

APPENDIX H.

WATER MANAGEMENT PLANNING

Appendix H Water Management Planning

H.1 Estimation of Water Requirement H-1

Table H.1.1 Estimation of Water Requirement (A)

Table H.1.2 Estimation of Water Requirement (B)

Table H.1.3 Estimation of Water Requirement (C1)

Table H.1.4 Estimation of Water Requirement (CT)

Table H.1.5 Estimation of Water Requirement (DI)

Table H.1.6 Estimation of Water Requirement (DT)

H.2 Surge Flow Irrigation System H-21

Figure H.2.1 A complete P & R System consists of one controller mounted on one valve

Table H.3 1 MPWWR Training Programs 1998/1999

H.4 Discharge Tables at Major Stations in Study Area H-31

Table H.4.1 Discharge through Zifta Barrage in 1996, 1997, 1998

Table H.4.2 Intake Amount to Meet Yazied in 1996, 1997, 1998

Table H.4.3 Discharge through Beltag Regulator in 1996, 1997, 1998

Table H.4.4 Intake Amount to Mallah Main Canal in 1996, 1997, 1998

Table H.4.5 Intake Amount to El-Sahel Main Canal in 1996, 1997, 1998

Table H.4.6 Discharge through Kafr El-Arab Regulator in 1996, 1997, 1998

Table H.4.7 Discharge through Rahbeen Regulator in 1996, 1997, 1998

Table H.4.8 Intake Amount to Tera Main Canal in 1996, 1997, 1998

H.1 Estimation of Water Requirement

The water distribution in the Nile basin is based on the procedure shown in Figure 3.6.9, which indicates the statewide estimation of water requirement. The water requirement is calculated following an example of the West Dakahlia Irrigation Directorate as per Appendix Tables H.1.1 (A) to H.1.6 (DT). (Hereafter abridged (A) or (DT))

The entire land is divided into three Water Duties Regions. The water duties in the Region Delta are applied to the Study area. The water requirement is estimated to 44 crops with ten-daily computation interval as shown in (A). While, the cropped area in the Directorate is arranged by canal as shown in (B). The cropping pattern by canal is able to get from (A) and (B) as presented in (Dn). (DT) means summation of (Dn) indicating the cropping pattern of the entire specific Irrigation Directorate.

The water requirement by canal is shown in (Cn) and is able to get as products of (A) and (B). (CT) denotes the total water requirement in the specific Irrigation Directorate. Further, the municipal and industrial water, drainage reuse amount, groundwater amount, augmentation factor and conveyance loss are also considered to estimate the release amount from the Lake Nasser to the specific canal as shown in the upper right of Figure 3.6.9. The summation to 38 principal canal corresponds with the annual release amount from the Lake and is identical to the sum of 24 Irrigation Directorates.

The estimation method so far stated is illustrated in Figure 3.6.7 in case of 1989/90. The rectangular frames in Figure 3.6.7 demonstrate the summation of the horizontal ovals indicating the flow amounts. The navigation water is separately treated from the irrigation water and M&I water as is evident from Figure 3.6.7. It is conceivable that there works a hydraulic mechanism as depicted in Figure 3.6.9 behind "the Annual Water Balance in Egypt" shown in Figure 3.6.7.

Table H.1.1 Estimation of Water Requirement (A)

(A) Water Duties for Region Delta <Old Lands> (cum/feddan) -(A) 1/4-

Crop	Jan 1	Jan 2	Jan 3	Feb 1	Feb 2	Feb 3	Mar 1	Mar 2	Mar 3
1 wheat	78.41	79.80	98.57	99.41	109.20	101.93	149.45	174.96	217.68
2 horse beans	84.01	88.92	114.06	120.72	137.28	120.96	161.16	171.00	178.83
3 barley	78.41	79.80	98.57	99.41	109.20	105.12	157.08	182.40	209.57
4 fenugreek	95.22	100.32	118.29	113.62	117.00	86.40	91.80	91.20	0.00
5 lupins	95.22	100.32	118.29	113.62	117.00	86.40	91.80	91.20	0.00
6 chickpeas	95.22	100.32	118.29	113.62	117.00	86.40	91.80	91.20	0.00
7 lentins	95.22	100.32	118.29	113.62	117.00	86.40	116.28	125.40	0.00
8 clover c	95.22	96.90	119.70	119.60	128.33	115.58	83.64	33.02	0.00
9 clover f	92.98	95.76	118.59	118.25	127.51	115.58	161.16	178.44	216.48
10 flax	96.34	102.60	126.74	127.82	140.40	86.40	102.00	91.20	111.77
11 onion w	98.58	104.88	128.15	127.82	140.40	126.72	175.44	193.80	231.92
12 garlic w	98.58	104.88	128.15	127.82	140.40	126.72	175.44	193.80	231.92
13 vegetables w	113.14	100.32	101.39	79.53	62.40	38.88	19.99	0.00	0.00
14 others w	89.62	91.20	107.02	102.25	109.20	97.92	134.64	148.20	181.62
15 potatoes w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 medical pl w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 trans crop w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18 sugar beat	67.21	85.50	105.61	106.51	117.00	112.32	167.28	193.80	254.27
19 cotton	0.00	0.00	0.00	0.00	0.00	0.00	55.00	100.00	113.70
20 rice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 maize s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 sorghum s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 soya beans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 sugar cane	67.21	64.98	81.68	82.37	92.04	80.64	108.12	116.28	148.09
25 sesame	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 ground nuts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27 onion s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 vegetalbe s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29 others s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 fodder s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 trans crop s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 potatoes s	0.00	0.00	0.00	59.65	70.98	70.56	107.10	119.70	146.70
33 sunflower s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 medical pl s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 darawa s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 maize n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 sorghum n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 vegetables n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 gardens n	72.81	76.38	94.35	95.15	104.52	97.92	142.80	164.16	201.18
40 potatoes n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41 darawa n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 sprinkler	130.00	130.00	143.00	130.00	130.00	104.00	150.00	150.00	165.00
43 surface	170.00	170.00	178.00	170.00	170.00	136.00	200.00	200.00	220.00
44 soahel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table H.1.1 Estimation of Water Requirement (A)

