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| | | | NUV 33.4 1-587 | | NGV | 1.587 | | | 0.U | | VON | 1-587 | | | | | | | | |
| | | | GCT 195.3 9.279 | • | 0C T | 612-6 | | k L | 0.0 0 | | 00.7 | 4.2.4 | | | | | • | | | |
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| | | | JUL 627-2 21-385 | | JUL | 21.885 | | : | ייו ייו | | JUL | 21-485 | | | | | | | | |
| | | | JUN 908-91 14-504 | | NDL | 404.41 | | | NUL | | Nnr | 14-504 | | | | | | | | |
| | | | маү 264.7 2.138 | | МАҮ | 4.LJ4 | | | M4Y U.U | | MAY | 661.5 | | | | · | | • | | |
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| | 102 1,-292 1,-396 | | NNF | 14.396 | 1 | | NUL | n•n | | NOL | 14-396 | | | | | | |
| | 1052-12 622-5 70L | | JUL | 21.550 | | | JUL | 0-0 | | יער | 21.550 | | | | | | |
| | AUG 563-0 26-780 | | AUG | 26.780 | | | AUG | 0•0 | | AUG | 26-780 | | | | | | |
| | 5EP 329+1 15-632 | | SEP | 15-632 | | | SEP | 0.0 | | SëP | 15.432 | | | | | | |
| | UCI 192.9 9.209 | | 001 | 9 . 209 | | | DCT | 0-0 | | 001 | 9-203 | | | | | | |
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| | | 60V 38.2 1.815 | | NON | 1.815 | | | NUN | 0.0 | | ADN | 1-815 | | | | | | | |
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| | | SEP 379-1 18-007 | | SEP | 100.01 | | | SEP | 0-0 | | SEP | 18.007 | | | | | | | |
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| | | JUL 117-0 28-249 | | JUL | 24.249 | | | JUL | n.u | | 306 | 24.249 | | | | | | | |
| | | JUN 541.92 16.543 | | NUL | 10.583 | | | NUL | 0.0 | • | NUL | 16.24\$ | | | | | | | |
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| 0 | TLIAL INFLUM FU KESEKVUIK | W FU RES | EKVDIR | | | e • | | | | | | | | |
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| | | | | 5EP J46-5 16-457 | | SEP | 16.457 | | | 0-0 | 2 | | SEP | 16.457 | • | | | | | | | |
| | | | | AUG 593.6 28.194 | | AUG | 461.82 | | | 906 0-0 | | | AUG | 28-144 | | | | | | | | |
| | | | | JUL 655.3 23-892 | | יוטר | 23-892 | | | | | | JUL | 23. 892 | | | | | | | | |
| | | | | JUN 531.8 15.156 | | NUL | 15-156 | | | | | • | NUL | 15.156 | - | - | | | | | | |
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| | | 0.0 0.0 0.0 0.0 0 0 0 0 | | 0.0 0.0 | 0 0 0 0 0 | | DEL 159.6 4.1 | 125.6 5.256 | | bec 46.2 3.1 | 43°0 4.432 | | DEC 46-2 | 3+1 43+0 4+532 | | | DEC | 15.420 | 5 | DEC | 0-0 5-420 |
| | | 0000 00000 00000 00000 | | 70N | 0-0 0 0 | | NUV 66.1 23.5 | 4.4.4 2.254 | | . NUV 24-3 | 104-0 | | NOV 24-3 | 19-4 4-4 0-207 | 4 | | VON | 512.6 | | NON | 0.0 3.272 |
| | | 14.9 14.9 14.7 14.7 0.2 0.2 | | 13.6 | 14.4 0.22 0.072 | | 0.0 0.0 | 0.0 | | 0 0 0 0 0 0 | n•0•0 | | 0CT 0.0 | 00 00 00 00 00 00 00 00 00 00 00 00 00 | | | 061 | R/0*0 | | 100 | 0. U 0. 078 |
| | | 56P 96.6 95.4 0.041 | | 56P 126°0 | 124-5 1.5 U.486 | | 5£1 0.0 | 0.0 U.J | | 55P 0.0 | 0.0 | | 5£P U.U | 0-0-0 0-0-0 | | | SEP | 122.0 | | sep | 0-0 U-527 |
| | | AUG 141-0 129-4 1.7 0.060 | | AUG 140.0 | 146.7 2.5 0.733 | | AU6 0-0 | 0.U 0.U | | AUG 0-0 0-0 | 0-0-0 | | 0.0 0.0 | 00°0°0 0°0°0 7°0°0 | | | AUG | <i>641</i> ,6 | | AUG | 0°0 |
| | | JUL 143-8 142+1 1-7 U+U62 · | | JUL 1/3.9 | 1/1.8 2.1 U.0/1 | | 10L 0.0 | , u.0 v.v | | 101. 0.0 0.0 | 0.1.0 | | JUL 0.0 | 0-0-0 0-0-0 | | | JUL | U-132 | | JUL | 0-112 |
| | | 191-1 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-191 1-1911 | | . 2.402 | 202-7 2-5 0.791 | | 1UN 0.0 | 0.0.0 | | 010 010 | 0.0 | | NUL | 0*0 0*0 | | | ٨nr | L7b-U | | NUL | 0-0 0-1/3 |
| | | 104.1 104.1 104.4 141.2 | | 447 447 | 110.1 2.1 1.453 | | 44Y 0.0 0.0 | 0.0 | | 847 0-0 0-0 | 4.0 | | N.AY U.U | 0.0 0.0 | | | МАҮ | 0.+9 <i>b</i> | | ЧАУ | 4.4 4.498 |
| | | , , , , , , , , , , , , , , , , , , , | | 0.0 0.0 | רים מירים מירים | | AFK 21-9 1.0 | 26.J | | а.с С.с Акк | U.U 4.4 | | 0"0 444 | | | | АРК | U+9+U | | аик | 6.J U.940 |
