requirement (cfs/acre) = 0.080
 Total On-Farm Irrigation Requirement (cfs) = 1.27
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field J

date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								oct	AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	mar						apr	may	jun	jul	aug	sep	oct		
corn	15.9	fur	42	0	0	1.99	3.99	8.16	6.78	3.98	0.9		2.24	1.11	6.3		5.26	10.55	21.57	17.92	10.52	2.38			

Summary 15.9

5.26 10.55 21.57 17.92 10.52 2.38

Peak Gross Irrigation Application (mm/day) = 21.57
 On-Farm Irrigation Requirement (cfs/acre) = 0.036
 Total On-Farm Irrigation Requirement (cfs) = 0.57
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field J

date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)										net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct	mar	apr				may	jun	jul	aug	sep	oct					
sug. beet	15.9	fur	35	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01		2.60	1.10	6.8	4.75	6.35	15.15	27.66	22.53	14.90	6.32					

Summary 15.9

4.75 6.35 15.15 27.66 22.53 14.90 6.32

Peak Gross Irrigation Application (mm/day) = 27.66
 On-Farm Irrigation Requirement (cfs/acre) = 0.046
 Total On-Farm Irrigation Requirement (cfs) = 0.73
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K1
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								oct	AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	mar						apr	may	jun	jul	aug	sep	oct		
corn	24.8	fur	29	0	0	1.99	3.99	8.16	6.78	3.98	0.9		4.44	1.06	13.0		7.27	14.58	29.83	24.78	14.55	3.29			

Summary 24.8

7.27 14.58 29.83 24.78 14.55 3.29

Peak Gross Irrigation Application (mm/day) = 29.83
 On-Farm Irrigation Requirement (cfs/acre) = 0.049
 Total On-Farm Irrigation Requirement (cfs) = 1.22
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K1
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	24.8	fur	27	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	1.76	1.12	4.5	6.26	8.38	19.99	36.50	29.74	19.66	8.34			

Summary 24.8

6.26 8.38 19.99 36.50 29.74 19.66 8.34

Peak Gross Irrigation Application (mm/day) = 36.50
 On-Farm Irrigation Requirement (cfs/acre) = 0.060
 Total On-Farm Irrigation Requirement (cfs) = 1.50
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K1

date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
wheat	24.8	cor	15	0.75	1.7	5.55	8.26	6.78	1.35		1.52	1.12	4.2	5.60	12.69	41.44	61.67	50.62	10.08			

Summary 24.8

5.60 12.69 41.44 61.67 50.62 10.08

Peak Gross Irrigation Application (mm/day) = 61.67
 On-Farm Irrigation Requirement (cfs/acre) = 0.102
 Total On-Farm Irrigation Requirement (cfs) = 2.53
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K2

date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								oct	AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	mar						apr	may	jun	jul	aug	sep	oct		
corn	10.5	fur	32	0	0	1.99	3.99	8.16	6.78	3.98	0.9		4.44	1.06	13.0		6.59	13.22	27.03	22.46	13.18	2.98			

Summary 10.5

6.59 13.22 27.03 22.46 13.18 2.98

Peak Gross Irrigation Application (mm/day) = 27.03
 On-Farm Irrigation Requirement (cfs/acre) = 0.045
 Total On-Farm Irrigation Requirement (cfs) = 0.47
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K2

date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)										AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct	mar	apr					may	jun	jul	aug	sep	oct					
sug. beet	10.5	fur	32	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01		2.60	1.10	6.8	5.19	6.94	16.57	30.25	24.65	16.29	6.91						

Summary 10.5

5.19 6.94 16.57 30.25 24.65 16.29 6.91

Peak Gross Irrigation Application (mm/day) = 30.25
 On-Farm Irrigation Requirement (cfs/acre) = 0.050
 Total On-Farm Irrigation Requirement (cfs) = 0.53
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K2

date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
wheat	10.5	cor	34	0.75	1.7	5.55	8.26	6.78	1.35		2.24	1.11	6.2	2.45	5.55	18.12	26.97	22.13	4.41			

Summary 10.5 2.45 5.55 18.12 26.97 22.13 4.41

Peak Gross Irrigation Application (mm/day) = 26.97
 On-Farm Irrigation Requirement (cfs/acre) = 0.045
 Total On-Farm Irrigation Requirement (cfs) = 0.47
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field L
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
past	2.1	cor	15	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61		1.28	1.13	4.2	6.40	27.27	38.34	47.91	51.38	43.09	32.92	19.66	

Summary 2.1

6.40 27.27 38.34 47.91 51.38 43.09 32.92 19.66

Peak Gross Irrigation Application (mm/day) = 51.38
 On-Farm Irrigation Requirement (cfs/acre) = 0.085
 Total On-Farm Irrigation Requirement (cfs) = 0.18
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field M
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)										AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct	mar	apr					may	jun	jul	aug	sep	oct					
alf hay	11.1	cor	38	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		1.76	1.12	4.5	7.28	14.80	19.54	24.35	26.11	21.90	16.74	9.99					

Summary 11.1

7.28 14.80 19.54 24.35 26.11 21.90 16.74 9.99

Peak Gross Irrigation Application (mm/day) = 26.11
 On-Farm Irrigation Requirement (cfs/acre) = 0.043
 Total On-Farm Irrigation Requirement (cfs) = 0.48
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field M
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	mar	apr	may	Monthly ET (mm/day)					oct	AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
							jun	jul	aug	sep	mar						apr	may	jun	jul	aug	sep	oct				
sug. beet	11.1	fur	30	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01		1.76	1.12	4.5	5.64	7.54	17.99	32.85	26.77	17.70	7.50					

Summary 11.1

5.64 7.54 17.99 32.85 26.77 17.70 7.50

Peak Gross Irrigation Application (mm/day) = 32.85
On-Farm Irrigation Requirement (cfs/acre) = 0.054
Total On-Farm Irrigation Requirement (cfs) = 0.60
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field M
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							oct	AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep						mar	apr	may	jun	jul	aug	sep	
wheat	11.1	cor	29	0.75	1.7	5.55	8.26	6.78	1.35			1.52	1.12	4.2	2.90	6.57	21.43	31.90	26.18	5.21			

Summary 11.1

2.90 6.57 21.43 31.90 26.18 5.21

Peak Gross Irrigation Application (mm/day) = 31.90
On-Farm Irrigation Requirement (cfs/acre) = 0.053
Total On-Farm Irrigation Requirement (cfs) = 0.59
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field O
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
corn	14.3	fur	58	0	0	1.99	3.99	8.16	6.78	3.98	0.9	4.44	1.06	13.0			3.64	7.29	14.91	12.39	7.27	1.64		

Summary 14.3

3.64 7.29 14.91 12.39 7.27 1.64

Peak Gross Irrigation Application (mm/day) = 14.91
 On-Farm Irrigation Requirement (cfs/acre) = 0.025
 Total On-Farm Irrigation Requirement (cfs) = 0.35
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field O
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	14.3	fur	51	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	2.60	1.10	6.8	3.26	4.36	10.40	18.98	15.46	10.22	4.34			

Summary 14.3

3.26 4.36 10.40 18.98 15.46 10.22 4.34

Peak Gross Irrigation Application (mm/day) = 18.98
 On-Farm Irrigation Requirement (cfs/acre) = 0.031
 Total On-Farm Irrigation Requirement (cfs) = 0.45
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field P
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								oct	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	mar					apr	may	jun	jul	aug	sep	oct		
corn	37.1	fur	32	0	0	1.99	3.99	8.16	6.78	3.98	0.9	4.44	1.06	13.0		6.59	13.22	27.03	22.46	13.18	2.98			

Summary 37.1 6.59 13.22 27.03 22.46 13.18 2.98

Peak Gross Irrigation Application (mm/day) = 27.03
On-Farm Irrigation Requirement (cfs/acre) = 0.045
Total On-Farm Irrigation Requirement (cfs) = 1.66
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field P
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	37.1	fur	31	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	2.60	1.10	6.8	5.36	7.17	17.10	31.23	25.44	16.82	7.13			

Summary 37.1 5.36 7.17 17.10 31.23 25.44 16.82 7.13

Peak Gross Irrigation Application (mm/day) = 31.23
 On-Farm Irrigation Requirement (cfs/acre) = 0.052
 Total On-Farm Irrigation Requirement (cfs) = 1.92
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Q
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr).
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
corn	23.3	fur	44	0	0	1.99	3.99	8.16	6.78	3.98	0.9	3.07	1.09	8.8			4.93	9.88	20.21	16.80	9.86	2.23		

Summary 23.3

Peak Gross Irrigation Application (mm/day) = 20.21
 On-Farm Irrigation Requirement (cfs/acre) = 0.033
 Total On-Farm Irrigation Requirement (cfs) = 0.78
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

4.93 9.88 20.21 16.80 9.86 2.23

initials: MP Claimant = Haas Ditch Co. - Field Q
date: 01/18/06 Weather Station = Parma Exp. Station

[illegible]

initials: MP Claimant = Haas Ditch Co. - Field Q
date: 01/18/06 Weather Station = Parma Exp. Station

Summary	23.3
Peak Gross Irrigation Application (mm/day) =	26.97
On-Farm Irrigation Requirement (cfs/acre) =	0.045
Total On-Farm Irrigation Requirement (cfs) =	1.04
Irrigation Diversion Volume (ft/yr) =	0.00
Total Irrigation Diversion Volume (ac-ft/yr) =	0

initials: MP Claimant = Haas Ditch Co. - Field R
date: 01/18/06 Weather Station = Parma Exp. Station

[illegible]

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field S
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
corn	23.8	fur	51	0	0	1.99	3.99	8.16	6.78	3.98	0.9	2.24	1.11	6.3	4.33	8.68	17.76	14.76	8.66	1.96				

Summary 23.8

4.33 8.68 17.76 14.76 8.66 1.96

Peak Gross Irrigation Application (mm/day) = 17.76
 On-Farm Irrigation Requirement (cfs/acre) = 0.029
 Total On-Farm Irrigation Requirement (cfs) = 0.70
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field S

date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
past	23.8	cor	27	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61		1.88	1.11	6.3	3.49	14.88	20.93	26.15	28.04	23.52	17.97	10.73	

Summary 23.8 3.49 14.88 20.93 26.15 28.04 23.52 17.97 10.73

Peak Gross Irrigation Application (mm/day) = 28.04
 On-Farm Irrigation Requirement (cfs/acre) = 0.046
 Total On-Farm Irrigation Requirement (cfs) = 1.10
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field W
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
corn	56.9	fur	44	0	0	1.99	3.99	8.16	6.78	3.98	0.9		2.24	1.11	6.3		5.02	10.07	20.59	17.10	10.04	2.27		

Summary 56.9

5.02 10.07 20.59 17.10 10.04 2.27

Peak Gross Irrigation Application (mm/day) = 20.59
 On-Farm Irrigation Requirement (cfs/acre) = 0.034
 Total On-Farm Irrigation Requirement (cfs) = 1.94
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field W

date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct			
past	56.9	cor	29	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61		1.88	1.11	6.3	3.25	13.86	19.48	24.34	26.10	21.89	16.73	9.99			

Summary 56.9

3.25 13.86 19.48 24.34 26.10 21.89 16.73 9.99

Peak Gross Irrigation Application (mm/day) = 26.10
 On-Farm Irrigation Requirement (cfs/acre) = 0.043
 Total On-Farm Irrigation Requirement (cfs) = 2.46
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field X
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
corn	11.7	fur	37	0	0	1.99	3.99	8.16	6.78	3.98	0.9		1.52	1.12	4.2		6.02	12.08	24.70	20.52	12.05	2.72		

Summary 11.7

6.02 12.08 24.70 20.52 12.05 2.72

Peak Gross Irrigation Application (mm/day) = 24.70
 On-Farm Irrigation Requirement (cfs/acre) = 0.041
 Total On-Farm Irrigation Requirement (cfs) = 0.48
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field X
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)	
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug		sep
past	11.7	cor	22	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61	1.28	1.13	4.2	4.37	18.59	26.14	32.67	35.03	29.38	22.45	13.41	

Summary 11.7 4.37 18.59 26.14 32.67 35.03 29.38 22.45 13.41

Peak Gross Irrigation Application (mm/day) = 35.03
 On-Farm Irrigation Requirement (cfs/acre) = 0.058
 Total On-Farm Irrigation Requirement (cfs) = 0.68
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Y
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)										AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct	mar	apr					may	jun	jul	aug	sep	oct					
alf hay	23.7	cor	21	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		2.60	1.10	6.8	12.94	26.30	34.73	43.27	46.41	38.92	29.75	17.76					

Summary 23.7 12.94 26.30 34.73 43.27 46.41 38.92 29.75 17.76

Peak Gross Irrigation Application (mm/day) = 46.41
 On-Farm Irrigation Requirement (cfs/acre) = 0.077
 Total On-Farm Irrigation Requirement (cfs) = 1.82
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

initials: MP Claimant = Haas Ditch Co. - Field Y
date: 01/18/06 Weather Station = Parma Exp. Station

[illegible]

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Y

date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct			
past	23.7	cor	15	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61		1.88	1.11	6.3	6.29	26.79	37.67	47.06	50.47	42.33	32.34	19.31			

Summary 23.7

6.29 26.79 37.67 47.06 50.47 42.33 32.34 19.31

Peak Gross Irrigation Application (mm/day) = 50.47
 On-Farm Irrigation Requirement (cfs/acre) = 0.083
 Total On-Farm Irrigation Requirement (cfs) = 1.98
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

Field E: MwA, hay, corrugations

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 173.5 MINUTES; OR 2.9 HOURS
 GROSS APPLICATION <FG> = 5.20 INCHES
 NET APPLICATION <F_n> = 4.44 INCHES
 RUNOFF <RO> = 0.05 INCHES
 DEEP PERCOLATION <DP> = 2.55 INCHES
 EFFICIENCY <E> = 50.03 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field E: MwA, wheat, corrugations

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 173.5 MINUTES; OR 2.9 HOURS
 GROSS APPLICATION <FG> = 6.50 INCHES
 NET APPLICATION <F_n> = 5.55 INCHES
 RUNOFF <RO> = 0.06 INCHES
 DEEP PERCOLATION <DP> = 4.19 INCHES
 EFFICIENCY <E> = 34.48 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field E: MwA, sugar beets, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 288.4 MINUTES; OR 4.8 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <F_n> = 3.74 INCHES
 RUNOFF <RO> = 0.03 INCHES
 DEEP PERCOLATION <DP> = 2.42 INCHES
 EFFICIENCY <E> = 51.46 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field E: No, alfalfa hay, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <Fg> = 4.04 INCHES
 NET APPLICATION <F_n> = 3.25 INCHES
 RUNOFF <Ro> = 0.13 INCHES
 DEEP PERCOLATION <Dp> = 2.15 INCHES
 EFFICIENCY <E> = 43.54 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field E: No, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <Fg> = 5.05 INCHES
 NET APPLICATION <F_n> = 4.06 INCHES
 RUNOFF <Ro> = 0.16 INCHES
 DEEP PERCOLATION <Dp> = 3.37 INCHES
 EFFICIENCY <E> = 30.08 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field E: No, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 5.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 356.8 MINUTES; OR 5.9 HOURS
 GROSS APPLICATION <Fg> = 3.97 INCHES
 NET APPLICATION <F_n> = 2.60 INCHES
 RUNOFF <Ro> = 0.12 INCHES
 DEEP PERCOLATION <Dp> = 2.09 INCHES
 EFFICIENCY <E> = 44.33 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 5.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field F: MwA, corn, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 700 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 379.9 MINUTES; OR 6.3 HOURS
 GROSS APPLICATION <FG> = 4.95 INCHES
 NET APPLICATION <Fn> = 2.42 INCHES
 RUNOFF <RO> = 1.15 INCHES
 DEEP PERCOLATION <DP> = 1.56 INCHES
 EFFICIENCY <E> = 45.25 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 700 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field F: MwA, wheat, corrugations

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 700 FEET
 INFLOW RATE <Q> = 8.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 532.1 MINUTES; OR 8.9 HOURS
 GROSS APPLICATION <FG> = 6.60 INCHES
 NET APPLICATION <Fn> = 2.82 INCHES
 RUNOFF <RO> = 0.06 INCHES
 DEEP PERCOLATION <DP> = 4.30 INCHES
 EFFICIENCY <E> = 33.94 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 700 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 8.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field F: MwA, sugar beets, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 700 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 445.2 MINUTES; OR 7.4 HOURS
 GROSS APPLICATION <FG> = 7.01 INCHES
 NET APPLICATION <Fn> = 3.08 INCHES
 RUNOFF <RO> = 1.46 INCHES
 DEEP PERCOLATION <DP> = 2.95 INCHES
 EFFICIENCY <E> = 37.08 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 700 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field G1: MwA, alfalfa hay, corrugations

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 1000 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 1172.5 MINUTES; OR 19.5 HOURS
 GROSS APPLICATION <FG> = 9.24 INCHES
 NET APPLICATION <Fx> = 3.06 INCHES
 RUNOFF <RO> = 0.01 INCHES
 DEEP PERCOLATION <DP> = 6.63 INCHES
 EFFICIENCY <E> = 20.14 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 1000 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field G1: MwA, wheat, corrugations

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1000 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 1172.5 MINUTES; OR 19.5 HOURS
 GROSS APPLICATION <FG> = 11.55 INCHES
 NET APPLICATION <Fx> = 3.83 INCHES
 RUNOFF <RO> = 0.01 INCHES
 DEEP PERCOLATION <DP> = 9.30 INCHES
 EFFICIENCY <E> = 19.39 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1000 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field G1: MwA, sugar beets, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1000 FEET
 INFLOW RATE <Q> = 13.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 526.8 MINUTES; OR 8.8 HOURS
 GROSS APPLICATION <FG> = 7.51 INCHES
 NET APPLICATION <Fx> = 2.62 INCHES
 RUNOFF <RO> = 1.63 INCHES
 DEEP PERCOLATION <DP> = 3.28 INCHES
 EFFICIENCY <E> = 34.63 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1000 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 13.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field G1: No, alfalfa hay, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.76 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.50 FEET
FURROW LENGTH <L> = 1000 FEET
INFLOW RATE <Q> = 8.5 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 1199.1 MINUTES; OR 20.0 HOURS
GROSS APPLICATION <FG> = 7.05 INCHES
NET APPLICATION <Fn> = 2.26 INCHES
RUNOFF <RO> = 0.78 INCHES
DEEP PERCOLATION <DP> = 5.32 INCHES
EFFICIENCY <E> = 22.41 %
TO CHANGE:
  Design Application <1> PRESS (EXISTING) 1.76 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.50 ft
  Furrow Length <4> 1000 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 8.5 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field G1: No, wheat, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1000 FEET
INFLOW RATE <Q> = 0.5 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 1199.1 MINUTES; OR 20.0 HOURS
GROSS APPLICATION <FG> = 9.02 INCHES
NET APPLICATION <Fn> = 2.82 INCHES
RUNOFF <RO> = 0.97 INCHES
DEEP PERCOLATION <DP> = 7.33 INCHES
EFFICIENCY <E> = 15.48 %
TO CHANGE:
  Design Application <1> PRESS (EXISTING) 1.52 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1000 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 0.5 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field G1: No, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.76 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1000 FEET
INFLOW RATE <Q> = 11.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 546.7 MINUTES; OR 9.1 HOURS
GROSS APPLICATION <FG> = 6.35 INCHES
NET APPLICATION <Fn> = 1.95 INCHES
RUNOFF <RO> = 1.70 INCHES
DEEP PERCOLATION <DP> = 2.81 INCHES
EFFICIENCY <E> = 27.71 %
TO CHANGE:
  Design Application <1> PRESS (EXISTING) 1.76 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1000 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 11.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field G2: MwA, radish seed, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 0.59 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 500 FEET
INFLOW RATE <Q> = 5.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 586.3 MINUTES; OR 9.8 HOURS
GROSS APPLICATION <FG> = 5.77 INCHES
NET APPLICATION <Fn> = 1.68 INCHES
RUNOFF <RO> = 0.85 INCHES
DEEP PERCOLATION <DP> = 4.34 INCHES
EFFICIENCY <E> = 10.22 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 0.59 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 500 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 5.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field G2: MwA, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 500 FEET
INFLOW RATE <Q> = 6.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 329.0 MINUTES; OR 5.5 HOURS
GROSS APPLICATION <FG> = 4.62 INCHES
NET APPLICATION <Fn> = 2.48 INCHES
RUNOFF <RO> = 1.04 INCHES
DEEP PERCOLATION <DP> = 1.34 INCHES
EFFICIENCY <E> = 48.49 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 500 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 6.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field G2: MwA, wheat, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 500 FEET
INFLOW RATE <Q> = 5.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 427.8 MINUTES; OR 7.1 HOURS
GROSS APPLICATION <FG> = 6.35 INCHES
NET APPLICATION <Fn> = 3.56 INCHES
RUNOFF <RO> = 0.15 INCHES
DEEP PERCOLATION <DP> = 3.96 INCHES
EFFICIENCY <E> = 35.26 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 500 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 5.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field G2: MwA, sugar beets, furrows

M₅ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 5.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <Tt> = 427.8 MINUTES; OR 7.1 HOURS
 GROSS APPLICATION <FG> = 6.35 INCHES
 NET APPLICATION <Fx> = 2.97 INCHES
 RUNOFF <Ro> = 1.17 INCHES
 DEEP PERCOLATION <DP> = 2.58 INCHES
 EFFICIENCY <E> = 40.93 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field H: No, pasture, corrugations

M₅ FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.28 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 100 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <Tt> = 10.1 MINUTES; OR 0.2 HOURS
 GROSS APPLICATION <FG> = 17.32 INCHES
 NET APPLICATION <Fx> = 4.86 INCHES
 RUNOFF <Ro> = 12.43 INCHES
 DEEP PERCOLATION <DP> = 3.61 INCHES
 EFFICIENCY <E> = 7.39 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.28 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 100 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field I: No, barley, corrugations

M₅ FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <Tt> = 407.8 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <FG> = 4.95 INCHES
 NET APPLICATION <Fx> = 2.71 INCHES
 RUNOFF <Ro> = 0.47 INCHES
 DEEP PERCOLATION <DP> = 2.96 INCHES
 EFFICIENCY <E> = 30.71 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field I: No, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 350 FEET
INFLOW RATE <Q> = 3.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 407.8 MINUTES; OR 6.8 HOURS
GROSS APPLICATION <FG> = 3.30 INCHES
NET APPLICATION <Fx> = 1.54 INCHES
RUNOFF <Ro> = 0.74 INCHES
DEEP PERCOLATION <DP> = 1.04 INCHES
EFFICIENCY <E> = 46.06 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.52 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 350 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 3.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA WITH HEADING PRESS <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field I: No, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.76 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 350 FEET
INFLOW RATE <Q> = 3.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 407.8 MINUTES; OR 6.8 HOURS
GROSS APPLICATION <FG> = 4.95 INCHES
NET APPLICATION <Fx> = 2.32 INCHES
RUNOFF <Ro> = 1.11 INCHES
DEEP PERCOLATION <DP> = 2.08 INCHES
EFFICIENCY <E> = 35.56 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.76 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 350 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 3.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA WITH HEADING PRESS <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field I: MWA, barley, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 350 FEET
INFLOW RATE <Q> = 3.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 410.4 MINUTES; OR 6.8 HOURS
GROSS APPLICATION <FG> = 5.77 INCHES
NET APPLICATION <Fx> = 3.38 INCHES
RUNOFF <Ro> = 0.06 INCHES
DEEP PERCOLATION <DP> = 3.47 INCHES
EFFICIENCY <E> = 38.79 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 350 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 3.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA WITH HEADING PRESS <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field I: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 4.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 266.1 MINUTES; OR 4.4 HOURS
 GROSS APPLICATION <Fg> = 4.40 INCHES
 NET APPLICATION <Fv> = 2.58 INCHES
 RUNOFF <Ro> = 1.00 INCHES
 DEEP PERCOLATION <Dp> = 1.16 INCHES
 EFFICIENCY <E> = 50.91 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 4.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MOD>

TO PRINT: DATA/WITH HEADING PRESS <0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field I: MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 410.4 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <Fg> = 5.77 INCHES
 NET APPLICATION <Fv> = 2.87 INCHES
 RUNOFF <Ro> = 0.92 INCHES
 DEEP PERCOLATION <Dp> = 2.26 INCHES
 EFFICIENCY <E> = 45.02 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 3.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MOD>

TO PRINT: DATA/WITH HEADING PRESS <0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field J: MwA, barley, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 900 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 1055.3 MINUTES; OR 17.6 HOURS
 GROSS APPLICATION <Fg> = 11.55 INCHES
 NET APPLICATION <Fv> = 4.86 INCHES
 RUNOFF <Ro> = 0.13 INCHES
 DEEP PERCOLATION <Dp> = 9.18 INCHES
 EFFICIENCY <E> = 19.39 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 900 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MOD>

TO PRINT: DATA/WITH HEADING PRESS <0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field J: MwA, corn, furrows

M₅FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 900 FEET
 INFLOW RATE <Q> = 12.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 399.8 MINUTES; OR 6.7 HOURS
 GROSS APPLICATION <FG> = 5.35 INCHES
 NET APPLICATION <Fx> = 2.48 INCHES
 RUNOFF <Ro> = 1.33 INCHES
 DEEP PERCOLATION <DP> = 1.78 INCHES
 EFFICIENCY <E> = 41.89 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 900 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 12.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field J: MwA, sugar beets, furrows

M₅FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 900 FEET
 INFLOW RATE <Q> = 11.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 496.7 MINUTES; OR 8.3 HOURS
 GROSS APPLICATION <FG> = 7.38 INCHES
 NET APPLICATION <Fx> = 2.82 INCHES
 RUNOFF <Ro> = 1.59 INCHES
 DEEP PERCOLATION <DP> = 3.19 INCHES
 EFFICIENCY <E> = 35.24 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 900 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 11.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K1: MwA, corn, furrows

M₅FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 15.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 435.2 MINUTES; OR 7.3 HOURS
 GROSS APPLICATION <FG> = 5.50 INCHES
 NET APPLICATION <Fx> = 2.37 INCHES
 RUNOFF <Ro> = 1.37 INCHES
 DEEP PERCOLATION <DP> = 1.89 INCHES
 EFFICIENCY <E> = 40.73 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 15.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K1: MwA, wheat, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 9.5 GPM/FURROW
APPLICATION TIME <Ti> = 36 HOURS
*****
ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
GROSS APPLICATION <FG> = 15.67 INCHES
NET APPLICATION <F<>> = 4.94 INCHES
RUNOFF <RO> = 0.08 INCHES
DEEP PERCOLATION <DP> = 13.35 INCHES
EFFICIENCY <E> = 14.29 %
TO CHANGE:
  Design Application <1> PRESS (EXISTING) 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 9.5 gpm/furrow
  Inflow Time <7> 36 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: MwA, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 14.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 517.5 MINUTES; OR 8.6 HOURS
GROSS APPLICATION <FG> = 7.70 INCHES
NET APPLICATION <F<>> = 2.75 INCHES
RUNOFF <RO> = 1.72 INCHES
DEEP PERCOLATION <DP> = 3.38 INCHES
EFFICIENCY <E> = 33.77 %
TO CHANGE:
  Design Application <1> PRESS (EXISTING) 2.60 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 14.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: No, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 12.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 468.5 MINUTES; OR 7.8 HOURS
GROSS APPLICATION <FG> = 4.58 INCHES
NET APPLICATION <F<>> = 1.72 INCHES
RUNOFF <RO> = 1.40 INCHES
DEEP PERCOLATION <DP> = 1.66 INCHES
EFFICIENCY <E> = 33.17 %
TO CHANGE:
  Design Application <1> PRESS (EXISTING) 1.52 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 12.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: No, wheat, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 9.0 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 1223.3 MINUTES; OR 20.4 HOURS
GROSS APPLICATION <FG> = 9.90 INCHES
NET APPLICATION <Fx> = 2.66 INCHES
RUNOFF <RO> = 0.97 INCHES
DEEP PERCOLATION <DP> = 7.41 INCHES
EFFICIENCY <E> = 15.35 %
TO CHANGE:
Design Application <1> PRESS (EXISTING) 1.52 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1050 ft
Furrow Intake Family <5> 0.55
Inflow Rate <6> 9.0 gpm/furrow
Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: No, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.76 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 12.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 519.3 MINUTES; OR 8.7 HOURS
GROSS APPLICATION <FG> = 6.60 INCHES
NET APPLICATION <Fx> = 2.19 INCHES
RUNOFF <RO> = 1.92 INCHES
DEEP PERCOLATION <DP> = 2.92 INCHES
EFFICIENCY <E> = 26.67 %
TO CHANGE:
Design Application <1> PRESS (EXISTING) 1.76 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1050 ft
Furrow Intake Family <5> 0.55
Inflow Rate <6> 12.0 gpm/furrow
Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: BdA, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 4.44 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 42.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 82.8 MINUTES; OR 1.4 HOURS
GROSS APPLICATION <FG> = 15.40 INCHES
NET APPLICATION <Fx> = 4.44 INCHES
RUNOFF <RO> = 10.71 INCHES
DEEP PERCOLATION <DP> = 0.25 INCHES
EFFICIENCY <E> = 28.83 %
TO CHANGE:
Design Application <1> PRESS (EXISTING) 4.44 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 3.00 ft
Furrow Length <4> 1050 ft
Furrow Intake Family <5> 0.55
Inflow Rate <6> 42.0 gpm/furrow
Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: BdA, wheat, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 4.44 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 10.0 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 868.3 MINUTES; OR 14.5 HOURS
GROSS APPLICATION <FG> = 11.00 INCHES
NET APPLICATION <Fx> = 5.40 INCHES
RUNOFF <RO> = 1.49 INCHES
DEEP PERCOLATION <DP> = 5.07 INCHES
EFFICIENCY <E> = 40.37 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 4.44 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 10.0 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: BdA, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 5.42 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 24.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 139.9 MINUTES; OR 2.3 HOURS
GROSS APPLICATION <FG> = 13.47 INCHES
NET APPLICATION <Fx> = 5.43 INCHES
RUNOFF <RO> = 7.44 INCHES
DEEP PERCOLATION <DP> = 0.62 INCHES
EFFICIENCY <E> = 40.22 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 5.42 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 24.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K2: MwA, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1300 FEET
INFLOW RATE <Q> = 20.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 453.0 MINUTES; OR 7.6 HOURS
GROSS APPLICATION <FG> = 5.92 INCHES
NET APPLICATION <Fx> = 2.42 INCHES
RUNOFF <RO> = 1.57 INCHES
DEEP PERCOLATION <DP> = 2.12 INCHES
EFFICIENCY <E> = 37.02 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1300 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 20.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K2: MwA, wheat, corrugations

```

M5 FURROW
Auto
OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY
INCREASING 'Q'.
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.24 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1300 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 10.0 gpm/furrow
Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? 7
INFLOW TIME? 36
OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY
INCREASING 'Q'.
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.24 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1300 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 10.0 gpm/furrow
Inflow Time <7> 36 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K2: MwA, wheat, furrows, split furrow lengths to 650 ft