(A) Water Duties for Region Delta <Old Lands> (cum/feddan) - (A) 1/4-

Crop	Jan 1	Jan 2	Jan 3	Feb 1	Feb 2	Feb 3	Mar 1	Mar 2	Mar 3
1 wheat	78.41	79.80	98.57	99.41	109.20	101.93	149.45	174.96	217.68
2 horse beans	84.01	88.92	114.06	120.72	137.28	120.96	161.16	171.00	178.83
3 barley	78.41	79.80	98.57	99.41	109.20	105.12	157.08	182.40	209.57
4 fenugreek	95.22	100.32	118.29	113.62	117.00	86.40	91.80	91.20	0.00
5 lupins	95.22	100.32	118.29	113.62	117.00	86.40	91.80	91.20	0.00
6 chickpeas	95.22	100.32	118.29	113.62	117.00	86.40	91.80	91.20	0.00
7 lentins	95.22	100.32	118.29	113.62	117.00	86.40	116.28	125.40	0.00
8 clover c	95.22	96.90	119.70	119.60	128.33	115.58	83.64	33.02	0.00
9 clover f	92.98	95.76	118.59	118.25	127.51	115.58	161.16	178.44	216.48
10 flax	96.34	102.60	126.74	127.82	140.40	86.40	102.00	91.20	111.77
11 onion w	98.58	104.88	128.15	127.82	140.40	126.72	175.44	193.80	231.92
12 garlic w	98.58	104.88	128.15	127.82	140.40	126.72	175.44	193.80	231.92
13 vegetables w	113.14	100.32	101.39	79.53	62.40	38.88	19.99	0.00	0.00
14 others w	89.62	91.20	107.02	102.25	109.20	97.92	134.64	148.20	181.62
15 potatoes w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 medical pl w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 trans crop w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18 sugar beat	67.21	85.50	105.61	106.51	117.00	112.32	167.28	193.80	254.27
19 cotton	0.00	0.00	0.00	0.00	0.00	0.00	55.00	100.00	113.70
20 rice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 maize s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 sorghum s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 soya beans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 sugar cane	67.21	64.98	81.68	82.37	92.04	80.64	108.12	116.28	148.09
25 sesame	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 ground nuts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27 onion s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 vegetalbe s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29 others s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 fodder s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 trans crop s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 potatoes s	0.00	0.00	0.00	59.65	70.98	70.56	107.10	119.70	146.70
33 sunflower s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 medical pl s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 darawa s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 maize n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 sorghum n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 vegetables n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 gardens n	72.81	76.38	94.35	95.15	104.52	97.92	142.80	164.16	201.18
40 potatoes n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41 darawa n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 sprinkler	130.00	130.00	143.00	130.00	130.00	104.00	150.00	150.00	165.00
43 surface	170.00	170.00	178.00	170.00	170.00	136.00	200.00	200.00	220.00
44 soahel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

-(A)2/4-

Apr 1	Apr 2	Apr 3	May 1	May 2	May 3	Jun 1	Jun 2	Jun 3	Jul 1	Jul 2
210.75	216.46	116.25	43.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198.81	201.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212.08	224.18	233.10	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226.82	244.80	265.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226.82	244.80	265.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
271.62	315.18	345.26	379.50	410.88	405.11	326.40	277.20	0.00	0.00	0.00
101.41	155.26	144.90	162.16	180.25	213.53	211.68	231.74	245.58	260.32	275.80
0.00	0.00	0.00	100.00	237.50	379.10	504.00	539.30	550.00	550.00	570.00
0.00	0.00	0.00	55.00	100.00	121.92	114.43	181.60	234.80	250.27	279.30
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	143.21	153.60	217.80	244.80	315.00	315.00	311.29	318.21
156.81	177.48	225.75	279.26	326.40	374.62	354.96	369.60	378.00	342.42	373.55
0.00	0.00	0.00	143.21	153.60	239.58	265.20	315.00	336.00	336.00	311.29
0.00	0.00	0.00	125.31	134.40	217.80	244.80	294.00	336.00	294.00	311.29
0.00	0.00	0.00	179.01	192.00	261.36	285.60	336.00	357.00	357.00	357.00
117.61	128.52	139.43	150.37	161.28	187.31	179.52	193.20	172.20	170.00	170.00
0.00	0.00	0.00	60.86	65.28	74.05	146.88	231.00	235.20	200.61	204.07
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156.81	182.07	192.88	187.96	188.16	198.20	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	128.89	138.24	213.44	252.96	315.00	361.20	332.05	370.09
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	162.79	179.34	214.62	246.96	282.24
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	201.60
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201.61	220.32	232.39	236.29	241.92	261.36	236.64	243.60	243.60	200.61	200.61
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	160.00	170.00	170.00	170.00	187.00	170.00	170.00	170.00	170.00	170.00
220.00	220.00	220.00	250.00	250.00	275.00	250.00	250.00	250.00	250.00	250.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

-(A)2/4-

Apr 1	Apr 2	Apr 3	May 1	May 2	May 3	Jun 1	Jun 2	Jun 3	Jul 1	Jul 2
210.75	216.46	116.25	43.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
198.81	201.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
212.08	224.18	233.10	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226.82	244.80	265.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
226.82	244.80	265.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
271.62	315.18	345.26	379.50	410.88	405.11	326.40	277.20	0.00	0.00	0.00
101.41	155.26	144.90	162.16	180.25	213.53	211.68	231.74	245.58	260.32	275.80
0.00	0.00	0.00	100.00	237.50	379.10	504.00	539.30	550.00	550.00	570.00
0.00	0.00	0.00	55.00	100.00	121.92	114.43	181.60	234.80	250.27	279.30
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	143.21	153.60	217.80	244.80	315.00	315.00	311.29	318.21
156.81	177.48	225.75	279.26	326.40	374.62	354.96	369.60	378.00	342.42	373.55
0.00	0.00	0.00	143.21	153.60	239.58	265.20	315.00	336.00	336.00	311.29
0.00	0.00	0.00	125.31	134.40	217.80	244.80	294.00	336.00	294.00	311.29
0.00	0.00	0.00	179.01	192.00	261.36	285.60	336.00	357.00	357.00	357.00
117.61	128.52	139.43	150.37	161.28	187.31	179.52	193.20	172.20	170.00	170.00
0.00	0.00	0.00	60.86	65.28	74.05	146.88	231.00	235.20	200.61	204.07
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
156.81	182.07	192.88	187.96	188.16	198.20	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	128.89	138.24	213.44	252.96	315.00	361.20	332.05	370.09
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	162.79	179.34	214.62	246.96	282.24
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	201.60
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
201.61	220.32	232.39	236.29	241.92	261.36	236.64	243.60	243.60	200.61	200.61
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.00	160.00	170.00	170.00	170.00	187.00	170.00	170.00	170.00	170.00	170.00
220.00	220.00	220.00	250.00	250.00	275.00	250.00	250.00	250.00	250.00	250.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

-(A)3/4-

Jul 3	Aug 1	Aug 2	Aug 3	Sep 1	Sep 2	Sep 3	Oct 1	Oct 2	Oct 3	Nov 1
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.60	123.42	117.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.60	123.42	117.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.60	123.42	117.00
0.00	0.00	0.00	0.00	0.00	36.77	94.32	193.78	250.83	199.75	113.40
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.31
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00
0.00	0.00	0.00	0.00	0.00	0.00	75.54	86.02	132.24	139.13	118.80
0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.41	91.20	105.47	97.20
0.00	0.00	0.00	0.00	151.98	152.88	149.09	143.37	135.66	130.38	100.80
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293.52	234.96	192.85	168.01	123.78	67.34	20.83	0.00	0.00	0.00	0.00
573.85	494.90	435.50	513.74	406.60	370.60	316.72	150.00	150.00	150.00	0.00
316.08	269.45	305.19	275.16	209.16	187.20	170.39	153.61	136.80	134.64	130.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
338.35	296.98	280.16	274.13	250.51	187.20	170.39	0.00	0.00	0.00	0.00
397.19	351.86	339.31	348.31	354.06	327.60	301.02	279.06	250.80	244.60	190.80
312.61	258.25	264.60	195.81	100.21	0.00	0.00	0.00	0.00	0.00	0.00
330.99	290.53	321.30	234.97	100.21	0.00	0.00	0.00	0.00	0.00	0.00
330.99	274.39	302.40	274.13	200.41	156.00	141.99	0.00	0.00	0.00	0.00
170.00	100.00	83.16	86.16	86.85	90.48	76.67	64.00	54.72	0.00	0.00
209.63	209.63	209.63	219.31	193.73	196.56	110.75	38.40	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
367.77	300.21	289.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293.85	252.44	233.14	211.08	151.98	113.37	0.00	0.00	0.00	0.00	0.00
223.29	177.54	189.89	225.76	287.26	299.52	266.94	235.54	205.20	157.08	93.60
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	151.98	152.88	149.09	143.37	135.66	130.38	100.80
213.31	187.23	180.55	187.06	193.73	180.96	167.55	156.17	143.64	141.37	113.40
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187.00	170.00	170.00	178.00	160.00	160.00	160.00	160.00	160.00	176.00	130.00
275.00	250.00	250.00	275.00	210.00	210.00	210.00	220.00	220.00	242.00	210.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