| | 1 + - | 144 10-0 10-0 10-0 10-0 10-0 10-0 10-0 1 | 1 P+GC | רים אעא | 0.0 0.0 | a+.i (X) | 341 142.5 2.5 | 10.4 | 19+6 51 | MAK 15.U | 1.12 1.13.5 | (Y) 2+6C | MAK 19.2 | 2-1 14-2 2-U54 | | | Mak | 666-01 | | МАН | 0.409 10.409 |
| | PAUDY CWELL P+P | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | PADIJY("ET P+GC | 9.1 4.1 | 0.0 | 40) ANDA | +EN 154.0 0.0 | 124-0 | GRUUNDAUTS P+GL | 51.5 61.5 0.0 | 61.2 1.100 | 10+41 (URY) 2+6C | <i>t</i> ε6 ω1. <i>θ</i> | 0.0 61.0 0.194 | | , T | Feb | 20-194 | KS. | F ሲ ሀ | J.0 24.134 |
| | | 007 007 007 007 007 007 007 007 007 007 | | 0.0 | 0-0-0 0-0-0 | ינאד קרי פ | JAR 127.4 | 123-52 | | 10N 13.4 | 70.5 4.051 | | 146. 21.5 | 2 2 4 | | יבטוצע אנויז. י | .IAL. | 1,547 | K512N MU | Jan | 21.345 |
| | 444101733) | (171) (171) (171) | れいいれんやたいし いや | (141) | (H4) (H4) (Ach) | 47HIUP34 | (NH) | (F)) (F24) | 4 ነዝ፤ ካቴ ነክ | (4K) (4K) | ~ | RéqUIREN | (WM) | (1471) (1471) (1474) | | HATER R | | | 15 DIV5 | | |
| YEAR 4 | FIELU HAILK KEJUIKEKENI UL | FUNIH FUNIH F.W.H. C F.W.H. C | æ | MUNTH E) CRDP | F 4215FALL - F.H.X. 5.K.U. | FIELD MATER REUNIRLPLAT OF PADDY (DRY) PIP | PUNIH ET CKCP 1 E RAINFALL { | F. X. K. | FIELD AATER REJUTREPLAT OF | PONTH FI CRUP 1 F RAINFALL (| F = F = K | FILLN WATER | FUNTH ET CHOP | | | TUTAL FLELD HATER RILUTHINENT | MGNTH | III HAND (MCM) | INFIGATED FROM DIVENSION MORKS | PON TH | SUPPLEMENT (ACM) Deficiency (Acm) |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | c | , a | • | 0 | 0 | 0 | 0 | O | • | 0 | 0 | -0 | 0 |

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| ວ | 0 | | 0 | 0 | C | | 0 | 0 | C | > (|) | 0 | 0 | 0 | | 0 | 0 | 0 | (|) | 0 | 0 | 0 | O | C |
|-------|-----------------|----------------|------------------------------------------------------------|---------------------|--------|-----------------|-----------------------------|------------------------------------------------------------------------------------------------------------|------------|--------------|------------------------|----------------|--------------|------------|-------------------|----------------------------|------------------|------------------------------------------------|----------|------------------|----------|----------------|-------------------------------------|--------|------------------------------------------|
| | | | | | | | | | | | | | | | | | - | | | | | lix 2 13 | | | |
| | | | 0,U | 0.0 | 0-0 | | 0ÉC. | | 0.0 | | 154.3 | _ | DEC | 40•2 | 42 - 1 4 - 824 | | 1)LC 46+2 | 4 • L 4 2 • L | + 20 + t | | DEC | 15.161 | | UEL | 0.0 |
| | | | NUV 1.1 | , o c , c , c | 0.0 | | NON | 000 000 | 2 | ADN . | 57.1 | 2-038 | ~ | 24.5 | • C) | | VIIV 24+3 | 23.4 | | | VON | 5+2*7 | | ۸UN | 0.0 2.245 |
| | | | 067 14.9 | 14°7 0•2 | u.006 | | 0CT | 3 4 8 9 9 4 8 9 9 7 8 9 1 8 9 1 | 210-0 | uc I 2 | | | מלב | 00 | 0.0 | | 151 0-0 | 000 000 000 | | | UCT | U.U78 | | 171 | U.U U.O78 |
| | | | 56P 96.0 | 95.4 1.2 | U-041 | | SEP 25 | 1.5 | 0.400 | SEP | | 0.0 | SEP | 202 | 0.0 | | 5EP 0.0 | 0 0 0 0 | 5 | | sep | 75c.U | | sep | 0+0 3.527 |
| | | | AU6 1+1-0 | 1,39.4 1.1 | U. UGU | | AUG | 1.141 25 | | AUG | | • • | AUG | | 0.0 | | 4UG 0.0 | | | | AUG | 0 . 79J | | , õua | 0.0 |
| | | | JUL 1+3-8 | 1.2.1 1.7 | U-U62 | | JUL | 171-8 | 1.0.0 | nut. | 200 | 0.0 | JUL | | 0.0 | | JUL 0.0 | 00 00 00 | | • | ากก | 0.132 | | JUL | U.U D.732 |
| | | 1 | 1-161 NDL | 18J.U 2.3 | v.V82 | | NUL | 202-7 | | NUL | | , , , | , JUN | | n-0-1 | 7 | 14N 0.0 | 0.0 0.0 0 | | | 765 | 678-0 | | NUL | 0. U U. 873 |
| | | | | 104.4 | 4 | | · ۲ | 116.1 1.4 | | <u> </u> | 000 | | ~ | | • | | · · · | 0.0 0.0 | • | | MAY | 0-498 | | 4A Y | 0-0 0-19H |
| | | | АРК 0.0 | 0 0 0 0 | 0.0 | ŧ | 478 1.00 | 0.0 | - | APK 71-4 | 25.9 | | APR 0.0 | | 0-0 | | 444 1.1 | 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | | APK | 0.423 | | APIL | 0.U 0.Y23 |