```

M5 FURROW
Auto
INTAKE FAMILY <IF> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 7.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 480.1 MINUTES; OR 8.0 HOURS
GROSS APPLICATION <FG> = 6.66 INCHES
NET APPLICATION <Fx> = 3.31 INCHES
RUNOFF <RO> = 0.13 INCHES
DEEP PERCOLATION <DP> = 4.29 INCHES
EFFICIENCY <E> = 33.62 %
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.24 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 650 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 7.5 gpm/furrow
Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K2: MwA, sugar beets, furrows

```

M5 FURROW
Auto
INTAKE FAMILY <IF> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1300 FEET
INFLOW RATE <Q> = 18.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 543.8 MINUTES; OR 9.1 HOURS
GROSS APPLICATION <FG> = 8.22 INCHES
NET APPLICATION <Fx> = 2.65 INCHES
RUNOFF <RO> = 1.95 INCHES
DEEP PERCOLATION <DP> = 3.67 INCHES
EFFICIENCY <E> = 31.64 %
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.60 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1300 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 18.5 gpm/furrow
Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K2: BdA, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 4.44 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1300 FEET
INFLOW RATE <Q> = 47.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 109.9 MINUTES; OR 1.8 HOURS
GROSS APPLICATION <FG> = 14.07 INCHES
NET APPLICATION <Fv> = 4.45 INCHES
RUNOFF <RO> = 9.27 INCHES
DEEP PERCOLATION <DP> = 0.36 INCHES
EFFICIENCY <E> = 31.56 %
TO CHANGE:
  Design Application    <1> 4.44 in
  Furrow Slope          <2> 0.002 ft/ft
  Furrow Spacing        <3> 3.00 ft
  Furrow Length         <4> 1300 ft
  Furrow Intake Family  <5> 0.55
  Inflow Rate           <6> 47.5 gpm/furrow
  Inflow Time           <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K2: BdA, wheat, corrugations

```

M3 FURROW
Auto
OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY
INCREASING 'Q'.
TO CHANGE:
  Design Application    <1> 4.44 in
  Furrow Slope          <2> 0.002 ft/ft
  Furrow Spacing        <3> 2.00 ft
  Furrow Length         <4> 1300 ft
  Furrow Intake Family  <5> 0.55
  Inflow Rate           <6> 10.0 gpm/furrow
  Inflow Time           <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? 7
INFLOW TIME? 36
OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY
INCREASING 'Q'.
TO CHANGE:
  Design Application    <1> 4.44 in
  Furrow Slope          <2> 0.002 ft/ft
  Furrow Spacing        <3> 2.00 ft
  Furrow Length         <4> 1300 ft
  Furrow Intake Family  <5> 0.55
  Inflow Rate           <6> 10.0 gpm/furrow
  Inflow Time           <7> 36 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K2: BdA, wheat, corrugations, field split into 650 ft lengths

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 4.44 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 8.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 232.5 MINUTES; OR 3.9 HOURS
GROSS APPLICATION <FG> = 7.55 INCHES
NET APPLICATION <Fv> = 4.63 INCHES
RUNOFF <RO> = 1.01 INCHES
DEEP PERCOLATION <DP> = 1.31 INCHES
EFFICIENCY <E> = 58.80 %
TO CHANGE:
  Design Application    <1> 4.44 in
  Furrow Slope          <2> 0.002 ft/ft
  Furrow Spacing        <3> 2.00 ft
  Furrow Length         <4> 650 ft
  Furrow Intake Family  <5> 0.55
  Inflow Rate           <6> 8.5 gpm/furrow
  Inflow Time           <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K2: BdA, sugar beets, furrows

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 5.42 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1300 FEET
INFLOW RATE <Q> = 30.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 175.6 MINUTES; OR 2.9 HOURS
GROSS APPLICATION <FG> = 13.33 INCHES
NET APPLICATION <Fx> = 5.45 INCHES
RUNOFF <RO> = 7.06 INCHES
DEEP PERCOLATION <DP> = 0.85 INCHES
EFFICIENCY <E> = 40.67 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 5.42 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1300 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 30.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field L: MwA, pasture, corrugations

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 1.88 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 200 FEET
INFLOW RATE <Q> = 3.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 73.8 MINUTES; OR 1.2 HOURS
GROSS APPLICATION <FG> = 0.66 INCHES
NET APPLICATION <Fx> = 5.62 INCHES
RUNOFF <RO> = 2.70 INCHES
DEEP PERCOLATION <DP> = 4.08 INCHES
EFFICIENCY <E> = 21.70 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.88 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 200 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 3.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field L: No, pasture, corrugations

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.28 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 200 FEET
INFLOW RATE <Q> = 3.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 53.6 MINUTES; OR 0.9 HOURS
GROSS APPLICATION <FG> = 8.66 INCHES
NET APPLICATION <Fx> = 4.65 INCHES
RUNOFF <RO> = 3.03 INCHES
DEEP PERCOLATION <DP> = 3.56 INCHES
EFFICIENCY <E> = 14.78 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.28 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 200 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 3.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field M: No, alfalfa hay, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.76 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.50 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 6.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 464.1 MINUTES; OR 7.7 HOURS
GROSS APPLICATION <FG> = 4.62 INCHES
NET APPLICATION <F<sub>N</sub>> = 2.21 INCHES
RUNOFF <RO> = 0.51 INCHES
DEEP PERCOLATION <DP> = 2.35 INCHES
EFFICIENCY <E> = 38.10 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.76 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.50 ft
  Furrow Length <4> 650 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 6.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field M: No, wheat, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 6.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 592.8 MINUTES; OR 9.9 HOURS
GROSS APPLICATION <FG> = 5.33 INCHES
NET APPLICATION <F<sub>N</sub>> = 1.69 INCHES
RUNOFF <RO> = 0.43 INCHES
DEEP PERCOLATION <DP> = 3.38 INCHES
EFFICIENCY <E> = 28.51 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.52 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 650 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 6.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field M: No, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.76 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 6.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 464.1 MINUTES; OR 7.7 HOURS
GROSS APPLICATION <FG> = 5.77 INCHES
NET APPLICATION <F<sub>N</sub>> = 2.29 INCHES
RUNOFF <RO> = 1.52 INCHES
DEEP PERCOLATION <DP> = 2.50 INCHES
EFFICIENCY <E> = 30.48 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.76 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 650 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 6.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field M: BdA, alfalfa hay, corrugations

```

MS FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 5.42 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.50 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 6.5 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 464.1 MINUTES; OR 7.7 HOURS
GROSS APPLICATION <FG> = 9.24 INCHES
NET APPLICATION <F<>> = 5.75 INCHES
RUNOFF <RO> = 2.01 INCHES
DEEP PERCOLATION <DP> = 1.81 INCHES
EFFICIENCY <E> = 58.66 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 5.42 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.50 ft
  Furrow Length <4> 650 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 6.5 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field M: BdA, wheat, corrugations

```

MS FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 4.44 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 8.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 232.5 MINUTES; OR 3.9 HOURS
GROSS APPLICATION <FG> = 7.55 INCHES
NET APPLICATION <F<>> = 4.63 INCHES
RUNOFF <RO> = 1.81 INCHES
DEEP PERCOLATION <DP> = 1.31 INCHES
EFFICIENCY <E> = 58.80 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 4.44 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 650 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 8.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field M: BdA, sugar beets, furrows

```

MS FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 5.42 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 17.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 73.2 MINUTES; OR 1.2 HOURS
GROSS APPLICATION <FG> = 15.55 INCHES
NET APPLICATION <F<>> = 5.43 INCHES
RUNOFF <RO> = 9.04 INCHES
DEEP PERCOLATION <DP> = 0.29 INCHES
EFFICIENCY <E> = 34.86 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 5.42 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 650 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 17.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field N: MwA, radish seed, furrows

```

FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 0.59 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 450 FEET
INFLOW RATE <Q> = 4.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 527.6 MINUTES; OR 8.8 HOURS
GROSS APPLICATION <Fg> = 5.77 INCHES
NET APPLICATION <F<= 2.13 INCHES
RUNOFF <Ro> = 0.86 INCHES
DEEP PERCOLATION <Dp> = 4.33 INCHES
EFFICIENCY <E> = 10.22 %
TO CHANGE:
Design Application    PRESS (EXISTING)
Furrow Slope          <1> 0.59 in
Furrow Spacing         <2> 0.002 ft/ft
Furrow Length          <3> 2.00 ft
Furrow Intake Family   <4> 450 ft
Inflow Rate            <5> 0.70
Inflow Time            <6> 4.5 gpm/furrow
Inflow Time            <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS: <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field N: MwA, corn, furrows

```

FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 450 FEET
INFLOW RATE <Q> = 5.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 200.9 MINUTES; OR 4.7 HOURS
GROSS APPLICATION <Fg> = 4.71 INCHES
NET APPLICATION <F<= 2.66 INCHES
RUNOFF <Ro> = 1.14 INCHES
DEEP PERCOLATION <Dp> = 1.33 INCHES
EFFICIENCY <E> = 47.61 %
TO CHANGE:
Design Application    PRESS (EXISTING)
Furrow Slope          <1> 2.24 in
Furrow Spacing         <2> 0.002 ft/ft
Furrow Length          <3> 3.00 ft
Furrow Intake Family   <4> 450 ft
Inflow Rate            <5> 0.70
Inflow Time            <6> 5.5 gpm/furrow
Inflow Time            <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS: <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field N: MwA, wheat, corrugations

```

FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 450 FEET
INFLOW RATE <Q> = 5.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 373.1 MINUTES; OR 6.2 HOURS
GROSS APPLICATION <Fg> = 6.42 INCHES
NET APPLICATION <F<= 3.31 INCHES
RUNOFF <Ro> = 1.25 INCHES
DEEP PERCOLATION <Dp> = 2.92 INCHES
EFFICIENCY <E> = 34.91 %
TO CHANGE:
Design Application    PRESS (EXISTING)
Furrow Slope          <1> 2.24 in
Furrow Spacing         <2> 0.002 ft/ft
Furrow Length          <3> 2.00 ft
Furrow Intake Family   <4> 450 ft
Inflow Rate            <5> 0.70
Inflow Time            <6> 5.0 gpm/furrow
Inflow Time            <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS: <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field N: MwA, sugar beets, furrows

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 450 FEET
INFLOW RATE <Q> = 5.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 373.1 MINUTES; OR 6.2 HOURS
GROSS APPLICATION <FG> = 6.42 INCHES
NET APPLICATION <F> = 3.31 INCHES
RUNOFF <RO> = 1.25 INCHES
DEEP PERCOLATION <DP> = 2.56 INCHES
EFFICIENCY <E> = 40.52 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 450 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 5.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field O: MvA, sugar beets, furrows

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.005 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 800 FEET
INFLOW RATE <Q> = 7.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 359.8 MINUTES; OR 6.0 HOURS
GROSS APPLICATION <FG> = 5.05 INCHES
NET APPLICATION <F> = 3.34 INCHES
RUNOFF <RO> = 0.04 INCHES
DEEP PERCOLATION <DP> = 2.41 INCHES
EFFICIENCY <E> = 51.46 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.005 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 800 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 7.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field O: MvA, corn, furrows

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.005 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 800 FEET
INFLOW RATE <Q> = 7.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 303.6 MINUTES; OR 5.1 HOURS
GROSS APPLICATION <FG> = 3.61 INCHES
NET APPLICATION <F> = 2.50 INCHES
RUNOFF <RO> = 0.18 INCHES
DEEP PERCOLATION <DP> = 1.19 INCHES
EFFICIENCY <E> = 62.06 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.005 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 800 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 7.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field O: BdA, sugar beets, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.005 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 6.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 360.4 MINUTES; OR 6.0 HOURS
 GROSS APPLICATION <FG> = 0.66 INCHES
 NET APPLICATION <F<=> = 5.86 INCHES
 RUNOFF <RO> = 1.77 INCHES
 DEEP PERCOLATION <DP> = 1.47 INCHES
 EFFICIENCY <E> = 62.57 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.005 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field O: BdA, corn, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.005 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 8.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 194.0 MINUTES; OR 3.2 HOURS
 GROSS APPLICATION <FG> = 7.70 INCHES
 NET APPLICATION <F<=> = 4.55 INCHES
 RUNOFF <RO> = 2.79 INCHES
 DEEP PERCOLATION <DP> = 0.47 INCHES
 EFFICIENCY <E> = 57.66 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.005 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 8.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: MvA, sugar beets, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.40 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 19.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 544.8 MINUTES; OR 9.1 HOURS
 GROSS APPLICATION <FG> = 8.34 INCHES
 NET APPLICATION <F<=> = 2.67 INCHES
 RUNOFF <RO> = 2.00 INCHES
 DEEP PERCOLATION <DP> = 3.74 INCHES
 EFFICIENCY <E> = 31.17 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.40 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 19.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: MvA, corn, furrows

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 21.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 458.9 MINUTES; OR 7.6 HOURS
 GROSS APPLICATION <FG> = 5.99 INCHES
 NET APPLICATION <F<>> = 2.41 INCHES
 RUNOFF <RO> = 1.59 INCHES
 DEEP PERCOLATION <DP> = 2.15 INCHES
 EFFICIENCY <E> = 37.40 %

TO CHANGE:

	PRESS	(EXISTING)
Design Application	<1>	2.24 in
Furrow Slope	<2>	0.002 ft/ft
Furrow Spacing	<3>	3.00 ft
Furrow Length	<4>	1350 ft
Furrow Intake Family	<5>	0.70
Inflow Rate	<6>	21.0 gpm/furrow
Inflow Time	<7>	12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: BdA, sugar beets, furrows

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 31.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 103.6 MINUTES; OR 3.1 HOURS
 GROSS APPLICATION <FG> = 13.26 INCHES
 NET APPLICATION <F<>> = 5.44 INCHES
 RUNOFF <RO> = 6.96 INCHES
 DEEP PERCOLATION <DP> = 0.88 INCHES
 EFFICIENCY <E> = 40.87 %

TO CHANGE:

	PRESS	(EXISTING)
Design Application	<1>	5.42 in
Furrow Slope	<2>	0.002 ft/ft
Furrow Spacing	<3>	2.00 ft
Furrow Length	<4>	1350 ft
Furrow Intake Family	<5>	0.55
Inflow Rate	<6>	31.0 gpm/furrow
Inflow Time	<7>	12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: BdA, corn, furrows

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 48.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 115.7 MINUTES; OR 1.9 HOURS
 GROSS APPLICATION <FG> = 13.83 INCHES
 NET APPLICATION <F<>> = 4.45 INCHES
 RUNOFF <RO> = 9.02 INCHES
 DEEP PERCOLATION <DP> = 0.38 INCHES
 EFFICIENCY <E> = 32.10 %

TO CHANGE:

	PRESS	(EXISTING)
Design Application	<1>	4.44 in
Furrow Slope	<2>	0.002 ft/ft
Furrow Spacing	<3>	3.00 ft
Furrow Length	<4>	1350 ft
Furrow Intake Family	<5>	0.55
Inflow Rate	<6>	48.5 gpm/furrow
Inflow Time	<7>	12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: MvA/MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 288.4 MINUTES; OR 4.8 HOURS
 GROSS APPLICATION <FG> = 3.37 INCHES
 NET APPLICATION <Fx> = 2.49 INCHES
 RUNOFF <RO> = 0.02 INCHES
 DEEP PERCOLATION <DP> = 1.11 INCHES
 EFFICIENCY <E> = 66.50 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: MvA/MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 208.4 MINUTES; OR 3.4 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <Fx> = 3.74 INCHES
 RUNOFF <RO> = 0.03 INCHES
 DEEP PERCOLATION <DP> = 2.42 INCHES
 EFFICIENCY <E> = 51.46 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: MvA/MwA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 173.5 MINUTES; OR 2.9 HOURS
 GROSS APPLICATION <FG> = 6.50 INCHES
 NET APPLICATION <Fx> = 5.55 INCHES
 RUNOFF <RO> = 0.06 INCHES
 DEEP PERCOLATION <DP> = 4.19 INCHES
 EFFICIENCY <E> = 34.48 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: OgA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.07 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 14.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 77.1 MINUTES; OR 1.3 HOURS
 GROSS APPLICATION <FG> = 6.90 INCHES
 NET APPLICATION <Fx> = 3.08 INCHES
 RUNOFF <RO> = 3.73 INCHES
 DEEP PERCOLATION <DP> = 0.18 INCHES
 EFFICIENCY <E> = 44.00 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.07 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 14.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field Q: OgA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.34 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <Fx> = 3.44 INCHES
 RUNOFF <RO> = 0.92 INCHES
 DEEP PERCOLATION <DP> = 0.79 INCHES
 EFFICIENCY <E> = 66.10 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.34 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field Q: OgA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.07 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <Fx> = 4.06 INCHES
 RUNOFF <RO> = 0.16 INCHES
 DEEP PERCOLATION <DP> = 1.82 INCHES
 EFFICIENCY <E> = 60.76 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.07 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field R: MvA, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.003 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1100 FEET
INFLOW RATE <Q> = 13.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 404.2 MINUTES; OR 6.7 HOURS
GROSS APPLICATION <Fg> = 4.72 INCHES
NET APPLICATION <Fn> = 2.39 INCHES
RUNOFF <Ro> = 0.84 INCHES
DEEP PERCOLATION <Dp> = 1.65 INCHES
EFFICIENCY <E> = 47.41 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.003 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1100 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 13.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field R: MvA, pasture, corrugations, split furrows into 550 ft lengths

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.003 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1100 FEET
INFLOW RATE <Q> = 11.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 450.1 MINUTES; OR 7.6 HOURS
GROSS APPLICATION <Fg> = 3.85 INCHES
NET APPLICATION <Fn> = 1.65 INCHES
RUNOFF <Ro> = 0.87 INCHES
DEEP PERCOLATION <Dp> = 1.46 INCHES
EFFICIENCY <E> = 39.48 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.52 in
  Furrow Slope <2> 0.003 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1100 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 11.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field R: No, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.28 INCHES
FURROW SLOPE <S> = 0.003 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1100 FEET
INFLOW RATE <Q> = 10.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 502.3 MINUTES; OR 9.7 HOURS
GROSS APPLICATION <Fg> = 5.25 INCHES
NET APPLICATION <Fn> = 1.91 INCHES
RUNOFF <Ro> = 0.07 INCHES
DEEP PERCOLATION <Dp> = 3.90 INCHES
EFFICIENCY <E> = 24.38 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.28 in
  Furrow Slope <2> 0.003 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1100 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 10.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field R: No, pasture, corrugations

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.003 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1100 FEET
 INFLOW RATE <Q> = 11.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 458.1 MINUTES; OR 7.6 HOURS
 GROSS APPLICATION <Fg> = 3.05 INCHES
 NET APPLICATION <F_n> = 1.65 INCHES
 RUNOFF <Ro> = 0.87 INCHES
 DEEP PERCOLATION <Dp> = 1.46 INCHES
 EFFICIENCY <E> = 39.48 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.003 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1100 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 11.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field S: MvA, pasture, corrugations

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 1.88 INCHES
 FURROW SLOPE <S> = 0.003 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 290.4 MINUTES; OR 4.8 HOURS
 GROSS APPLICATION <Fg> = 6.93 INCHES
 NET APPLICATION <F_n> = 5.02 INCHES
 RUNOFF <Ro> = 0.17 INCHES
 DEEP PERCOLATION <Dp> = 4.88 INCHES
 EFFICIENCY <E> = 27.13 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.88 in
 Furrow Slope <2> 0.003 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field S: MvA, corn, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.003 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 333.6 MINUTES; OR 5.6 HOURS
 GROSS APPLICATION <Fg> = 4.36 INCHES
 NET APPLICATION <F_n> = 2.53 INCHES
 RUNOFF <Ro> = 0.72 INCHES
 DEEP PERCOLATION <Dp> = 1.40 INCHES
 EFFICIENCY <E> = 51.34 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.003 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field W: OgA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.07 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 13.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 154.5 MINUTES; OR 2.6 HOURS
 GROSS APPLICATION <Fg> = 6.67 INCHES
 NET APPLICATION <Fn> = 3.07 INCHES
 RUNOFF <Ro> = 3.19 INCHES
 DEEP PERCOLATION <Dp> = 0.41 INCHES
 EFFICIENCY <E> = 46.01 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.07 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 13.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field W: OgA, pasture, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 2.80 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 8.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 445.7 MINUTES; OR 7.4 HOURS
 GROSS APPLICATION <Fg> = 6.16 INCHES
 NET APPLICATION <Fn> = 3.04 INCHES
 RUNOFF <Ro> = 0.78 INCHES
 DEEP PERCOLATION <Dp> = 2.50 INCHES
 EFFICIENCY <E> = 45.46 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.80 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 8.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field W: MvA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 369.7 MINUTES; OR 6.2 HOURS
 GROSS APPLICATION <Fg> = 5.13 INCHES
 NET APPLICATION <Fn> = 2.53 INCHES
 RUNOFF <Ro> = 1.25 INCHES
 DEEP PERCOLATION <Dp> = 1.64 INCHES
 EFFICIENCY <E> = 43.64 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field W: MvA, pasture, corrugations

M3 FURROW

Auto

INTAKE FAMILY <IF> = 0.70
 DESIGN APPLICATION <Fn> = 1.00 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 584.9 MINUTES; OR 9.7 HOURS
 GROSS APPLICATION <FG> = 6.54 INCHES
 NET APPLICATION <F_n> = 2.28 INCHES
 RUNOFF <RO> = 0.00 INCHES
 DEEP PERCOLATION <DP> = 4.66 INCHES
 EFFICIENCY <E> = 28.73 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.00 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field X: MvA, corn, furrows

M3 FURROW

Auto

INTAKE FAMILY <IF> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 369.7 MINUTES; OR 6.2 HOURS
 GROSS APPLICATION <FG> = 5.13 INCHES
 NET APPLICATION <F_n> = 2.53 INCHES
 RUNOFF <RO> = 1.25 INCHES
 DEEP PERCOLATION <DP> = 1.64 INCHES
 EFFICIENCY <E> = 43.64 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field X: MvA, pasture, corrugations

M3 FURROW

Auto

INTAKE FAMILY <IF> = 0.70
 DESIGN APPLICATION <Fn> = 1.00 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 584.9 MINUTES; OR 9.7 HOURS
 GROSS APPLICATION <FG> = 6.54 INCHES
 NET APPLICATION <F_n> = 2.28 INCHES
 RUNOFF <RO> = 0.00 INCHES
 DEEP PERCOLATION <DP> = 4.66 INCHES
 EFFICIENCY <E> = 28.73 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.00 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field X: No, corn, furrows

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 750 FEET
INFLOW RATE <Q> = 8.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 445.7 MINUTES; OR 7.4 HOURS
GROSS APPLICATION <FG> = 4.11 INCHES
NET APPLICATION <F<sub>N</sub>> = 1.67 INCHES
RUNOFF <RO> = 1.15 INCHES
DEEP PERCOLATION <DP> = 1.43 INCHES
EFFICIENCY <E> = 37.01 %
TO CHANGE:
Design Application <1> PRESS (EXISTING) 1.52 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 3.00 ft
Furrow Length <4> 750 ft
Furrow Intake Family <5> 0.55
Inflow Rate <6> 8.0 gpm/furrow
Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<0/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field X: No, pasture, corrugations

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.28 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 750 FEET
INFLOW RATE <Q> = 7.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 535.5 MINUTES; OR 8.9 HOURS
GROSS APPLICATION <FG> = 5.77 INCHES
NET APPLICATION <F<sub>N</sub>> = 2.28 INCHES
RUNOFF <RO> = 0.57 INCHES
DEEP PERCOLATION <DP> = 3.92 INCHES
EFFICIENCY <E> = 22.17 %
TO CHANGE:
Design Application <1> PRESS (EXISTING) 1.28 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 750 ft
Furrow Intake Family <5> 0.55
Inflow Rate <6> 7.5 gpm/furrow
Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<0/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field Y: MvA/MwA, alfalfa hay, corrugations

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.50 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 9.5 GPM/FURROW
APPLICATION TIME <Ti> = 36 HOURS
*****
ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
GROSS APPLICATION <FG> = 12.54 INCHES
NET APPLICATION <F<sub>N</sub>> = 3.95 INCHES
RUNOFF <RO> = 0.06 INCHES
DEEP PERCOLATION <DP> = 9.87 INCHES
EFFICIENCY <E> = 20.73 %
TO CHANGE:
Design Application <1> PRESS (EXISTING) 2.60 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.50 ft
Furrow Length <4> 1050 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 9.5 gpm/furrow
Inflow Time <7> 36 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<0/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field Y: MvA/MwA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 9.5 GPM/FURROW
 APPLICATION TIME <Ti> = 36 HOURS

 ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
 GROSS APPLICATION <FG> = 15.67 INCHES
 NET APPLICATION <F_N> = 4.94 INCHES
 RUNOFF <RO> = 0.08 INCHES
 DEEP PERCOLATION <DP> = 13.35 INCHES
 EFFICIENCY <E> = 14.29 %

TO CHANGE: PRESS (EXISTING)

Design Application	<1>	2.24 in
Furrow Slope	<2>	0.002 ft/ft
Furrow Spacing	<3>	2.00 ft
Furrow Length	<4>	1050 ft
Furrow Intake Family	<5>	0.70
Inflow Rate	<6>	9.5 gpm/furrow
Inflow Time	<7>	36 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Y: MvA/MwA, pasture, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 1.88 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 9.5 GPM/FURROW
 APPLICATION TIME <Ti> = 36 HOURS

 ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
 GROSS APPLICATION <FG> = 15.67 INCHES
 NET APPLICATION <F_N> = 4.94 INCHES
 RUNOFF <RO> = 0.08 INCHES
 DEEP PERCOLATION <DP> = 13.71 INCHES
 EFFICIENCY <E> = 11.99 %

TO CHANGE: PRESS (EXISTING)

Design Application	<1>	1.88 in
Furrow Slope	<2>	0.002 ft/ft
Furrow Spacing	<3>	2.00 ft
Furrow Length	<4>	1050 ft
Furrow Intake Family	<5>	0.70
Inflow Rate	<6>	9.5 gpm/furrow
Inflow Time	<7>	36 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field A: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 6.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 329.0 MINUTES; OR 5.5 HOURS
 GROSS APPLICATION <FG> = 4.62 INCHES
 NET APPLICATION <Fx> = 2.48 INCHES
 RUNOFF <RO> = 1.06 INCHES
 DEEP PERCOLATION <DP> = 1.34 INCHES
 EFFICIENCY <E> = 40.49 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 6.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field B: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 10.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 410.9 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <Fx> = 2.33 INCHES
 RUNOFF <RO> = 1.18 INCHES
 DEEP PERCOLATION <DP> = 1.64 INCHES
 EFFICIENCY <E> = 44.33 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field C: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 200 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 73.8 MINUTES; OR 1.2 HOURS
 GROSS APPLICATION <FG> = 5.77 INCHES
 NET APPLICATION <Fx> = 3.20 INCHES
 RUNOFF <RO> = 2.37 INCHES
 DEEP PERCOLATION <DP> = 1.16 INCHES
 EFFICIENCY <E> = 30.79 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 200 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field D: MWA, corn, furrows

M3 FURROW
Auto

INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <F> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 400 FEET
INFLOW RATE <Q> = 4.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <Ti> = 319.1 MINUTES; OR 5.3 HOURS
GROSS APPLICATION <FG> = 4.33 INCHES
NET APPLICATION <F> = 2.41 INCHES
RUNOFF <RO> = 0.90 INCHES
DEEP PERCOLATION <DP> = 1.19 INCHES
EFFICIENCY <E> = 51.22 %
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.24 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 3.00 ft
Furrow Length <4> 400 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 4.5 gpm/furrow
Inflow Line <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA WITH HEADING PRESS <0/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

80th Percentile Values of Monthly ET (mm/day)

Station: Parma Exp. Station

		ETR	ALFH	ALFS	BEANS	F CRN	SILGE	S CRN	PEAS	POTAT	SBEET	SGRAN	WGRAN	PAST	ORCHD	VEGES	ONION	HOPS
March	AVE ET	2.23		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	1.38	0.77	0.00	0.00	0.00	0.00
March	STDD ET	0.29		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18	0.10	0.00	0.00	0.00	0.00
March	80PCT ET	2.47	U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.53	0.85	0.00	0.00	0.00	0.00
			S															
April	AVE ET	4.67	E	3.64	0.00	0.00	0.00	0.00	1.53	1.40	1.40	1.58	4.53	3.37	2.04	0.00	1.54	1.46
April	STDD ET	0.42		0.33	0.00	0.00	0.00	0.00	0.14	0.13	0.13	0.14	0.41	0.30	0.18	0.00	0.14	0.13
April	80PCT ET	5.02		3.92	0.00	0.00	0.00	0.00	1.65	1.51	1.51	1.70	4.88	3.62	2.19	0.00	1.66	1.57
			E															
May	AVE ET	6.24	T	5.61	1.87	1.87	1.87	1.87	4.41	2.39	1.90	5.23	6.24	4.80	4.10	1.98	3.17	4.37
May	STDD ET	0.46	R	0.41	0.14	0.14	0.14	0.14	0.32	0.18	0.14	0.38	0.46	0.35	0.30	0.15	0.23	0.32
May	80PCT ET	6.63		5.96	1.99	1.99	1.99	1.99	4.68	2.54	2.02	5.55	6.63	5.09	4.35	2.11	3.36	4.64
June	AVE ET	7.86	F	6.73	4.17	3.80	3.80	3.97	5.59	6.05	4.58	7.86	7.85	6.05	6.51	4.53	5.24	7.46
June	STDD ET	0.48	O	0.41	0.25	0.23	0.23	0.24	0.34	0.37	0.28	0.48	0.48	0.37	0.39	0.27	0.32	0.45
June	80PCT ET	8.26	R	7.08	4.38	3.99	3.99	4.17	5.88	6.36	4.82	8.26	8.25	6.36	6.84	4.76	5.51	7.84
July	AVE ET	8.58		5.28	7.92	7.91	7.91	7.87	2.17	7.13	8.52	6.57	4.99	6.61	7.29	6.75	6.76	8.15
July	STDD ET	0.33	A	0.20	0.30	0.30	0.30	0.30	0.08	0.27	0.33	0.25	0.19	0.25	0.28	0.26	0.26	0.31
July	80PCT ET	8.86	L	5.45	8.17	8.16	8.16	8.12	2.24	7.36	8.80	6.78	5.15	6.82	7.53	6.97	6.98	8.41
			F															
August	AVE ET	7.14	A	2.92	3.29	6.52	6.52	6.07	0.00	5.32	6.89	1.30	1.09	5.50	6.07	5.63	5.72	6.77
August	STDD ET	0.34	L	0.14	0.16	0.31	0.31	0.29	0.00	0.25	0.33	0.06	0.05	0.26	0.29	0.27	0.27	0.32
August	80PCT ET	7.43	F	3.04	3.42	6.78	6.78	6.31	0.00	5.53	7.17	1.35	1.13	5.72	6.31	5.86	5.95	7.04
			A															
September	AVE ET	5.39		1.40	0.56	3.78	3.78	0.00	0.00	2.65	4.50	0.00	0.00	4.15	4.42	3.50	4.14	4.85
September	STDD ET	0.34		0.09	0.04	0.24	0.24	0.00	0.00	0.17	0.28	0.00	0.00	0.26	0.28	0.22	0.26	0.30
September	80PCT ET	5.68	H	1.48	0.59	3.98	3.98	0.00	0.00	2.79	4.74	0.00	0.00	4.37	4.66	3.69	4.36	5.10
			A															
October	AVE ET	3.17	Y	0.34	0.00	0.84	0.00	0.00	0.00	0.00	1.88	0.00	0.00	2.44	1.93	0.00	0.00	0.00
October	STDD ET	0.26		0.03	0.00	0.07	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.20	0.16	0.00	0.00	0.00
October	80PCT ET	3.39		0.37	0.00	0.90	0.00	0.00	0.00	0.00	2.01	0.00	0.00	2.61	2.06	0.00	0.00	0.00

ET and standard deviation data (AVE ET and STDD ET) taken from Appendix E (unpublished) of Brockway, C.E., and R.G. Allen, 1983, Estimating Consumptive Irrigation Requirements for Crops in Idaho, Idaho Water and Energy Resources Research Institute.

80th Percentile ET values (80PCT ET) calculated based on Walpole, R.E., and R.H. Meyers, 1985, third edition, PROBABILITY AND STATISTICS FOR ENGINEERS AND SCIENTISTS, New York: Macmillan Publishing Company, pp. 132-144 and 574.