-(A)3/4-

Jul 3	Aug 1	Aug 2	Aug 3	Sep 1	Sep 2	Sep 3	Oct 1	Oct 2	Oct 3	Nov 1
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.60	123.42	117.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.60	123.42	117.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.60	123.42	117.00
0.00	0.00	0.00	0.00	0.00	36.77	94.32	193.78	250.83	199.75	113.40
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.31
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00
0.00	0.00	0.00	0.00	0.00	0.00	75.54	86.02	132.24	139.13	118.80
0.00	0.00	0.00	0.00	0.00	0.00	0.00	102.41	91.20	105.47	97.20
0.00	0.00	0.00	0.00	151.98	152.88	149.09	143.37	135.66	130.38	100.80
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293.52	234.96	192.85	168.01	123.78	67.34	20.83	0.00	0.00	0.00	0.00
573.85	494.90	485.50	513.74	406.60	370.60	316.72	150.00	150.00	150.00	0.00
316.08	269.45	305.19	275.16	209.16	187.20	170.39	153.61	136.80	134.64	130.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
338.35	296.98	280.16	274.13	250.51	187.20	170.39	0.00	0.00	0.00	0.00
397.19	351.86	339.31	348.31	354.06	327.60	301.02	279.06	250.80	244.60	190.80
312.61	258.25	264.60	195.81	100.21	0.00	0.00	0.00	0.00	0.00	0.00
330.99	290.53	321.30	234.97	100.21	0.00	0.00	0.00	0.00	0.00	0.00
330.99	274.39	302.40	274.13	200.41	156.00	141.99	0.00	0.00	0.00	0.00
170.00	100.00	83.16	86.16	86.85	90.48	76.67	64.00	54.72	0.00	0.00
209.63	209.63	209.63	219.31	193.73	196.56	110.75	38.40	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
367.77	300.21	289.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
293.85	252.44	238.14	211.08	151.98	113.57	0.00	0.00	0.00	0.00	0.00
223.29	177.54	189.89	225.76	287.26	299.52	266.94	235.54	205.20	157.08	93.60
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	151.98	152.88	149.09	143.37	135.66	130.38	100.80
213.31	187.23	180.55	187.06	193.73	180.96	167.55	156.17	143.64	141.37	113.40
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
187.00	170.00	170.00	178.00	160.00	160.00	160.00	160.00	160.00	176.00	130.00
275.00	250.00	250.00	275.00	210.00	210.00	210.00	220.00	220.00	242.00	210.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

-(A)4/4-

Nov 2	Nov 3	Dec 1	Dec 2	Dec 3	Total
100.00	96.17	51.08	69.38	84.71	2,152.53
0.00	65.79	74.41	72.36	85.92	1,475.42
0.00	67.19	86.81	75.60	84.71	1,834.64
109.20	102.19	94.26	84.24	99.24	1,646.00
109.20	102.19	94.26	84.24	99.24	1,646.00
109.20	102.19	94.26	84.24	99.24	1,704.68
112.73	111.48	102.94	90.72	102.55	2,201.26
197.61	153.79	78.13	78.04	96.38	2,747.37
78.00	76.99	76.89	75.60	94.40	1,477.15
78.00	83.99	86.81	86.40	101.66	2,591.77
78.00	83.99	86.81	86.40	101.66	2,591.77
107.64	124.58	135.18	139.32	139.17	1,713.27
93.60	93.79	91.77	86.40	96.82	1,920.33
81.90	71.53	60.77	49.90	53.37	1,281.63
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	60.48	75.03	4,076.16
0.00	0.00	0.00	0.00	0.00	3,552.62
0.00	0.00	0.00	0.00	0.00	7,041.81
0.00	0.00	0.00	0.00	0.00	3,625.00
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	3,816.63
160.68	135.78	114.10	93.96	99.24	8,188.63
0.00	0.00	0.00	0.00	0.00	3,231.36
0.00	0.00	0.00	0.00	0.00	3,235.60
0.00	0.00	0.00	0.00	0.00	4,005.28
0.00	0.00	0.00	0.00	0.00	2,581.48
0.00	0.00	0.00	0.00	0.00	2,605.59
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	1,680.77
0.00	0.00	0.00	0.00	0.00	3,069.35
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	2,547.01
0.00	0.00	0.00	0.00	0.00	2,563.22
0.00	0.00	0.00	0.00	0.00	0.00
81.90	71.53	60.77	49.90	53.37	1,281.63
98.28	88.19	78.13	68.04	77.45	5,843.28
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00
130.00	130.00	115.00	115.00	126.50	5,526.50
210.00	210.00	160.00	160.00	176.00	7,787.00
0.00	0.00	0.00	0.00	0.00	0.00

-(A)4/4-

Nov 2	Nov 3	Dec 1	Dec 2	Dec 3	Total
100.00	96.17	51.08	69.38	84.71	2,152.53
0.00	65.79	74.41	72.36	85.92	1,475.42
0.00	67.19	86.81	75.60	84.71	1,834.64
109.20	102.19	94.26	84.24	99.24	1,646.00
109.20	102.19	94.26	84.24	99.24	1,646.00
109.20	102.19	94.26	84.24	99.24	1,704.68
112.73	111.48	102.94	90.72	102.55	2,201.26
197.61	153.79	78.13	78.04	96.38	2,747.37
78.00	76.99	76.89	75.60	94.40	1,477.15
78.00	83.99	86.81	86.40	101.66	2,591.77
78.00	83.99	86.81	86.40	101.66	2,591.77
107.64	124.58	135.18	139.32	139.17	1,713.27
93.60	93.79	91.77	86.40	96.82	1,920.33
81.90	71.53	60.77	49.90	53.37	1,281.63
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	60.48	75.03	4,076.16
0.00	0.00	0.00	0.00	0.00	3,552.62
0.00	0.00	0.00	0.00	0.00	2,041.81
0.00	0.00	0.00	0.00	0.00	3,625.00
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	3,816.63
160.68	135.78	114.10	93.96	99.24	8,188.63
0.00	0.00	0.00	0.00	0.00	3,231.36
0.00	0.00	0.00	0.00	0.00	3,235.60
0.00	0.00	0.00	0.00	0.00	4,005.28
0.00	0.00	0.00	0.00	0.00	2,581.48
0.00	0.00	0.00	0.00	0.00	2,605.59
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	1,680.77
0.00	0.00	0.00	0.00	0.00	3,069.35
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	2,347.01
0.00	0.00	0.00	0.00	0.00	2,563.22
0.00	0.00	0.00	0.00	0.00	0.00
81.90	71.53	60.77	49.90	53.37	1,281.63
98.28	88.19	78.13	68.04	77.45	5,843.28
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00
130.00	130.00	115.00	115.00	126.50	5,526.50
210.00	210.00	160.00	160.00	176.00	7,787.00
0.00	0.00	0.00	0.00	0.00	0.00