| | | d+d (1) | 44K U.U | | | Ĵ9+4 (: | 84K 0.0 | 0.0 | d+d [YAQ] | M.N. 1422 | 2.61 139.7 2.001 | 5 P+GC | - | | 081.6 | (DKY) P+GC | Мак 1-1-2 | 1.1.0 2.022 | | | Нан | 247-0. | | HAR | 0.U 10.142 |
| | | 4+4 (1)») YUUA | 5 Lb | | | PADUY14E51 P+6C | Е <u></u> ЕВ 0. 0 | 0.0 | ~ | Ftb 154-0 | 0.0 | GRGUNDNUT | FEB A L J | | 1-100 | ULANS (DH | 61.0 61.0 | 0.10 0.10 496.0 | | I | fred | 24.194 1 | , iKS | ⊬t b} | 0.0 20.194 |
| | | | 0.0 0.0 | ••• ••• | 0.0 | | 0°0 | 0.0 0.0 0.0 | GF | JAN 127-4 | 5.1 122.3 4.368 | | 14N 73.H | 4.6 | 066-1 | | 3.14 HI.5 | 10.9 10.9 8.815 | | AITH REJUIKENENT | , 14.8 | 21.113 | 104 NULS | NVI. | 0.0 21.113 |
| | | 1.JUIREMLNT UF | (14) | | | RF autkeriat DF | (мч) | (MM) (MM) (MCM) | KLUUREYENT | (WW) | (MM) (44) (HC4) | PEULIKEHENT DF | (MN) | (141) | (HCH) | RENUTREM | (ビス) | (MC M) (MC M) | | | | (HCH) Z | нэмга, ман | | (1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1- |
| | ۲ או אז. איז | Flelui mater | MUNUH 41 AUM 5 A A A A A A A A A A A A A A A A A A A | F.N.R. | | FILLD HATER | PONTH ET CHOP | | FILL WATER | F CRUP | | , er | | E RAINFALL | | FIELC WATER REGULAEMENT CF | HINTE LI LUCP | | | TUTAL FIELD | HINDM | UFMAND (| לאטא שאטא אטועראיזענט אטאלא אטאנענע | HUN TH | 50PPLEPENT |
| | ø | 0 | G |) | O | | 0 | 0 | 0 | 0 | 0 | | י ס | 0 | 0 | | 0 | Ō | 0 | C | ` | Ō | o | 0 | 0 |

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| | |) | 0 | C |) | 0 | 0 | | 0 | 0 | 0 | • | 2 | 0 | C | | 0 | 0 | 0 | | | | | | |
|--------|--------------------------------------------|--------------------|--------------------------------|-----------|--------------------------------------------|-----------------------|--------------|--------|-----------------------|------------------|---------------------------------|-----------------------|-----------------------|------|-------|-------------------|--------------------|------------------------------------------------|---|-------------------|-------|--------------------|--------------------------------|-------|------------------|
| | | | | > | | | | | | | | | | | | | | | 4 | | | <u>ix I</u> 132 | | - | |
| | | 06C J.J | 0.0 | 0.0 | | DEC 4.0 | 0.0 | 0-0 | | חבר 129-6 | 154.8 5.530 | | UEC 40.2 | | 4.809 | | UEC 46.2 | 3.7 42.5 4.869 | | | DEC | 15.268 | | 0°C | |
| | | ۷0۷ ۲۰۷ | 0-0 0-0 | U.U | | NUV 0.0 | 0.0 | 0-0 | | V0V | 59.3 | | NUV 24-3 | 23.1 | 0.139 | | NUV 24.3 | 23°1 1°2 0°139 | • | | אטא | 245-5 | | NON | 5 |
| | | 1041 14.9 | 14-7 0-2 | 0-005 | | UC1 18-6 | 14.4 U+2 | 0.072 | | 100 | 0 0 0 0 0 0 0 | | UCT 0-0 | 00 | 0.0 | | ULT U.0 | 0.00 | | | . 961 | 0.078 | | uCT | с с |
| | | 56₽ 90•6 | 95.4 1-2 | 0.041 | | 56P 120.0 | 124-5 | U.486 | | 56P 0.0 | | | 56P 020 | | 0-0 | | \$εμ υ.Ο | 0.0 | | | SEP | 0.527 | | SEP | |
| | | 141-U | 1.1 | 0 • 0 • 0 | | AUG 140-0 | 141.7 | 0- 733 | | 900 910 9 | 0 0 0 0 0 0 | | AUG 0-0 | | 0-0-0 | | 406 U-U | 0-0-0-0 | | | AUG | 0-793 | | AUG | 0 |
| | | JUL 143-8 | 1.2.1 | 0.462 | • | JUL 173-9 | 111-8 | 0.671 | | | 0-0 0-0 | | 105 . 101 | | 0.0 | | ער פייס | 3 | | | 101 | 0.732 | | יוער | |
| | | 1,101 | 1 4 4 4 2 - 3 | J. UJ2 | | NUL 2.402 | 7.565 7.5 | U. 141 | | | 0-0 0-0 0 | | | | 2 | | | 2000 000 | | | 100 | 9 0.473 | | NDr | с с |
| | | 447 105-7 | 101. 1.1.4 | 0-045 | | 417.5 117.5 | · · | 0-453 | | | | | MAY 8.8 | | 9 | | | 202 | | | нат | 6449 | | Y.M . | • |
| | 1 | ų | | | ں | 174 0-0 | | | æ | | 26-1 1-32 0.930 | ر. | 44K 0-0 | | 5 | GC | AP4 0_0 | â | | | AHA | 0-130 | | ыл | : |
| | (H4 (13M) | <u>г</u> аң U.U | | 0.0 | 4ET1 0+31 | 44K | | 0.0 | (מאלו ויוּף | - | 140-01 | GKQUNUTS P+ċ Ċ | MA.A 15-0 | | | 11EANS (URY) P+GC | HA4 19.2 | | | | HVH. | 148-01 | | МАК | : (|
| • | F JAUUY | | | 5 | - PAUUYI | 1.0 | | ; | | | 0-941 UD4-2 UD4-2 | | FEU 67.2 | | | | | .9 | | HENT | Η c d | 20-144 | 5 M H S | F F G | |