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Baldock (BdA)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	8	0.16	0.21	7.9	8.4	1	2	1	2.22	1.5	0.5
8	56	0.16	0.21					2	4.44		
56	60	0.09	0.15					3	6.66		
								4	8.88	alternate	
								5	10.84	method	
										2	0.55

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	5.42
corn (field or silage)	4	0.5	4.44
grain (winter or spring)	4	0.5	4.44
pasture (or grass hay)	3	0.5	3.33
other (enter below)			
sugar beets	5	0.5	5.42

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Moulton (MvA)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	3	0.16	0.18	6.6	7.8	2	4	1	1.68	2	0.55
3	21	0.11	0.15					2	3.03		
21	60	0.04	0.08					3	3.75		
								4	4.47	alternate	
								5	5.19	method	
										3	0.7

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.60
corn (field or silage)	4	0.5	2.24
grain (winter or spring)	4	0.5	2.24
pasture (or grass hay)	3	0.5	1.88
other (enter below)			
sugar beets	5	0.5	2.60

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Moulton, saline (MwA)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	3	0.16	0.18	6.6	7.8	2	4	1	1.68	2	0.55
3	21	0.11	0.15					2	3.03		
21	60	0.04	0.08					3	3.75		
								4	4.47	alternate	
								5	5.19	method	
										3	0.7

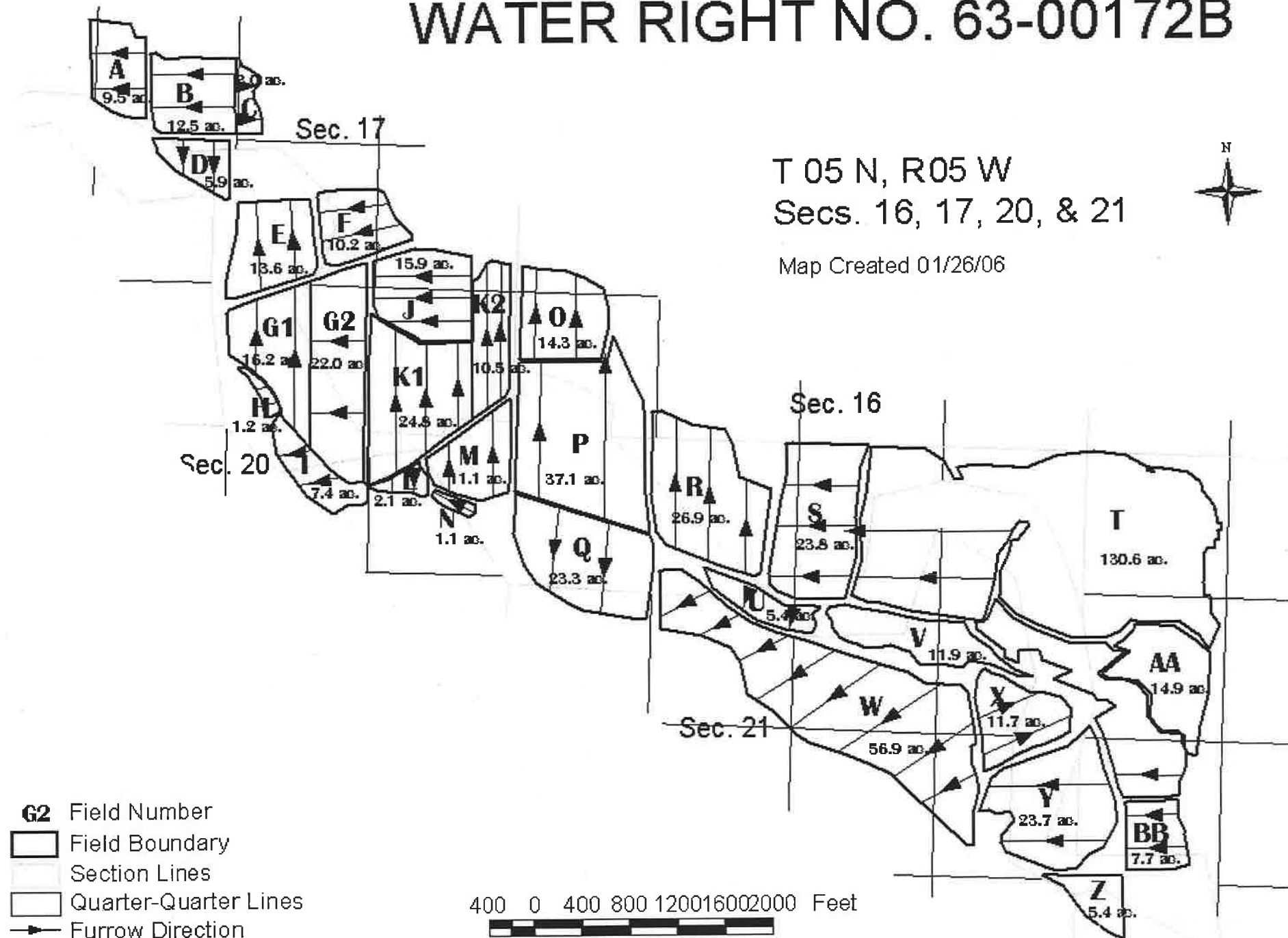
Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.60
corn (field or silage)	4	0.5	2.24
grain (winter or spring)	4	0.5	2.24
pasture (or grass hay)	3	0.5	1.88
other (enter below)			
sugar beets	5	0.5	2.60
radishes	1	0.35	0.59

WATER RIGHT NO. 63-00172B

T 05 N, R 05 W
Secs. 16, 17, 20, & 21

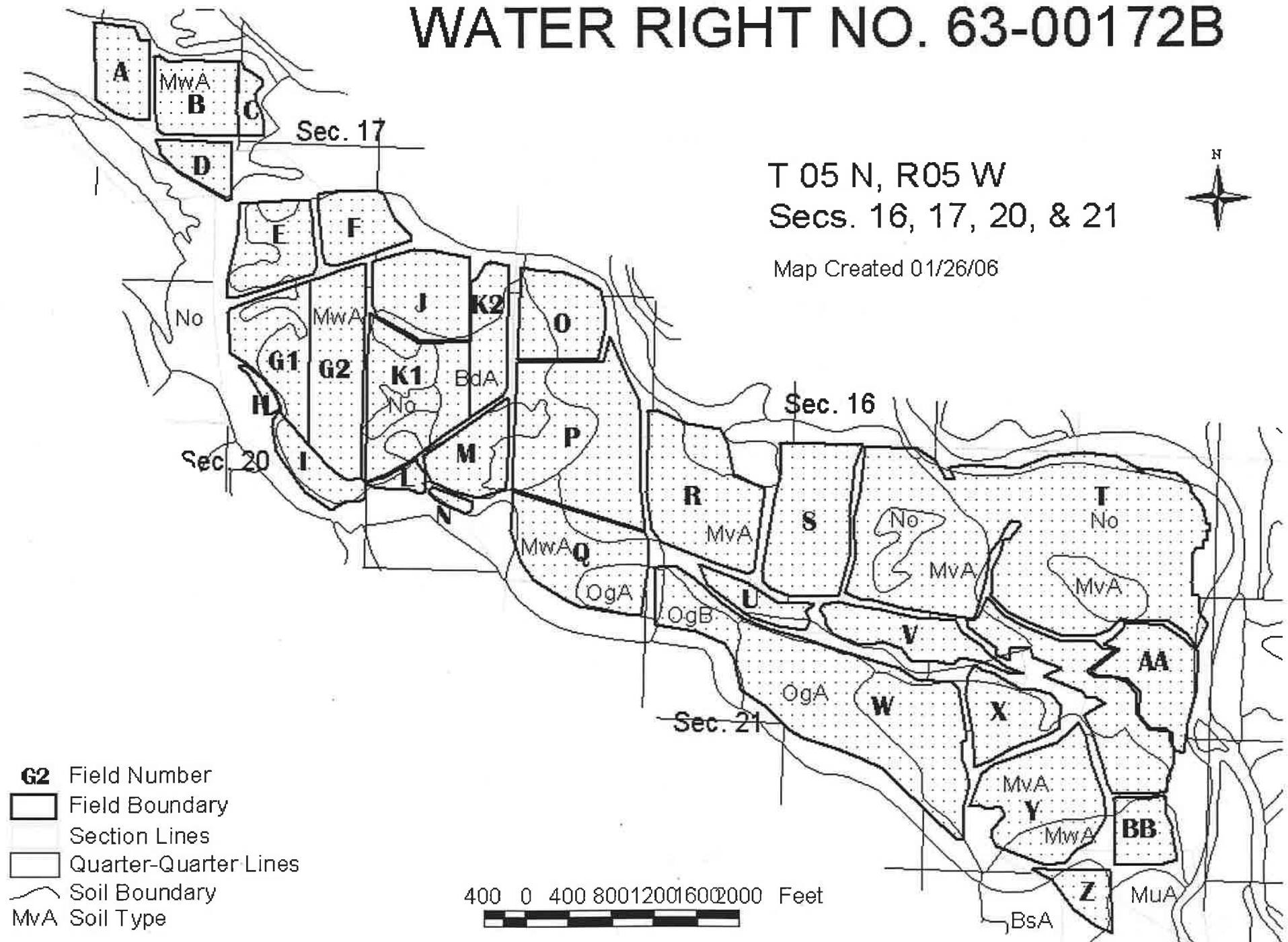
Map Created 01/26/06



WATER RIGHT NO. 63-00172B

T 05 N, R05 W
Secs. 16, 17, 20, & 21

Map Created 01/26/06



- G2** Field Number
- Field Boundary
- Section Lines
- Quarter-Quarter Lines
- Soil Boundary
- MvA Soil Type

400 0 400 800 1200 1600 2000 Feet

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Notus (No)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	1	0.11	0.13	6.1	8.4	0.5	1	1	1.44	2	0.55
1	14	0.11	0.13					2	2.08		
14	60	0.03	0.05					3	2.56		
								4	3.04	alternate	
								5	3.52	method	
										2	0.55

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	1.76
corn (field or silage)	4	0.5	1.52
grain (winter or spring)	4	0.5	1.52
pasture (or grass hay)	3	0.5	1.28
other (enter below)			
sugar beets	5	0.5	1.76
radishes	1	0.35	0.50

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Oliaga (OgA)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	8	0.16	0.18	7.4	9	1	3	1	1.98	1.5	0.5
8	35	0.13	0.18					2	3.84		
35	60	0.03	0.06					3	5.59		
								4	6.13	alternate	
								5	6.67	method	
										2	0.55

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	3.34
corn (field or silage)	4	0.5	3.07
grain (winter or spring)	4	0.5	3.07
pasture (or grass hay)	3	0.5	2.80
other (enter below)			
sugar beets	5	0.5	3.34

Chemical Soil Properties

Canyon Area, Idaho

[Absence of an entry indicates that data were not estimated]

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorption ratio
	<i>In</i>	<i>meq/100 g</i>	<i>meq/100 g</i>	<i>pH</i>	<i>Pct</i>	<i>Pct</i>	<i>mmhos/cm</i>	
BdA:								
Baldock	0-8	10-20	---	7.9-8.4	15-25	0	2.0-4.0	20-30
	8-56	15-25	---	7.4-9.0	5-15	0	2.0-4.0	10-20
	56-60	5.0-15	---	7.9-8.4	5-15	0	2.0-4.0	0-10
BsA:								
Bram, saline-alkali	0-8	9.0-19	---	8.5-9.6	0	0	8.0-16.0	5-8
	8-52	7.0-15	---	8.5-9.6	15-25	0	8.0-16.0	5-8
	52-65	7.0-15	---	8.5-9.6	0-5	0	8.0-16.0	5-8
MtB:								
Moulton	0-3	10-25	---	6.6-7.8	0	0	0.0	0
	3-21	5.0-15	---	6.6-7.8	0	0	0.0	0
	21-60	5.0-10	---	6.6-7.8	0	0	0.0	0
MuA:								
Moulton, saline	0-3	10-25	---	6.6-7.8	0	0	0.0	0
	3-21	5.0-15	---	6.6-7.8	0	0	0.0	0
	21-60	5.0-10	---	6.6-7.8	0	0	0.0	0
MvA:								
Moulton	0-3	10-25	---	6.6-7.8	0	0	0.0	0
	3-21	5.0-15	---	6.6-7.8	0	0	0.0	0
	21-60	5.0-10	---	6.6-7.8	0	0	0.0	0
MwA:								
Moulton, saline	0-3	10-25	---	6.6-7.8	0	0	0.0	0
	3-21	5.0-15	---	6.6-7.8	0	0	0.0	0
	21-60	5.0-10	---	6.6-7.8	0	0	0.0	0
No:								
Notus	0-1	5.0-10	---	6.1-8.4	0-5	0	0.0-2.0	0-5
	1-14	5.0-10	---	6.1-8.4	0-5	0	0.0-2.0	0-5
	14-60	1.0-5.0	---	6.1-8.4	0-5	0	0.0-2.0	0-5
NsA:								
Nyssaton	0-11	5.0-20	---	7.9-8.4	5-15	0	0.0-2.0	0-5
	11-60	5.0-15	---	7.9-9.0	15-20	0	0.0-2.0	0-5
OgA:								
Oliaga	0-8	8.0-25	---	7.4-9.0	5-14	0	0.0-8.0	0-5
	8-35	4.0-15	---	7.4-9.0	5-14	0	0.0-8.0	0-5
	35-60	0.0-9.0	---	6.6-7.3	0-5	0	0.0	0

Chemical Soil Properties

Canyon Area, Idaho

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorption ratio
	<i>In</i>	<i>meq/100 g</i>	<i>meq/100 g</i>	<i>pH</i>	<i>Pct</i>	<i>Pct</i>	<i>mmhos/cm</i>	
OgB:								
Oliaga	0-8	8.0-25	---	7.4-9.0	5-14	0	0.0-8.0	0-5
	8-35	4.0-15	---	7.4-9.0	5-14	0	0.0-8.0	0-5
	35-60	0.0-9.0	---	6.6-7.3	0-5	0	0.0	0
Re:								
Riverwash	0-60	---	---	---	---	---	---	---

Engineering Properties

Canyon Area, Idaho

[Absence of an entry indicates that the data were not estimated]

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
BdA:												
Baldock	0-8	Loam	CL	A-6	0	0	90-100	90-100	75-100	55-90	24-36	7-15
	8-56	Loam, Silt loam	CL	A-6	0	0	90-100	90-100	75-100	55-85	27-38	12-19
	56-60	Fine sandy loam, Sandy loam	SC-SM	A-4	0	0	75-100	75-100	50-80	25-50	16-27	2-10
BsA:												
Bram, saline-alkali	0-8	Silt loam	CL	A-4	0	0-5	90-95	90-95	90-95	75-90	24-33	7-12
	8-52	Loam, Silt loam, Very fine sandy loam	CL	A-4	0	0-5	90-95	90-95	90-95	75-90	22-30	7-12
	52-65	Fine sandy loam, Gravelly loam	SC	A-2, A-4	0	0	55-100	50-100	45-70	25-40	22-30	7-12
MtB:												
Moulton	0-3	Fine sandy loam	SC	A-4	0	0	90-100	90-100	65-85	35-55	25-39	6-13
	3-21	Fine sandy loam, Sandy loam	SC	A-4	0	0	90-100	90-100	75-90	40-60	22-35	6-13
	21-60	Very gravelly loamy sand, Very gravelly sand	GW	A-1	0	0	30-60	30-50	15-35	0-15	17-24	2-6
MuA:												
Moulton, saline	0-3	Fine sandy loam	SC	A-4	0	0	90-100	90-100	65-85	35-55	25-39	6-13
	3-21	Fine sandy loam, Sandy loam	SC	A-4	0	0	90-100	90-100	75-90	40-60	22-35	6-13
	21-60	Very gravelly loamy sand, Very gravelly sand	GW	A-1	0	0	30-60	30-50	15-35	0-15	17-24	2-6

Engineering Properties

Canyon Area, Idaho

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
MvA:												
Moulton	0-3	Loam	CL	A-4	0	0	90-100	90-100	75-95	55-75	25-39	6-13
	3-21	Fine sandy loam, Sandy loam	SC	A-4	0	0	90-100	90-100	75-90	40-60	22-35	6-13
	21-60	Very gravelly loamy sand, Very gravelly sand	GW	A-1	0	0	30-60	30-50	15-35	0-15	17-24	2-6
MwA:												
Moulton, saline	0-3	Loam	CL	A-4	0	0	90-100	90-100	75-95	55-75	25-39	6-13
	3-21	Fine sandy loam, Sandy loam	SC	A-4	0	0	90-100	90-100	75-90	40-60	22-35	6-13
	21-60	Very gravelly loamy sand, Very gravelly sand	GW	A-1	0	0	30-60	30-50	15-35	0-15	17-24	2-6
No:												
Notus	0-1	Sandy loam	SM	A-2, A-4	0	0	95-100	90-100	55-85	25-50	17-24	2-6
	1-14	Fine sandy loam	SM	A-2, A-4	0	0	95-100	90-100	55-85	25-50	17-24	2-6
	14-60	Stratified very gravelly sand to gravelly loamy sand	GP-GM	A-1	0	0-25	30-50	25-45	15-30	5-10	—	NP
NsA:												
Nyssaton	0-11	Silt loam	CL	A-4	0	0	100	100	90-100	85-90	21-33	4-12
	11-60	Silt loam	CL	A-4	0	0	100	100	90-100	85-90	18-30	4-12

Engineering Properties

Canyon Area, Idaho

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
OgA: Oliaga	0-8	Loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-95	60-75	22-41	6-17
	8-35	Fine sandy loam, Loam	CL-ML, ML	A-4	0	0	100	100	70-95	50-75	16-31	2-12
	35-60	Stratified sand to gravelly sand	GP, SP	A-1	0	0-5	30-60	10-30	5-20	0-5	0-14	NP
OgB: Oliaga	0-8	Loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-95	60-75	22-41	6-17
	8-35	Fine sandy loam, Loam	CL-ML, ML	A-4	0	0	100	100	70-95	50-75	16-31	2-12
	35-60	Stratified sand to gravelly sand	GP, SP	A-1	0	0-5	30-60	10-30	5-20	0-5	0-14	NP
Re: Riverwash	0-60	Stratified gravel to sand	---	---	---	---	---	---	---	---	---	---

Physical Soil Properties

Canyon Area, Idaho

[Entries under "Erosion Factors—T" apply to the entire profile. Entries under "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer. Absence of an entry indicates that data were not estimated]

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
BdA:														
Baldock	0-8	---	---	12-22	1.20-1.40	4.00-14.11	0.16-0.21	0.0-2.9	1.0-2.0	.32	.32	5	4L	86
	8-56	---	---	18-27	1.25-1.40	4.00-14.11	0.16-0.21	0.0-2.9	0.0-0.5	.32	.32			
	56-60	---	---	5-15	1.35-1.50	14.11-42.34	0.09-0.15	0.0-2.9	0.0-0.5	.10	.10			
BsA:														
Bram, saline-alkali	0-8	---	---	12-18	1.25-1.35	4.00-14.11	0.14-0.17	0.0-2.9	1.0-2.0	.43	.49	5	4L	86
	8-52	---	---	12-18	1.50-1.60	1.41-4.23	0.08-0.11	0.0-2.9	0.0-0.5	.43	.49			
	52-65	---	---	12-18	1.50-1.60	14.11-42.34	0.07-0.10	0.0-2.9	0.0-0.5	.24	.43			
MtB:														
Moulton	0-3	---	---	10-20	1.50-1.70	14.11-42.34	0.13-0.15	0.0-2.9	2.0-4.0	.24	.24	4	3	86
	3-21	---	---	10-20	1.50-1.70	14.11-42.34	0.11-0.15	0.0-2.9	1.0-2.0	.32	.32			
	21-60	---	---	5-10	1.40-1.60	42.34-141.14	0.04-0.08	0.0-2.9	0.5-1.0	.05	.17			
MuA:														
Moulton, saline	0-3	---	---	10-20	1.50-1.70	14.11-42.34	0.13-0.15	0.0-2.9	2.0-4.0	.24	.24	4	3	86
	3-21	---	---	10-20	1.50-1.70	14.11-42.34	0.11-0.15	0.0-2.9	1.0-2.0	.32	.32			
	21-60	---	---	5-10	1.40-1.60	42.34-141.14	0.04-0.08	0.0-2.9	0.5-1.0	.05	.17			
MvA:														
Moulton	0-3	---	---	10-20	1.40-1.50	4.00-14.11	0.16-0.18	0.0-2.9	2.0-4.0	.37	.37	4	5	56
	3-21	---	---	10-20	1.50-1.70	14.11-42.34	0.11-0.15	0.0-2.9	1.0-2.0	.32	.32			
	21-60	---	---	5-10	1.40-1.60	42.34-141.14	0.04-0.08	0.0-2.9	0.5-1.0	.05	.17			

Physical Soil Properties

Canyon Area, Idaho

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	micro m/sec	In/In	Pct	Pct					
MwA:														
Moulton, saline	0-3	---	---	10-20	1.40-1.50	4.00-14.11	0.16-0.18	0.0-2.9	2.0-4.0	.37	.37	4	5	56
	3-21	---	---	10-20	1.50-1.70	14.11-42.34	0.11-0.15	0.0-2.9	1.0-2.0	.32	.32			
	21-60	---	---	5-10	1.40-1.60	42.34-141.14	0.04-0.08	0.0-2.9	0.5-1.0	.05	.17			
No:														
Notus	0-1	---	---	5-10	1.60-1.70	14.11-42.34	0.11-0.13	0.0-2.9	0.5-1.0	.28	.28	3	4	86
	1-14	---	---	5-10	1.60-1.70	14.11-42.34	0.11-0.13	0.0-2.9	0.5-1.0	.28	.28			
	14-60	---	---	2-7	1.60-1.70	141.14	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
NsA:														
Nyssaton	0-11	---	---	8-18	1.30-1.40	4.00-14.11	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49	5	4L	86
	11-60	---	---	8-18	1.30-1.40	0.42-1.41	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
OgA:														
Oliaga	0-8	---	---	10-25	1.25-1.40	4.00-14.11	0.16-0.18	0.0-2.9	1.0-3.0	.24	.24	4	4L	86
	8-35	---	---	5-18	1.30-1.45	4.00-14.11	0.13-0.18	0.0-2.9	0.0-1.0	.20	.20			
	35-60	---	---	0-10	1.30-1.60	141.14	0.03-0.06	0.0-2.9	0.0-0.5	.10	.20			
OgB:														
Oliaga	0-8	---	---	10-25	1.25-1.40	4.00-14.11	0.16-0.18	0.0-2.9	1.0-3.0	.24	.24	4	4L	86
	8-35	---	---	5-18	1.30-1.45	4.00-14.11	0.13-0.18	0.0-2.9	0.0-1.0	.20	.20			
	35-60	---	---	0-10	1.30-1.60	141.14	0.03-0.06	0.0-2.9	0.0-0.5	.10	.20			
Re:														
Riverwash	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

IRRIGATION FLOW RATE QUESTIONNAIRE

The information required in this questionnaire will describe your water delivery system and irrigation methods. This information is essential in order for IDWR staff to evaluate your irrigation water requirements. Much of the information is technical, and you may wish to contact your County Extension Agent, the Natural Resources Conservation Service (formerly SCS) or other professionals for assistance with this form.

1. Please provide your name, address, and phone number where you may be contacted for further information or clarification. Include the claim number(s) for those claims where the irrigation flow rate is greater than 0.02 cfs (1 miner's inch) per acre.

Name Raymond A. Abbott
Address 26948 Sepher Ln Parma 83660
Phone 208 722 5785
Claim No(s). _____

2. Provide the total number of acres irrigated 561 for the claims listed.

3. Provide a detailed diagram or copy of an aerial photograph showing the complete irrigation system for the claims listed. Please include the location of wells, pipelines, canals or ditches, field headgates, and individual field boundaries. Please label by name (or identify by number) each of the elements shown.

4. Provide a description of the water conveyance system from the source to the farm and any major on-farm laterals. This information should include: general soil type (for earthen ditches or canals), type of lining (for lined ditches or canals), length of canal, width of canal at water surface, total depth from land surface to bottom of canal. Use average values. Also include any pipeline lengths and diameters.

The ditch is an open dirt ditch 10-12 feet wide and average depth of 2.5 feet.

Is this conveyance system shared by other water users? _____ If yes, please describe.

The system is a shared ditch by seven property owners on a rotational crop needs basis.

Is the water supply for the claims listed rotated with other water users? _____ If yes, please describe.

all operators use the water on a shared basis, by use through a needs rotation among the users.

5. For each field, please provide the following information (this page may be copied for each individual field if necessary):

field name or identifying number _____ type of irrigation system _____

historical crop rotation _____ number of acres irrigated _____

Provide the following information, for each field, based on the **peak water-use period** for the highest **water-use crop** historically grown.

crop type requiring highest flow rate _____

number of days to irrigate entire field _____ irrigation set time (hrs) _____

irrigation frequency _____ (number of days from the start of one irrigation cycle to the start of the next for a given field)

Please draw a diagram of each field showing general shape and dimensions, include the following information:

For sprinkler systems

location of mainlines
number of laterals
spacing between sprinklers and laterals
nozzle size
average nozzle pressure
average nozzle flow

For surface systems

(furrow, corrugation, border, wild flood, etc.)

field length
direction of flow
slope of field in direction of flow
spacing between furrows, borders, etc.

6. Are you aware of any irrigation system design, evaluations or farm soil surveys completed for this farm by the Natural Resources Conservation Service, private consultants, irrigation equipment dealers or others?

If yes, please describe or attach copies.

7. Please include any additional comments which will aid in the evaluation of your irrigation water requirements.

IDWR may rely on the information in this questionnaire for recommendation of your water right to the SRBA District Court. In order to minimize objections to IDWR's recommendation of your water right, Please be sure that all information provided is as accurate as possible.

I certify that the information provided in this questionnaire is accurate and true to the best of my knowledge and belief.

signature

date

PLEASE RETURN FORMS TO:

Black & white map, Roman numeral fields have been, corn for at least 5 years.

253 map.

392 tract. corn 3 years.

1 year wheat
Sugar beets

2, Hay 3 years
wheat
beets

3 Hay 3 years
wheat
beets

4 pasture

5 radish seed
2 year corn
wheat
beets

6. barley
corn 3 years
beets

253

393 tract. 1. barley
corn 3 years
beets.

2, Corn 3 years
wheat
beets.

3 corn 3 years
wheat
beets

4 pasture

5 corn 3 years
wheat 2 years
beets

6. radish seed
corn 3 years
wheat
beets

Water Reserve Map

16. A. beets
corn 3 years

38.5A. beets
corn 3 years

23.7A corn
beets
wheat
corn

21.0A pasture 3 years
corn 3 years

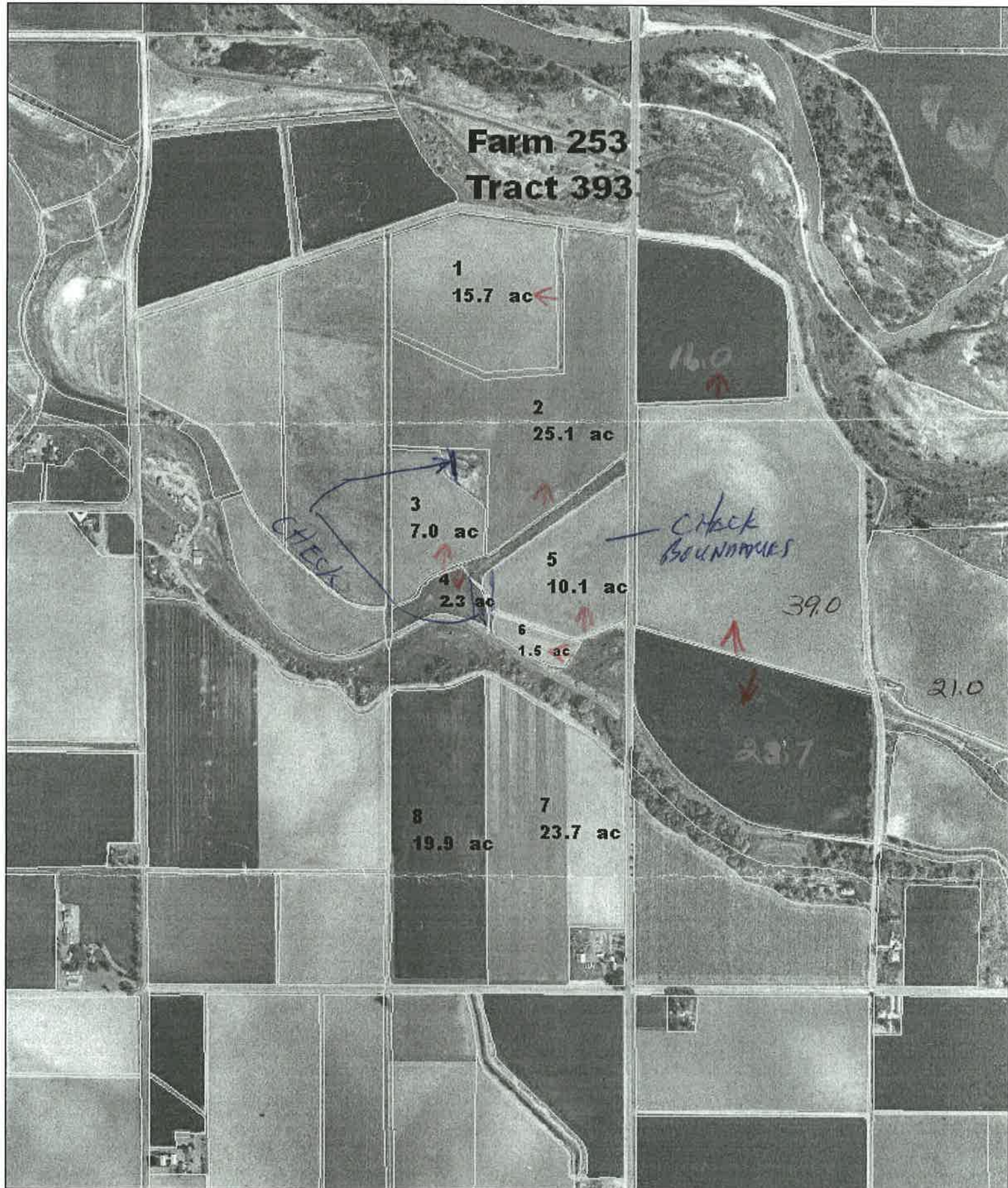
26.0A. pasture 3 years
corn 3 years

58 A. pasture
corn 4 years

12.6 ~~corn~~ pasture
corn 4 years

24.3 hay 4 years
~~wheat~~
pasture.

Farm 253
Tract 393



**Farm 253
Tract 392**

1
10.6 ac

2
14.8 ac

3
15.1 ac

5
23.3 ac

4
1.2 ac

6
7.1 ac

7
35.4 ac

9
14.4 ac

8
11.8 ac



Memorandum

HAAS DITCH CO. HUBBLE
ANALYSIS - 3/4 MI SE OF
RIVERFLAT DITCH CO.
SHOWS 2.4" / ACRE RE-
QUIRED FOR THIS AREA.

To: Dave Tuthill *DT*

From: Marci Pape

Date: 1/29/06

Re: Diversion Rate Analysis for Haas Ditch Co. Right Nos. A63-00172B & A63-00202B

I have completed the diversion rate analysis for the Haas Ditch Co. water right listed above and have attached the results. I was not able to analyze all the fields, since the claimant did not supply information for some of the fields. The majority of the fields were analyzed, however, and all of those fields require diversion rates in excess of 1 in/ac, according to my findings.

CALCULATIONS

Raymond Abbott supplied some of the information necessary for the analysis. He included furrow direction and a five-year crop history for 24 of the 30 fields. The remaining fields were not fully addressed. Mr. Abbott did not describe the irrigation method(s) for the property, so I assumed the fields were irrigated using corrugations and furrows. I based the row spacings on those given in Figure A-6 of the Evaluation Workbook for Irrigation Diversion Rates, prepared in 1991 by Hubble Engineering and Associated Earth Sciences, Inc. I used a spacing of 2 ft. for sugar beets, rounding up from the suggested 22 in. to the nearest 0.5 foot.