Table H.1.2 Estimation of Water Requirement (B)

(B) Cropped Area in West Dhakaliya Directorate in 1994/95 (feddan) - (B)1/1-

Crop	(1) Bahir Shebin	(3) Bakamoun PS		Total	
		(2) Sahel Canal	(4) Kafr Saad PS		
1 wheat	77,830	7,413	7,033	2,756	95,032
2 horse beans	7,988	931	883	346	10,148
3 barley	582	56	53	21	712
4 fenugreek	0	0	0	0	0
5 lupins	0	0	0	0	0
6 chickpeas	0	0	0	0	0
7 lentins	133	12	12	5	162
8 clover c	59,198	5,631	5,342	2,022	72,193
9 clover f	72,926	6,937	6,581	2,579	89,023
10 flax	3,460	325	312	122	4,219
11 onion w	0	0	0	0	0
12 garlic w	344	32	30	14	420
13 vegetables w	10,034	954	906	343	12,237
14 others w	3,316	315	300	113	4,044
15 potatoes w	0	0	0	0	0
16 medical pl w	0	0	0	0	0
17 trans crop w	0	0	0	0	0
18 sugar beat	0	0	0	0	0
19 cotton	59,198	5,631	5,342	2,022	72,193
20 rice	114,599	10,900	10,342	3,914	139,755
21 maize s	38,961	7,828	3,692	482	50,963
22 sorghum s	0	0	0	0	0
23 soya beans	3,213	300	290	115	3,918
24 sugar cane	206	20	18	7	251
25 sesame	0	0	0	0	0
26 ground nuts	0	0	0	0	0
27 onion s	0	0	0	0	0
28 vegetable s	19,634	1,864	1,768	637	23,903
29 others s	0	0	0	0	0
30 fodder s	0	0	0	0	0
31 trans crop s	0	0	0	0	0
32 potatoes s	0	0	0	0	0
33 sunflower s	0	0	0	0	0
34 medical pl s	0	0	0	0	0
35 darawa s	0	0	0	0	0
36 maize n	0	0	0	0	0
37 sorghum n	0	0	0	0	0
38 vegetables n	0	0	0	0	0
39 gardens n	10,090	961	910	351	12,312
40 potatoes n	0	0	0	0	0
41 darawa n	0	0	0	0	0
42 sprinkler	0	0	0	0	0
43 surface	0	0	0	0	0
44 soahel	0	0	0	0	0
Total	481,712	50,110	43,814	15,849	591,485

Table H.1.2 Estimation of Water Requirement (B)

(B) Cropped Area in West Dhakaliya Directorate in 1994/95 (feddan) -(B)1/1-

Crop	(1) Bahr Shobha	(2) Sohel Canal	(3) Bahmoun PS	(4) Kafr Saad PS	Total
1 wheat	77,830	7,413	7,033	2,756	95,032
2 horse beans	7,988	931	883	346	10,148
3 barley	582	56	53	21	712
4 fenugreek	0	0	0	0	0
5 lupins	0	0	0	0	0
6 chickpeas	0	0	0	0	0
7 lentins	133	12	12	5	162
8 clover c	59,198	5,631	5,342	2,022	72,193
9 clover f	72,926	6,937	6,581	2,579	89,023
10 flax	3,460	325	312	122	4,219
11 onion w	0	0	0	0	0
12 garlic w	344	32	30	14	420
13 vegetables w	10,034	954	906	343	12,237
14 others w	3,316	315	300	113	4,044
15 potatoes w	0	0	0	0	0
16 medical pl w	0	0	0	0	0
17 trans crop w	0	0	0	0	0
18 sugar beat	0	0	0	0	0
19 cotton	59,198	5,631	5,342	2,022	72,193
20 rice	114,599	10,900	10,342	3,914	139,755
21 maize s	38,961	7,828	3,692	482	50,963
22 sorghum s	0	0	0	0	0
23 soya beans	3,213	300	290	115	3,918
24 sugar cane	206	20	18	7	251
25 sesame	0	0	0	0	0
26 ground nuts	0	0	0	0	0
27 onion s	0	0	0	0	0
28 vegetalbe s	19,634	1,864	1,768	637	23,903
29 others s	0	0	0	0	0
30 fodder s	0	0	0	0	0
31 trans crop s	0	0	0	0	0
32 potatoes s	0	0	0	0	0
33 sunflower s	0	0	0	0	0
34 medical pl s	0	0	0	0	0
35 darawa s	0	0	0	0	0
36 maize n	0	0	0	0	0
37 sorghum n	0	0	0	0	0
38 vegetables n	0	0	0	0	0
39 gardens n	10,090	961	910	351	12,312
40 potatoes n	0	0	0	0	0
41 darawa n	0	0	0	0	0
42 sprinkler	0	0	0	0	0
43 surface	0	0	0	0	0
44 soahel	0	0	0	0	0
Total	481,712	50,110	43,814	15,849	591,485

Table H.1.3 Estimation of Water Requirement (C1)
(C1) Water Req. to (1) Bahr Shebin in W-Dhakaliya (MCM) -(C1)1/3-

Crop	Jan 1	Jan 2	Jan 3	Feb 1	Feb 2	Feb 3	Mar 1	Mar 2	Mar 3	Apr 1	Apr 2	Apr 3
1 wheat	6.10	6.21	7.67	7.74	8.50	7.93	11.63	13.62	16.94	16.40	16.85	9.05
2 horse beans	0.67	0.71	0.91	0.96	1.10	0.97	1.29	1.37	1.43	0.00	0.00	0.00
3 barley	0.05	0.05	0.06	0.06	0.06	0.06	0.09	0.11	0.12	0.12	0.12	0.00
4 fenugreek	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 lupins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 chickpeas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 lentins	0.01	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.00	0.00	0.00	0.00
8 clover c	5.64	5.74	7.09	7.08	7.60	6.84	4.95	1.95	0.00	0.00	0.00	0.00
9 clover f	6.78	6.98	8.65	8.62	9.30	8.43	11.75	13.01	15.79	15.47	16.35	17.00
10 flax	0.33	0.35	0.44	0.44	0.49	0.30	0.35	0.32	0.39	0.00	0.00	0.00
11 onion w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 garlic w	0.03	0.04	0.04	0.04	0.05	0.04	0.06	0.07	0.08	0.08	0.08	0.09
13 vegetables w	1.14	1.01	1.02	0.80	0.63	0.39	0.20	0.00	0.00	0.00	0.00	0.00
14 others w	0.30	0.30	0.35	0.34	0.36	0.32	0.45	0.49	0.60	0.00	0.00	0.00
15 potatoes w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 medical pl w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 trans crop w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18 sugar beat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19 cotton	0.00	0.00	0.00	0.00	0.00	0.00	3.26	5.92	6.73	6.00	9.19	8.58
20 rice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 maize s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 sorghum s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 soya beans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 sugar cane	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.05
25 sesame	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 ground nuts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27 onion s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 vegetalbe s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	2.52	2.74
29 others s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 fodder s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 trans crop s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 potatoes s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 sunflower s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 medical pl s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 darawa s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 maize n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 sorghum n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 vegetables n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 gardens n	0.73	0.77	0.95	0.96	1.05	0.99	1.44	1.66	2.03	2.03	2.22	2.34
40 potatoes n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41 darawa n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 sprinkler	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43 surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44 soahel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	21.50	22.18	27.21	27.08	29.17	26.30	35.51	38.55	44.14	42.44	47.37	39.84