| | KeMENT U | 144 | 0.0 | 0.0 | REPENT U | 4VC 0.0 | 0.0 | 0.0 | KEUDIREMENT CF' PADUY | JAN 121-4 | 122.1 | אפטטוגראנאו טר | JAN 13-8 | | 1-940 | REQUIREMENT OF | 4 V V V 4 • 1 E | 4.2 71.4 8-845 | | AJER KEWJIREMENI | NVſ | 0(2.15 | IVEAS ION | NEL | 5 |
| YEAN 1 | לוגניט המופעונאנאנאנין ער ממוטע (שנד) אויי | | L AJINFALL (M') FoneR. 1md) | | FILLG AATER REJUIREPLAT NF PANNY{MET} #+3C | MINTH PL CRUP (44) | FALL H.K. | | FIELU HAILE REVUI | MUNIH EI CRCP | | רנון אסוגא אניטוו | MGNTH EI CROP (44) | | | דונני אזדנא אפטטו | | К 24184244 (34) Г.8.8. (43) Н.8.0. (953) | | 101AL F16LD 4AJER | HINDH | DEMAND (YCH) | 14-1Galed from Biversion Bouks | HINDA | CHOULTNENT (VCM) |

С

| 0 | 0 | • (| 0 | 0 | Ì | 0 | 0 | 0 | 0 | 0 | C |) | 0 | C |) | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | С |
|---------|----------------------|--------------|----------------|---------------|-----------------|----------------------|----------------------------------------|------------------------|--------------|-------------------------|----------------------------|-------------|-------------------------|-------|----------------------------|----------------|----------------------|--------|----|-------------------------------|----------|-------------------|--------------------------------|-------|--------------------------|
| | | | | | | | | | | | | | | | | | * | | AI | pen Pag | di ge | <u>x D</u> 133 | -4 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | • |
| | | | | | t | | | | | | | | | | | | | | | | | | | | |
| | | 0=0 0-0 | 000 | 0-0 | | | 0,0 0,0 0,0 0,0 0,0 0,0 | | DEC 159-6 | 155+2 | | DEC | 4 4 4 7 4 4 7 4 4 | 4 899 | | DEC 46-2 | J.4 42.8 | 4.899 | | | 960 | 15.340 | | DEC | 0°0 15.340 |
| | | 0.0 0.0 | 0.0 0.0 | 0.0 | | 0.0 VUV | 0°0 0°0 0°0 | | NUV 86.1 | 61.1 2.182 | | NON VON | 21.7 | 0.295 | | NUV 24-3 | 9-7 2-12 | 0.295 | | i | A D N | 2.773 | | ۸DV | 0.U 2.173 |
| | | UCT 14.9 | 14.7 | 0-006 | | UCT 18 - 6 | 18.4 U.2 U.12 | | 0.0 0.0 | 0 0 0 0 0 | | 0°1 | | 0.0 | | 0CT 0.0 | 0.0 | 0-0 | | 4 | ncı | 0.078 | | נור ג | U.U 0.U/B |
| | | SFР 96.6 | 95.4. 1.2 | 0-041 | | SEP 126.0 | 124-5 1.5 0.486 | | 56P 0.0 | 0.0 | | SEP S. S | | 0-0 | | SEP U.O | 20.0 | 0.0 | | 1 | SEP | U.527 | | SEP | 0°0 0.52 <i>1</i> |
| | | AUG 141.0 | 139.4 | 0-060 | | AUG 190.0 | 187.7 2.3 0.733 | | 0.0 0.0 | 0.0 0.0 | | AUG | | 0-0-0 | | AUG 0-0 | 0.0 | 0.0 | | | AUG | c 61 • 0 | | ۵Uu | 0.0 0.793 |
| | | JUL 143.8 | [+2-] [-24] | 0.062 | | JUL 1/3.9 | 171.8 2.1 0.471 | | . مر م. م | 0.0.0 | | JUL. | 200 | 0.0 | | JUL 0.10 | 00 | 0.0 | | | JUL | 0-732 | | JUL | U.U U.132 |
| | • | 1.161 | 140.d 2.3 | U. U82 | | 202.2 | 202-7 2-5 0-791 | | NUL 1.0 | 0 0 0 0 0 | | NUL | | 0-0-0 | | NUL 0.0 | 00.0 | 0.0 | | | NUL | L78.U | | NOr | 0.0 0.4/3 |
| | | MAY 105.7 | 104.4 1.3 | 0.045 | | MAY 117.5 | 110.1 1.4 0.453 | 1 | 744 U-U | 0-0-0 | | MAY | | 0.0 | | MAY May | 200 | 0*0 | | | MAY | 0.498 | | МАҮ | 0-0 U-498 |
| | | 4P4 0.0 | 0.0 | 0.0 | ļ | АРН U.U | , , , , , , , , , | | 474 21-9 | 24.2 | | АРК | | 0.0 | | APK D_D | 222 | 0•0 | | | АРН | 469-0 | | АРК | 0-0 256-0 |
| | 6f) P+P | HAK U.U | 7.0 00 | 0.0 | T1 P+6C | 44K U.J | 0.0 0.0 | 10871 P+P | 42. J | 140.1 5.005 | 15 P+ůC | MAR | | 3-817 | BEANS (DRY) P+GC | MAK | 1.5 | 2.051 | | | MAR | 10-473 | | MAR | 0.0 10.873 |
| | PAUUY (#EE) P+P | FI-B 10.0 | 0.0 | 0.0 | PAUDY[NET] P+GC | ЕЕн 0.0 | 0 0 0 0 0 | ~ | FL8 154.0 | 154.U 5.500 | GROUNDNUTS P+GC | F F B | | 7.100 | BEANS (I) | FEU ∧ĭ_0 | 0-19 | 456°9 | | Lv. | F E U | 20-194 | รุ่มห | H. B | 0.0 20.194 |
| | | 14N 0.C | 0.0 | 0-0 | PENT OF | 14N 0.0 | 0.0 0 0 | VENT CF | 127-1 | - 121.1 121.1 191 | HENT OF | NAL | 9 70 J | 8.013 | FMENT CF | JAN Sile | 1. L | 8,849 | | Recutken | NVG | 605-12 | ENSION M | NAL | 0°0 |
| | NATLR NLJUTKEMENT OF | (66) | (+>) | (HCH) | RLUUIREPENI OF | (64) | (47) (144) (146 M) | KCUUIRE | (n F | (H)+) | KEULIRE | | | (WOW) | keuulri | (мч) | | (HCH) | | U HATER I | | (MOM) | FRON CIV | | (MCM) (MCM) |