Danielle Favreau provided the shapefile used by IDWR for the recommended Place of Use and I used those field boundaries in ArcView to determine average furrow lengths. Some of the fields were split for the purposes of the investigation, either because the furrow lengths were too variable or because the analysis required it for the full irrigation of an individual field.

Field slopes were determined using 1:24000 digital topographical maps in ArcView wherever possible. The area is nearly flat, according to both the topographic maps and Mr. Abbott. I assumed a slope of 0.2 percent for those fields where a slope was impossible to measure due to a lack of topographic lines.

The soil types were determined using the soils information from the USDA, NRCS for the Canyon Area, Idaho. The dominant soils on the property are Baldock loam, Moulton loam, saline Moulton loam, Notus, and Oliaga loam. There are other soil types on the property, but none of them cover more than 10 percent of the area of any field, so they were not used in the analysis.

The weather station nearest to this site is the Parma Experimental Station. The 80th percentile monthly ET values from that weather station were used for my analysis. There were no ET values available for one of the crops grown on the property, radish seed, so I assumed an ET value equivalent to that for alfalfa hay to allow for a generous estimate of ET.

RESULTS

The total on-farm irrigation requirement for the analyzed fields was determined to be **23.44 cfs for 385.7 acres, or 0.061 cfs per acre**. This determination was made using the crop with the highest irrigation requirement for each field. The results for each field are contained in the table below. These are strictly the on-farm diversion requirements, with no allowances made for conveyance loss.

Field No.	On-Farm Irrigation Reqt. (cfs/ac)	Field Size (ac.)	Total On-Farm Irrigation Reqt. (cfs)
A	0.031	9.5	0.30
B	0.034	12.5	0.43
C	0.038	3.0	0.12
D	0.029	5.9	0.17
E	0.051	13.6	0.69
F	0.045	10.2	0.46
G1	0.102	16.2	1.65
G2	0.043	22.0	2.44
H	0.085	1.2	0.10
I	0.049	7.4	0.37
J	0.080	15.9	1.27
K1	0.102	24.8	2.53
K2	0.050	10.5	0.53
L	0.085	2.1	0.18
M	0.054	11.1	0.60
N	0.111	1.1	0.12
O	0.031	14.3	0.45
P	0.052	37.1	1.92
Q	0.045	23.3	1.04
R	0.053	26.9	1.43
S	0.046	23.8	1.10
W	0.043	57.9	2.46
X	0.058	11.7	0.68
Y	0.101	23.7	2.40
TOTAL		385.7	23.44

cfs

Avg. On-Farm Irrigation
Requirement (cfs/ac):

0.061

cfs/ac

The remaining fields include a total of 175.9 acres. If those fields were assumed to require only 0.02 cfs/ac, it would add an additional 3.52 cfs to the total. This would bring the **Total On-Farm Irrigation Requirement to 26.96cfs**. This exceeds the claimed diversion rate of 8.54 cfs (A63-00172B) + 8.80 cfs (A63-00202B) = **17.34 cfs**. Therefore, I have concluded that the claimed diversion rate is reasonable.

/DM

$$\frac{26.96 \text{ CFS}}{561 \text{ AC}} = .048 \text{ CFS/AC OR } 2.4" / \text{AC}$$

IRRIGATION DIVERSION RATE ANALYSIS

CLAIM NO(S):	63-00172B, 63-00202B
FIELD ID NO:	E
TOTAL ACRES:	13.6 AC
FIELD SLOPE:	0.6 %
FURROW LENGTH:	800 FT

ANALYSIS COMPLETED BY: MARCI PAPE
DATE OF ANALYSIS: 01/12/06

Qmax PER FURROW:	Qmin PER FURROW:
For corrugates: 10.0 gpm	For both: 3.0 gpm
For furrows: 16.7 gpm	

[illegible]

TOTAL AC	TOTAL %	CFS/AC FOR
13.6	100	EACH CROP: 0.037

TOTAL CFS FOR FIELD: 0.69

FIELD ID NO:	F
TOTAL ACRES:	10.2 AC
FIELD SLOPE:	0.2 %
FURROW LENGTH:	700 FT

DATE OF ANALYSIS: 01/12/06

Qmax PER FURROW:	Qmin PER FURROW:
For corrugates: 10.0 gpm	For both: 3.0 gpm
For furrows: 50.0 gpm	

[illegible]

TOTAL AC	TOTAL %	CFS/AC FOR
10.2	100	EACH CROP:

TOTAL CFS FOR FIELD: 0.46 $\Leftarrow$ same crop, eff, I.F., + MAD as that for Field Q, $\therefore$ use cfs/ac for Field

DATE OF ANALYSIS: 1/12/06

Qmax PER FURROW: Qmin PER FURROW:
For corrugates: 10.0 gpm For both: 3.0 gpm
For furrows: 50.0 gpm * 24 hr set times

[illegible]

0.102

0.058

TOTAL CFS FOR FIELD:

1.65

DATE OF ANALYSIS:		1/12/06
Qmax PER FURROW:		Qmin PER FURROW:
For corrugates:	10.0 gpm	For both:
For furrows:	50.0 gpm	3.0 gpm

[illegible]

0.031

0.043

0.039

TOTAL CFS FOR FIELD:

0.44

0.37

FIELD ID NO: J
 TOTAL ACRES: 15.9 AC
 FIELD SLOPE: 0.2 % (assumed slope - nearly flat)
 FURROW LENGTH: 900 FT

DATE OF ANALYSIS: 1/21/06
 Qmax PER FURROW:
 For corrugates: 10.0 gpm
 For furrows: 50.0 gpm
 Qmin PER FURROW:
 For both: 3.0 gpm

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	barley EFFICIENCY	CROP = MAD	corn EFFICIENCY	CROP = MAD	sugar beets EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	14.5	91	0.7	2.24	1990	2.24	4290	2.6	3590				
BdA	1.4	9	0.55		***		***		***		***		***
TOTAL AC	15.9	TOTAL % 100		CFS/AC FOR EACH CROP:	0.080		0.036		0.046				
				TOTAL CFS FOR FIELD:	1.27								

FIELD ID NO: K1
 TOTAL ACRES: 24.8 AC
 FIELD SLOPE: 0.2 % (assumed slope - nearly flat)
 FURROW LENGTH: 1050 FT

DATE OF ANALYSIS: 1/21/06
 Qmax PER FURROW:
 For corrugates: 10.0 gpm
 For furrows: 50.0 gpm
 Qmin PER FURROW:
 For both: 3.0 gpm
 * 36 hr set time
 ** 24 hr set time

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	corn EFFICIENCY	CROP = MAD	wheat EFFICIENCY	CROP = MAD	sugar beets EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	11.4	46	0.7	2.24	4190	2.24	1490*	2.6	3490				
No	5.4	22	0.55	1.52	3390	1.52	1590**	1.76	2790				
BdA	8.0	32	0.55	4.44	2990	4.44	4090**	5.42	4090				
TOTAL AC	24.8	TOTAL % 100		CFS/AC FOR EACH CROP:	0.049		0.102		0.060				
				TOTAL CFS FOR FIELD:	2.53								

FIELD ID NO: K2
 TOTAL ACRES: 10.5 AC
 FIELD SLOPE: 0.2 % (assumed slope - nearly flat)
 FURROW LENGTH: 1300 FT

DATE OF ANALYSIS: 1/21/06
 Qmax PER FURROW:
 For corrugates: 10.0 gpm
 For furrows: 50.0 gpm
 Qmin PER FURROW:
 For both: 3.0 gpm
 * fields split into 650ft length

SOIL TYPE	ACRES	% OF TOTAL AC	INTAKE FAMILY	CROP = MAD	corn EFFICIENCY	CROP = MAD	wheat EFFICIENCY	CROP = MAD	sugar beets EFFICIENCY	CROP = MAD	EFFICIENCY	CROP = MAD	EFFICIENCY
MwA	4.0	38	0.7	2.24	3890	2.24	3490*	2.6	3290				
BdA	6.5	62	0.55	4.44	3290	4.44	5990*	5.42	4190				
TOTAL AC	10.5	TOTAL % 100		CFS/AC FOR EACH CROP:	0.045		0.045		0.050				
				TOTAL CFS FOR FIELD:	0.53								

(assumed slope - nearly flat)

1/12/06

Q_{max} PER FURROW:

For corrugates: 10.0 gpm
For furrows: 50.0 gpm

Qmin PER FURROW:

For both: 3.0 gpm

[illegible]

TOTAL AC	TOTAL %
2.1	100

CFS/AC FOR EACH CROP: 0.085

TOTAL CFS FOR FIELD:

0.18

FIELD ID NO:	M
TOTAL ACRES:	11.1 AC
FIELD SLOPE:	0.2 %
FURROW LENGTH:	650 FT

(assumed slope - nearly flat)

DATE OF ANALYSIS:

1/12/06

Qmax PER FURROW:

For corrugates: 10.0 gpm
For furrows: 50.0 gpm

Qmin PER FURROW:
For both: 3.0 gpm

[illegible]

TOTAL AC	TOTAL %
11.1	100

CFS/AC FOR EACH CROP: 0.043

TOTAL CFS FOR FIELD:

0.053

0.60

0.054

FIELD ID NO:	N	DATE OF ANALYSIS:	1/12/06
TOTAL ACRES:	1.1 AC		
FIELD SLOPE:	0.2 %	(assumed slope - nearly flat)	
FURROW LENGTH:	450 FT	Qmax PER FURROW:	Qmin PER FURROW:
		For corrugates:	10.0 gpm
		For furrows:	50.0 gpm
			For both: 3.0 gpm

TOTAL AC	TOTAL %	CFS/AC FOR EACH CROP:
1.1	100	0.111

TOTAL CFS FOR FIELD: 0.12

FIELD ID NO:	O	DATE OF ANALYSIS:	1/12/06
TOTAL ACRES:	14.3 AC		
FIELD SLOPE:	0.5 %	Qmax PER FURROW:	Qmin PER FURROW:
FURROW LENGTH:	800 FT	For corrugates:	10.0 gpm
		For furrows:	20.0 gpm
			For both: 3.0 gpm

TOTAL AC	TOTAL %	CFS/AC FOR
14.3	100	EACH CROP: 0.031

TOTAL CFS FOR FIELD: 0.45

1.04

1/12/06

Qmin PER FURROW:

For both: 3.0 gpm

33.3 gpm

[illegible]

TOTAL AC	TOTAL %
26.9	100

CFS/AC FOR
EACH CROP: 0.039

0.053

TOTAL CFS FOR FIELD :

1.43

FIELD ID NO:	S
TOTAL ACRES:	23.8 AC
FIELD SLOPE:	0.3 %
FURROW LENGTH:	750 FT

DATE OF ANALYSIS:

1/12/06

Q_{max} PER FURROW:

Qmin PER FURROW:

For corrugates:

10.0 gpm

For both: 3.0 gpm

For furrows:

33.3 gpm

[illegible]

TOTAL AC	TOTAL %
23.8	100

CFS/AC FOR EACH CROP: 0.046

0.029

TOTAL CFS FOR FIELD :

1.10

(assumed slope - nearly flat)

1/12/06

10.0 gpm

For both: 3.0 gpm

For furrows:

[illegible]

TOTAL AC	TOTAL %
56.9	100

CFS/AC FOR
EACH CROP: 0.034

0.043

TOTAL CFS FOR FIELD :

2.46

FIELD ID NO:	X
TOTAL ACRES:	11.7 AC
FIELD SLOPE:	0.2 %
FURROW LENGTH:	750 FT

(assumed slope - nearly flat)

1/12/06

10.0 gpm

For both: 3.0 gpm

For furrows:

[illegible]

TOTAL AC	TOTAL %
11.7	100

CFS/AC FOR
EACH CROP: 0.041

0.058

TOTAL CFS FOR FIELD :

0.68

DATE OF ANALYSIS:	1/12/06
Qmax PER FURROW:	Qmin PER FURROW:
For corrugates: 10.0 gpm	For both: 3.0 gpm
For furrows: 50.0 gpm	

[illegible]

0.101

0.083

TOTAL CFS FOR FIELD:

2.40

DATE OF ANALYSIS: 1/12/06

Qmax PER FURROW: Qmin PER FURROW:
For corrugates: #VALUE! gpm For both: 3.0 gpm
For furrows: #VALUE! gpm

[illegible]

CFS/AC FOR
EACH CROP:

TOTAL CFS FOR FIELD :

0.43

DATE OF ANALYSIS:		1/25/06	
Qmax PER FURROW:		Qmin PER FURROW:	
For corrugates:	10.0 gpm	For both:	3.0 gpm
For furrows:	50.0 gpm		

[illegible]

CFS/AC FOR
EACH CROP: 0.038

TOTAL CFS FOR FIELD :

0.12

DATE OF ANALYSIS:	1/25/06
Qmax PER FURROW:	Qmin PER FURROW:
For corrugates: 10.0 gpm	For both: 3.0 gpm
For furrows: 50.0 gpm	

[illegible]

CFS/AC FOR EACH CROP: 0.029

TOTAL CFS FOR FIELD :

0.17

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field A
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
corn	9.5	fur	48	0	0	1.99	3.99	8.16	6.78	3.98	0.9	2.24	1.11	6.3		4.60	9.23	18.87	15.68	9.20	2.08	

Summary 9.5

4.60 9.23 18.87 15.68 9.20 2.08

Peak Gross Irrigation Application (mm/day) = 18.87
 On-Farm Irrigation Requirement (cfs/acre) = 0.031
 Total On-Farm Irrigation Requirement (cfs) = 0.30
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

initials: MP Claimant = Haas Ditch Co. - Field B
date: 01/21/06 Weather Station = Parma Exp. Station

Summary	12.5	5.02	10.07	20.59	17.10	10.04	2.27
Peak Gross Irrigation Application (mm/day) =	20.59						
On-Farm Irrigation Requirement (cfs/acre) =	0.034						
Total On-Farm Irrigation Requirement (cfs) =	0.43						
Irrigation Diversion Volume (ft/yr) =	0.00						
Total Irrigation Diversion Volume (ac-ft/yr) =	0						

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field C
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
corn	3	fur	39	0	0	1.99	3.99	8.16	6.78	3.98	0.9	2.24	1.11	6.3	5.66	11.36	23.22	19.30	11.33	2.56		

Summary 3

5.66 11.36 23.22 19.30 11.33 2.56

Peak Gross Irrigation Application (mm/day) = 23.22
 On-Farm Irrigation Requirement (cfs/acre) = 0.038
 Total On-Farm Irrigation Requirement (cfs) = 0.12
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

initials: MP Claimant = Haas Ditch Co. - Field D
date: 01/21/06 Weather Station = Parma Exp. Station

[illegible]

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field E
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)										AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct	mar	apr					may	jun	jul	aug	sep	oct					
alf hay	13.6	cor	44	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		1.76	1.12	4.5	6.29	12.78	16.88	21.03	22.55	18.91	14.46	8.63					

Summary 13.6 6.29 12.78 16.88 21.03 22.55 18.91 14.46 8.63

Peak Gross Irrigation Application (mm/day) = 22.55
 On-Farm Irrigation Requirement (cfs/acre) = 0.037
 Total On-Farm Irrigation Requirement (cfs) = 0.51
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

initials: MP Claimant = Haas Ditch Co. - Field E
date: 01/18/06 Weather Station = Parma Exp. Station

[illegible]

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field E
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct			
wheat	13.6	cor	30	0.75	1.7	5.55	8.26	6.78	1.35		1.52	1.12	4.2	2.80	6.35	20.72	30.84	25.31	5.04							

Summary 13.6 2.80 6.35 20.72 30.84 25.31 5.04

Peak Gross Irrigation Application (mm/day) = 30.84
 On-Farm Irrigation Requirement (cfs/acre) = 0.051
 Total On-Farm Irrigation Requirement (cfs) = 0.69
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G1
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
alf hay	16.2	cor	22	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		1.76	1.12	4.5	12.57	25.56	33.75	42.05	45.11	37.83	28.92	17.26	

Summary 16.2

12.57 25.56 33.75 42.05 45.11 37.83 28.92 17.26

Peak Gross Irrigation Application (mm/day) = 45.11
 On-Farm Irrigation Requirement (cfs/acre) = 0.075
 Total On-Farm Irrigation Requirement (cfs) = 1.21
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G1
date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)										net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct	nov	dec				mar	apr	may	jun	jul	aug	sep	oct			
sug. beet	16.2	fur	28	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01		1.76	1.12	4.5	6.04	8.08	19.28	35.20	28.68	18.96	8.04					

Summary 16.2 6.04 8.08 19.28 35.20 28.68 18.96 8.04

Peak Gross Irrigation Application (mm/day) = 35.20
On-Farm Irrigation Requirement (cfs/acre) = 0.058
Total On-Farm Irrigation Requirement (cfs) = 0.94
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G1
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							oct	AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep						mar	apr	may	jun	jul	aug	sep	
wheat	16.2	cor	15	0.75	1.7	5.55	8.26	6.78	1.35			1.52	1.12	4.2	5.60	12.69	41.44	61.67	50.62	10.08			

Summary 16.2 5.60 12.69 41.44 61.67 50.62 10.08

Peak Gross Irrigation Application (mm/day) = 61.67
 On-Farm Irrigation Requirement (cfs/acre) = 0.102
 Total On-Farm Irrigation Requirement (cfs) = 1.65
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G2
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
corn	22	fur	48	0	0	1.99	3.99	8.16	6.78	3.98	0.9	2.24	1.11	6.3	4.60	9.23	18.87	15.68	9.20	2.08		

Summary 22

4.60 9.23 18.87 15.68 9.20 2.08

Peak Gross Irrigation Application (mm/day) = 18.87
 On-Farm Irrigation Requirement (cfs/acre) = 0.031
 Total On-Farm Irrigation Requirement (cfs) = 0.69
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G2
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct			
radish sd	22	fur	15	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		0.59	1.14	1.5	18.77	38.15	50.39	62.78	67.34	56.47	43.17	25.76			

Summary 22 18.77 38.15 50.39 62.78 67.34 56.47 43.17 25.76

Peak Gross Irrigation Application (mm/day) = 67.34
 On-Farm Irrigation Requirement (cfs/acre) = 0.111
 Total On-Farm Irrigation Requirement (cfs) = 2.45
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G2

date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	22	fur	41	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01		2.60	1.10	6.8	4.05	5.42	12.93	23.61	19.24	12.72	5.39		

Summary 22

4.05 5.42 12.93 23.61 19.24 12.72 5.39

Peak Gross Irrigation Application (mm/day) = 23.61
 On-Farm Irrigation Requirement (cfs/acre) = 0.039
 Total On-Farm Irrigation Requirement (cfs) = 0.86
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field G2
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
wheat	22	cor	35	0.75	1.7	5.55	8.26	6.78	1.35		2.24	1.11	6.2	2.38	5.39	17.60	26.20	21.50	4.28			

Summary 22 2.38 5.39 17.60 26.20 21.50 4.28

Peak Gross Irrigation Application (mm/day) = 26.20
On-Farm Irrigation Requirement (cfs/acre) = 0.043
Total On-Farm Irrigation Requirement (cfs) = 0.95
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field I
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
barley	7.4	cor	31	0.75	1.7	5.55	8.26	6.78	1.35		1.52	1.12	4.2	2.71	6.14	20.05	29.84	24.50	4.88					

Summary 7.4 2.71 6.14 20.05 29.84 24.50 4.88

Peak Gross Irrigation Application (mm/day) = 29.84
 On-Farm Irrigation Requirement (cfs/acre) = 0.049
 Total On-Farm Irrigation Requirement (cfs) = 0.37
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field I
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
corn	7.4	fur	46	0	0	1.99	3.99	8.16	6.78	3.98	0.9	1.52	1.12	4.2		4.85	9.71	19.87	16.51	9.69	2.19			

Summary 7.4

4.85 9.71 19.87 16.51 9.69 2.19

Peak Gross Irrigation Application (mm/day) = 19.87
 On-Farm Irrigation Requirement (cfs/acre) = 0.033
 Total On-Farm Irrigation Requirement (cfs) = 0.24
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field I
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	7.4	fur	36	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01		1.76	1.12	4.5	4.70	6.28	15.00	27.38	22.31	14.75	6.25		

Summary 7.4

4.70 6.28 15.00 27.38 22.31 14.75 6.25

Peak Gross Irrigation Application (mm/day) = 27.38
 On-Farm Irrigation Requirement (cfs/acre) = 0.045
 Total On-Farm Irrigation Requirement (cfs) = 0.34
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field J
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)			
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug		sep	oct	
barley	15.9	cor	19	0.75	1.7	5.55	8.26	6.78	1.35		2.24	1.11	6.2	4.38	9.93	32.42	48.26	39.61	7.89						

Summary 15.9 4.38 9.93 32.42 48.26 39.61 7.89

Peak Gross Irrigation Application (mm/day) = 48.26
 On-Farm Irrigation Requirement (cfs/acre) = 0.080
 Total On-Farm Irrigation Requirement (cfs) = 1.27
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field J
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	15.9	fur	35	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	2.60	1.10	6.8	4.75	6.35	15.15	27.66	22.53	14.90	6.32			

Summary 15.9 4.75 6.35 15.15 27.66 22.53 14.90 6.32

Peak Gross Irrigation Application (mm/day) = 27.66
 On-Farm Irrigation Requirement (cfs/acre) = 0.046
 Total On-Farm Irrigation Requirement (cfs) = 0.73
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K1
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
corn	24.8	fur	29	0	0	1.99	3.99	8.16	6.78	3.98	0.9	4.44	1.06	13.0	7.27	14.58	29.83	24.78	14.55	3.29				

Summary 24.8

7.27 14.58 29.83 24.78 14.55 3.29

Peak Gross Irrigation Application (mm/day) = 29.83
 On-Farm Irrigation Requirement (cfs/acre) = 0.049
 Total On-Farm Irrigation Requirement (cfs) = 1.22
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K1
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	24.8	fur	27	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	1.76	1.12	4.5	6.26	8.38	19.99	36.50	29.74	19.66	8.34			

Summary 24.8

6.26 8.38 19.99 36.50 29.74 19.66 8.34

Peak Gross Irrigation Application (mm/day) = 36.50
 On-Farm Irrigation Requirement (cfs/acre) = 0.060
 Total On-Farm Irrigation Requirement (cfs) = 1.50
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K1
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
wheat	24.8	cor	15	0.75	1.7	5.55	8.26	6.78	1.35		1.52	1.12	4.2	5.60	12.69	41.44	61.67	50.62	10.08					

Summary 24.8 5.60 12.69 41.44 61.67 50.62 10.08

Peak Gross Irrigation Application (mm/day) = 61.67
 On-Farm Irrigation Requirement (cfs/acre) = 0.102
 Total On-Farm Irrigation Requirement (cfs) = 2.53
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K2
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
corn	10.5	fur	32	0	0	1.99	3.99	8.16	6.78	3.98	0.9	4.44	1.06	13.0	6.59	13.22	27.03	22.46	13.18	2.98		

Summary	10.5														6.59	13.22	27.03	22.46	13.18	2.98	
Peak Gross Irrigation Application (mm/day) =				27.03																	
On-Farm Irrigation Requirement (cfs/acre) =				0.045																	
Total On-Farm Irrigation Requirement (cfs) =				0.47																	
Irrigation Diversion Volume (ft/yr) =				0.00																	
Total Irrigation Diversion Volume (ac-ft/yr) =				0																	

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K2
 date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	10.5	fur	32	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	2.60	1.10	6.8	5.19	6.94	16.57	30.25	24.65	16.29	6.91			

Summary 10.5

5.19 6.94 16.57 30.25 24.65 16.29 6.91

Peak Gross Irrigation Application (mm/day) = 30.25
 On-Farm Irrigation Requirement (cfs/acre) = 0.050
 Total On-Farm Irrigation Requirement (cfs) = 0.53
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field K2
date: 01/21/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
wheat	10.5	cor	34	0.75	1.7	5.55	8.26	6.78	1.35		2.24	1.11	6.2	2.45	5.55	18.12	26.97	22.13	4.41			

Summary 10.5

2.45 5.55 18.12 26.97 22.13 4.41

Peak Gross Irrigation Application (mm/day) = 26.97
On-Farm Irrigation Requirement (cfs/acre) = 0.045
Total On-Farm Irrigation Requirement (cfs) = 0.47
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field L
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
past	2.1	cor	15	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61		1.28	1.13	4.2	6.40	27.27	38.34	47.91	51.38	43.09	32.92	19.66	

Summary 2.1

6.40 27.27 38.34 47.91 51.38 43.09 32.92 19.66

Peak Gross Irrigation Application (mm/day) = 51.38
 On-Farm Irrigation Requirement (cfs/acre) = 0.085
 Total On-Farm Irrigation Requirement (cfs) = 0.18
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field M
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)										AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct	mar	apr					may	jun	jul	aug	sep	oct					
alf hay	11.1	cor	38	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		1.76	1.12	4.5	7.28	14.80	19.54	24.35	26.11	21.90	16.74	9.99					

Summary 11.1

7.28 14.80 19.54 24.35 26.11 21.90 16.74 9.99

Peak Gross Irrigation Application (mm/day) = 26.11
 On-Farm Irrigation Requirement (cfs/acre) = 0.043
 Total On-Farm Irrigation Requirement (cfs) = 0.48
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field M
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	11.1	fur	30	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	1.76	1.12	4.5	5.64	7.54	17.99	32.85	26.77	17.70	7.50			

Summary 11.1

5.64 7.54 17.99 32.85 26.77 17.70 7.50

Peak Gross Irrigation Application (mm/day) = 32.85
 On-Farm Irrigation Requirement (cfs/acre) = 0.054
 Total On-Farm Irrigation Requirement (cfs) = 0.60
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field M
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
wheat	11.1	cor	29	0.75	1.7	5.55	8.26	6.78	1.35		1.52	1.12	4.2	2.90	6.57	21.43	31.90	26.18	5.21			

Summary 11.1

2.90 6.57 21.43 31.90 26.18 5.21

Peak Gross Irrigation Application (mm/day) = 31.90
On-Farm Irrigation Requirement (cfs/acre) = 0.053
Total On-Farm Irrigation Requirement (cfs) = 0.59
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field O
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)	
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug		sep
corn	14.3	fur	58	0	0	1.99	3.99	8.16	6.78	3.98	0.9	4.44	1.06	13.0			3.64	7.29	14.91	12.39	7.27	1.64	

Summary 14.3

3.64 7.29 14.91 12.39 7.27 1.64

Peak Gross Irrigation Application (mm/day) = 14.91
 On-Farm Irrigation Requirement (cfs/acre) = 0.025
 Total On-Farm Irrigation Requirement (cfs) = 0.35
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

initials: MP Claimant = Haas Ditch Co. - Field O
date: 01/18/06 Weather Station = Parma Exp. Station

Summary	14.3	3.26	4.36	10.40	18.98	15.46	10.22	4.34
Peak Gross Irrigation Application (mm/day) =	18.98							
On-Farm Irrigation Requirement (cfs/acre) =	0.031							
Total On-Farm Irrigation Requirement (cfs) =	0.45							
Irrigation Diversion Volume (ft/yr) =	0.00							
Total Irrigation Diversion Volume (ac-ft/yr) =	0							

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field P
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
corn	37.1	fur	32	0	0	1.99	3.99	8.16	6.78	3.98	0.9	4.44	1.06	13.0	6.59	13.22	27.03	22.46	13.18	2.98		

Summary 37.1

6.59 13.22 27.03 22.46 13.18 2.98

Peak Gross Irrigation Application (mm/day) = 27.03
On-Farm Irrigation Requirement (cfs/acre) = 0.045
Total On-Farm Irrigation Requirement (cfs) = 1.66
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field P
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	37.1	fur	31	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01	2.60	1.10	6.8	5.36	7.17	17.10	31.23	25.44	16.82	7.13			

Summary 37.1

Peak Gross Irrigation Application (mm/day) = 31.23
 On-Farm Irrigation Requirement (cfs/acre) = 0.052
 Total On-Farm Irrigation Requirement (cfs) = 1.92
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

5.36 7.17 17.10 31.23 25.44 16.82 7.13

initials: MP Claimant = Haas Ditch Co. - Field Q
date: 01/18/06 Weather Station = Parma Exp. Station

Summary	23.3	4.93	9.88	20.21	16.80	9.86	2.23
Peak Gross Irrigation Application (mm/day) =	20.21						
On-Farm Irrigation Requirement (cfs/acre) =	0.033						
Total On-Farm Irrigation Requirement (cfs) =	0.78						
Irrigation Diversion Volume (ft/yr) =	0.00						
Total Irrigation Diversion Volume (ac-ft/yr) =	0						

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Q
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
sug. beet	23.3	fur	51	0	1.51	2.02	4.82	8.8	7.17	4.74	2.01		2.60	1.10	6.8	3.26	4.36	10.40	18.98	15.46	10.22	4.34		

Summary 23.3

3.26 4.36 10.40 18.98 15.46 10.22 4.34

Peak Gross Irrigation Application (mm/day) = 18.98
 On-Farm Irrigation Requirement (cfs/acre) = 0.031
 Total On-Farm Irrigation Requirement (cfs) = 0.73
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Q
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
wheat	23.3	cor	34	0.75	1.7	5.55	8.26	6.78	1.35		2.24	1.11	6.2	2.45	5.55	18.12	26.97	22.13	4.41			

Summary 23.3 2.45 5.55 18.12 26.97 22.13 4.41

Peak Gross Irrigation Application (mm/day) = 26.97
 On-Farm Irrigation Requirement (cfs/acre) = 0.045
 Total On-Farm Irrigation Requirement (cfs) = 1.04
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field R
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
corn	26.9	fur	39	0	0	1.99	3.99	8.16	6.78	3.98	0.9	1.52	1.12	4.2	5.71	11.46	23.43	19.47	11.43	2.58		

Summary 26.9

5.71 11.46 23.43 19.47 11.43 2.58

Peak Gross Irrigation Application (mm/day) = 23.43
 On-Farm Irrigation Requirement (cfs/acre) = 0.039
 Total On-Farm Irrigation Requirement (cfs) = 1.04
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field R
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
past	26.9	cor	24	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61		1.28	1.13	4.2	4.00	17.04	23.97	29.95	32.11	26.93	20.58	12.29	

Summary 26.9 4.00 17.04 23.97 29.95 32.11 26.93 20.58 12.29

Peak Gross Irrigation Application (mm/day) = 32.11
 On-Farm Irrigation Requirement (cfs/acre) = 0.053
 Total On-Farm Irrigation Requirement (cfs) = 1.43
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field S
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
past	23.8	cor	27	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61	1.88	1.11	6.3	3.49	14.88	20.93	26.15	28.04	23.52	17.97	10.73		

Summary 23.8 3.49 14.88 20.93 26.15 28.04 23.52 17.97 10.73

Peak Gross Irrigation Application (mm/day) = 28.04
 On-Farm Irrigation Requirement (cfs/acre) = 0.046
 Total On-Farm Irrigation Requirement (cfs) = 1.10
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field W
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
corn	56.9	fur	44	0	0	1.99	3.99	8.16	6.78	3.98	0.9	2.24	1.11	6.3	5.02	10.07	20.59	17.10	10.04	2.27		

Summary 56.9 5.02 10.07 20.59 17.10 10.04 2.27

Peak Gross Irrigation Application (mm/day) = 20.59
On-Farm Irrigation Requirement (cfs/acre) = 0.034
Total On-Farm Irrigation Requirement (cfs) = 1.94
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field W
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)	
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug		sep
past	56.9	cor	29	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61	1.88	1.11	6.3	3.25	13.86	19.48	24.34	26.10	21.89	16.73	9.99	

Summary 56.9 3.25 13.86 19.48 24.34 26.10 21.89 16.73 9.99

Peak Gross Irrigation Application (mm/day) = 26.10
 On-Farm Irrigation Requirement (cfs/acre) = 0.043
 Total On-Farm Irrigation Requirement (cfs) = 2.46
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

initials: MP Claimant = Haas Ditch Co. - Field X
date: 01/18/06 Weather Station = Parma Exp. Station