Table H.1.3 Estimation of Water Requirement (C1)
(C1) Water Req. to (1) Bahr Shebin in W-Dhakaliya (MCM) -(C1)1/3-

Crop	Jan 1	Jan 2	Jan 3	Feb 1	Feb 2	Feb 3	Mar 1	Mar 2	Mar 3	Apr 1	Apr 2	Apr 3
1 wheat	6.10	6.21	7.67	7.74	8.50	7.93	11.63	13.62	16.94	16.40	16.85	9.05
2 horse beans	0.67	0.71	0.91	0.96	1.10	0.97	1.29	1.37	1.43	0.00	0.00	0.00
3 barley	0.05	0.05	0.06	0.06	0.06	0.06	0.09	0.11	0.12	0.12	0.12	0.00
4 fenugreek	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 lupins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 chickpeas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 lentins	0.01	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.00	0.00	0.00	0.00
8 clover c	5.64	5.74	7.09	7.08	7.60	6.84	4.95	1.95	0.00	0.00	0.00	0.00
9 clover f	6.78	6.98	8.65	8.62	9.30	8.43	11.75	13.01	15.79	15.47	16.35	17.00
10 flax	0.33	0.35	0.44	0.44	0.49	0.30	0.35	0.32	0.39	0.00	0.00	0.00
11 onion w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 garlic w	0.03	0.04	0.04	0.04	0.05	0.04	0.06	0.07	0.08	0.08	0.08	0.09
13 vegetables w	1.14	1.01	1.02	0.80	0.63	0.39	0.20	0.00	0.00	0.00	0.00	0.00
14 others w	0.30	0.30	0.35	0.34	0.36	0.32	0.45	0.49	0.60	0.00	0.00	0.00
15 potatoes w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 medical pl w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 trans crop w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18 sugar beat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19 cotton	0.00	0.00	0.00	0.00	0.00	0.00	3.26	5.92	6.73	6.00	9.19	8.58
20 rice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 maize s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 sorghum s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 soya beans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 sugar cane	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.05
25 sesame	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 ground nuts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27 onion s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 vegetalbe s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	2.52	2.74
29 others s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 fodder s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 trans crop s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 potatoes s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 sunflower s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 medical pl s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 darawa s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 maize n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 sorghum n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 vegetables n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 gardens n	0.73	0.77	0.95	0.96	1.05	0.99	1.44	1.66	2.03	2.03	2.22	2.34
40 potatoes n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41 darawa n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 sprinkler	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43 surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44 soahel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	21.80	22.18	27.21	27.08	29.17	26.30	35.51	38.55	44.14	42.44	47.37	39.84

-(C1)2/3-

May 1	May 2	May 3	Jun 1	Jun 2	Jun 3	Jul 1	Jul 2	Jul 3	Aug 1	Aug 2	Aug 3	Sep 1	Sep 2	Sep 3
3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.18	5.58
10.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.60	10.67	12.64	12.53	13.72	14.54	15.41	16.33	17.38	13.91	11.42	9.95	7.33	3.99	1.23
11.46	27.22	43.44	57.76	61.80	63.03	63.03	65.32	65.76	56.72	55.64	56.87	46.60	42.47	36.30
2.14	3.90	4.75	4.46	7.08	9.15	9.75	10.88	12.31	10.50	11.89	10.72	8.15	7.29	6.64
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.46	0.49	0.70	0.79	1.01	1.01	1.00	1.02	1.09	0.95	0.90	0.88	0.80	0.60	0.55
0.06	0.07	0.08	0.07	0.08	0.08	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.06
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.95	3.17	3.68	3.52	3.79	3.38	3.34	3.34	3.34	1.96	1.63	1.69	1.71	1.78	1.51
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43.37	47.95	67.93	61.52	89.94	93.64	94.62	98.99	102.11	66.00	83.37	84.07	66.61	60.20	54.31

-(C1)2/3-

May 1	May 2	May 3	Jun 1	Jun 2	Jun 3	Jul 1	Jul 2	Jul 3	Aug 1	Aug 2	Aug 3	Sep 1	Sep 2	Sep 3
3.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.60	10.67	12.64	12.53	13.72	14.54	15.41	16.33	17.38	13.91	11.42	9.95	7.33	3.99	1.23
11.46	27.22	43.49	57.76	61.80	63.03	63.03	65.32	65.76	56.72	55.64	58.87	46.60	42.47	36.30
2.14	3.90	4.75	4.46	7.08	9.15	9.75	10.88	12.31	10.50	11.89	10.72	8.15	7.29	6.64
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.46	0.49	0.70	0.79	1.01	1.01	1.00	1.02	1.09	0.95	0.90	0.88	0.80	0.60	0.55
0.06	0.07	0.08	0.07	0.08	0.08	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.06
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.95	3.17	3.68	3.52	3.79	3.38	3.34	3.34	3.34	1.96	1.63	1.69	1.71	1.78	1.51
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.38	2.44	2.64	2.39	2.46	2.46	2.02	2.02	2.15	1.89	1.82	1.89	1.95	1.83	1.69
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43.37	47.95	67.93	81.52	89.94	93.64	94.62	98.99	102.11	86.00	83.37	84.07	66.61	60.20	54.31

-(C1)3/3-

Oct 1	Oct 2	Oct 3	Nov 1	Nov 2	Nov 3	Dec 1	Dec 2	Dec 3	Total
0.00	0.00	0.00	4.28	7.78	7.48	3.98	5.40	6.59	167.5314
0.00	0.00	0.00	0.00	0.00	0.53	0.59	0.58	0.69	11.78565
0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.04	0.05	1.06776
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.226722
11.47	14.85	11.82	6.71	6.67	6.60	6.09	5.37	6.07	130.3102
0.00	0.00	0.00	7.24	14.41	11.22	5.70	5.69	7.03	200.3547
0.00	0.00	0.00	0.31	0.27	0.27	0.27	0.26	0.33	5.11
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.891569
0.86	1.33	1.40	1.19	1.08	1.25	1.36	1.40	1.40	17.19095
0.34	0.30	0.35	0.32	0.31	0.31	0.30	0.29	0.32	6.367814
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	210.308
17.19	17.19	17.19	0.00	0.00	0.00	0.00	0.00	0.00	806.98
5.98	5.33	5.25	5.06	0.00	0.00	0.00	0.00	0.00	141.2336
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.26283
0.06	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.02	1.686858
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1.26	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.68478
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1.58	1.45	1.43	1.14	0.99	0.89	0.79	0.69	0.78	58.9587
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
38.74	41.59	37.50	26.36	31.59	28.65	19.19	19.78	23.32	1,822.96