| YEAR, 2 | יונ | | | | FIELD MATER | PUNTH E1 CRUP | | FIELD WATER REGULARENT | FONTH | п халтар | FIELU MATER REULIREMENT UF | MONTH | E RAINFALL | | FIELU WATER REUUIRFMENT OF | HINDA HINDA | E HAINFALL F.H.R. | н.К.Q. | | TOTAL FIELD WATER RECUTREMENT | HINDH | DIMAND | Ikhicated from civension mukks | MCNTH | SUPPLEMENT SEFICIENCY |
| λί | - | | - | | | • | - | - | | | - | , | | | , | | | | | | | | | | |
| 0 | 0 | L | 0 | C |) | 0 | 0 | 0 | 0 | 0 | (| 5 | 0 | (| o | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 |

| REJUIREMENT LF | | PADUY (MET) P+P | | * | | | | | | | | |
|-------------------------------------------------|---------------------------|---------------------------------|----------------------------|-----------------------|-------------------------|-----------------------|-----------------------|---------------------|-------------|--------------------------|--------------------|--------------------|
| 144 0.0 | 00-0 200-0 1 | 0*0 ₩2¥ | AVR U.U U.U | MAY 1421 | 1.121 1.121 | JUL 145-8 142-1 | 4UG 141-U 142-4 | 56P 96.6 91.6 | LCT 14-9 | 200 200 200 200 | DEC 0.0 | |
| 0.0.0 | 0°0°. | 0*0 0*0 | 0.0 | 1.5 1.15 | 2.13 1.182 | 1.7 | 1.7 | 1.2 | 0.2 | 0 0 0 0 0 | 0-0 | |
| KENUIREPENT UF | PADUY{h1 | PABUY{WET} P+6C | | | | | | | | | 9 9 | - |
| 14V 0-0 | РЕм 0.0 | 44K 0-0 | 0*0 0*0 | 447 117-5 | 101 2.4462 | JUL 173.9 | AU6 190.0 | 5EP 126.0 | 0C1 14-6 | 0-0 0-0 | UEC 0.0 | |
| 0-0 0-0 0-0 | 0°0°0 0°0°0 | 0.0 0.0 | 0 0 0 0 0 0 | 116.1 1.4 0.453 | 207-11 207-1 | 1.11.8 1.2 1.7 | 187-741 | 1.5 | 10.2 | 0000 | | |
| FILLO WATER REGULAREPLAT OF | P ADUY (1 | d+d [YXU] | • | | | d | | | | | | |
| 5°277 (MU) NYF | FLU 154.0 | HAK 142.3 | анк 21-9 | MAY U.U | 0-0 10N | 30L U.O | AUG 0-0 | 58P 0-0 | 0-0 | VUN 7 - 78 | DEC 169.6 | |
| (MCH) 4.1 (MCH) 123.J (MCH) 4.405 | 0.0 15:-0 004-4 | 2.0 1.0.1 5.002 | 1-6 26-3 1430 | 0-0 0-0 | ດ.ດ ດີດ ດີດ ດີ | 00°0 00°0 00°0 | 0.00 | 0.0 | 000 | 24.2 | | |
| FIELD MATER REDUCREMENT DF | ดหมากมา | GRULNUNUTS P+GC | | | | | | |) • | | | |
| 1AU 73.8 | 1 LH 61.2 | МАК 35. U | APR 0.0 | 4 A Y 1 - D | NDC | ากเร | AUG | St.P St.P | ** | NUN | DEC | |
| • | 0.0 | 33-4 | 0.0 | 200 | 200 | 000 | 200 | | 000 | 202 | 3.3 | |
| KEQUIKEMERT CF | <i>r.r</i> uu Heans ti | /./UU J.124 HEARS TURY) P+RC | 0*0 | د [.] د | 0. 0 | 0.0 | 0-0 | 0.0 | | 0.431 | 4.920 | |
| IAN | | | 904 | 2 | | | | | | | | |
| | 0-10 | 19.2 | 0.0 | 0.0 | | | 0.0 • • • | 56P 0.0 | 0.0 | 24.3 | DEC 46+2 | |
| (HM) 77-9 (HCH) 8-923 | 0-14 944-4 | 18.U 2.U54 | 0 0 0 | | 0.0 7 | 0.0 | | | 000 | 20.5 3.8 | 3.3 42.9 420 | |
| | | | | | • | |) | | ; | | | |
| IUTAL FIELD MATER KCJUIKEMENI | E N I | | | | | | | | | | | |
| NY'N | 674 | 11 A H | Чрн | MAY | NUL | JUL | νUG | SEP | 001 | NON | DEC | |
| (XCP) 21.3a5 | 20-194 | 10.376 | 8E6.U | U.498 | 678-0 | 0.132 | U.745 | 0*527 | U.U/8 | 193. | 15.391 | <u>ix 1</u> 134 |
| F4UM DIVERSICA MCHKS | CKKS | | | | | | | | | | | |
| NAL | FLB | H¢₩ . | HdV | YAM | NUC | າດເ | AUG | Sep | UCT | V04 | DEC | |
| SUPPLEMENT ("C") U.O OLFICIENLY ("C") 21,365 | 0-0-2 | 0-0 10-010 | 0*0 0*0 | 0.0 | 0.0 | 0.0 | 0.0 | 0-0 | 5.0 | 0 . 0 | 0-0 | |

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| | | | | | | | | | | | | | | | | ¢ | 4 | Apper Pa | ndi ge | <u>ix I</u> 135 |)-4 | | |
| | | 010 | 0.0 | | 0°0 | 0.000 | | DEC 159-6 4-2 | 155+5 5+552 | | 0EC 46-2 | 3.5 | 4.923 | | DEC 40+2 | 3.2 43.0 4.923 | | | DEC | 5. 398 | | DEC | U.↓Ù 5.398 |
| | | 2020 | 0 0 0 0 | | A040 | 0.000 | | NUV 86.7 24.1 | 62.6 2.237 | | 70V | 20.4 | 0.449 | | NOV 24-3 | 20.4 3.5 0.449 | | | VDN | 1 661.6 | | NUN | 0. V 3. 135 1 |
| | 1 | 14.9 14.9 14.7 | 0.2 0.06 | | CC1 18-6 | 18.4 0.2 0.072 | | 0.0 0.0 | 0-0-0 | | 001 | 00 | n-0 | | 0.0 | 0,0 0,0 0,0 | | | dc1 | 0.078 | | מרג | U.U U.U78 |