Summary	11.7		6.02	12.08	24.70	20.52	12.05	2.72
Peak Gross Irrigation Application (mm/day) =	24.70							
On-Farm Irrigation Requirement (cfs/acre) =	0.041							
Total On-Farm Irrigation Requirement (cfs) =	0.48							
Irrigation Diversion Volume (ft/yr) =	0.00							
Total Irrigation Diversion Volume (ac-ft/yr) =	0							

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field X
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
past	11.7	cor	22	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61		1.28	1.13	4.2	4.37	18.59	26.14	32.67	35.03	29.38	22.45	13.41	

Summary 11.7 4.37 18.59 26.14 32.67 35.03 29.38 22.45 13.41

Peak Gross Irrigation Application (mm/day) = 35.03
 On-Farm Irrigation Requirement (cfs/acre) = 0.058
 Total On-Farm Irrigation Requirement (cfs) = 0.68
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Y
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
alf hay	23.7	cor	21	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		2.60	1.10	6.8	12.94	26.30	34.73	43.27	46.41	38.92	29.75	17.76	

Summary 23.7 12.94 26.30 34.73 43.27 46.41 38.92 29.75 17.76

Peak Gross Irrigation Application (mm/day) = 46.41
 On-Farm Irrigation Requirement (cfs/acre) = 0.077
 Total On-Farm Irrigation Requirement (cfs) = 1.82
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0.00

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Y
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
wheat	23.7	cor	15	0.75	1.7	5.55	8.26	6.78	1.35		2.24	1.11	6.2	5.55	12.58	41.07	61.12	50.17	9.99			

Summary 23.7 5.55 12.58 41.07 61.12 50.17 9.99

Peak Gross Irrigation Application (mm/day) = 61.12
 On-Farm Irrigation Requirement (cfs/acre) = 0.101
 Total On-Farm Irrigation Requirement (cfs) = 2.40
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Y
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct			
past	23.7	cor	15	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61		1.88	1.11	6.3	6.29	26.79	37.67	47.06	50.47	42.33	32.34	19.31			

Summary 23.7 6.29 26.79 37.67 47.06 50.47 42.33 32.34 19.31

Peak Gross Irrigation Application (mm/day) = 50.47
 On-Farm Irrigation Requirement (cfs/acre) = 0.083
 Total On-Farm Irrigation Requirement (cfs) = 1.98
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

Field E: MwA, hay, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 173.5 MINUTES; OR 2.9 HOURS
 GROSS APPLICATION <FG> = 5.20 INCHES
 NET APPLICATION <F_n> = 4.44 INCHES
 RUNOFF <RO> = 0.05 INCHES
 DEEP PERCOLATION <DP> = 2.55 INCHES
 EFFICIENCY <E> = 50.03 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field E: MwA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 173.5 MINUTES; OR 2.9 HOURS
 GROSS APPLICATION <FG> = 6.50 INCHES
 NET APPLICATION <F_n> = 5.55 INCHES
 RUNOFF <RO> = 0.06 INCHES
 DEEP PERCOLATION <DP> = 4.19 INCHES
 EFFICIENCY <E> = 34.48 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field E: MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 288.4 MINUTES; OR 4.8 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <F_n> = 3.74 INCHES
 RUNOFF <RO> = 0.03 INCHES
 DEEP PERCOLATION <DP> = 2.42 INCHES
 EFFICIENCY <E> = 51.46 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field E: No, alfalfa hay, corrugations

M₃FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <Fg> = 4.04 INCHES
 NET APPLICATION <F_n> = 3.25 INCHES
 RUNOFF <Ro> = 0.13 INCHES
 DEEP PERCOLATION <Dp> = 2.15 INCHES
 EFFICIENCY <E> = 43.54 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field E: No, wheat, corrugations

M₃FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <Fg> = 5.05 INCHES
 NET APPLICATION <F_n> = 4.06 INCHES
 RUNOFF <Ro> = 0.16 INCHES
 DEEP PERCOLATION <Dp> = 3.37 INCHES
 EFFICIENCY <E> = 30.08 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field E: No, sugar beets, furrows

M₃FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 5.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 356.8 MINUTES; OR 5.9 HOURS
 GROSS APPLICATION <Fg> = 3.97 INCHES
 NET APPLICATION <F_n> = 2.60 INCHES
 RUNOFF <Ro> = 0.12 INCHES
 DEEP PERCOLATION <Dp> = 2.09 INCHES
 EFFICIENCY <E> = 44.33 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 5.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field F: MwA, corn, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 700 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <TT> = 379.9 MINUTES; OR 6.3 HOURS
 GROSS APPLICATION <FG> = 4.95 INCHES
 NET APPLICATION <F_x> = 2.42 INCHES
 RUNOFF <RO> = 1.15 INCHES
 DEEP PERCOLATION <DP> = 1.56 INCHES
 EFFICIENCY <E> = 45.25 %

TO CHANGE: PRESS (EXISTING)

Design Application	<1>	2.24 in
Furrow Slope	<2>	0.002 ft/ft
Furrow Spacing	<3>	3.00 ft
Furrow Length	<4>	700 ft
Furrow Intake Family	<5>	0.70
Inflow Rate	<6>	9.0 gpm/furrow
Inflow Time	<7>	12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field F: MwA, wheat, corrugations

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 700 FEET
 INFLOW RATE <Q> = 8.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <TT> = 532.1 MINUTES; OR 8.9 HOURS
 GROSS APPLICATION <FG> = 6.60 INCHES
 NET APPLICATION <F_x> = 2.82 INCHES
 RUNOFF <RO> = 0.06 INCHES
 DEEP PERCOLATION <DP> = 4.30 INCHES
 EFFICIENCY <E> = 33.94 %

TO CHANGE: PRESS (EXISTING)

Design Application	<1>	2.24 in
Furrow Slope	<2>	0.002 ft/ft
Furrow Spacing	<3>	2.00 ft
Furrow Length	<4>	700 ft
Furrow Intake Family	<5>	0.70
Inflow Rate	<6>	8.0 gpm/furrow
Inflow Time	<7>	12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field F: MwA, sugar beets, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 700 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <TT> = 445.2 MINUTES; OR 7.4 HOURS
 GROSS APPLICATION <FG> = 7.01 INCHES
 NET APPLICATION <F_x> = 3.08 INCHES
 RUNOFF <RO> = 1.46 INCHES
 DEEP PERCOLATION <DP> = 2.95 INCHES
 EFFICIENCY <E> = 37.08 %

TO CHANGE: PRESS (EXISTING)

Design Application	<1>	2.60 in
Furrow Slope	<2>	0.002 ft/ft
Furrow Spacing	<3>	2.00 ft
Furrow Length	<4>	700 ft
Furrow Intake Family	<5>	0.70
Inflow Rate	<6>	8.5 gpm/furrow
Inflow Time	<7>	12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field G1: MwA, alfalfa hay, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 1000 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 1172.5 MINUTES; OR 19.5 HOURS
 GROSS APPLICATION <Fg> = 9.24 INCHES
 NET APPLICATION <F_n> = 3.06 INCHES
 RUNOFF <Ro> = 0.01 INCHES
 DEEP PERCOLATION <Dp> = 6.63 INCHES
 EFFICIENCY <E> = 20.14 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 1000 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field G1: MwA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1000 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 1172.5 MINUTES; OR 19.5 HOURS
 GROSS APPLICATION <Fg> = 11.55 INCHES
 NET APPLICATION <F_n> = 3.83 INCHES
 RUNOFF <Ro> = 0.01 INCHES
 DEEP PERCOLATION <Dp> = 9.30 INCHES
 EFFICIENCY <E> = 19.39 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1000 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field G1: MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1000 FEET
 INFLOW RATE <Q> = 13.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 526.8 MINUTES; OR 8.8 HOURS
 GROSS APPLICATION <Fg> = 7.51 INCHES
 NET APPLICATION <F_n> = 2.62 INCHES
 RUNOFF <Ro> = 1.63 INCHES
 DEEP PERCOLATION <Dp> = 3.28 INCHES
 EFFICIENCY <E> = 34.63 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1000 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 13.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field G1: No, alfalfa hay, corrugations

```

MS FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.76 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.50 FEET
FURROW LENGTH <L> = 1000 FEET
INFLOW RATE <Q> = 0.5 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 1199.1 MINUTES; OR 20.0 HOURS
GROSS APPLICATION <FG> = 7.05 INCHES
NET APPLICATION <Fx> = 2.26 INCHES
RUNOFF <Ro> = 0.70 INCHES
DEEP PERCOLATION <DP> = 5.32 INCHES
EFFICIENCY <E> = 22.41 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.76 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.50 ft
  Furrow Length <4> 1000 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 0.5 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

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Field G1: No, wheat, corrugations

```

MS FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1000 FEET
INFLOW RATE <Q> = 0.5 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 1199.1 MINUTES; OR 20.0 HOURS
GROSS APPLICATION <FG> = 9.02 INCHES
NET APPLICATION <Fx> = 2.82 INCHES
RUNOFF <Ro> = 0.97 INCHES
DEEP PERCOLATION <DP> = 7.33 INCHES
EFFICIENCY <E> = 15.48 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.52 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1000 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 0.5 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field G1: No, sugar beets, furrows

```

MS FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.76 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1000 FEET
INFLOW RATE <Q> = 11.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 546.7 MINUTES; OR 9.1 HOURS
GROSS APPLICATION <FG> = 6.35 INCHES
NET APPLICATION <Fx> = 1.95 INCHES
RUNOFF <Ro> = 1.70 INCHES
DEEP PERCOLATION <DP> = 2.81 INCHES
EFFICIENCY <E> = 27.71 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.76 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1000 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 11.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field G2: MwA, radish seed, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 0.59 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 5.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 586.3 MINUTES; OR 9.8 HOURS
 GROSS APPLICATION <FG> = 5.77 INCHES
 NET APPLICATION <F_N> = 1.68 INCHES
 RUNOFF <RO> = 0.85 INCHES
 DEEP PERCOLATION <DP> = 4.34 INCHES
 EFFICIENCY <E> = 10.22 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 0.59 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field G2: MwA, corn, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 6.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 329.0 MINUTES; OR 5.5 HOURS
 GROSS APPLICATION <FG> = 4.62 INCHES
 NET APPLICATION <F_N> = 2.48 INCHES
 RUNOFF <RO> = 1.04 INCHES
 DEEP PERCOLATION <DP> = 1.34 INCHES
 EFFICIENCY <E> = 40.49 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 6.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field G2: MwA, wheat, corrugations

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 5.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 427.8 MINUTES; OR 7.1 HOURS
 GROSS APPLICATION <FG> = 6.35 INCHES
 NET APPLICATION <F_N> = 3.56 INCHES
 RUNOFF <RO> = 0.15 INCHES
 DEEP PERCOLATION <DP> = 3.96 INCHES
 EFFICIENCY <E> = 35.26 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field G2: MwA, sugar beets, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 5.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 427.8 MINUTES; OR 7.1 HOURS
 GROSS APPLICATION <FG> = 6.35 INCHES
 NET APPLICATION <Fx> = 2.97 INCHES
 RUNOFF <Ro> = 1.17 INCHES
 DEEP PERCOLATION <DP> = 2.50 INCHES
 EFFICIENCY <E> = 40.93 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field H: No, pasture, corrugations

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.28 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 100 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 10.1 MINUTES; OR 0.2 HOURS
 GROSS APPLICATION <FG> = 17.32 INCHES
 NET APPLICATION <Fx> = 4.86 INCHES
 RUNOFF <Ro> = 12.43 INCHES
 DEEP PERCOLATION <DP> = 3.61 INCHES
 EFFICIENCY <E> = 7.39 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.28 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 100 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field I: No, barley, corrugations

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 407.8 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <FG> = 4.95 INCHES
 NET APPLICATION <Fx> = 2.71 INCHES
 RUNOFF <Ro> = 0.47 INCHES
 DEEP PERCOLATION <DP> = 2.96 INCHES
 EFFICIENCY <E> = 30.71 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field I: No, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 407.8 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <FG> = 3.30 INCHES
 NET APPLICATION <F_n> = 1.54 INCHES
 RUNOFF <RO> = 0.74 INCHES
 DEEP PERCOLATION <DP> = 1.04 INCHES
 EFFICIENCY <E> = 46.06 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field I: No, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 407.8 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <FG> = 4.95 INCHES
 NET APPLICATION <F_n> = 2.32 INCHES
 RUNOFF <RO> = 1.11 INCHES
 DEEP PERCOLATION <DP> = 2.08 INCHES
 EFFICIENCY <E> = 35.56 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field I: MwA, barley, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 410.4 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <FG> = 5.77 INCHES
 NET APPLICATION <F_n> = 3.38 INCHES
 RUNOFF <RO> = 0.06 INCHES
 DEEP PERCOLATION <DP> = 3.47 INCHES
 EFFICIENCY <E> = 38.79 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 3.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field I: MwA, corn, furrows

```

FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 350 FEET
INFLOW RATE <Q> = 4.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 266.1 MINUTES; OR 4.4 HOURS
GROSS APPLICATION <FG> = 4.40 INCHES
NET APPLICATION <F<sub>n</sub>> = 2.58 INCHES
RUNOFF <RO> = 1.00 INCHES
DEEP PERCOLATION <DP> = 1.16 INCHES
EFFICIENCY <E> = 50.91 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 350 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 4.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _
  
```

Field I: MwA, sugar beets, furrows

```

FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 350 FEET
INFLOW RATE <Q> = 3.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 410.4 MINUTES; OR 6.8 HOURS
GROSS APPLICATION <FG> = 5.77 INCHES
NET APPLICATION <F<sub>n</sub>> = 2.87 INCHES
RUNOFF <RO> = 0.92 INCHES
DEEP PERCOLATION <DP> = 2.26 INCHES
EFFICIENCY <E> = 45.02 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 350 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 3.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?
  
```

Field J: MwA, barley, corrugations

```

FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 900 FEET
INFLOW RATE <Q> = 9.0 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 1055.3 MINUTES; OR 17.6 HOURS
GROSS APPLICATION <FG> = 11.55 INCHES
NET APPLICATION <F<sub>n</sub>> = 4.86 INCHES
RUNOFF <RO> = 0.13 INCHES
DEEP PERCOLATION <DP> = 9.18 INCHES
EFFICIENCY <E> = 19.39 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 900 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 9.0 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?
  
```

Field J: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 900 FEET
 INFLOW RATE <Q> = 12.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 399.8 MINUTES; OR 6.7 HOURS
 GROSS APPLICATION <FG> = 5.35 INCHES
 NET APPLICATION <Fx> = 2.48 INCHES
 RUNOFF <RO> = 1.33 INCHES
 DEEP PERCOLATION <DP> = 1.78 INCHES
 EFFICIENCY <E> = 41.89 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 900 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 12.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field J: MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 900 FEET
 INFLOW RATE <Q> = 11.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 496.7 MINUTES; OR 8.3 HOURS
 GROSS APPLICATION <FG> = 7.30 INCHES
 NET APPLICATION <Fx> = 2.82 INCHES
 RUNOFF <RO> = 1.59 INCHES
 DEEP PERCOLATION <DP> = 3.19 INCHES
 EFFICIENCY <E> = 35.24 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 900 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 11.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K1: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 15.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 435.2 MINUTES; OR 7.3 HOURS
 GROSS APPLICATION <FG> = 5.50 INCHES
 NET APPLICATION <Fx> = 2.37 INCHES
 RUNOFF <RO> = 1.37 INCHES
 DEEP PERCOLATION <DP> = 1.89 INCHES
 EFFICIENCY <E> = 40.73 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 15.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K1: MwA, wheat, corrugations

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 9.5 GPM/FURROW
 APPLICATION TIME <Ti> = 36 HOURS

 ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
 GROSS APPLICATION <FG> = 15.67 INCHES
 NET APPLICATION <Fx> = 4.94 INCHES
 RUNOFF <RO> = 0.08 INCHES
 DEEP PERCOLATION <DP> = 13.35 INCHES
 EFFICIENCY <E> = 14.29 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.5 gpm/furrow
 Inflow Time <7> 36 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K1: MwA, sugar beets, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 14.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 517.5 MINUTES; OR 8.6 HOURS
 GROSS APPLICATION <FG> = 7.70 INCHES
 NET APPLICATION <Fx> = 2.75 INCHES
 RUNOFF <RO> = 1.72 INCHES
 DEEP PERCOLATION <DP> = 3.38 INCHES
 EFFICIENCY <E> = 33.77 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 14.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field K1: No, corn, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 12.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 468.5 MINUTES; OR 7.8 HOURS
 GROSS APPLICATION <FG> = 4.58 INCHES
 NET APPLICATION <Fx> = 1.72 INCHES
 RUNOFF <RO> = 1.40 INCHES
 DEEP PERCOLATION <DP> = 1.66 INCHES
 EFFICIENCY <E> = 33.17 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 12.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K1: No, wheat, corrugations

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 9.0 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 1223.3 MINUTES; OR 20.4 HOURS
GROSS APPLICATION <FG> = 9.90 INCHES
NET APPLICATION <Fx> = 2.66 INCHES
RUNOFF <RO> = 0.97 INCHES
DEEP PERCOLATION <DP> = 7.41 INCHES
EFFICIENCY <E> = 15.35 %
TO CHANGE:
  Design Application <1> 1.52 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 9.0 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: No, sugar beets, furrows

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.76 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 12.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 519.3 MINUTES; OR 8.7 HOURS
GROSS APPLICATION <FG> = 6.60 INCHES
NET APPLICATION <Fx> = 2.19 INCHES
RUNOFF <RO> = 1.92 INCHES
DEEP PERCOLATION <DP> = 2.92 INCHES
EFFICIENCY <E> = 26.67 %
TO CHANGE:
  Design Application <1> 1.76 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 12.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K1: BdA, corn, furrows

```

M5 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 4.44 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 42.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 82.8 MINUTES; OR 1.4 HOURS
GROSS APPLICATION <FG> = 15.40 INCHES
NET APPLICATION <Fx> = 4.44 INCHES
RUNOFF <RO> = 10.71 INCHES
DEEP PERCOLATION <DP> = 0.25 INCHES
EFFICIENCY <E> = 20.03 %
TO CHANGE:
  Design Application <1> 4.44 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 42.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: BdA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 868.3 MINUTES; OR 14.5 HOURS
 GROSS APPLICATION <FG> = 11.00 INCHES
 NET APPLICATION <Fn> = 5.40 INCHES
 RUNOFF <RO> = 1.49 INCHES
 DEEP PERCOLATION <DP> = 5.07 INCHES
 EFFICIENCY <E> = 40.37 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K1: BdA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 24.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 139.9 MINUTES; OR 2.3 HOURS
 GROSS APPLICATION <FG> = 13.47 INCHES
 NET APPLICATION <Fn> = 5.43 INCHES
 RUNOFF <RO> = 7.44 INCHES
 DEEP PERCOLATION <DP> = 0.62 INCHES
 EFFICIENCY <E> = 40.22 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 24.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field K2: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1300 FEET
 INFLOW RATE <Q> = 20.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 453.0 MINUTES; OR 7.6 HOURS
 GROSS APPLICATION <FG> = 5.92 INCHES
 NET APPLICATION <Fn> = 2.42 INCHES
 RUNOFF <RO> = 1.57 INCHES
 DEEP PERCOLATION <DP> = 2.12 INCHES
 EFFICIENCY <E> = 37.82 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1300 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 20.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K2: MwA, wheat, corrugations

```

M3 FURROW
Auto
OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY
INCREASING 'Q'.
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.24 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1300 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 10.0 gpm/furrow
Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? 7
INFLOW TIME? 36
OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY
INCREASING 'Q'.
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.24 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1300 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 10.0 gpm/furrow
Inflow Time <7> 36 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K2: MwA, wheat, furrows, split furrow lengths to 650 ft

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 7.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 480.1 MINUTES; OR 8.0 HOURS
GROSS APPLICATION <FG> = 6.66 INCHES
NET APPLICATION <Fx> = 3.31 INCHES
RUNOFF <RO> = 0.13 INCHES
DEEP PERCOLATION <DP> = 4.29 INCHES
EFFICIENCY <E> = 33.62 %
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.24 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 650 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 7.5 gpm/furrow
Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K2: MwA, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1300 FEET
INFLOW RATE <Q> = 18.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 543.8 MINUTES; OR 9.1 HOURS
GROSS APPLICATION <FG> = 8.22 INCHES
NET APPLICATION <Fx> = 2.65 INCHES
RUNOFF <RO> = 1.95 INCHES
DEEP PERCOLATION <DP> = 3.67 INCHES
EFFICIENCY <E> = 31.64 %
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.60 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1300 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 18.5 gpm/furrow
Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K2: BdA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1300 FEET
 INFLOW RATE <Q> = 47.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 109.9 MINUTES; OR 1.8 HOURS
 GROSS APPLICATION <Fg> = 14.07 INCHES
 NET APPLICATION <Fv> = 4.45 INCHES
 RUNOFF <Ro> = 9.27 INCHES
 DEEP PERCOLATION <Dp> = 0.36 INCHES
 EFFICIENCY <E> = 31.56 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1300 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 47.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field K2: BdA, wheat, corrugations

FURROW

Auto

OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY INCREASING 'Q'.

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1300 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? 7

INFLOW TIME? 36

OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY INCREASING 'Q'.

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1300 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 36 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field K2: BdA, wheat, corrugations, field split into 650 ft lengths

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 232.5 MINUTES; OR 3.9 HOURS
 GROSS APPLICATION <Fg> = 7.55 INCHES
 NET APPLICATION <Fv> = 4.63 INCHES
 RUNOFF <Ro> = 1.81 INCHES
 DEEP PERCOLATION <Dp> = 1.31 INCHES
 EFFICIENCY <E> = 50.80 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K2: BdA, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 5.42 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1300 FEET
INFLOW RATE <Q> = 30.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 175.6 MINUTES; OR 2.9 HOURS
GROSS APPLICATION <FG> = 13.33 INCHES
NET APPLICATION <F<= > = 5.45 INCHES
RUNOFF <RO> = 7.06 INCHES
DEEP PERCOLATION <DP> = 0.95 INCHES
EFFICIENCY <E> = 40.67 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 5.42 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1300 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 30.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field L: MWA, pasture, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 1.88 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 200 FEET
INFLOW RATE <Q> = 3.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 73.8 MINUTES; OR 1.2 HOURS
GROSS APPLICATION <FG> = 8.66 INCHES
NET APPLICATION <F<= > = 5.62 INCHES
RUNOFF <RO> = 2.70 INCHES
DEEP PERCOLATION <DP> = 4.08 INCHES
EFFICIENCY <E> = 21.70 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.88 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 200 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 3.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field L: No, pasture, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.28 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 200 FEET
INFLOW RATE <Q> = 3.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 53.6 MINUTES; OR 0.9 HOURS
GROSS APPLICATION <FG> = 8.66 INCHES
NET APPLICATION <F<= > = 4.65 INCHES
RUNOFF <RO> = 3.83 INCHES
DEEP PERCOLATION <DP> = 3.56 INCHES
EFFICIENCY <E> = 14.78 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.28 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 200 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 3.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field M: No, alfalfa hay, corrugations

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 6.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 464.1 MINUTES; OR 7.7 HOURS
 GROSS APPLICATION <FG> = 4.62 INCHES
 NET APPLICATION <Fx> = 2.21 INCHES
 RUNOFF <RO> = 0.51 INCHES
 DEEP PERCOLATION <DP> = 2.35 INCHES
 EFFICIENCY <E> = 30.10 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field M: No, wheat, corrugations

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 6.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 592.8 MINUTES; OR 9.9 HOURS
 GROSS APPLICATION <FG> = 5.33 INCHES
 NET APPLICATION <Fx> = 1.69 INCHES
 RUNOFF <RO> = 0.43 INCHES
 DEEP PERCOLATION <DP> = 3.30 INCHES
 EFFICIENCY <E> = 28.51 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field M: No, sugar beets, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 6.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 464.1 MINUTES; OR 7.7 HOURS
 GROSS APPLICATION <FG> = 5.77 INCHES
 NET APPLICATION <Fx> = 2.29 INCHES
 RUNOFF <RO> = 1.52 INCHES
 DEEP PERCOLATION <DP> = 2.50 INCHES
 EFFICIENCY <E> = 30.40 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field M: BdA, alfalfa hay, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 6.5 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 464.1 MINUTES; OR 7.7 HOURS
 GROSS APPLICATION <FG> = 9.24 INCHES
 NET APPLICATION <F_N> = 5.75 INCHES
 RUNOFF <RO> = 2.01 INCHES
 DEEP PERCOLATION <DP> = 1.81 INCHES
 EFFICIENCY <E> = 58.66 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.5 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field M: BdA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 232.5 MINUTES; OR 3.9 HOURS
 GROSS APPLICATION <FG> = 7.55 INCHES
 NET APPLICATION <F_N> = 4.63 INCHES
 RUNOFF <RO> = 1.81 INCHES
 DEEP PERCOLATION <DP> = 1.31 INCHES
 EFFICIENCY <E> = 58.80 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field M: BdA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 17.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 73.2 MINUTES; OR 1.2 HOURS
 GROSS APPLICATION <FG> = 15.55 INCHES
 NET APPLICATION <F_N> = 5.43 INCHES
 RUNOFF <RO> = 9.04 INCHES
 DEEP PERCOLATION <DP> = 0.29 INCHES
 EFFICIENCY <E> = 34.86 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 17.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field N: MwA, radish seed, furrows

M² FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 0.59 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 450 FEET
 INFLOW RATE <Q> = 4.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 527.6 MINUTES; OR 8.8 HOURS
 GROSS APPLICATION <FG> = 5.77 INCHES
 NET APPLICATION <Fx> = 2.13 INCHES
 RUNOFF <Ro> = 0.86 INCHES
 DEEP PERCOLATION <DP> = 4.33 INCHES
 EFFICIENCY <E> = 10.22 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 0.59 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 450 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 4.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field N: MwA, corn, furrows

M² FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 450 FEET
 INFLOW RATE <Q> = 5.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 280.9 MINUTES; OR 4.7 HOURS
 GROSS APPLICATION <FG> = 4.71 INCHES
 NET APPLICATION <Fx> = 2.66 INCHES
 RUNOFF <Ro> = 1.14 INCHES
 DEEP PERCOLATION <DP> = 1.33 INCHES
 EFFICIENCY <E> = 47.61 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 450 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field N: MwA, wheat, corrugations

M² FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 450 FEET
 INFLOW RATE <Q> = 5.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 373.1 MINUTES; OR 6.2 HOURS
 GROSS APPLICATION <FG> = 6.42 INCHES
 NET APPLICATION <Fx> = 3.31 INCHES
 RUNOFF <Ro> = 1.25 INCHES
 DEEP PERCOLATION <DP> = 2.92 INCHES
 EFFICIENCY <E> = 34.91 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 450 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field N: MwA, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 450 FEET
INFLOW RATE <Q> = 5.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 373.1 MINUTES; OR 6.2 HOURS
GROSS APPLICATION <FG> = 6.42 INCHES
NET APPLICATION <Fn> = 3.31 INCHES
RUNOFF <RO> = 1.25 INCHES
DEEP PERCOLATION <DP> = 2.56 INCHES
EFFICIENCY <E> = 40.52 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 450 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 5.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field O: MvA, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.005 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 800 FEET
INFLOW RATE <Q> = 7.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 350.0 MINUTES; OR 6.0 HOURS
GROSS APPLICATION <FG> = 5.05 INCHES
NET APPLICATION <Fn> = 3.34 INCHES
RUNOFF <RO> = 0.04 INCHES
DEEP PERCOLATION <DP> = 2.41 INCHES
EFFICIENCY <E> = 51.46 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.005 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 800 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 7.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field O: MvA, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.005 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 800 FEET
INFLOW RATE <Q> = 7.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 303.6 MINUTES; OR 5.1 HOURS
GROSS APPLICATION <FG> = 3.61 INCHES
NET APPLICATION <Fn> = 2.50 INCHES
RUNOFF <RO> = 0.18 INCHES
DEEP PERCOLATION <DP> = 1.19 INCHES
EFFICIENCY <E> = 62.06 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.005 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 800 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 7.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field O: BdA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.005 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 6.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 360.4 MINUTES; OR 6.0 HOURS
 GROSS APPLICATION <Fg> = 0.66 INCHES
 NET APPLICATION <Fn> = 5.86 INCHES
 RUNOFF <Ro> = 1.77 INCHES
 DEEP PERCOLATION <Dp> = 1.47 INCHES
 EFFICIENCY <E> = 62.57 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.005 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field O: BdA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.005 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 0.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 194.0 MINUTES; OR 3.2 HOURS
 GROSS APPLICATION <Fg> = 7.70 INCHES
 NET APPLICATION <Fn> = 4.55 INCHES
 RUNOFF <Ro> = 2.79 INCHES
 DEEP PERCOLATION <Dp> = 0.47 INCHES
 EFFICIENCY <E> = 57.66 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.005 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 0.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: MvA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 19.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 544.8 MINUTES; OR 9.1 HOURS
 GROSS APPLICATION <Fg> = 8.34 INCHES
 NET APPLICATION <Fn> = 2.67 INCHES
 RUNOFF <Ro> = 2.00 INCHES
 DEEP PERCOLATION <Dp> = 3.74 INCHES
 EFFICIENCY <E> = 31.17 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 19.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: MvA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 21.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 458.9 MINUTES; OR 7.6 HOURS
 GROSS APPLICATION <Fg> = 5.99 INCHES
 NET APPLICATION <Fx> = 2.41 INCHES
 RUNOFF <Ro> = 1.59 INCHES
 DEEP PERCOLATION <Dp> = 2.15 INCHES
 EFFICIENCY <E> = 37.48 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 21.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: BdA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 31.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 103.6 MINUTES; OR 3.1 HOURS
 GROSS APPLICATION <Fg> = 13.26 INCHES
 NET APPLICATION <Fx> = 5.44 INCHES
 RUNOFF <Ro> = 6.96 INCHES
 DEEP PERCOLATION <Dp> = 0.08 INCHES
 EFFICIENCY <E> = 40.87 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 31.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: BdA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 48.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 115.7 MINUTES; OR 1.9 HOURS
 GROSS APPLICATION <Fg> = 13.83 INCHES
 NET APPLICATION <Fx> = 4.45 INCHES
 RUNOFF <Ro> = 9.02 INCHES
 DEEP PERCOLATION <Dp> = 0.38 INCHES
 EFFICIENCY <E> = 32.10 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 48.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: MvA/MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 288.4 MINUTES; OR 4.8 HOURS
 GROSS APPLICATION <FG> = 3.37 INCHES
 NET APPLICATION <Fx> = 2.49 INCHES
 RUNOFF <RO> = 0.02 INCHES
 DEEP PERCOLATION <DP> = 1.11 INCHES
 EFFICIENCY <E> = 66.50 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: MvA/MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 288.4 MINUTES; OR 4.8 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <Fx> = 3.74 INCHES
 RUNOFF <RO> = 0.03 INCHES
 DEEP PERCOLATION <DP> = 2.42 INCHES
 EFFICIENCY <E> = 51.46 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: MvA/MwA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 173.5 MINUTES; OR 2.9 HOURS
 GROSS APPLICATION <FG> = 6.50 INCHES
 NET APPLICATION <Fx> = 5.55 INCHES
 RUNOFF <RO> = 0.06 INCHES
 DEEP PERCOLATION <DP> = 4.19 INCHES
 EFFICIENCY <E> = 34.48 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: OgA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.07 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 14.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 77.1 MINUTES; OR 1.3 HOURS
 GROSS APPLICATION <FG> = 6.98 INCHES
 NET APPLICATION <Fx> = 3.08 INCHES
 RUNOFF <RO> = 3.73 INCHES
 DEEP PERCOLATION <DP> = 0.18 INCHES
 EFFICIENCY <E> = 44.08 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.07 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 14.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field Q: OgA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.34 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <Fx> = 3.44 INCHES
 RUNOFF <RO> = 0.92 INCHES
 DEEP PERCOLATION <DP> = 0.79 INCHES
 EFFICIENCY <E> = 66.10 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.34 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field Q: OgA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.07 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <Fx> = 4.06 INCHES
 RUNOFF <RO> = 0.16 INCHES
 DEEP PERCOLATION <DP> = 1.82 INCHES
 EFFICIENCY <E> = 60.76 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.07 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field R: MvA, corn, furrows