-(C1)3/3-

Oct 1	Oct 2	Oct 3	Nov 1	Nov 2	Nov 3	Dec 1	Dec 2	Dec 3	Total
0.00	0.00	0.00	4.28	7.78	7.48	3.98	5.40	6.59	167.5314
0.00	0.00	0.00	0.00	0.00	0.53	0.59	0.58	0.69	11.78565
0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.04	0.05	1.06776
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.226722
11.47	14.85	11.82	6.71	6.67	6.60	6.09	5.37	6.07	130.3102
0.00	0.00	0.00	7.24	14.41	11.22	5.70	5.69	7.03	200.3547
0.00	0.00	0.00	0.31	0.27	0.27	0.27	0.26	0.33	5.11
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.891569
0.86	1.33	1.40	1.19	1.08	1.25	1.36	1.40	1.40	17.19095
0.34	0.30	0.35	0.32	0.31	0.31	0.30	0.29	0.32	6.367814
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	210.308
17.19	17.19	17.19	0.00	0.00	0.00	0.00	0.00	0.00	806.98
5.98	5.33	5.25	5.06	0.00	0.00	0.00	0.00	0.00	141.2336
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.26283
0.06	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.02	1.686858
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1.26	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.68478
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
1.58	1.45	1.43	1.14	0.99	0.89	0.79	0.69	0.78	58.9587
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
38.74	41.59	37.50	26.36	31.59	28.65	19.19	19.78	23.32	1,822.96

Table H.1.4 Estimation of Water Requirement (CT)

(CT) Total Water Req. to W-Dhakaliya(MCM) -(CT)1/3-

Crop	Jan 1	Jan 2	Jan 3	Feb 1	Feb 2	Feb 3	Mar 1	Mar 2	Mar 3	Apr 1	Apr 2
1 wheat	7.45	7.58	9.37	9.45	10.38	9.69	14.20	16.63	20.69	20.03	20.57
2 horse beans	0.85	0.90	1.16	1.23	1.39	1.23	1.64	1.74	1.81	0.00	0.00
3 barley	0.06	0.06	0.07	0.07	0.08	0.07	0.11	0.13	0.15	0.14	0.14
4 fenugreek	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 lupins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 chickpeas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 lentins	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.00	0.00	0.00
8 clover c	6.87	7.00	8.64	8.63	9.26	8.34	6.04	2.38	0.00	0.00	0.00
9 clover f	8.28	8.52	10.56	10.53	11.35	10.29	14.35	15.89	19.27	18.88	19.96
10 flax	0.41	0.43	0.53	0.54	0.59	0.36	0.43	0.38	0.47	0.00	0.00
11 onion w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 garlic w	0.04	0.04	0.05	0.05	0.06	0.05	0.07	0.08	0.10	0.10	0.10
13 vegetables w	1.38	1.23	1.24	0.97	0.76	0.48	0.24	0.00	0.00	0.00	0.00
14 others w	0.36	0.37	0.43	0.41	0.44	0.40	0.54	0.60	0.73	0.00	0.00
15 potatoes w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 medical pl w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 trans crop w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18 sugar beat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19 cotton	0.00	0.00	0.00	0.00	0.00	0.00	3.97	7.22	8.21	7.32	11.21
20 rice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 maize s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 sorghum s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 soya beans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 sugar cane	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04
25 sesame	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 ground nuts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27 onion s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 vegetable s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.81	3.07
29 others s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 fodder s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 trans crop s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 potatoes s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 sunflower s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 medical pl s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 darawa s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 maize n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 sorghum n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 vegetables n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 gardens n	0.90	0.94	1.16	1.17	1.29	1.21	1.76	2.02	2.48	2.48	2.71
40 potatoes n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41 darawa n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 sprinkler	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43 surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44 soahel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	26.63	27.11	33.26	33.09	35.65	32.15	43.40	47.12	53.95	51.80	57.81

Table H.1.4 Estimation of Water Requirement (CT)

(CT) Total Water Req. to W-Dhakaliya(MCM) -(CT)1/3-

Crop	Jan 1	Jan 2	Jan 3	Feb 1	Feb 2	Feb 3	Mar 1	Mar 2	Mar 3	Apr 1	Apr 2
1 wheat	7.45	7.58	9.37	9.45	10.38	9.69	14.20	16.63	20.69	20.03	20.57
2 horse beans	0.85	0.90	1.16	1.23	1.39	1.23	1.64	1.74	1.81	0.00	0.00
3 barley	0.06	0.06	0.07	0.07	0.08	0.07	0.11	0.13	0.15	0.14	0.14
4 fenugreek	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5 lupins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 chickpeas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7 lentins	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.00	0.00	0.00
8 clover c	6.87	7.00	8.64	8.63	9.26	8.34	6.04	2.38	0.00	0.00	0.00
9 clover f	8.28	8.52	10.56	10.53	11.35	10.29	14.35	15.89	19.27	18.88	19.96
10 flax	0.41	0.43	0.53	0.54	0.59	0.36	0.43	0.38	0.47	0.00	0.00
11 onion w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 garlic w	0.04	0.04	0.05	0.05	0.06	0.05	0.07	0.08	0.10	0.10	0.10
13 vegetables w	1.38	1.23	1.24	0.97	0.76	0.48	0.24	0.00	0.00	0.00	0.00
14 others w	0.36	0.37	0.43	0.41	0.44	0.40	0.54	0.60	0.73	0.00	0.00
15 potatoes w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16 medical pl w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 trans crop w	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18 sugar beat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19 cotton	0.00	0.00	0.00	0.00	0.00	0.00	3.97	7.22	8.21	7.32	11.21
20 rice	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21 maize s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22 sorghum s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23 soya beans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 sugar cane	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04
25 sesamo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 ground nuts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27 onion s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 vegetable s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.81	3.07
29 others s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30 fodder s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31 trans crop s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32 potatoes s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33 sunflower s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34 medical pl s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35 darawa s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36 maize n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37 sorghum n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38 vegetables n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39 gardens n	0.90	0.94	1.16	1.17	1.29	1.21	1.76	2.02	2.48	2.48	2.71
40 potatoes n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41 darawa n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42 sprinkler	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43 surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44 soahel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	26.63	27.11	33.26	33.09	35.65	32.15	43.40	47.12	53.95	51.80	57.81