| | | 56P 46.6 95.4 | 1.2 | | 56P 126.0 | 124.5 1.5 0.486 | | SEP 0.0 | 0-0 | | SEP 0.0 | | 0.0 | | 5EP U.O | 0.0 0.0 0.0 | | | SEP | 0.527 | | stP | 0-0 0-521 |
| | : | AUG 141.0 139.4 | 1.7 0.060 | | AUG 190.0 | 187.7 2.3 0.733 | | AUG 0.0 | 0.0 | | AUG | 200 | 0.0 | | AU6 0.0 | 0.0 0.0 | | | AUG | u. 193 | | AUL | 0.0 0.793 |
| | : | JUL 142.8 142.1 | 1./ U.U52 | | JUL 173.9 | 171.8 1.2 U.671 | | 30.0 10.0 | 0.0 | | JUL. 0.0 | 00,00 | 0-0 | | 10r 10r | 0 0 0 0 0 0 | | | ากก | 1.132 | | JUL | 0.4 0.732 |
| - | | 191.1 191.1 188.8 | 2.5 V.UB2 | | JUN 203.2 | 202.7 2.5 0.791 | | 2000 2007 3007 | 0°0 0°0 | | NUL | 200 | 0-0 | | 10N | 0-0-0 0-0-0 | | | JLN | 618.U | | MNr | 0-0 0-1 |
| | • | 105.7 105.7 | 1.3 240.0 | | | 110.1 2.1 0.453 | | 44Y 0.0 0.0 | 0-0-0 | | ~ ~ (| 200 | | | MAY 0.0 | 0 0 0 0 0 0 0 0 | | | MAY | U.498 | • | MAY | 0.V 0.478 |
| | | 0.0 | 0-0 0-0 | - 1 | 4PK | 0.0 0.0 0.0 | | АНК 27-9 1-6 | 26.3 | | APK 0.0 | 22 | 0-0 | | APR 0.0 | 0°0 0°0 0 | | | APK | 0.739 | | АЛИ | 0.0 |
| | п | 00 10 10 10 | 0-0-0 0-0 | 11 0+60 | MAR U.U | 0.0 0.0 0.0 | ዳሃ) ሥተ | 42.J 242.J 2-U | 010.4 | 15 P+66 | MAR 45.0 | 0.1 0.55 | 4-424 | BEANS LURY! P+GC | M4H 19.2 | 1.2 16-0 2-060 | | | MAK | 10-879 | | 404 | 0.0 |
| | PAUUT SHELL P+P | , 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0.0 | PADUYLAET1 P+GC | FE6 0.0 | 0 7. 0 7 0 0 7 0 0 7 0 0 7 0 | PADUY (URY) P+P | FEB 154_8 0_0 | 5-500 | 640UN0NUTS P+60 | FE8 67-2 | 0.01 | 1.700 | BEANS (L | FI 15 61.0 | 0°19 0°19 | | NI | FLU | 20.194 | 2,4,10 | 5 th | 4-0 20.194 |
| | | 200 200 200 | 0.0 0.0 | *FAT UF | 14N 0.0 | с. | EVENT CF | JAN 127.4 5.0 | | CHENT OF | 14N ° 14N ° | 1.0 | 8.040 | CMLNT CF | 3-18 91-5 | 3-6 77-9 8-926 | | REGULKEM | NAL | FLE*12 | 44.5 [UN m | | 0.0 21.375 |
| 111105 111105 | ACJULKC | (X X) | (K.7) (MC4) | I REJUIRENFAT | | (HC4) (HC4) | I REQUIREVENT | | (MM) (HC4) | "ATER REQUIREMENT OF | (44) | (1 1 1 | (MCM) | א ארקטועו | | (MM) (44) (HC4) | | U WATER . | | (MCM) | FROM DIV | • | (WOW) - |
| YEAL 10 Lienta Lated beduited ment de | | | F.K.R. 1.R.C. | FIELU MATER | UNTH ET CRUP | е кајлгацц Г.К.К. К.К.Q. | FJELD WATER | MONTH Et CROP E Kainfall | | FIELD "ATTR | HCNTH EF CROP | E HAINFALL | 1-K-C- | FILL" WATEN REQUIREMENT GF | | Е ХАІЛГАLL Г.Ж.К. М.К.Ц. | | IGIAL FIELD WATER REGULAENEN | HINDW | UNANU | ןאיןרפענאס אטאעער איזאר איזאעע ואיןרפענאס | HUNTH | SUPPLEMENT Deficiency |
| 0 | 0 | 0 | (| D | o | 0 | 0 | 0 | O | C |) | 0 | 0 |) | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 |

| D | 0 | 0 |) | 0 | (| 5 | C |) | 0 | | 0 | 0 | | 0 | c |) | 0 | C |) | 0 | 0 |) | 0 | 0 | | 0 | 0 | (| 3 | C |
|---|---------|--------------------------------------|------------|-----------------------|-----------------------|--------------|------------------|------------------|--------------|--------|----------------|------------------|------------|-------------------|-----------------------|-------|--------------|----------------|----------------|----------------|------------|---------------------------------------|----------|-------------------------------|-----------|--------------|----------|----------------------------------|-------|---------------|
| | | | | | | | | | | • | | | | | | | | | • | | | | <u>A</u> | ppe Pa | nd. ge | ix I 136 |)-4 5 | | | |
| | | | | | | | | | | , | | ٠ | | | | | | | | | | | | | | | | | | |
| | | | | | | | | _ | | | | | | 20 | | | ~ | <u>م</u> ۲۰ | | 2 | ~ <u>~</u> | ~ | | | | ŗ | | | | ņ |
| | | | DEC | | 0.0.0 | | 4 0 0 | 0.0 | 0.0 | 0.0 | | DEC 159.6 | 8.4 | 5.523 | | • | 40.2 | | | DEC 46. | 3.7 | 4+86 | | | DEC | 15-26. | | | DEC | 0.0 |
| | | | 202 202 | 2010 | 0°0 | | | 0-0 | 00.0 | 0.0 | | NOV 86. 7 | 27.5 | 59.2 2.113 | | NON | 24.3 | 0-137 | | NUV 24.3 | 23°1 | 0.137 | ٠ | | VON | 2.448 | | | 70V | U.U 2.338 |