```

MS FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.003 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1100 FEET
INFLOW RATE <Q> = 13.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 404.2 MINUTES; OR 6.7 HOURS
GROSS APPLICATION <FG> = 4.72 INCHES
NET APPLICATION <Fx> = 2.39 INCHES
RUNOFF <RO> = 0.86 INCHES
DEEP PERCOLATION <DP> = 1.65 INCHES
EFFICIENCY <E> = 47.41 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.003 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1100 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 13.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field R: MvA, pasture, corrugations, split furrows into 550 ft lengths

```

MS FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.003 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1100 FEET
INFLOW RATE <Q> = 11.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 458.1 MINUTES; OR 7.6 HOURS
GROSS APPLICATION <FG> = 3.85 INCHES
NET APPLICATION <Fx> = 1.65 INCHES
RUNOFF <RO> = 0.87 INCHES
DEEP PERCOLATION <DP> = 1.46 INCHES
EFFICIENCY <E> = 39.48 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.52 in
  Furrow Slope <2> 0.003 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1100 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 11.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field R: No, corn, furrows

```

MS FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.28 INCHES
FURROW SLOPE <S> = 0.003 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1100 FEET
INFLOW RATE <Q> = 10.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 582.3 MINUTES; OR 9.7 HOURS
GROSS APPLICATION <FG> = 5.25 INCHES
NET APPLICATION <Fx> = 1.91 INCHES
RUNOFF <RO> = 0.07 INCHES
DEEP PERCOLATION <DP> = 3.90 INCHES
EFFICIENCY <E> = 24.38 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.28 in
  Furrow Slope <2> 0.003 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1100 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 10.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field R: No, pasture, corrugations

```

FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.003 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1100 FEET
INFLOW RATE <Q> = 11.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 458.1 MINUTES; OR 7.6 HOURS
GROSS APPLICATION <FG> = 3.05 INCHES
NET APPLICATION <Fx> = 1.65 INCHES
RUNOFF <RO> = 0.87 INCHES
DEEP PERCOLATION <DP> = 1.46 INCHES
EFFICIENCY <E> = 39.48 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.52 in
  Furrow Slope <2> 0.003 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1100 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 11.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS: <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _
  
```

Field S: MvA, pasture, corrugations

```

FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 1.88 INCHES
FURROW SLOPE <S> = 0.003 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 750 FEET
INFLOW RATE <Q> = 9.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 290.4 MINUTES; OR 4.8 HOURS
GROSS APPLICATION <FG> = 6.93 INCHES
NET APPLICATION <Fx> = 5.02 INCHES
RUNOFF <RO> = 0.17 INCHES
DEEP PERCOLATION <DP> = 4.88 INCHES
EFFICIENCY <E> = 27.13 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.88 in
  Furrow Slope <2> 0.003 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 750 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 9.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS: <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _
  
```

Field S: MvA, corn, furrows

```

FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.003 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 750 FEET
INFLOW RATE <Q> = 8.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 333.6 MINUTES; OR 5.6 HOURS
GROSS APPLICATION <FG> = 4.36 INCHES
NET APPLICATION <Fx> = 2.53 INCHES
RUNOFF <RO> = 0.72 INCHES
DEEP PERCOLATION <DP> = 1.40 INCHES
EFFICIENCY <E> = 51.34 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.003 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 750 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 8.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS: <8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _
  
```

Field W: OgA, corn, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.07 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 13.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 154.5 MINUTES; OR 2.6 HOURS
 GROSS APPLICATION <FG> = 6.67 INCHES
 NET APPLICATION <Fn> = 3.07 INCHES
 RUNOFF <RO> = 3.19 INCHES
 DEEP PERCOLATION <DP> = 0.41 INCHES
 EFFICIENCY <E> = 46.01 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.07 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 13.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field W: OgA, pasture, corrugations

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 2.80 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 8.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 445.7 MINUTES; OR 7.4 HOURS
 GROSS APPLICATION <FG> = 6.16 INCHES
 NET APPLICATION <Fn> = 3.04 INCHES
 RUNOFF <RO> = 0.70 INCHES
 DEEP PERCOLATION <DP> = 2.58 INCHES
 EFFICIENCY <E> = 45.46 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.80 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 8.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field W: MvA, corn, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 369.7 MINUTES; OR 6.2 HOURS
 GROSS APPLICATION <FG> = 5.13 INCHES
 NET APPLICATION <Fn> = 2.53 INCHES
 RUNOFF <RO> = 1.25 INCHES
 DEEP PERCOLATION <DP> = 1.64 INCHES
 EFFICIENCY <E> = 43.64 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field W: MvA, pasture, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 1.88 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 0.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 584.9 MINUTES; OR 9.7 HOURS
 GROSS APPLICATION <FG> = 6.54 INCHES
 NET APPLICATION <Fx> = 2.28 INCHES
 RUNOFF <RO> = 0.00 INCHES
 DEEP PERCOLATION <DP> = 4.66 INCHES
 EFFICIENCY <E> = 28.73 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.88 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 0.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field X: MvA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 369.7 MINUTES; OR 6.2 HOURS
 GROSS APPLICATION <FG> = 5.13 INCHES
 NET APPLICATION <Fx> = 2.53 INCHES
 RUNOFF <RO> = 1.25 INCHES
 DEEP PERCOLATION <DP> = 1.64 INCHES
 EFFICIENCY <E> = 43.64 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field X: MvA, pasture, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 1.88 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 0.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 584.9 MINUTES; OR 9.7 HOURS
 GROSS APPLICATION <FG> = 6.54 INCHES
 NET APPLICATION <Fx> = 2.28 INCHES
 RUNOFF <RO> = 0.00 INCHES
 DEEP PERCOLATION <DP> = 4.66 INCHES
 EFFICIENCY <E> = 28.73 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.88 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 0.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field X: No, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 750 FEET
INFLOW RATE <Q> = 8.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 445.7 MINUTES; OR 7.4 HOURS
GROSS APPLICATION <FG> = 4.11 INCHES
NET APPLICATION <Fx> = 1.67 INCHES
RUNOFF <Ro> = 1.15 INCHES
DEEP PERCOLATION <DP> = 1.43 INCHES
EFFICIENCY <E> = 37.01 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.52 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 750 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 8.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field X: No, pasture, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.20 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 750 FEET
INFLOW RATE <Q> = 7.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 535.5 MINUTES; OR 8.9 HOURS
GROSS APPLICATION <FG> = 5.77 INCHES
NET APPLICATION <Fx> = 2.20 INCHES
RUNOFF <Ro> = 0.57 INCHES
DEEP PERCOLATION <DP> = 3.92 INCHES
EFFICIENCY <E> = 22.17 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.20 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 750 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 7.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field Y: MvA/MwA, alfalfa hay, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.50 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 9.5 GPM/FURROW
APPLICATION TIME <Ti> = 36 HOURS
*****
ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
GROSS APPLICATION <FG> = 12.54 INCHES
NET APPLICATION <Fx> = 3.95 INCHES
RUNOFF <Ro> = 0.06 INCHES
DEEP PERCOLATION <DP> = 9.87 INCHES
EFFICIENCY <E> = 20.73 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.50 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 9.5 gpm/furrow
  Inflow Time <7> 36 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field Y: MvA/MwA, wheat, corrugations

M₂ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 9.5 GPM/FURROW
 APPLICATION TIME <Ti> = 36 HOURS

 ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
 GROSS APPLICATION <FG> = 15.67 INCHES
 NET APPLICATION <Fx> = 4.94 INCHES
 RUNOFF <RO> = 0.08 INCHES
 DEEP PERCOLATION <DP> = 13.35 INCHES
 EFFICIENCY <E> = 14.29 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.5 gpm/furrow
 Inflow Time <7> 36 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Y: MvA/MwA, pasture, corrugations

M₂ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 1.88 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 9.5 GPM/FURROW
 APPLICATION TIME <Ti> = 36 HOURS

 ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
 GROSS APPLICATION <FG> = 15.67 INCHES
 NET APPLICATION <Fx> = 4.94 INCHES
 RUNOFF <RO> = 0.08 INCHES
 DEEP PERCOLATION <DP> = 13.71 INCHES
 EFFICIENCY <E> = 11.99 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.88 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.5 gpm/furrow
 Inflow Time <7> 36 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field A: MwA, corn, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 6.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <Tt> = 329.0 MINUTES; OR 5.5 HOURS
 GROSS APPLICATION <Fg> = 4.62 INCHES
 NET APPLICATION <Fn> = 2.48 INCHES
 RUNOFF <Ro> = 1.04 INCHES
 DEEP PERCOLATION <Dp> = 1.34 INCHES
 EFFICIENCY <E> = 48.49 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 6.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field B: MwA, corn, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 10.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <Tt> = 410.9 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <Fg> = 5.05 INCHES
 NET APPLICATION <Fn> = 2.33 INCHES
 RUNOFF <Ro> = 1.18 INCHES
 DEEP PERCOLATION <Dp> = 1.64 INCHES
 EFFICIENCY <E> = 44.33 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field C: MwA, corn, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 200 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <Tt> = 73.8 MINUTES; OR 1.2 HOURS
 GROSS APPLICATION <Fg> = 5.77 INCHES
 NET APPLICATION <Fn> = 3.20 INCHES
 RUNOFF <Ro> = 2.37 INCHES
 DEEP PERCOLATION <Dp> = 1.16 INCHES
 EFFICIENCY <E> = 38.79 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 200 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field D: MwA, corn, furrows

The screenshot shows a window titled "FURROW" with a menu bar containing "Auto" and several icons. The main area displays design parameters for a furrow system. The parameters are listed in two columns, with the first column showing the parameter name and the second column showing the value. The parameters are: INTAKE FAMILY <I> = 0.70, DESIGN APPLICATION <F> = 2.24 INCHES, FURROW SLOPE <S> = 0.002 FEET/FOOT, FURROW SPACING <W> = 3.00 FEET, FURROW LENGTH <L> = 400 FEET, INFLOW RATE <Q> = 4.5 GPM/FURROW, APPLICATION TIME <Ti> = 12 HOURS. A separator line of asterisks follows. The next set of parameters is: ADVANCE TIME <Tt> = 319.1 MINUTES; OR 5.3 HOURS, GROSS APPLICATION <Fg> = 4.33 INCHES, NET APPLICATION <Fn> = 2.41 INCHES, RUNOFF <RO> = 0.90 INCHES, DEEP PERCOLATION <DP> = 1.19 INCHES, and EFFICIENCY <E> = 51.72 %. Below these is a menu titled "TO CHANGE:" with options: Design Application <1>, Furrow Slope <2>, Furrow Spacing <3>, Furrow Length <4>, Furrow Intake Family <5>, Inflow Rate <6>, Inflow Time <7>, and (EXISTING). The menu is followed by "TO PRINT: DATA WITH HEADING PRESS <0/9>". At the bottom, it says "NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?".

Parameter	Value
INTAKE FAMILY <I>	0.70
DESIGN APPLICATION <F>	2.24 INCHES
FURROW SLOPE <S>	0.002 FEET/FOOT
FURROW SPACING <W>	3.00 FEET
FURROW LENGTH <L>	400 FEET
INFLOW RATE <Q>	4.5 GPM/FURROW
APPLICATION TIME <Ti>	12 HOURS

ADVANCE TIME <Tt>	319.1 MINUTES; OR 5.3 HOURS
GROSS APPLICATION <Fg>	4.33 INCHES
NET APPLICATION <Fn>	2.41 INCHES
RUNOFF <RO>	0.90 INCHES
DEEP PERCOLATION <DP>	1.19 INCHES
EFFICIENCY <E>	51.72 %
TO CHANGE:	
Design Application <1>	2.24 in
Furrow Slope <2>	0.002 ft/ft
Furrow Spacing <3>	3.00 ft
Furrow Length <4>	400 ft
Furrow Intake Family <5>	0.70
Inflow Rate <6>	4.5 gpm/furrow
Inflow Time <7>	12 hours
(EXISTING)	
TO PRINT: DATA WITH HEADING PRESS <0/9>	
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?	

80th Percentile Values of Monthly ET (mm/day)

Station: Parma Exp. Station

		ETR	ALFH	ALFS	BEANS	F CRN	SILGE	S CRN	PEAS	POTAT	SBEET	SGRAN	WGRAN	PAST	ORCHD	VEGES	ONION	HOPS
March	AVE ET	2.23		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	1.38	0.77	0.00	0.00	0.00	0.00
March	STDD ET	0.29		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18	0.10	0.00	0.00	0.00	0.00
March	80PCT ET	2.47	U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.53	0.85	0.00	0.00	0.00	0.00
			S															
April	AVE ET	4.67	E	3.64	0.00	0.00	0.00	0.00	1.53	1.40	1.40	1.58	4.53	3.37	2.04	0.00	1.54	1.46
April	STDD ET	0.42		0.33	0.00	0.00	0.00	0.00	0.14	0.13	0.13	0.14	0.41	0.30	0.18	0.00	0.14	0.13
April	80PCT ET	5.02		3.92	0.00	0.00	0.00	0.00	1.65	1.51	1.51	1.70	4.88	3.62	2.19	0.00	1.66	1.57
			E															
May	AVE ET	6.24	T	5.61	1.87	1.87	1.87	1.87	4.41	2.39	1.90	5.23	6.24	4.80	4.10	1.98	3.17	4.37
May	STDD ET	0.46	R	0.41	0.14	0.14	0.14	0.14	0.32	0.18	0.14	0.38	0.46	0.35	0.30	0.15	0.23	0.32
May	80PCT ET	6.63		5.96	1.99	1.99	1.99	1.99	4.68	2.54	2.02	5.55	6.63	5.09	4.35	2.11	3.36	4.64
June	AVE ET	7.86	F	6.73	4.17	3.80	3.80	3.97	5.59	6.05	4.58	7.86	7.85	6.05	6.51	4.53	5.24	7.46
June	STDD ET	0.48	O	0.41	0.25	0.23	0.23	0.24	0.34	0.37	0.28	0.48	0.48	0.37	0.39	0.27	0.32	0.45
June	80PCT ET	8.26	R	7.08	4.38	3.99	3.99	4.17	5.88	6.36	4.82	8.26	8.25	6.36	6.84	4.76	5.51	7.84
July	AVE ET	8.58		5.28	7.92	7.91	7.91	7.87	2.17	7.13	8.52	6.57	4.99	6.61	7.29	6.75	6.76	8.15
July	STDD ET	0.33	A	0.20	0.30	0.30	0.30	0.30	0.08	0.27	0.33	0.25	0.19	0.25	0.28	0.26	0.26	0.31
July	80PCT ET	8.86	L	5.45	8.17	8.16	8.16	8.12	2.24	7.36	8.80	6.78	5.15	6.82	7.53	6.97	6.98	8.41
			F															
August	AVE ET	7.14	A	2.92	3.29	6.52	6.52	6.07	0.00	5.32	6.89	1.30	1.09	5.50	6.07	5.63	5.72	6.77
August	STDD ET	0.34	L	0.14	0.16	0.31	0.31	0.29	0.00	0.25	0.33	0.06	0.05	0.26	0.29	0.27	0.27	0.32
August	80PCT ET	7.43	F	3.04	3.42	6.78	6.78	6.31	0.00	5.53	7.17	1.35	1.13	5.72	6.31	5.86	5.95	7.04
			A															
September	AVE ET	5.39		1.40	0.56	3.78	3.78	0.00	0.00	2.65	4.50	0.00	0.00	4.15	4.42	3.50	4.14	4.85
September	STDD ET	0.34		0.09	0.04	0.24	0.24	0.00	0.00	0.17	0.28	0.00	0.00	0.26	0.28	0.22	0.26	0.30
September	80PCT ET	5.68	H	1.48	0.59	3.98	3.98	0.00	0.00	2.79	4.74	0.00	0.00	4.37	4.66	3.69	4.36	5.10
			A															
October	AVE ET	3.17	Y	0.34	0.00	0.84	0.00	0.00	0.00	0.00	1.88	0.00	0.00	2.44	1.93	0.00	0.00	0.00
October	STDD ET	0.26		0.03	0.00	0.07	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.20	0.16	0.00	0.00	0.00
October	80PCT ET	3.39		0.37	0.00	0.90	0.00	0.00	0.00	0.00	2.01	0.00	0.00	2.61	2.06	0.00	0.00	0.00

ET and standard deviation data (AVE ET and STDD ET) taken from Appendix E (unpublished) of Brockway, C.E., and R.G. Allen, 1983, Estimating Consumptive Irrigation Requirements for Crops in Idaho, Idaho Water and Energy Resources Research Institute.

80th Percentile ET values (80PCT ET) calculated based on Waipole, R.E., and R.H. Meyers, 1985, third edition, PROBABILITY AND STATISTICS FOR ENGINEERS AND SCIENTISTS, New York: Macmillan Publishing Company, pp. 132-144 and 574.

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Baldock (BdA)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	8	0.16	0.21	7.9	8.4	1	2	1	2.22	1.5	0.5
8	56	0.16	0.21					2	4.44		
56	60	0.09	0.15					3	6.66		
								4	8.88	alternate	
								5	10.84	method	
										2	0.55

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	5.42
corn (field or silage)	4	0.5	4.44
grain (winter or spring)	4	0.5	4.44
pasture (or grass hay)	3	0.5	3.33
other (enter below)			
sugar beets	5	0.5	5.42

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Moulton (MvA)

Source of Soils Data =

National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	3	0.16	0.18	6.6	7.8	2	4	1	1.68	2	0.55
3	21	0.11	0.15					2	3.03		
21	60	0.04	0.08					3	3.75		
								4	4.47	alternate	
								5	5.19	method	
										3	0.7

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.60
corn (field or silage)	4	0.5	2.24
grain (winter or spring)	4	0.5	2.24
pasture (or grass hay)	3	0.5	1.88
other (enter below)			
sugar beets	5	0.5	2.60

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Notus (No)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	1	0.11	0.13	6.1	8.4	0.5	1	1	1.44	2	0.55
1	14	0.11	0.13					2	2.08		
14	60	0.03	0.05					3	2.56		
								4	3.04	alternate	
								5	3.52	method	
										2	0.55

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	1.76
corn (field or silage)	4	0.5	1.52
grain (winter or spring)	4	0.5	1.52
pasture (or grass hay)	3	0.5	1.28
other (enter below)			
sugar beets	5	0.5	1.76
radishes	1	0.35	0.50

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Oliaga (OgA)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	8	0.16	0.18	7.4	9	1	3	1	1.98	1.5	0.5
8	35	0.13	0.18					2	3.84		
35	60	0.03	0.06					3	5.59		
								4	6.13	alternate	
								5	6.67	method	
										2	0.55

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	3.34
corn (field or silage)	4	0.5	3.07
grain (winter or spring)	4	0.5	3.07
pasture (or grass hay)	3	0.5	2.80
other (enter below)			
sugar beets	5	0.5	3.34

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field X
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
past	11.7	cor	22	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61		1.28	1.13	4.2	4.37	18.59	26.14	32.67	35.03	29.38	22.45	13.41	

Summary 11.7 4.37 18.59 26.14 32.67 35.03 29.38 22.45 13.41

Peak Gross Irrigation Application (mm/day) = 35.03
On-Farm Irrigation Requirement (cfs/acre) = 0.058
Total On-Farm Irrigation Requirement (cfs) = 0.68
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Y
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)										AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)										season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct	mar	apr					may	jun	jul	aug	sep	oct					
alf hay	23.7	cor	21	2.47	5.02	6.63	8.26	8.86	7.43	5.68	3.39		2.60	1.10	6.8	12.94	26.30	34.73	43.27	46.41	38.92	29.75	17.76					

Summary 23.7 12.94 26.30 34.73 43.27 46.41 38.92 29.75 17.76

Peak Gross Irrigation Application (mm/day) = 46.41
 On-Farm Irrigation Requirement (cfs/acre) = 0.077
 Total On-Farm Irrigation Requirement (cfs) = 1.82
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Y
 date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)							AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)							season (mm/yr)
				mar	apr	may	jun	jul	aug	sep					oct	mar	apr	may	jun	jul	aug	
wheat	23.7	cor	15	0.75	1.7	5.55	8.26	6.78	1.35		2.24	1.11	6.2	5.55	12.58	41.07	61.12	50.17	9.99			

Summary 23.7 5.55 12.58 41.07 61.12 50.17 9.99

Peak Gross Irrigation Application (mm/day) = 61.12
 On-Farm Irrigation Requirement (cfs/acre) = 0.101
 Total On-Farm Irrigation Requirement (cfs) = 2.40
 Irrigation Diversion Volume (ft/yr) = 0.00
 Total Irrigation Diversion Volume (ac-ft/yr) = 0

FIELD IRRIGATION REQUIREMENT

initials: MP Claimant = Haas Ditch Co. - Field Y
date: 01/18/06 Weather Station = Parma Exp. Station

crop	acres	irrig. system	eff. (%)	Monthly ET (mm/day)								AVE IR season (mm/yr)	net irrig. app. (in)	ET ratio	irrig. freq. (days)	Gross Irrigation Application (peak period ET/eff. in mm/day)								season (mm/yr)
				mar	apr	may	jun	jul	aug	sep	oct					mar	apr	may	jun	jul	aug	sep	oct	
past	23.7	cor	15	0.85	3.62	5.09	6.36	6.82	5.72	4.37	2.61		1.88	1.11	6.3	6.29	26.79	37.67	47.06	50.47	42.33	32.34	19.31	

Summary 23.7 6.29 26.79 37.67 47.06 50.47 42.33 32.34 19.31

Peak Gross Irrigation Application (mm/day) = 50.47
On-Farm Irrigation Requirement (cfs/acre) = 0.083
Total On-Farm Irrigation Requirement (cfs) = 1.98
Irrigation Diversion Volume (ft/yr) = 0.00
Total Irrigation Diversion Volume (ac-ft/yr) = 0

Field E: MwA, hay, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 173.5 MINUTES; OR 2.9 HOURS
 GROSS APPLICATION <Fg> = 5.20 INCHES
 NET APPLICATION <F< = 4.44 INCHES
 RUNOFF <Ro> = 0.05 INCHES
 DEEP PERCOLATION <Dp> = 2.55 INCHES
 EFFICIENCY <E> = 50.03 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field E: MwA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 173.5 MINUTES; OR 2.9 HOURS
 GROSS APPLICATION <Fg> = 6.50 INCHES
 NET APPLICATION <F< = 5.55 INCHES
 RUNOFF <Ro> = 0.06 INCHES
 DEEP PERCOLATION <Dp> = 4.19 INCHES
 EFFICIENCY <E> = 34.48 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field E: MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 288.4 MINUTES; OR 4.8 HOURS
 GROSS APPLICATION <Fg> = 5.05 INCHES
 NET APPLICATION <F< = 3.74 INCHES
 RUNOFF <Ro> = 0.03 INCHES
 DEEP PERCOLATION <Dp> = 2.42 INCHES
 EFFICIENCY <E> = 51.46 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field E: No, alfalfa hay, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <FG> = 4.04 INCHES
 NET APPLICATION <Fx> = 3.25 INCHES
 RUNOFF <Ro> = 0.13 INCHES
 DEEP PERCOLATION <DP> = 2.15 INCHES
 EFFICIENCY <E> = 43.54 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field E: No, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <Fx> = 4.04 INCHES
 RUNOFF <Ro> = 0.16 INCHES
 DEEP PERCOLATION <DP> = 3.37 INCHES
 EFFICIENCY <E> = 30.08 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field E: No, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 5.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 356.8 MINUTES; OR 5.9 HOURS
 GROSS APPLICATION <FG> = 3.97 INCHES
 NET APPLICATION <Fx> = 2.60 INCHES
 RUNOFF <Ro> = 0.12 INCHES
 DEEP PERCOLATION <DP> = 2.09 INCHES
 EFFICIENCY <E> = 44.33 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 5.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field F: MwA, corn, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 700 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 379.9 MINUTES; OR 6.3 HOURS
 GROSS APPLICATION <Fg> = 4.95 INCHES
 NET APPLICATION <F_n> = 2.42 INCHES
 RUNOFF <Ro> = 1.15 INCHES
 DEEP PERCOLATION <Dp> = 1.56 INCHES
 EFFICIENCY <E> = 45.25 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 700 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field F: MwA, wheat, corrugations

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 700 FEET
 INFLOW RATE <Q> = 0.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 532.1 MINUTES; OR 8.9 HOURS
 GROSS APPLICATION <Fg> = 6.60 INCHES
 NET APPLICATION <F_n> = 2.82 INCHES
 RUNOFF <Ro> = 0.06 INCHES
 DEEP PERCOLATION <Dp> = 4.30 INCHES
 EFFICIENCY <E> = 33.94 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 700 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 0.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field F: MwA, sugar beets, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 700 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 445.2 MINUTES; OR 7.4 HOURS
 GROSS APPLICATION <Fg> = 7.01 INCHES
 NET APPLICATION <F_n> = 3.08 INCHES
 RUNOFF <Ro> = 1.46 INCHES
 DEEP PERCOLATION <Dp> = 2.95 INCHES
 EFFICIENCY <E> = 37.08 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 700 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field G1: MwA, alfalfa hay, corrugations

```

M FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.50 FEET
FURROW LENGTH <L> = 1000 FEET
INFLOW RATE <Q> = 10.0 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 1172.5 MINUTES; OR 19.5 HOURS
GROSS APPLICATION <FG> = 9.24 INCHES
NET APPLICATION <Fx> = 3.06 INCHES
RUNOFF <RO> = 0.01 INCHES
DEEP PERCOLATION <DP> = 6.63 INCHES
EFFICIENCY <E> = 28.14 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.50 ft
  Furrow Length <4> 1000 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 10.0 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field G1: MwA, wheat, corrugations

```

M FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1000 FEET
INFLOW RATE <Q> = 10.0 GPM/FURROW
APPLICATION TIME <Ti> = 24 HOURS
*****
ADVANCE TIME <Tt> = 1172.5 MINUTES; OR 19.5 HOURS
GROSS APPLICATION <FG> = 11.55 INCHES
NET APPLICATION <Fx> = 3.83 INCHES
RUNOFF <RO> = 0.01 INCHES
DEEP PERCOLATION <DP> = 9.30 INCHES
EFFICIENCY <E> = 19.39 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1000 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 10.0 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field G1: MwA, sugar beets, furrows

```

M FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1000 FEET
INFLOW RATE <Q> = 13.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 526.8 MINUTES; OR 8.8 HOURS
GROSS APPLICATION <FG> = 7.51 INCHES
NET APPLICATION <Fx> = 2.62 INCHES
RUNOFF <RO> = 1.63 INCHES
DEEP PERCOLATION <DP> = 3.28 INCHES
EFFICIENCY <E> = 34.63 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1000 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 13.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field G1: No, alfalfa hay, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 1000 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 1199.1 MINUTES; OR 20.0 HOURS
 GROSS APPLICATION <Fg> = 7.05 INCHES
 NET APPLICATION <Fx> = 2.26 INCHES
 RUNOFF <Ro> = 0.78 INCHES
 DEEP PERCOLATION <Dp> = 5.32 INCHES
 EFFICIENCY <E> = 22.41 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 1000 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field G1: No, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1000 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 1199.1 MINUTES; OR 20.0 HOURS
 GROSS APPLICATION <Fg> = 9.02 INCHES
 NET APPLICATION <Fx> = 2.82 INCHES
 RUNOFF <Ro> = 0.97 INCHES
 DEEP PERCOLATION <Dp> = 7.33 INCHES
 EFFICIENCY <E> = 15.48 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1000 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field G1: No, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1000 FEET
 INFLOW RATE <Q> = 11.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 546.7 MINUTES; OR 9.1 HOURS
 GROSS APPLICATION <Fg> = 6.35 INCHES
 NET APPLICATION <Fx> = 1.95 INCHES
 RUNOFF <Ro> = 1.70 INCHES
 DEEP PERCOLATION <Dp> = 2.01 INCHES
 EFFICIENCY <E> = 27.71 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1000 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 11.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field G2: MwA, radish seed, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 0.59 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 5.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 586.3 MINUTES; OR 9.8 HOURS
 GROSS APPLICATION <Fg> = 5.77 INCHES
 NET APPLICATION <F_n> = 1.68 INCHES
 RUNOFF <Ro> = 0.85 INCHES
 DEEP PERCOLATION <Dp> = 4.34 INCHES
 EFFICIENCY <E> = 10.22 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 0.59 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field G2: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 6.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 329.0 MINUTES; OR 5.5 HOURS
 GROSS APPLICATION <Fg> = 4.62 INCHES
 NET APPLICATION <F_n> = 2.48 INCHES
 RUNOFF <Ro> = 1.04 INCHES
 DEEP PERCOLATION <Dp> = 1.34 INCHES
 EFFICIENCY <E> = 48.49 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 6.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field G2: MwA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 5.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 427.8 MINUTES; OR 7.1 HOURS
 GROSS APPLICATION <Fg> = 6.35 INCHES
 NET APPLICATION <F_n> = 3.56 INCHES
 RUNOFF <Ro> = 0.15 INCHES
 DEEP PERCOLATION <Dp> = 3.96 INCHES
 EFFICIENCY <E> = 35.26 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field G2: MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 5.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 427.8 MINUTES; OR 7.1 HOURS
 GROSS APPLICATION <Fg> = 6.35 INCHES
 NET APPLICATION <F< = 2.97 INCHES
 RUNOFF <Ro> = 1.17 INCHES
 DEEP PERCOLATION <Dp> = 2.58 INCHES
 EFFICIENCY <E> = 40.93 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field H: No, pasture, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.28 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 100 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 10.1 MINUTES; OR 0.2 HOURS
 GROSS APPLICATION <Fg> = 17.32 INCHES
 NET APPLICATION <F< = 4.86 INCHES
 RUNOFF <Ro> = 12.43 INCHES
 DEEP PERCOLATION <Dp> = 3.61 INCHES
 EFFICIENCY <E> = 7.39 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.28 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 100 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field I: No, barley, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 407.8 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <Fg> = 4.95 INCHES
 NET APPLICATION <F< = 2.71 INCHES
 RUNOFF <Ro> = 0.47 INCHES
 DEEP PERCOLATION <Dp> = 2.96 INCHES
 EFFICIENCY <E> = 30.71 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field I: No, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 407.8 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <FG> = 3.30 INCHES
 NET APPLICATION <Fx> = 1.54 INCHES
 RUNOFF <RO> = 0.74 INCHES
 DEEP PERCOLATION <DP> = 1.04 INCHES
 EFFICIENCY <E> = 46.06 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field I: No, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 407.8 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <FG> = 4.95 INCHES
 NET APPLICATION <Fx> = 2.32 INCHES
 RUNOFF <RO> = 1.11 INCHES
 DEEP PERCOLATION <DP> = 2.00 INCHES
 EFFICIENCY <E> = 35.56 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field I: MWA, barley, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 410.4 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <FG> = 5.77 INCHES
 NET APPLICATION <Fx> = 3.38 INCHES
 RUNOFF <RO> = 0.06 INCHES
 DEEP PERCOLATION <DP> = 3.47 INCHES
 EFFICIENCY <E> = 38.79 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 3.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field I: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 4.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 266.1 MINUTES; OR 4.4 HOURS
 GROSS APPLICATION <FG> = 4.40 INCHES
 NET APPLICATION <Fn> = 2.58 INCHES
 RUNOFF <RO> = 1.00 INCHES
 DEEP PERCOLATION <DP> = 1.16 INCHES
 EFFICIENCY <E> = 50.91 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 4.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field I: MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 350 FEET
 INFLOW RATE <Q> = 3.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 410.4 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <FG> = 5.77 INCHES
 NET APPLICATION <Fn> = 2.87 INCHES
 RUNOFF <RO> = 0.92 INCHES
 DEEP PERCOLATION <DP> = 2.26 INCHES
 EFFICIENCY <E> = 45.02 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 3.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field J: MwA, barley, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 900 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 1055.3 MINUTES; OR 17.6 HOURS
 GROSS APPLICATION <FG> = 11.55 INCHES
 NET APPLICATION <Fn> = 4.86 INCHES
 RUNOFF <RO> = 0.13 INCHES
 DEEP PERCOLATION <DP> = 2.18 INCHES
 EFFICIENCY <E> = 19.39 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 900 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field J: MwA, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 900 FEET
INFLOW RATE <Q> = 12.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 399.8 MINUTES; OR 6.7 HOURS
GROSS APPLICATION <Fg> = 5.35 INCHES
NET APPLICATION <F< = 2.48 INCHES
RUNOFF <Ro> = 1.33 INCHES
DEEP PERCOLATION <Dp> = 1.78 INCHES
EFFICIENCY <E> = 41.89 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 900 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 12.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field J: MwA, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 900 FEET
INFLOW RATE <Q> = 11.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 496.7 MINUTES; OR 8.3 HOURS
GROSS APPLICATION <Fg> = 7.38 INCHES
NET APPLICATION <F< = 2.82 INCHES
RUNOFF <Ro> = 1.59 INCHES
DEEP PERCOLATION <Dp> = 3.19 INCHES
EFFICIENCY <E> = 35.24 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 900 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 11.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: MwA, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 15.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 435.2 MINUTES; OR 7.3 HOURS
GROSS APPLICATION <Fg> = 5.50 INCHES
NET APPLICATION <F< = 2.37 INCHES
RUNOFF <Ro> = 1.37 INCHES
DEEP PERCOLATION <Dp> = 1.89 INCHES
EFFICIENCY <E> = 40.73 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 15.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: Mwa, wheat, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 9.5 GPM/FURROW
APPLICATION TIME <Ti> = 36 HOURS
*****
ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
GROSS APPLICATION <FG> = 15.67 INCHES
NET APPLICATION <Fn> = 4.94 INCHES
RUNOFF <RO> = 0.08 INCHES
DEEP PERCOLATION <DP> = 13.35 INCHES
EFFICIENCY <E> = 14.29 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.24 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 9.5 gpm/furrow
  Inflow Time <7> 36 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: Mwa, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 14.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 517.5 MINUTES; OR 8.6 HOURS
GROSS APPLICATION <FG> = 7.70 INCHES
NET APPLICATION <Fn> = 2.75 INCHES
RUNOFF <RO> = 1.72 INCHES
DEEP PERCOLATION <DP> = 3.38 INCHES
EFFICIENCY <E> = 33.77 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 14.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K1: No, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 12.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 968.5 MINUTES; OR 16.1 HOURS
GROSS APPLICATION <FG> = 4.58 INCHES
NET APPLICATION <Fn> = 1.72 INCHES
RUNOFF <RO> = 1.40 INCHES
DEEP PERCOLATION <DP> = 1.66 INCHES
EFFICIENCY <E> = 33.17 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.52 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 12.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K1: No, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 1223.3 MINUTES; OR 20.4 HOURS
 GROSS APPLICATION <Fg> = 9.90 INCHES
 NET APPLICATION <Fx> = 2.66 INCHES
 RUNOFF <Ro> = 0.97 INCHES
 DEEP PERCOLATION <Dp> = 2.41 INCHES
 EFFICIENCY <E> = 15.35 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K1: No, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 12.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 519.3 MINUTES; OR 8.7 HOURS
 GROSS APPLICATION <Fg> = 6.60 INCHES
 NET APPLICATION <Fx> = 2.19 INCHES
 RUNOFF <Ro> = 1.92 INCHES
 DEEP PERCOLATION <Dp> = 2.92 INCHES
 EFFICIENCY <E> = 26.67 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 12.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field K1: BdA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 42.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 82.8 MINUTES; OR 1.4 HOURS
 GROSS APPLICATION <Fg> = 15.40 INCHES
 NET APPLICATION <Fx> = 4.44 INCHES
 RUNOFF <Ro> = 10.71 INCHES
 DEEP PERCOLATION <Dp> = 0.25 INCHES
 EFFICIENCY <E> = 20.03 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 42.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K1: BdA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 868.3 MINUTES; OR 14.5 HOURS
 GROSS APPLICATION <FG> = 11.00 INCHES
 NET APPLICATION <Fn> = 5.40 INCHES
 RUNOFF <RO> = 1.49 INCHES
 DEEP PERCOLATION <DP> = 5.07 INCHES
 EFFICIENCY <E> = 40.37 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K1: BdA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 24.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 139.9 MINUTES; OR 2.3 HOURS
 GROSS APPLICATION <FG> = 13.47 INCHES
 NET APPLICATION <Fn> = 5.43 INCHES
 RUNOFF <RO> = 7.44 INCHES
 DEEP PERCOLATION <DP> = 0.62 INCHES
 EFFICIENCY <E> = 40.22 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 24.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field K2: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1300 FEET
 INFLOW RATE <Q> = 20.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 453.0 MINUTES; OR 7.6 HOURS
 GROSS APPLICATION <FG> = 5.92 INCHES
 NET APPLICATION <Fn> = 2.42 INCHES
 RUNOFF <RO> = 1.57 INCHES
 DEEP PERCOLATION <DP> = 2.12 INCHES
 EFFICIENCY <E> = 37.82 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1300 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 20.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field K2: MwA, wheat, corrugations