-(CT)2/3-

Apr 3	May 1	May 2	May 3	Jun 1	Jun 2	Jun 3	Jul 1	Jul 2	Jul 3	Aug 1	Aug 2	Aug 3
11.05	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.75	13.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.46	11.71	13.01	15.42	15.28	16.73	17.73	18.79	19.91	21.19	16.96	13.92	12.13
0.00	15.98	33.19	52.96	70.44	75.37	76.87	76.87	79.66	80.20	69.16	67.85	71.80
0.00	2.80	5.10	6.21	5.83	9.25	11.97	12.75	14.23	16.11	13.73	15.55	14.02
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.56	0.60	0.85	0.96	1.23	1.23	1.22	1.25	1.33	1.16	1.10	1.07
0.06	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.33	3.59	3.86	4.48	4.29	4.62	4.12	4.06	4.06	4.06	2.39	1.99	2.06
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.86	2.91	2.98	3.22	2.91	3.00	3.00	2.47	2.47	2.63	2.31	2.22	2.30
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48.62	53.09	54.82	63.25	69.80	110.30	115.00	116.25	121.66	125.61	105.81	102.72	103.47

-(CT)2/3-

Apr 3	May 1	May 2	May 3	Jun 1	Jun 2	Jun 3	Jul 1	Jul 2	Jul 3	Aug 1	Aug 2	Aug 3
11.05	4.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.75	13.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.46	11.71	13.01	15.42	15.28	16.73	17.73	18.79	19.91	21.19	16.96	13.92	12.13
0.00	13.98	33.19	52.98	70.44	75.37	76.87	76.87	79.66	80.20	69.16	67.85	71.80
0.00	2.80	5.10	6.21	5.83	9.25	11.97	12.75	14.23	16.11	13.73	15.55	14.02
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.56	0.60	0.85	0.96	1.23	1.23	1.22	1.25	1.33	1.16	1.10	1.07
0.06	0.07	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.33	3.59	3.86	4.48	4.29	4.62	4.12	4.06	4.06	4.06	2.39	1.99	2.06
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.86	2.91	2.98	3.22	2.91	3.00	3.00	2.47	2.47	2.63	2.31	2.22	2.30
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48.62	53.09	58.82	83.25	99.80	110.30	115.00	116.25	121.68	125.61	105.81	102.72	103.47

-(CT)3/3-

Sep 1	Sep 2	Sep 3	Oct 1	Oct 2	Oct 3	Nov 1	Nov 2	Nov 3	Dec 1	Dec 2	Dec 3	Total
0.00	0.00	0.00	0.00	0.00	0.00	5.23	9.50	9.14	4.85	6.59	8.05	204.56
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.76	0.73	0.87	14.97
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.05	0.06	1.31
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.28
0.00	2.65	6.81	13.99	18.11	14.42	8.19	8.14	8.05	7.43	6.55	7.40	158.92
0.00	0.00	0.00	0.00	0.00	0.00	8.84	17.59	13.69	6.96	6.95	8.58	244.58
0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.33	0.32	0.32	0.32	0.40	6.23
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.04	0.04	0.04	0.04	1.09
0.00	0.00	0.92	1.05	1.62	1.70	1.45	1.32	1.52	1.65	1.70	1.70	20.97
0.00	0.00	0.00	0.41	0.37	0.43	0.39	0.38	0.38	0.37	0.35	0.39	7.77
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.94	4.86	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	256.47
56.82	51.79	44.26	20.96	20.96	20.96	0.00	0.00	0.00	0.00	0.00	0.00	984.13
10.66	9.54	8.68	7.83	6.97	6.86	6.63	0.00	0.00	0.00	0.00	0.00	184.74
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.98	0.73	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.95
0.09	0.08	0.08	0.07	0.06	0.06	0.05	0.04	0.03	0.03	0.02	0.02	2.06
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.08	2.16	1.83	1.53	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.71
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.39	2.23	2.06	1.92	1.77	1.74	1.40	1.21	1.09	0.96	0.84	0.95	71.94
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81.95	74.06	66.82	47.77	51.19	46.20	32.61	38.56	34.99	23.45	24.16	21.50	2,236.66

-(CT)3/3-

Sep 1	Sep 2	Sep 3	Oct 1	Oct 2	Oct 3	Nov 1	Nov 2	Nov 3	Dec 1	Dec 2	Dec 3	Total
0.00	0.00	0.00	0.00	0.00	0.00	5.23	9.50	9.14	4.85	6.59	8.05	204.56
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.76	0.73	0.87	14.97
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.05	0.06	1.31
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.28
0.00	2.65	6.81	13.99	18.11	14.42	8.19	8.14	8.05	7.43	6.55	7.40	158.92
0.00	0.00	0.00	0.00	0.00	0.00	8.84	17.59	13.69	6.96	6.95	8.58	244.58
0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.33	0.32	0.32	0.32	0.40	6.23
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.04	0.04	0.04	0.04	1.09
0.00	0.00	0.92	1.05	1.62	1.70	1.45	1.32	1.52	1.65	1.70	1.70	20.97
0.00	0.00	0.00	0.41	0.37	0.43	0.39	0.38	0.38	0.37	0.35	0.39	7.77
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.94	4.86	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	256.47
56.82	51.79	44.26	20.96	20.96	20.96	0.00	0.00	0.00	0.00	0.00	0.00	984.13
10.66	9.54	8.68	7.83	6.97	6.86	6.63	0.00	0.00	0.00	0.00	0.00	184.74
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.98	0.73	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.95
0.09	0.08	0.08	0.07	0.06	0.06	0.05	0.04	0.03	0.03	0.02	0.02	2.06
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.08	2.16	1.83	1.53	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.71
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.39	2.23	2.06	1.92	1.77	1.74	1.40	1.21	1.09	0.96	0.84	0.95	71.94
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61.95	74.06	66.82	47.77	51.19	46.20	32.61	38.56	34.99	23.45	24.16	28.50	2,236.66

Table H.1.5 Estimation of Water Requirement (D1)