| | | | UC T | 14.7 | 0.2 4.006 | | ļ | UC3 18.6 | 18-4 0-2 | 0-072 | | 0CT 0.0 | 0.0 | 0-0-0 | | 00.1 | 0 0 0 0 0 | 0.0 | | 0CT 0.0 | 00 | 0-0 | | | 001 | 0-078 | | | JCT | 0.U 0.078 |
| | | | | | · 1.2 0.041 | | | 56P 126.U | 124-5 1-5 | 0.486 | | SEP 0-U | 0.0 | 0.0 | | SEP | 20 20 | 0.0 | | 5EP 0.0 | 0.0 | 0.0 | | | SEP | 0.527 | | | SEP | 0-0 |
| | | | AUG | 141.0 | 1-7 0-060 | | : | AUG 190.0 | 187.1 2.3 | 0.733 | | AUG 0.0 | 0-0 | 0.0 | | AUG | 00.0 00.0 | 0-0-0 | • | AU4 0-0 | 0.0 | 0-0 | | | AUG | 667-0 | | | AUG | 0•0 0•735 |
| | | | JUL | 142.8 | 1.7 U.U62 | • | | , JUL 1/3.9 | 1-7 | 0.671 | | 10L 10L | 0-0 | 0.0 U.U | | JUL | 00-0 | 0-0-0 | , | 10F 1 | | 0-1 | | | JUL | 0.732 | | | JUL | 0.0 |
| | | | NUL | 141.1 148.8 | 2•3 0 - 082 | | 5 | 205.2 | 202.7 | 0.791 | | NUL NUL | 0.0 | 1 0°0. 1°0 | | NUL | 0.0 | 0.0 | | | | 2 | | | NUL | U.873 | | | NUL | 0-0 0-013 |
| | | | MAY | 104-4 | 1.5 U.U45 | | | MAY 117.5 | 116.1 1.4 | 0.453 | | NAY 0.0 | 0 | 0.0 | | MAY | 0.0 0 | 0 0 0 | | MAY | 200 | n•0 | • | | МАҮ | U.49B | | | 447 | 6.U 0.448 |
| | • | | APR | 0.0 | 0.0 0-0 | | , | APR U.U | 0.0 | 0*0 | | APR | 5-1 | 0.92 | | APR | 200 | 0-0 0-0 | , | APK APK | | | | | АРК | 0.430 | | | АРК | 0-0 010-0 |
| | | d+d (13 | HAK | · · · | 0.0 | 11 0.00 | | 9.U | 0.0 | 0-0 | 108Y) P+P | MAR | 2.5 | 140.3 | 15 P+GC | МАК | 0.45 | 5.5. 166.2 | 1084) P+G0 | MAK | 1 4 7 | 2-039 | | | нак | 10.834 | | | нан | 0-0 10-434 |
| | | PAUUY (W | F.C.B. | | 0.0 | 0 A CO VI HC | | ₽£8 0•0 | 011 | 0.0 | PAUUY 1D | 6C4 154 0 | 0.0 | 154.0 5.500 | GROUNDINS P+GC | F L H | 67.2 0.0 | 5.7.2 7.100 | ULANS (C | FL8 61 0 | 20.2 | 0.494 | | EN L | F£U | 20-144 | | UKKS | 834 | 0-0 20-196 |
| | | MENT OF | JAN | 0.0 | 0-0 | | אביקחואבעניאן חע | 147 U.U | 0.0 | U.U | KEUUTREFENT GF | 10N 201 | Q = 5 | 122.8 | KEQUIRGMENT OF | NAL | | 114.5 | EMENT OF | 14N 5 11 | 4 . 2 | 8-84-8 | | RLCUTREPI | NAL | 21.225 | | ILHSIGN M | NAL | 0.0 |
| | | WATER REQUIREMENT OF PAUUY (WET) PEP | | | | | | | | | | 10 | | . (MM) . (MCM) | | | (WW) | | CK KEUUTREMENT | L C | | | | TOTAL FIELD MATER RIGUIREPENT | , I | ULNAND INCYI | | I HH IGATED FRUM DIVLASION MUKKS | H | (1)11 IN |
| | YEAN II | Flëuu "Arf | HINDN | LI LRUP E RAINFALL | T.Z.K. Z.K.C. | | - 16 LU MAIER | PUNIH FI CRUP | E HAINFALL | 10-2-1 | FILLD WATER | HL VDX HL VDX | E RAINFALL | | FIELD MATER | MUNT | E KAINFALL | ***** **** | FIELU. אמזנא | 41NUM 41NUM | E HALNFAL | · · · · · · · · · · · · · · · · · · · | | TOTAL FIE | HUNDH | ULMAN | | LAN IGATEC | HUNTH | INDA TIDATS |
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| | | | | | | | | | | | | | | | | Ar | Page | lix = 13 | <u>D-4</u> 7 | | | |
| | | 0+0 0-0 | 0.0 0.0 | | DEC 0+0 | 0.0 | | DEC 159.6 4.4 | 155.2 | | DEC 46.2 3.4 | 42.8 • 903 | * | 0EC 46-2 | 3.4 42.8 .903 | | L | uec 15.350 | | | DEC | 0-0 15-350 |
| | | 20 V 2 • 0 0 • 0 | a . 0 . 0 | | 0*0 0*0 | 0000 | | NDV 86.7 25.3 | | | NOV 24-3 21-5 | • | | ~ | 21.5 2.8 0.323 4 | | | VUV 2.838 15 | | | NUV | 0.U 0 2.8J8 15 |
| | ! | 0CT 14.9 14.7 | 0.2 U.006 | | 0CT 14.6 | 18.4 0.2 0.072 | | 0,0 0,0 | 0-0 | • | 011 0.0 1.0 | 0.0 | | 001 | 0-0-0 | | | ULI 0.078 | | | 00.7 | 0.0 0.078 |
| | : | SEP 96.e 95.4 | 140-0 | | 5£P 126.0 | 124.5 1.5 0.486 | | 5EP 0°0 U•0 | 0-0 | | SEP 0.0 0.0 | 0.0 | | 56P 0.0 | 200 200 0 | | 1 | 9527 U+527 | | | SEP | 0-0 0-527 |
| | | AUG 141-0 134-4 | 1-7 0-060 | | AUG 190-U | 18/.7 2.3 0.733 | | 0-0 0-0 | . . 2 | | AUG 0-0 0-0 | | | AUG 0-0 | 00 00 00 00 | | | 406 0,793 | | | ងបច់ | 0-0 0-193 |
| | | JUL 243.8 242.1 | 0 | | JUL 173-9 | L71-8 L-2 1-2 | | 30L 0.0 | Ð | | 101 0-0 101 | 5 | | | 0 0 0 0 0 0 | | : | JUL 0.732 | | | JUL | 0.0 0.132 |
| | | 1-141 1-141 | 2.3 U.UBZ | | NUL 2+402 | 2.22-7 2.55 0.791 | | 0-0 NUL | 1 3 | | NUL. 1.0 | | | | 0 0 0 0 0 0 0 | | | NUL 878.0 | | | NUL | 0.0 |