```

M3 FURROW
Auto
OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY
INCREASING 'Q'.
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.24 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1300 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 10.0 gpm/furrow
Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? 7
INFLOW TIME? 36
OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY
INCREASING 'Q'.
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.24 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1300 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 10.0 gpm/furrow
Inflow Time <7> 36 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K2: MwA, wheat, furrows, split furrow lengths to 650 ft

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.24 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 7.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 480.1 MINUTES; OR 8.0 HOURS
GROSS APPLICATION <FG> = 6.66 INCHES
NET APPLICATION <Fn> = 3.31 INCHES
RUNOFF <RO> = 0.13 INCHES
DEEP PERCOLATION <DP> = 4.29 INCHES
EFFICIENCY <E> = 33.62 %
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.24 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 650 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 7.5 gpm/furrow
Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K2: MwA, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1300 FEET
INFLOW RATE <Q> = 10.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 543.0 MINUTES; OR 9.1 HOURS
GROSS APPLICATION <FG> = 8.22 INCHES
NET APPLICATION <Fn> = 2.65 INCHES
RUNOFF <RO> = 1.95 INCHES
DEEP PERCOLATION <DP> = 3.67 INCHES
EFFICIENCY <E> = 31.64 %
TO CHANGE: PRESS (EXISTING)
Design Application <1> 2.60 in
Furrow Slope <2> 0.002 ft/ft
Furrow Spacing <3> 2.00 ft
Furrow Length <4> 1300 ft
Furrow Intake Family <5> 0.70
Inflow Rate <6> 10.5 gpm/furrow
Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field K2: BdA, corn, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 4.44 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 1300 FEET
INFLOW RATE <Q> = 47.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 109.9 MINUTES; OR 1.8 HOURS
GROSS APPLICATION <Fg> = 14.07 INCHES
NET APPLICATION <F< = 4.45 INCHES
RUNOFF <Ro> = 9.27 INCHES
DEEP PERCOLATION <Dp> = 0.36 INCHES
EFFICIENCY <E> = 31.56 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 4.44 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 1300 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 47.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K2: BdA, wheat, corrugations

```

M3 FURROW
Auto
OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY
INCREASING 'Q'.
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 4.44 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1300 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 10.0 gpm/furrow
  Inflow Time <7> 24 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? 7
INFLOW TIME? 36
OPPORTUNITY TIME AT X IS LESS THAN ZERO. WATER DIDN'T REACH POINT X (L)!!! TRY
INCREASING 'Q'.
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 4.44 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1300 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 10.0 gpm/furrow
  Inflow Time <7> 36 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K2: BdA, wheat, corrugations, field split into 650 ft lengths

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 4.44 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 650 FEET
INFLOW RATE <Q> = 8.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 232.5 MINUTES; OR 3.9 HOURS
GROSS APPLICATION <Fg> = 7.55 INCHES
NET APPLICATION <F< = 4.63 INCHES
RUNOFF <Ro> = 1.01 INCHES
DEEP PERCOLATION <Dp> = 1.31 INCHES
EFFICIENCY <E> = 58.80 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 4.44 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 650 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 8.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field K2: BdA, sugar beets, furrows

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 5.42 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 1300 FEET
INFLOW RATE <Q> = 30.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 175.6 MINUTES; OR 2.9 HOURS
GROSS APPLICATION <FG> = 13.33 INCHES
NET APPLICATION <Fn> = 5.45 INCHES
RUNOFF <Ro> = 7.06 INCHES
DEEP PERCOLATION <DP> = 0.85 INCHES
EFFICIENCY <E> = 40.67 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 5.42 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 1300 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 30.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field L: MWA, pasture, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 1.88 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 200 FEET
INFLOW RATE <Q> = 3.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 73.8 MINUTES; OR 1.2 HOURS
GROSS APPLICATION <FG> = 8.66 INCHES
NET APPLICATION <Fn> = 5.62 INCHES
RUNOFF <Ro> = 2.70 INCHES
DEEP PERCOLATION <DP> = 4.08 INCHES
EFFICIENCY <E> = 21.70 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.88 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 200 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 3.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

```

Field L: No, pasture, corrugations

```

M3 FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.28 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 200 FEET
INFLOW RATE <Q> = 3.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 53.6 MINUTES; OR 0.9 HOURS
GROSS APPLICATION <FG> = 8.66 INCHES
NET APPLICATION <Fn> = 4.65 INCHES
RUNOFF <Ro> = 3.83 INCHES
DEEP PERCOLATION <DP> = 3.56 INCHES
EFFICIENCY <E> = 14.78 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.28 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 200 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 3.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

```

Field M: No, alfalfa hay, corrugations

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 6.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 464.1 MINUTES; OR 7.7 HOURS
 GROSS APPLICATION <FG> = 4.62 INCHES
 NET APPLICATION <F<=> = 2.21 INCHES
 RUNOFF <RO> = 0.51 INCHES
 DEEP PERCOLATION <DP> = 2.35 INCHES
 EFFICIENCY <E> = 30.10 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field M: No, wheat, corrugations

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 6.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 592.8 MINUTES; OR 9.9 HOURS
 GROSS APPLICATION <FG> = 5.33 INCHES
 NET APPLICATION <F<=> = 1.69 INCHES
 RUNOFF <RO> = 0.43 INCHES
 DEEP PERCOLATION <DP> = 3.30 INCHES
 EFFICIENCY <E> = 20.51 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field M: No, sugar beets, furrows

M3 FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.76 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 6.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 464.1 MINUTES; OR 7.7 HOURS
 GROSS APPLICATION <FG> = 5.77 INCHES
 NET APPLICATION <F<=> = 2.29 INCHES
 RUNOFF <RO> = 1.52 INCHES
 DEEP PERCOLATION <DP> = 2.50 INCHES
 EFFICIENCY <E> = 30.40 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.76 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field M: BdA, alfalfa hay, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.50 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 6.5 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 464.1 MINUTES; OR 7.7 HOURS
 GROSS APPLICATION <Fg> = 9.24 INCHES
 NET APPLICATION <F< = 5.75 INCHES
 RUNOFF <Ro> = 2.01 INCHES
 DEEP PERCOLATION <Dp> = 1.81 INCHES
 EFFICIENCY <E> = 58.66 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.50 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.5 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field M: BdA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 0.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 232.5 MINUTES; OR 3.9 HOURS
 GROSS APPLICATION <Fg> = 7.55 INCHES
 NET APPLICATION <F< = 4.63 INCHES
 RUNOFF <Ro> = 1.81 INCHES
 DEEP PERCOLATION <Dp> = 1.31 INCHES
 EFFICIENCY <E> = 58.80 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 0.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field M: BdA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 650 FEET
 INFLOW RATE <Q> = 17.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 73.2 MINUTES; OR 1.2 HOURS
 GROSS APPLICATION <Fg> = 15.55 INCHES
 NET APPLICATION <F< = 5.43 INCHES
 RUNOFF <Ro> = 9.84 INCHES
 DEEP PERCOLATION <Dp> = 0.29 INCHES
 EFFICIENCY <E> = 34.86 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 650 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 17.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field N: MwA, radish seed, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 0.59 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 450 FEET
 INFLOW RATE <Q> = 4.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 527.6 MINUTES; OR 8.8 HOURS
 GROSS APPLICATION <FG> = 5.77 INCHES
 NET APPLICATION <Fx> = 2.13 INCHES
 RUNOFF <RO> = 0.86 INCHES
 DEEP PERCOLATION <DP> = 4.33 INCHES
 EFFICIENCY <E> = 10.22 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 0.59 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 450 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 4.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field N: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 450 FEET
 INFLOW RATE <Q> = 5.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 280.9 MINUTES; OR 4.7 HOURS
 GROSS APPLICATION <FG> = 4.71 INCHES
 NET APPLICATION <Fx> = 2.66 INCHES
 RUNOFF <RO> = 1.14 INCHES
 DEEP PERCOLATION <DP> = 1.33 INCHES
 EFFICIENCY <E> = 47.61 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 450 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field N: MwA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 450 FEET
 INFLOW RATE <Q> = 5.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 373.1 MINUTES; OR 6.2 HOURS
 GROSS APPLICATION <FG> = 6.42 INCHES
 NET APPLICATION <Fx> = 3.31 INCHES
 RUNOFF <RO> = 1.25 INCHES
 DEEP PERCOLATION <DP> = 2.92 INCHES
 EFFICIENCY <E> = 34.91 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 450 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field N: MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 450 FEET
 INFLOW RATE <Q> = 5.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 373.1 MINUTES; OR 6.2 HOURS
 GROSS APPLICATION <FG> = 6.42 INCHES
 NET APPLICATION <F_N> = 3.31 INCHES
 RUNOFF <RO> = 1.25 INCHES
 DEEP PERCOLATION <DP> = 2.56 INCHES
 EFFICIENCY <E> = 40.52 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 450 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 5.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field O: MvA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.005 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 358.8 MINUTES; OR 6.0 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <F_N> = 3.34 INCHES
 RUNOFF <RO> = 0.04 INCHES
 DEEP PERCOLATION <DP> = 2.41 INCHES
 EFFICIENCY <E> = 51.46 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.005 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field O: MvA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.005 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 303.6 MINUTES; OR 5.1 HOURS
 GROSS APPLICATION <FG> = 3.61 INCHES
 NET APPLICATION <F_N> = 2.50 INCHES
 RUNOFF <RO> = 0.18 INCHES
 DEEP PERCOLATION <DP> = 1.19 INCHES
 EFFICIENCY <E> = 62.06 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.005 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field O: BdA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.005 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 6.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 360.4 MINUTES; OR 6.0 HOURS
 GROSS APPLICATION <Fg> = 0.66 INCHES
 NET APPLICATION <Fx> = 5.86 INCHES
 RUNOFF <Ro> = 1.77 INCHES
 DEEP PERCOLATION <Dp> = 1.47 INCHES
 EFFICIENCY <E> = 62.57 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.005 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 6.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field O: BdA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.005 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 0.0 GPM/FURROW
 APPLICATION TIME <Ti> = 24 HOURS

 ADVANCE TIME <Tt> = 194.0 MINUTES; OR 3.2 HOURS
 GROSS APPLICATION <Fg> = 7.70 INCHES
 NET APPLICATION <Fx> = 4.55 INCHES
 RUNOFF <Ro> = 2.79 INCHES
 DEEP PERCOLATION <Dp> = 0.47 INCHES
 EFFICIENCY <E> = 57.66 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.005 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 0.0 gpm/furrow
 Inflow Time <7> 24 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: MvA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 19.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 544.8 MINUTES; OR 9.1 HOURS
 GROSS APPLICATION <Fg> = 8.34 INCHES
 NET APPLICATION <Fx> = 2.67 INCHES
 RUNOFF <Ro> = 2.00 INCHES
 DEEP PERCOLATION <Dp> = 3.74 INCHES
 EFFICIENCY <E> = 31.17 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 19.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: MvA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 21.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <Tt> = 458.9 MINUTES; OR 7.6 HOURS
 GROSS APPLICATION <Fg> = 5.99 INCHES
 NET APPLICATION <F_n> = 2.41 INCHES
 RUNOFF <Ro> = 1.59 INCHES
 DEEP PERCOLATION <Dp> = 2.15 INCHES
 EFFICIENCY <E> = 37.40 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1350 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 21.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: BdA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 5.42 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 31.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <Tt> = 183.6 MINUTES; OR 3.1 HOURS
 GROSS APPLICATION <Fg> = 13.26 INCHES
 NET APPLICATION <F_n> = 5.44 INCHES
 RUNOFF <Ro> = 6.94 INCHES
 DEEP PERCOLATION <Dp> = 0.88 INCHES
 EFFICIENCY <E> = 40.87 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 5.42 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 31.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field P: BdA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 4.44 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1350 FEET
 INFLOW RATE <Q> = 48.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

ADVANCE TIME <Tt> = 115.7 MINUTES; OR 1.9 HOURS
 GROSS APPLICATION <Fg> = 13.83 INCHES
 NET APPLICATION <F_n> = 4.45 INCHES
 RUNOFF <Ro> = 9.02 INCHES
 DEEP PERCOLATION <Dp> = 0.38 INCHES
 EFFICIENCY <E> = 32.10 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 4.44 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1350 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 48.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: MvA/MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 289.4 MINUTES; OR 4.8 HOURS
 GROSS APPLICATION <Fg> = 3.37 INCHES
 NET APPLICATION <Fx> = 2.49 INCHES
 RUNOFF <Ro> = 0.02 INCHES
 DEEP PERCOLATION <Dp> = 1.11 INCHES
 EFFICIENCY <E> = 66.50 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: MvA/MwA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.60 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 288.4 MINUTES; OR 4.8 HOURS
 GROSS APPLICATION <Fg> = 5.05 INCHES
 NET APPLICATION <Fx> = 3.74 INCHES
 RUNOFF <Ro> = 0.03 INCHES
 DEEP PERCOLATION <Dp> = 2.42 INCHES
 EFFICIENCY <E> = 51.46 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.60 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: MvA/MwA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 173.5 MINUTES; OR 2.9 HOURS
 GROSS APPLICATION <Fg> = 6.50 INCHES
 NET APPLICATION <Fx> = 5.55 INCHES
 RUNOFF <Ro> = 0.06 INCHES
 DEEP PERCOLATION <Dp> = 4.19 INCHES
 EFFICIENCY <E> = 34.48 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <0/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Q: OgA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.07 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 14.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 77.1 MINUTES; OR 1.3 HOURS
 GROSS APPLICATION <FG> = 6.98 INCHES
 NET APPLICATION <Fx> = 3.08 INCHES
 RUNOFF <RO> = 3.73 INCHES
 DEEP PERCOLATION <DP> = 0.18 INCHES
 EFFICIENCY <E> = 44.00 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.07 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 14.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field Q: OgA, sugar beets, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.34 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <Fx> = 3.44 INCHES
 RUNOFF <RO> = 0.92 INCHES
 DEEP PERCOLATION <DP> = 0.79 INCHES
 EFFICIENCY <E> = 66.10 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.34 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field Q: OgA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.07 INCHES
 FURROW SLOPE <S> = 0.006 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 7.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 210.3 MINUTES; OR 3.5 HOURS
 GROSS APPLICATION <FG> = 5.05 INCHES
 NET APPLICATION <Fx> = 4.06 INCHES
 RUNOFF <RO> = 0.16 INCHES
 DEEP PERCOLATION <DP> = 1.82 INCHES
 EFFICIENCY <E> = 60.76 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.07 in
 Furrow Slope <2> 0.006 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 7.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field R: MvA, corn, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.003 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1100 FEET
 INFLOW RATE <Q> = 13.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 404.2 MINUTES; OR 6.7 HOURS
 GROSS APPLICATION <FG> = 4.72 INCHES
 NET APPLICATION <F_n> = 2.39 INCHES
 RUNOFF <RO> = 0.84 INCHES
 DEEP PERCOLATION <DP> = 1.65 INCHES
 EFFICIENCY <E> = 47.41 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.003 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1100 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 13.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field R: MvA, pasture, corrugations, split furrows into 550 ft lengths

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.003 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1100 FEET
 INFLOW RATE <Q> = 11.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 458.1 MINUTES; OR 7.6 HOURS
 GROSS APPLICATION <FG> = 3.85 INCHES
 NET APPLICATION <F_n> = 1.65 INCHES
 RUNOFF <RO> = 0.87 INCHES
 DEEP PERCOLATION <DP> = 1.46 INCHES
 EFFICIENCY <E> = 39.48 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.003 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1100 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 11.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field R: No, corn, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.28 INCHES
 FURROW SLOPE <S> = 0.003 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1100 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 582.3 MINUTES; OR 9.7 HOURS
 GROSS APPLICATION <FG> = 5.25 INCHES
 NET APPLICATION <F_n> = 1.91 INCHES
 RUNOFF <RO> = 0.07 INCHES
 DEEP PERCOLATION <DP> = 3.90 INCHES
 EFFICIENCY <E> = 24.38 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.28 in
 Furrow Slope <2> 0.003 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1100 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field R: No, pasture, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 1.52 INCHES
 FURROW SLOPE <S> = 0.003 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 1100 FEET
 INFLOW RATE <Q> = 11.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 458.1 MINUTES; OR 7.6 HOURS
 GROSS APPLICATION <FG> = 3.05 INCHES
 NET APPLICATION <Fx> = 1.65 INCHES
 RUNOFF <Ro> = 0.87 INCHES
 DEEP PERCOLATION <DP> = 1.46 INCHES
 EFFICIENCY <E> = 39.48 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.52 in
 Furrow Slope <2> 0.003 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 1100 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 11.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field S: MvA, pasture, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 1.88 INCHES
 FURROW SLOPE <S> = 0.003 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 9.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 290.4 MINUTES; OR 4.8 HOURS
 GROSS APPLICATION <FG> = 6.93 INCHES
 NET APPLICATION <Fx> = 5.02 INCHES
 RUNOFF <Ro> = 0.17 INCHES
 DEEP PERCOLATION <DP> = 4.88 INCHES
 EFFICIENCY <E> = 27.13 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.88 in
 Furrow Slope <2> 0.003 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field S: MvA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.003 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 333.6 MINUTES; OR 5.6 HOURS
 GROSS APPLICATION <FG> = 4.36 INCHES
 NET APPLICATION <Fx> = 2.53 INCHES
 RUNOFF <Ro> = 0.72 INCHES
 DEEP PERCOLATION <DP> = 1.40 INCHES
 EFFICIENCY <E> = 51.34 %
 TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.003 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>
 TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field W: OgA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 3.07 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 13.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 154.5 MINUTES; OR 2.6 HOURS
 GROSS APPLICATION <FG> = 6.67 INCHES
 NET APPLICATION <Fx> = 3.07 INCHES
 RUNOFF <RO> = 3.19 INCHES
 DEEP PERCOLATION <DP> = 0.41 INCHES
 EFFICIENCY <E> = 86.01 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 3.07 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 13.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field W: OgA, pasture, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.55
 DESIGN APPLICATION <Fn> = 2.80 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 8.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 445.7 MINUTES; OR 7.4 HOURS
 GROSS APPLICATION <FG> = 6.16 INCHES
 NET APPLICATION <Fx> = 3.04 INCHES
 RUNOFF <RO> = 0.78 INCHES
 DEEP PERCOLATION <DP> = 2.50 INCHES
 EFFICIENCY <E> = 85.46 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.80 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.55
 Inflow Rate <6> 8.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field W: MvA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 369.7 MINUTES; OR 6.2 HOURS
 GROSS APPLICATION <FG> = 5.13 INCHES
 NET APPLICATION <Fx> = 2.53 INCHES
 RUNOFF <RO> = 1.25 INCHES
 DEEP PERCOLATION <DP> = 1.64 INCHES
 EFFICIENCY <E> = 83.64 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field W: MvA, pasture, corrugations

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 1.88 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 584.9 MINUTES; OR 9.7 HOURS
 GROSS APPLICATION <FG> = 6.54 INCHES
 NET APPLICATION <Fn> = 2.28 INCHES
 RUNOFF <RO> = 0.00 INCHES
 DEEP PERCOLATION <DP> = 4.66 INCHES
 EFFICIENCY <E> = 28.73 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.88 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field X: MvA, corn, furrows

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 10.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 369.7 MINUTES; OR 6.2 HOURS
 GROSS APPLICATION <FG> = 5.13 INCHES
 NET APPLICATION <Fn> = 2.53 INCHES
 RUNOFF <RO> = 1.25 INCHES
 DEEP PERCOLATION <DP> = 1.64 INCHES
 EFFICIENCY <E> = 43.64 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field X: MvA, pasture, corrugations

M₃ FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 1.88 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 750 FEET
 INFLOW RATE <Q> = 8.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 584.9 MINUTES; OR 9.7 HOURS
 GROSS APPLICATION <FG> = 6.54 INCHES
 NET APPLICATION <Fn> = 2.28 INCHES
 RUNOFF <RO> = 0.00 INCHES
 DEEP PERCOLATION <DP> = 4.66 INCHES
 EFFICIENCY <E> = 28.73 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.88 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 750 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 8.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field X: No, corn, furrows

```
MS FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.52 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 3.00 FEET
FURROW LENGTH <L> = 750 FEET
INFLOW RATE <Q> = 8.0 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 445.7 MINUTES; OR 7.4 HOURS
GROSS APPLICATION <FG> = 4.11 INCHES
NET APPLICATION <Fx> = 1.67 INCHES
RUNOFF <RO> = 1.15 INCHES
DEEP PERCOLATION <DP> = 1.43 INCHES
EFFICIENCY <E> = 37.01 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.52 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 3.00 ft
  Furrow Length <4> 750 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 8.0 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?
```

Field X: No, pasture, corrugations

```
MS FURROW
Auto
INTAKE FAMILY <If> = 0.55
DESIGN APPLICATION <Fn> = 1.20 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.00 FEET
FURROW LENGTH <L> = 750 FEET
INFLOW RATE <Q> = 7.5 GPM/FURROW
APPLICATION TIME <Ti> = 12 HOURS
*****
ADVANCE TIME <Tt> = 535.5 MINUTES; OR 8.9 HOURS
GROSS APPLICATION <FG> = 5.77 INCHES
NET APPLICATION <Fx> = 2.28 INCHES
RUNOFF <RO> = 0.57 INCHES
DEEP PERCOLATION <DP> = 3.92 INCHES
EFFICIENCY <E> = 22.17 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 1.20 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.00 ft
  Furrow Length <4> 750 ft
  Furrow Intake Family <5> 0.55
  Inflow Rate <6> 7.5 gpm/furrow
  Inflow Time <7> 12 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _
```

Field Y: MvA/MwA, alfalfa hay, corrugations

```
MS FURROW
Auto
INTAKE FAMILY <If> = 0.70
DESIGN APPLICATION <Fn> = 2.60 INCHES
FURROW SLOPE <S> = 0.002 FEET/FOOT
FURROW SPACING <W> = 2.50 FEET
FURROW LENGTH <L> = 1050 FEET
INFLOW RATE <Q> = 9.5 GPM/FURROW
APPLICATION TIME <Ti> = 36 HOURS
*****
ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
GROSS APPLICATION <FG> = 12.54 INCHES
NET APPLICATION <Fx> = 3.95 INCHES
RUNOFF <RO> = 0.06 INCHES
DEEP PERCOLATION <DP> = 9.87 INCHES
EFFICIENCY <E> = 20.73 %
TO CHANGE: PRESS (EXISTING)
  Design Application <1> 2.60 in
  Furrow Slope <2> 0.002 ft/ft
  Furrow Spacing <3> 2.50 ft
  Furrow Length <4> 1050 ft
  Furrow Intake Family <5> 0.70
  Inflow Rate <6> 9.5 gpm/furrow
  Inflow Time <7> 36 hours <ANALYSIS MODE>
TO PRINT: DATA/WITH HEADING PRESS:<8/9>
NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _
```

Field Y: MvA/MwA, wheat, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 9.5 GPM/FURROW
 APPLICATION TIME <Ti> = 36 HOURS

 ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
 GROSS APPLICATION <FG> = 15.67 INCHES
 NET APPLICATION <Fx> = 4.94 INCHES
 RUNOFF <RO> = 0.08 INCHES
 DEEP PERCOLATION <DP> = 13.35 INCHES
 EFFICIENCY <E> = 14.29 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.5 gpm/furrow
 Inflow Time <7> 36 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field Y: MvA/MwA, pasture, corrugations

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 1.88 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 2.00 FEET
 FURROW LENGTH <L> = 1050 FEET
 INFLOW RATE <Q> = 9.5 GPM/FURROW
 APPLICATION TIME <Ti> = 36 HOURS

 ADVANCE TIME <Tt> = 1773.3 MINUTES; OR 29.6 HOURS
 GROSS APPLICATION <FG> = 15.67 INCHES
 NET APPLICATION <Fx> = 4.94 INCHES
 RUNOFF <RO> = 0.08 INCHES
 DEEP PERCOLATION <DP> = 13.71 INCHES
 EFFICIENCY <E> = 11.99 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 1.88 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 2.00 ft
 Furrow Length <4> 1050 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 9.5 gpm/furrow
 Inflow Time <7> 36 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field A: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 500 FEET
 INFLOW RATE <Q> = 6.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 329.0 MINUTES; OR 5.5 HOURS
 GROSS APPLICATION <G> = 4.62 INCHES
 NET APPLICATION <F> = 2.48 INCHES
 RUNOFF <Ro> = 1.04 INCHES
 DEEP PERCOLATION <Dp> = 1.34 INCHES
 EFFICIENCY <E> = 48.49 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 500 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 6.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field B: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 800 FEET
 INFLOW RATE <Q> = 10.5 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 410.9 MINUTES; OR 6.8 HOURS
 GROSS APPLICATION <G> = 5.05 INCHES
 NET APPLICATION <F> = 2.33 INCHES
 RUNOFF <Ro> = 1.18 INCHES
 DEEP PERCOLATION <Dp> = 1.64 INCHES
 EFFICIENCY <E> = 44.33 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 800 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 10.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

Field C: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <If> = 0.70
 DESIGN APPLICATION <Fn> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 200 FEET
 INFLOW RATE <Q> = 3.0 GPM/FURROW
 APPLICATION TIME <Ti> = 12 HOURS

 ADVANCE TIME <Tt> = 73.8 MINUTES; OR 1.2 HOURS
 GROSS APPLICATION <G> = 5.77 INCHES
 NET APPLICATION <F> = 3.20 INCHES
 RUNOFF <Ro> = 2.37 INCHES
 DEEP PERCOLATION <Dp> = 1.16 INCHES
 EFFICIENCY <E> = 38.79 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 200 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 3.0 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS:<8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>? _

Field D: MwA, corn, furrows

FURROW

Auto

INTAKE FAMILY <IF> = 0.70
 DESIGN APPLICATION <F_n> = 2.24 INCHES
 FURROW SLOPE <S> = 0.002 FEET/FOOT
 FURROW SPACING <W> = 3.00 FEET
 FURROW LENGTH <L> = 400 FEET
 INFLOW RATE <Q> = 4.5 GPM/FURROW
 APPLICATION TIME <T_i> = 12 HOURS

 ADVANCE TIME <T_t> = 319.1 MINUTES; OR 5.3 HOURS
 GROSS APPLICATION <F_G> = 4.33 INCHES
 NET APPLICATION <F_n> = 2.41 INCHES
 RUNOFF <R_O> = 0.90 INCHES
 DEEP PERCOLATION <D_P> = 1.19 INCHES
 EFFICIENCY <E> = 51.72 %

TO CHANGE: PRESS (EXISTING)
 Design Application <1> 2.24 in
 Furrow Slope <2> 0.002 ft/ft
 Furrow Spacing <3> 3.00 ft
 Furrow Length <4> 400 ft
 Furrow Intake Family <5> 0.70
 Inflow Rate <6> 4.5 gpm/furrow
 Inflow Time <7> 12 hours <ANALYSIS MODE>

TO PRINT: DATA/WITH HEADING PRESS <8/9>
 NEW DESIGN PRESS <10>, NEW ANALYSIS PRESS <11>, QUIT PRESS <12>?