(D1) Cropping Pattern to (1) Bahr Shebin in W-Dhakaliya (feddan) -(D1)1/4-

Crop	Jan 1	Jan 2	Jan 3	Feb 1	Feb 2	Feb 3	Mar 1	Mar 2	Mar 3
1 wheat	77,830	77,830	77,830	77,830	77,830	77,830	77,830	77,830	77,830
2 horse beans	7,988	7,988	7,988	7,988	7,988	7,988	7,988	7,988	7,988
3 barley	582	582	582	582	582	582	582	582	582
4 fenugreek	0	0	0	0	0	0	0	0	0
5 lupins	0	0	0	0	0	0	0	0	0
6 chickpeas	0	0	0	0	0	0	0	0	0
7 lentils	133	133	133	133	133	133	133	133	0
8 clover c	59,198	59,198	59,198	59,198	59,198	59,198	59,198	59,198	0
9 clover f	72,926	72,926	72,926	72,926	72,926	72,926	72,926	72,926	72,926
10 lupins	3,460	3,460	3,460	3,460	3,460	3,460	3,460	3,460	3,460
11 onion w	0	0	0	0	0	0	0	0	0
12 garlic w	344	344	344	344	344	344	344	344	344
13 vegetables w	10,034	10,034	10,034	10,034	10,034	10,034	10,034	0	0
14 others w	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316
15 lupins	0	0	0	0	0	0	0	0	0
16 medical pl w	0	0	0	0	0	0	0	0	0
17 trans crop w	0	0	0	0	0	0	0	0	0
18 sugar beat	0	0	0	0	0	0	0	0	0
19 cotton	0	0	0	0	0	0	59,198	59,198	59,198
20 lupins	0	0	0	0	0	0	0	0	0
21 maize s	0	0	0	0	0	0	0	0	0
22 sorghum s	0	0	0	0	0	0	0	0	0
23 soya beans	0	0	0	0	0	0	0	0	0
24 sugar cane	206	206	206	206	206	206	206	206	206
25 lupins	0	0	0	0	0	0	0	0	0
26 ground nuts	0	0	0	0	0	0	0	0	0
27 onion s	0	0	0	0	0	0	0	0	0
28 vegetable s	0	0	0	0	0	0	0	0	0
29 others s	0	0	0	0	0	0	0	0	0
30 fodder s	0	0	0	0	0	0	0	0	0
31 trans crop s	0	0	0	0	0	0	0	0	0
32 potatoes s	0	0	0	0	0	0	0	0	0
33 sunflower s	0	0	0	0	0	0	0	0	0
34 medical pl s	0	0	0	0	0	0	0	0	0
35 fodder s	0	0	0	0	0	0	0	0	0
36 maize n	0	0	0	0	0	0	0	0	0
37 sorghum n	0	0	0	0	0	0	0	0	0
38 vegetables n	0	0	0	0	0	0	0	0	0
39 gardens n	10,090	10,090	10,090	10,090	10,090	10,090	10,090	10,090	10,090
40 fodder s	0	0	0	0	0	0	0	0	0
41 darawa n	0	0	0	0	0	0	0	0	0
42 sprinkler	0	0	0	0	0	0	0	0	0
43 surface	0	0	0	0	0	0	0	0	0
44 soahel	0	0	0	0	0	0	0	0	0
Total	246,107	246,107	246,107	246,107	246,107	246,107	305,305	295,271	235,940

Table H.1.5 Estimation of Water Requirement (D1)

(D1) Cropping Pattern to (1) Bahr Shebin in W-Dhakaliya (feddan) -(D1)1/4-

Crop	Jan 1	Jan 2	Jan 3	Feb 1	Feb 2	Feb 3	Mar 1	Mar 2	Mar 3
1 wheat	77,830	77,830	77,830	77,830	77,830	77,830	77,830	77,830	77,830
2 horse beans	7,988	7,988	7,988	7,988	7,988	7,988	7,988	7,988	7,988
3 barley	582	582	582	582	582	582	582	582	582
4 fenugreek	0	0	0	0	0	0	0	0	0
5 lupins	0	0	0	0	0	0	0	0	0
6 chickpeas	0	0	0	0	0	0	0	0	0
7 lentins	133	133	133	133	133	133	133	133	0
8 clover c	59,198	59,198	59,198	59,198	59,198	59,198	59,198	59,198	0
9 clover f	72,926	72,926	72,926	72,926	72,926	72,926	72,926	72,926	72,926
10 lupins	3,460	3,460	3,460	3,460	3,460	3,460	3,460	3,460	3,460
11 onion w	0	0	0	0	0	0	0	0	0
12 garlic w	344	344	344	344	344	344	344	344	344
13 vegetables w	10,034	10,034	10,034	10,034	10,034	10,034	10,034	0	0
14 others w	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316	3,316
15 lupins	0	0	0	0	0	0	0	0	0
16 medical pl w	0	0	0	0	0	0	0	0	0
17 trans crop w	0	0	0	0	0	0	0	0	0
18 sugar beat	0	0	0	0	0	0	0	0	0
19 cotton	0	0	0	0	0	0	59,198	59,198	59,198
20 lupins	0	0	0	0	0	0	0	0	0
21 maize s	0	0	0	0	0	0	0	0	0
22 sorghum s	0	0	0	0	0	0	0	0	0
23 soya beans	0	0	0	0	0	0	0	0	0
24 sugar cane	206	206	206	206	206	206	206	206	206
25 lupins	0	0	0	0	0	0	0	0	0
26 ground nuts	0	0	0	0	0	0	0	0	0
27 onion s	0	0	0	0	0	0	0	0	0
28 vegetalbe s	0	0	0	0	0	0	0	0	0
29 others s	0	0	0	0	0	0	0	0	0
30 fodder s	0	0	0	0	0	0	0	0	0
31 trans crop s	0	0	0	0	0	0	0	0	0
32 potatoes s	0	0	0	0	0	0	0	0	0
33 sunflower s	0	0	0	0	0	0	0	0	0
34 medical pl s	0	0	0	0	0	0	0	0	0
35 fodder s	0	0	0	0	0	0	0	0	0
36 maize n	0	0	0	0	0	0	0	0	0
37 sorghum n	0	0	0	0	0	0	0	0	0
38 vegetables n	0	0	0	0	0	0	0	0	0
39 gardens n	10,090	10,090	10,090	10,090	10,090	10,090	10,090	10,090	10,090
40 fodder s	0	0	0	0	0	0	0	0	0
41 darawa n	0	0	0	0	0	0	0	0	0
42 sprinkler	0	0	0	0	0	0	0	0	0
43 surface	0	0	0	0	0	0	0	0	0
44 soahel	0	0	0	0	0	0	0	0	0
Total	246,107	246,107	246,107	246,107	246,107	246,107	305,305	295,271	235,940

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Apr 1	Apr 2	Apr 3	May 1	May 2	May 3	Jun 1	Jun 2	Jun 3	Jul 1
77,830	77,830	77,830	77,830	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
582	582	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
72,926	72,926	72,926	72,926	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
344	344	344	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
59,198	59,198	59,198	59,198	59,198	59,198	59,198	59,198	59,198	59,198
0	0	0	114,599	114,599	114,599	114,599	114,599	114,599	114,599
0	0	0	38,961	38,961	38,961	38,961	38,961	38,961	38,961
0	0	0	0	0	0	0	0	0	0
0	0	0	3,213	3,213	3,213	3,213	3,213	3,213	3,213
206	206	206	206	206	206	206	206	206	206
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
19,634	19,634	19,634	19,634	19,634	19,634	19,634	19,634	19,634	19,634
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
10,090	10,090	10,090	10,090	10,090	10,090	10,090	10,090	10,090	10,090
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
240,810	240,810	240,228	396,657	245,801	245,901	245,901	245,901	245,901	245,901

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Apr 1	Apr 2	Apr 3	May 1	May 2	May 3	Jun 1	Jun 2	Jun 3	Jul 1
77,830	77,830	77,830	77,830	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
582	582	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
72,926	72,926	72,926	72,926	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
344	344	344	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
59,198	59,198	59,198	59,198	59,198	59,198	59,198	59,198	59,198	59,198
0	0	0	114,599	114,599	114,599	114,599	114,599	114,599	114,599
0	0	0	38,961	38,961	38,961	38,961	38,961	38,961	38,961
0	0	0	0	0	0	0	0	0	0
0	0	0	3,213	3,213	3,213	3,213	3,213	3,213	3,213
206	206	206	206	206	206	206	206	206	206
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
19,634	19,634	19,634	19,634	19,634	19,634	19,634	19,634	19,634	19,634
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
10,090	10,090	10,090	10,090	10,090	10,090	10,090	10,090	10,090	10,090
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
240,810	240,810	240,228	396,657	245,901	245,901	245,901	245,901	245,901	245,901