80th Percentile Values of Monthly ET (mm/day)

Station: Parma Exp. Station

		ETR	ALFH	ALFS	BEANS	F CRN	SILGE	S CRN	PEAS	POTAT	SBEET	SGRAN	WGRAN	PAST	ORCHD	VEGES	ONION	HOPS
March	AVE ET	2.23		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	1.38	0.77	0.00	0.00	0.00	0.00
March	STDD ET	0.29		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18	0.10	0.00	0.00	0.00	0.00
March	80PCT ET	2.47	U	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.53	0.85	0.00	0.00	0.00	0.00
			S															
April	AVE ET	4.67	E	3.64	0.00	0.00	0.00	0.00	1.53	1.40	1.40	1.58	4.53	3.37	2.04	0.00	1.54	1.46
April	STDD ET	0.42		0.33	0.00	0.00	0.00	0.00	0.14	0.13	0.13	0.14	0.41	0.30	0.18	0.00	0.14	0.13
April	80PCT ET	5.02		3.92	0.00	0.00	0.00	0.00	1.65	1.51	1.51	1.70	4.88	3.62	2.19	0.00	1.66	1.57
			E															
May	AVE ET	6.24	T	5.61	1.87	1.87	1.87	1.87	4.41	2.39	1.90	5.23	6.24	4.80	4.10	1.98	3.17	4.37
May	STDD ET	0.46	R	0.41	0.14	0.14	0.14	0.14	0.32	0.18	0.14	0.38	0.46	0.35	0.30	0.15	0.23	0.32
May	80PCT ET	6.63		5.96	1.99	1.99	1.99	1.99	4.68	2.54	2.02	5.55	6.63	5.09	4.35	2.11	3.36	4.64
June	AVE ET	7.86	F	6.73	4.17	3.80	3.80	3.97	5.59	6.05	4.58	7.86	7.85	6.05	6.51	4.53	5.24	7.46
June	STDD ET	0.48	O	0.41	0.25	0.23	0.23	0.24	0.34	0.37	0.28	0.48	0.48	0.37	0.39	0.27	0.32	0.45
June	80PCT ET	8.26	R	7.08	4.38	3.99	3.99	4.17	5.88	6.36	4.82	8.26	8.25	6.36	6.84	4.76	5.51	7.84
July	AVE ET	8.58		5.28	7.92	7.91	7.91	7.87	2.17	7.13	8.52	6.57	4.99	6.61	7.29	6.75	6.76	8.15
July	STDD ET	0.33	A	0.20	0.30	0.30	0.30	0.30	0.08	0.27	0.33	0.25	0.19	0.25	0.28	0.26	0.26	0.31
July	80PCT ET	8.86	L	5.45	8.17	8.16	8.16	8.12	2.24	7.36	8.80	6.78	5.15	6.82	7.53	6.97	6.98	8.41
			F															
August	AVE ET	7.14	A	2.92	3.29	6.52	6.52	6.07	0.00	5.32	6.89	1.30	1.09	5.50	6.07	5.63	5.72	6.77
August	STDD ET	0.34	L	0.14	0.16	0.31	0.31	0.29	0.00	0.25	0.33	0.06	0.05	0.26	0.29	0.27	0.27	0.32
August	80PCT ET	7.43	F	3.04	3.42	6.78	6.78	6.31	0.00	5.53	7.17	1.35	1.13	5.72	6.31	5.86	5.95	7.04
			A															
September	AVE ET	5.39		1.40	0.56	3.78	3.78	0.00	0.00	2.65	4.50	0.00	0.00	4.15	4.42	3.50	4.14	4.85
September	STDD ET	0.34		0.09	0.04	0.24	0.24	0.00	0.00	0.17	0.28	0.00	0.00	0.26	0.28	0.22	0.26	0.30
September	80PCT ET	5.68	H	1.48	0.59	3.98	3.98	0.00	0.00	2.79	4.74	0.00	0.00	4.37	4.66	3.69	4.36	5.10
			A															
October	AVE ET	3.17	Y	0.34	0.00	0.84	0.00	0.00	0.00	0.00	1.88	0.00	0.00	2.44	1.93	0.00	0.00	0.00
October	STDD ET	0.26		0.03	0.00	0.07	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.20	0.16	0.00	0.00	0.00
October	80PCT ET	3.39		0.37	0.00	0.90	0.00	0.00	0.00	0.00	2.01	0.00	0.00	2.61	2.06	0.00	0.00	0.00

ET and standard deviation data (AVE ET and STDD ET) taken from Appendix E (unpublished) of Brockway, C.E., and R.G. Allen, 1983, Estimating Consumptive Irrigation Requirements for Crops in Idaho, Idaho Water and Energy Resources Research Institute.

80th Percentile ET values (80PCT ET) calculated based on Walpole, R.E., and R.H. Meyers, 1985, third edition, PROBABILITY AND STATISTICS FOR ENGINEERS AND SCIENTISTS, New York: Macmillan Publishing Company, pp. 132-144 and 574.

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Baldock (BdA)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	8	0.16	0.21	7.9	8.4	1	2	1	2.22	1.5	0.5
8	56	0.16	0.21					2	4.44		
56	60	0.09	0.15					3	6.66		
								4	8.88	alternate	
								5	10.84	method	
										2	0.55

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	5.42
corn (field or silage)	4	0.5	4.44
grain (winter or spring)	4	0.5	4.44
pasture (or grass hay)	3	0.5	3.33
other (enter below)			
sugar beets	5	0.5	5.42

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Moulton (MvA)

Source of Soils Data =

National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	3	0.16	0.18	6.6	7.8	2	4	1	1.68	2	0.55
3	21	0.11	0.15					2	3.03		
21	60	0.04	0.08					3	3.75		
								4	4.47	alternate	
								5	5.19	method	
										3	0.7

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	2.60
corn (field or silage)	4	0.5	2.24
grain (winter or spring)	4	0.5	2.24
pasture (or grass hay)	3	0.5	1.88
other (enter below)			
sugar beets	5	0.5	2.60

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Notus (No)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	1	0.11	0.13	6.1	8.4	0.5	1	1	1.44	2	0.55
1	14	0.11	0.13					2	2.08		
14	60	0.03	0.05					3	2.56		
								4	3.04	alternate	
								5	3.52	method	
										2	0.55

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	1.76
corn (field or silage)	4	0.5	1.52
grain (winter or spring)	4	0.5	1.52
pasture (or grass hay)	3	0.5	1.28
other (enter below)			
sugar beets	5	0.5	1.76
radishes	1	0.35	0.50

SOIL CHARACTERISTICS

initials: MP

date: 10/20/05

Soil Type = Oliaga (OgA)

Source of Soils Data = National NRCS Website

soil depth (inches)		AWC (in/in)		PH		organic (%)		soil depth (ft)	AWC (inches)	intake family	
lower	upper	lower	upper	lower	upper	lower	upper			flood	furrow
0	8	0.16	0.18	7.4	9	1	3	1	1.98	1.5	0.5
8	35	0.13	0.18					2	3.84		
35	60	0.03	0.06					3	5.59		
								4	6.13	alternate	
								5	6.67	method	
										2	0.55

Management Allowed Deficit (MAD)

crop	root depth (ft)	stress point	MAD (inches)
alfalfa (hay or seed)	5	0.5	3.34
corn (field or silage)	4	0.5	3.07
grain (winter or spring)	4	0.5	3.07
pasture (or grass hay)	3	0.5	2.80
other (enter below)			
sugar beets	5	0.5	3.34

Chemical Soil Properties

Canyon Area, Idaho

[Absence of an entry indicates that data were not estimated]

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorption ratio
	<i>In</i>	<i>meq/100 g</i>	<i>meq/100 g</i>	<i>pH</i>	<i>Pct</i>	<i>Pct</i>	<i>mmhos/cm</i>	
BdA:								
Baldock	0-8	10-20	---	7.9-8.4	15-25	0	2.0-4.0	20-30
	8-56	15-25	---	7.4-9.0	5-15	0	2.0-4.0	10-20
	56-60	5.0-15	---	7.9-8.4	5-15	0	2.0-4.0	0-10
BsA:								
Bram, saline-alkali	0-8	9.0-19	---	8.5-9.6	0	0	8.0-16.0	5-8
	8-52	7.0-15	---	8.5-9.6	15-25	0	8.0-16.0	5-8
	52-65	7.0-15	---	8.5-9.6	0-5	0	8.0-16.0	5-8
MtB:								
Moulton	0-3	10-25	---	6.6-7.8	0	0	0.0	0
	3-21	5.0-15	---	6.6-7.8	0	0	0.0	0
	21-60	5.0-10	---	6.6-7.8	0	0	0.0	0
MuA:								
Moulton, saline	0-3	10-25	---	6.6-7.8	0	0	0.0	0
	3-21	5.0-15	---	6.6-7.8	0	0	0.0	0
	21-60	5.0-10	---	6.6-7.8	0	0	0.0	0
MvA:								
Moulton	0-3	10-25	---	6.6-7.8	0	0	0.0	0
	3-21	5.0-15	---	6.6-7.8	0	0	0.0	0
	21-60	5.0-10	---	6.6-7.8	0	0	0.0	0
MwA:								
Moulton, saline	0-3	10-25	---	6.6-7.8	0	0	0.0	0
	3-21	5.0-15	---	6.6-7.8	0	0	0.0	0
	21-60	5.0-10	---	6.6-7.8	0	0	0.0	0
No:								
Notus	0-1	5.0-10	---	6.1-8.4	0-5	0	0.0-2.0	0-5
	1-14	5.0-10	---	6.1-8.4	0-5	0	0.0-2.0	0-5
	14-60	1.0-5.0	---	6.1-8.4	0-5	0	0.0-2.0	0-5
NsA:								
Nyssaton	0-11	5.0-20	---	7.9-8.4	5-15	0	0.0-2.0	0-5
	11-60	5.0-15	---	7.9-9.0	15-20	0	0.0-2.0	0-5
OgA:								
Oliaga	0-8	8.0-25	---	7.4-9.0	5-14	0	0.0-8.0	0-5
	8-35	4.0-15	---	7.4-9.0	5-14	0	0.0-8.0	0-5
	35-60	0.0-9.0	---	6.6-7.3	0-5	0	0.0	0

Chemical Soil Properties

Canyon Area, Idaho

Map symbol and soil name	Depth	Cation- exchange capacity	Effective cation- exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorption ratio
	<i>In</i>	<i>meq/100 g</i>	<i>meq/100 g</i>	<i>pH</i>	<i>Pct</i>	<i>Pct</i>	<i>mmhos/cm</i>	
OgB:								
Oliaga	0-8	8.0-25	---	7.4-9.0	5-14	0	0.0-8.0	0-5
	8-35	4.0-15	---	7.4-9.0	5-14	0	0.0-8.0	0-5
	35-60	0.0-9.0	---	6.6-7.3	0-5	0	0.0	0
Re:								
Riverwash	0-60	---	---	---	---	---	---	---

Engineering Properties

Canyon Area, Idaho

[Absence of an entry indicates that the data were not estimated]

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
BdA:												
Baldock	0-8	Loam	CL	A-6	0	0	90-100	90-100	75-100	55-90	24-36	7-15
	8-56	Loam, Silt loam	CL	A-6	0	0	90-100	90-100	75-100	55-85	27-38	12-19
	56-60	Fine sandy loam, Sandy loam	SC-SM	A-4	0	0	75-100	75-100	50-80	25-50	16-27	2-10
BsA:												
Bram, saline-alkali	0-8	Silt loam	CL	A-4	0	0-5	90-95	90-95	90-95	75-90	24-33	7-12
	8-52	Loam, Silt loam, Very fine sandy loam	CL	A-4	0	0-5	90-95	90-95	90-95	75-90	22-30	7-12
	52-65	Fine sandy loam, Gravelly loam	SC	A-2, A-4	0	0	55-100	50-100	45-70	25-40	22-30	7-12
MtB:												
Moulton	0-3	Fine sandy loam	SC	A-4	0	0	90-100	90-100	65-85	35-55	25-39	6-13
	3-21	Fine sandy loam, Sandy loam	SC	A-4	0	0	90-100	90-100	75-90	40-60	22-35	6-13
	21-60	Very gravelly loamy sand, Very gravelly sand	GW	A-1	0	0	30-60	30-50	15-35	0-15	17-24	2-6
MuA:												
Moulton, saline	0-3	Fine sandy loam	SC	A-4	0	0	90-100	90-100	65-85	35-55	25-39	6-13
	3-21	Fine sandy loam, Sandy loam	SC	A-4	0	0	90-100	90-100	75-90	40-60	22-35	6-13
	21-60	Very gravelly loamy sand, Very gravelly sand	GW	A-1	0	0	30-60	30-50	15-35	0-15	17-24	2-6

Engineering Properties

Canyon Area, Idaho

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
MvA:												
Moulton	0-3	Loam	CL	A-4	0	0	90-100	90-100	75-95	55-75	25-39	6-13
	3-21	Fine sandy loam, Sandy loam	SC	A-4	0	0	90-100	90-100	75-90	40-60	22-35	6-13
	21-60	Very gravelly loamy sand, Very gravelly sand	GW	A-1	0	0	30-60	30-50	15-35	0-15	17-24	2-6
MwA:												
Moulton, saline	0-3	Loam	CL	A-4	0	0	90-100	90-100	75-95	55-75	25-39	6-13
	3-21	Fine sandy loam, Sandy loam	SC	A-4	0	0	90-100	90-100	75-90	40-60	22-35	6-13
	21-60	Very gravelly loamy sand, Very gravelly sand	GW	A-1	0	0	30-60	30-50	15-35	0-15	17-24	2-6
No:												
Notus	0-1	Sandy loam	SM	A-2, A-4	0	0	95-100	90-100	55-85	25-50	17-24	2-6
	1-14	Fine sandy loam	SM	A-2, A-4	0	0	95-100	90-100	55-85	25-50	17-24	2-6
	14-60	Stratified very gravelly sand to gravelly loamy sand	GP-GM	A-1	0	0-25	30-50	25-45	15-30	5-10	—	NP
NsA:												
Nyssaton	0-11	Silt loam	CL	A-4	0	0	100	100	90-100	85-90	21-33	4-12
	11-60	Silt loam	CL	A-4	0	0	100	100	90-100	85-90	18-30	4-12

Engineering Properties

Canyon Area, Idaho

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number—				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
OgA: Oliaga	0-8	Loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-95	60-75	22-41	6-17
	8-35	Fine sandy loam, Loam	CL-ML, ML	A-4	0	0	100	100	70-95	50-75	16-31	2-12
	35-60	Stratified sand to gravelly sand	GP, SP	A-1	0	0-5	30-60	10-30	5-20	0-5	0-14	NP
OgB:												
Oliaga	0-8	Loam	CL, CL-ML	A-4, A-6	0	0	100	100	85-95	60-75	22-41	6-17
	8-35	Fine sandy loam, Loam	CL-ML, ML	A-4	0	0	100	100	70-95	50-75	16-31	2-12
	35-60	Stratified sand to gravelly sand	GP, SP	A-1	0	0-5	30-60	10-30	5-20	0-5	0-14	NP
Re:												
Riverwash	0-60	Stratified gravel to sand	---	---	---	---	---	---	---	---	---	---

Physical Soil Properties

Canyon Area, Idaho

[Entries under "Erosion Factors--T" apply to the entire profile. Entries under "Wind Erodibility Group" and "Wind Erodibility Index" apply only to the surface layer. Absence of an entry indicates that data were not estimated]

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
BdA:														
Baldock	0-8	---	---	12-22	1.20-1.40	4.00-14.11	0.16-0.21	0.0-2.9	1.0-2.0	.32	.32	5	4L	86
	8-56	---	---	18-27	1.25-1.40	4.00-14.11	0.16-0.21	0.0-2.9	0.0-0.5	.32	.32			
	56-60	---	---	5-15	1.35-1.50	14.11-42.34	0.09-0.15	0.0-2.9	0.0-0.5	.10	.10			
BsA:														
Bram, saline-alkali	0-8	---	---	12-18	1.25-1.35	4.00-14.11	0.14-0.17	0.0-2.9	1.0-2.0	.43	.49	5	4L	86
	8-52	---	---	12-18	1.50-1.60	1.41-4.23	0.08-0.11	0.0-2.9	0.0-0.5	.43	.49			
	52-65	---	---	12-18	1.50-1.60	14.11-42.34	0.07-0.10	0.0-2.9	0.0-0.5	.24	.43			
MtB:														
Moulton	0-3	---	---	10-20	1.50-1.70	14.11-42.34	0.13-0.15	0.0-2.9	2.0-4.0	.24	.24	4	3	86
	3-21	---	---	10-20	1.50-1.70	14.11-42.34	0.11-0.15	0.0-2.9	1.0-2.0	.32	.32			
	21-60	---	---	5-10	1.40-1.60	42.34-141.14	0.04-0.08	0.0-2.9	0.5-1.0	.05	.17			
MuA:														
Moulton, saline	0-3	---	---	10-20	1.50-1.70	14.11-42.34	0.13-0.15	0.0-2.9	2.0-4.0	.24	.24	4	3	86
	3-21	---	---	10-20	1.50-1.70	14.11-42.34	0.11-0.15	0.0-2.9	1.0-2.0	.32	.32			
	21-60	---	---	5-10	1.40-1.60	42.34-141.14	0.04-0.08	0.0-2.9	0.5-1.0	.05	.17			
MvA:														
Moulton	0-3	---	---	10-20	1.40-1.50	4.00-14.11	0.16-0.18	0.0-2.9	2.0-4.0	.37	.37	4	5	56
	3-21	---	---	10-20	1.50-1.70	14.11-42.34	0.11-0.15	0.0-2.9	1.0-2.0	.32	.32			
	21-60	---	---	5-10	1.40-1.60	42.34-141.14	0.04-0.08	0.0-2.9	0.5-1.0	.05	.17			

Physical Soil Properties

Canyon Area, Idaho

Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/in</i>	<i>Pct</i>	<i>Pct</i>					
MwA:														
Moulton, saline	0-3	---	---	10-20	1.40-1.50	4.00-14.11	0.16-0.18	0.0-2.9	2.0-4.0	.37	.37	4	5	56
	3-21	---	---	10-20	1.50-1.70	14.11-42.34	0.11-0.15	0.0-2.9	1.0-2.0	.32	.32			
	21-60	---	---	5-10	1.40-1.60	42.34-141.14	0.04-0.08	0.0-2.9	0.5-1.0	.05	.17			
No:														
Notus	0-1	---	---	5-10	1.60-1.70	14.11-42.34	0.11-0.13	0.0-2.9	0.5-1.0	.28	.28	3	4	86
	1-14	---	---	5-10	1.60-1.70	14.11-42.34	0.11-0.13	0.0-2.9	0.5-1.0	.28	.28			
	14-60	---	---	2-7	1.60-1.70	141.14	0.03-0.05	0.0-2.9	0.0-0.5	.05	.24			
NsA:														
Nyssaton	0-11	---	---	8-18	1.30-1.40	4.00-14.11	0.19-0.21	0.0-2.9	1.0-2.0	.49	.49	5	4L	86
	11-60	---	---	8-18	1.30-1.40	0.42-1.41	0.19-0.21	0.0-2.9	0.0-0.5	.43	.43			
OgA:														
Oliaga	0-8	---	---	10-25	1.25-1.40	4.00-14.11	0.16-0.18	0.0-2.9	1.0-3.0	.24	.24	4	4L	86
	8-35	---	---	5-18	1.30-1.45	4.00-14.11	0.13-0.18	0.0-2.9	0.0-1.0	.20	.20			
	35-60	---	---	0-10	1.30-1.60	141.14	0.03-0.06	0.0-2.9	0.0-0.5	.10	.20			
OgB:														
Oliaga	0-8	---	---	10-25	1.25-1.40	4.00-14.11	0.16-0.18	0.0-2.9	1.0-3.0	.24	.24	4	4L	86
	8-35	---	---	5-18	1.30-1.45	4.00-14.11	0.13-0.18	0.0-2.9	0.0-1.0	.20	.20			
	35-60	---	---	0-10	1.30-1.60	141.14	0.03-0.06	0.0-2.9	0.0-0.5	.10	.20			
Re:														
Riverwash	0-60	---	---	---	---	---	---	---	---	---	---	---	---	---

IRRIGATION FLOW RATE QUESTIONNAIRE

The information required in this questionnaire will describe your water delivery system and irrigation methods. This information is essential in order for IDWR staff to evaluate your irrigation water requirements. Much of the information is technical, and you may wish to contact your County Extension Agent, the Natural Resources Conservation Service (formerly SCS) or other professionals for assistance with this form.

1. Please provide your name, address, and phone number where you may be contacted for further information or clarification. Include the claim number(s) for those claims where the irrigation flow rate is greater than 0.02 cfs (1 miner's inch) per acre.

Name Raymond Abbott
Address 26948 Sepulchra Pkwy, Playa Vista 90045
Phone 208 722 5785
Claim No(s). _____

2. Provide the total number of acres irrigated 561 for the claims listed.

3. Provide a detailed diagram or copy of an aerial photograph showing the complete irrigation system for the claims listed. Please include the location of wells, pipelines, canals or ditches, field headgates, and individual field boundaries. Please label by name (or identify by number) each of the elements shown.

4. Provide a description of the water conveyance system from the source to the farm and any major on-farm laterals. This information should include: general soil type (for earthen ditches or canals), type of lining (for lined ditches or canals), length of canal, width of canal at water surface, total depth from land surface to bottom of canal. Use average values. Also include any pipeline lengths and diameters.

The ditch is an open dirt ditch 10-12 feet wide and average depth of 2.5 feet.

Is this conveyance system shared by other water users? _____ If yes, please describe.

The system is a shared ditch by seven property owners on a rotational crop needs basis.

Is the water supply for the claims listed rotated with other water users? _____ If yes, please describe.

all operators use the water on a shared basis, by use through a needs rotation among the users.

5. For each field, please provide the following information (this page may be copied for each individual field if necessary):

field name or identifying number _____ type of irrigation system _____

historical crop rotation _____ number of acres irrigated _____

Provide the following information, for each field, based on the peak water-use period for the highest water-use crop historically grown.

crop type requiring highest flow rate _____

number of days to irrigate entire field _____ irrigation set time (hrs) _____

irrigation frequency _____ (number of days from the start of one irrigation cycle to the start of the next for a given field)

Please draw a diagram of each field showing general shape and dimensions, include the following information:

For sprinkler systems

location of mainlines
number of laterals
spacing between sprinklers and laterals
nozzle size
average nozzle pressure
average nozzle flow

For surface systems

(furrow, corrugation, border, wild flood, etc.)

field length
direction of flow
slope of field in direction of flow
spacing between furrows, borders, etc.

253 map.

39.2 tract, corn 3 years
1 year wheat
sugar beets

2, Hay 3 years
wheat
beets

3 Hay 3 years
wheat
beets

4 pasture

5 radish seed
2 year corn
wheat
beets

6. barley
corn 3 years
beets

253

39.3 tract. 1. barley
corn 3 years
beets.

2, Corn 3 years
wheat
beets.

3 corn 3 years
wheat
beets

4 pasture

5 corn 3 years
wheat 2 years
beets

6. radish seed
corn 3 years
wheat
beets

Water Resource Map

16. A. beets
corn 3 years

38.5A. beets
corn 3 years

23.7A corn
beets
wheat
corn

21.0A pasture 3 years
corn 3 years

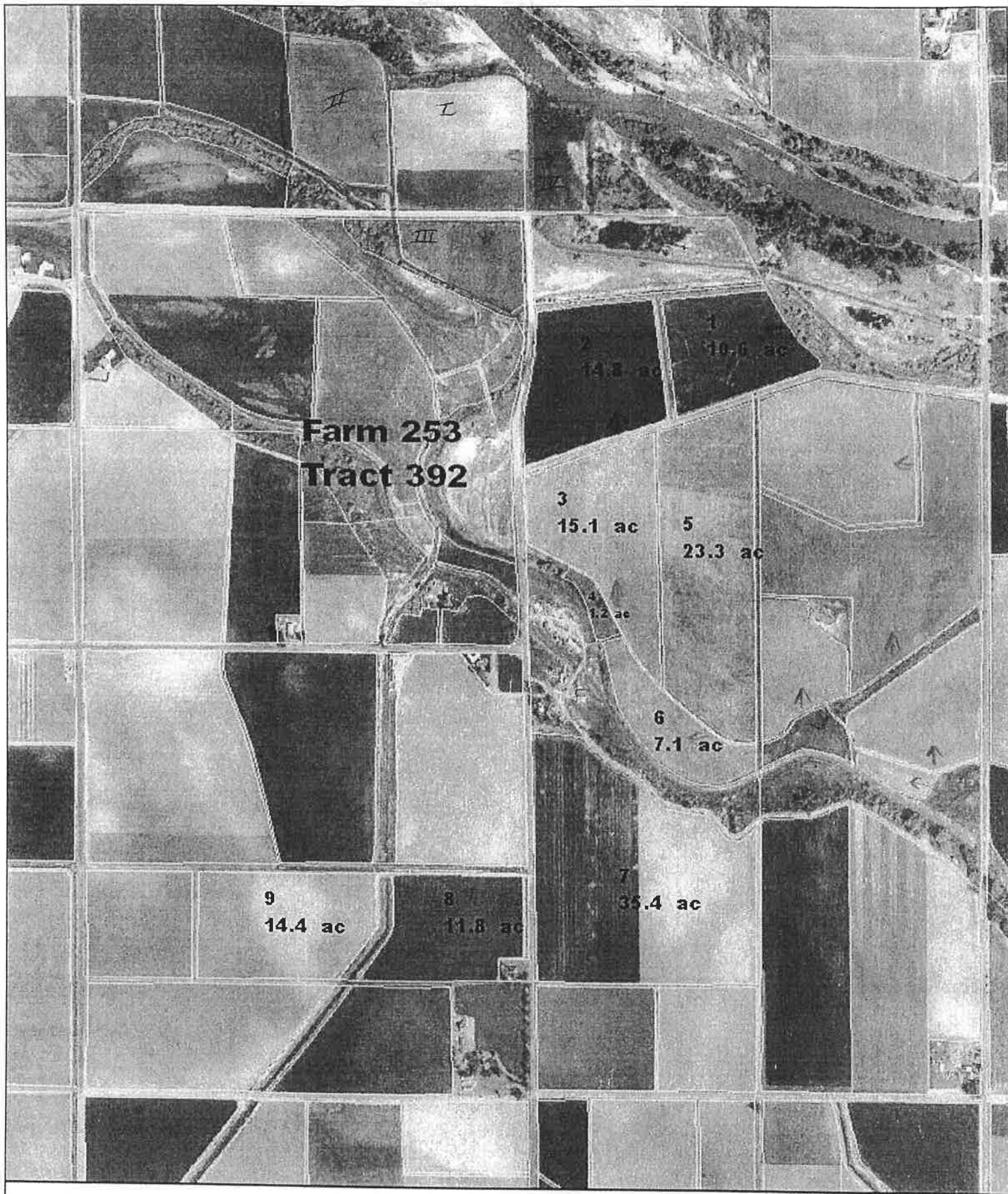
26.0A. pasture 3 years
corn 3 years

58 A. pasture
corn 4 years

12.6 ~~corn~~ pasture
corn 4 years

24.3 hay 4 years
wheat
pasture.

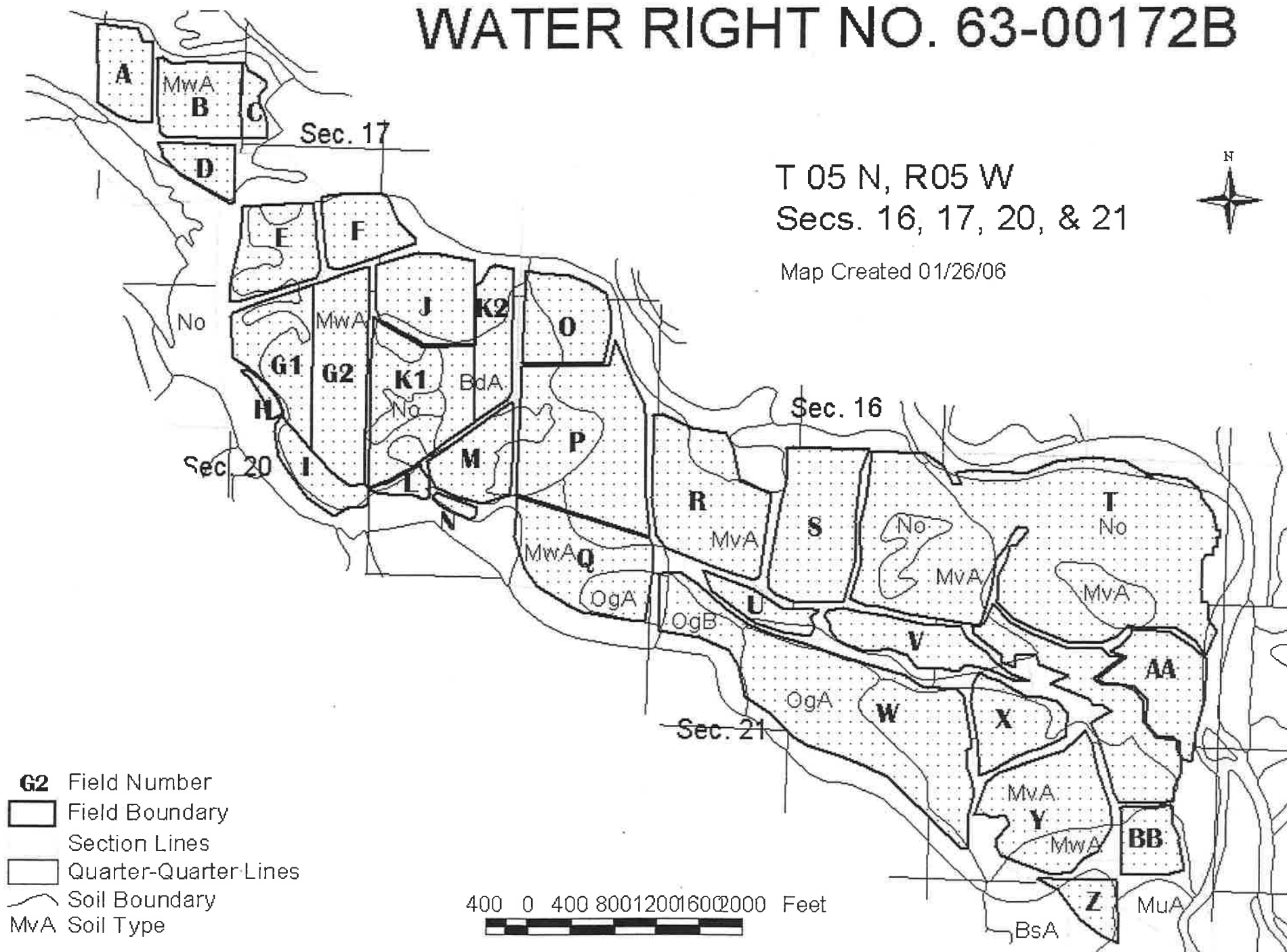




WATER RIGHT NO. 63-00172B

T 05 N, R05 W
Secs. 16, 17, 20, & 21

Map Created 01/26/06



WATER RIGHT NO. 63-00172B