| | | RAY 105.7 | 1 I I I I I I I I I I I I I I I I I I I | ı I | MAY 117.5 | 11011 - 1 4 - 1 6 - 4 - 5 | | 747 747 747 | , 3 (| | MAY 0.0 | 0 | , 1 | | ວ ລຸດ ວ ດ ດ ດ | | | MAT 0.498 | | | μΛΥ | 0.0 |
| | | AFK 0.0 | | J | A | 0-0-0 0-0-0 | ġ | | 1 - 7 | U, | APK 0.0 | 2 | 20 | APK 0.0 | | | i | 7 0.416 | | | АРК | U-0 1 U-936 |
| | PAUUY (HEI) 4+0 | MAK 0.J | 0 | PADUY(WET) P+GC | Σ | 0.0.0 | (DKY) P+P | | - vi 1 | GROUNDNUTS P+6C | MAK 35.0 | ግ <u>ተ</u> | 108Y1 P+GC | H4K 19.4 | N, | | | AAK 4 10-377 | | | MAN | 4 10-8/7 |
| | | | 5 | | Ŧ | 0.0.0 | CF PADUY | | <u>на</u> , | CF GROUND | . FFB 8 67.2 9.0 | ~~ | CF BEANS | 5 61.0 | 2 | | FHENT | 0 20-194 | | NUKS | l Fus | 0 20-174 |
| | RLMENT C | 7.5 0.0 7 7 | 0.0 | HLUUIKEFENT GF | 141 1.0 | 0°0 0°0 0°0 | KÉJUTKEMENT (| 127.4 127.4 127.5 | 123.2 | REJUIREMENT (| . NAU 3.67 1.1 | 010-9 | KEQUIREMENT I | JAN HI | 3.9 7.17 8.504 | | 2 H X | 144 21-320 | | JIVERSICN | NVN | 0.0 |
| | FIELO ALER RUJUIRLMENT OF | 114 117 (411) 111 (411) | 44 (M4) | | | ALL (MY) .R. (MX) .Q. (4C4) | | | -R. (4M) | HATER REAL | NTH ROP (XY) All (MM) | | | PUNTH - CRUP (4M) | [NFALL (MM) F.H.R. (MM) H.H.Q. (MCM) | | tuřat FIELD MATER | MUNIH Demand (MGM) | | INHIGATED FRUM DIVERSIGN MORKS | MONTH | HENT (MCM) Ency (MCM) |
| YEA4 12 | 1 1 E L O "4 | MUNTH ET CKUP F MATRFALL | Π.Σ.Χ. Γ.Σ.Ε. | PICLD WAIER | | Е КАІЛГАLL Г.н.я. М.н.ц. | FIELD AATER | HONIH El Crop E rainfall | | FIELD ma | E F CROP F HAINFALL | | FLELO HATER | MUNTH ET CRUP | Е <i>Но</i> гласт F.H.4; N.H.Q. | | tuřat F | NG DEW DEW | | INH IGAT | 0 M | SUPPLEMENT SEFILIENCY |
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| Ytåd 13 | FILLO MATER Bunth Et Crop (| E KAINFALI + N.K. H.R.U. | FIELD HATER | MUNIH EI CRUP E ADINFALL F-W-R. | н"К. ч. Ficlg Aater | MONTH ET LRUP E rotnenij | # } } L | FIELD MATER | PONTH ET CRUP E RAINFALL | | FIELD WATE 4 | | E KAINFALL F.W.K. H.R.C. | - | TOTÅL FIELU HATER Munth | DEMAND | ANACM NIVERSATED FRUM DIVERSIUN NORSES | HINQH | SUPPLEMENT Supplesent |
| | ~ ~ | | | | ~ ~ | (124) (124) | | | (MW) | | REQUIRCHENT | | (MA) (MA) (MCA) | | .U HATER | [HCH] | FHUM DIV | | 1 (ML4) 7 (464) |
| | књаШКЕМЦИГ ОР Јац 241 ода | 00000 0000 0 | REQUIREMENT OF | N 0 0 0 0 N 0 0 N 0 N 0 N 0 | HCM) 0.0 Requirement of | 127. 127. | 123.1 | KLUUIRCMENT OF | 13.8 13.8 | 8.013 | REMENT OF | 01.5 UL.J | J.Y. 7.75 8.498 | | REJULKEMENT Jan | 21.308 | M NDISHBA | NEL | 0.0 21-308 |
| | | 0.0.0 | | FE6 0-0 0-0 | υ.υ PADUY | FE8 154.0 | 154.0 | | Ftu 67-2 | 61.2 | BEANS | FEU 61.0 | 0-13 0-13 494-3 | | ENT Feb | 20.144 | OKKS | 644 | 0-0 20-194 |
| | ΡΔΙΝΊΥ (WET) 2+P FLU MAK 0.0 | 0.0.0 | PAUDY[WET] P+GC | ₩×₩ 0.00 0.00 0.00 | 0.U (OKY) P+P | MAK 142.j | 140.1 | GROUNDNUTS P+GC | МАК 35.0 | 19.5 19.5 19.4 | 10KY) P+6C | лан 19-2 | 6.1 9.11 2.05 | | MAR | 10-8/2 | | нан | 0-0 10-872 |
| | 4 | | • | AP# 0.0 0.0 | : | APH 21.9 | 20.2 | | APR. | | | 4 | 0 0 0 0 0 0 | | На р | d£9.U | | A P R | U.J U.Y35 |
| | MAY | 1045 | • | MAY 2-11 116-1 | 0.453 | 847 1.0 1.0 | 0.0 | | | | | MAY U.O | 0.0 0.0 0.0 | | YAH | 0.498 | | MÅY | 0.U 0.498 |
| | | 280°0 | 1 | JUN 202+7 202+7 | 167.0 | Nnr Nnr | 0.0 | | 0-1 NAL | |) 9 1 | 0*0 | 0.0 | • | NEU | 0.473 | | NOP | 0.0 0.473 |
| | ייר ייר | 142-1 1-241 1-241 | - | JUL 1/3.9 1/1.8 | 0.671 | 0.0 JUL | 000 000 000 | | 0-0 70r | | | JUL 0.0 | 200 | | | 0.732 | | JUL | 0.0 0.732 |
| | AUG AUG | 1.4.4 1.7 | 1 | AUG 190. u 187. j | 0.733 | AUG 0.0 | 0.0 0 0 0 | | ۵-0 ۵-0 | | • | AUG 0.0 | 0.00 | 1 | AUC | £67.0 | | AUG | 0.0 0.733 |
| | SEP SEP | 95.4 1.2 0.041 | 1 | SEP 126+0 124+5 | 1.0 | SEP 0.0 | 0°0°0 | | SEP U.O | | | SEP 0-0 | 0000 | | 250 | 0.527 | | SEP | 0.0 |
| | üCT | 14.7 U.2 0.006 | | 1001 18-6 19-4 | 0.072 | 010 010 | 0.0 | | 0.0 | |) • | 0CT 0_0 | 0.0 | 1 | L (0) , | 0-078 | | uct | 0.0 0.078 |
| | A ON | 00000 | 1 | >>> 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0.0 | NDV B6.7 | 25.6 61.1 2.181 | | NOV 24+3 | 21.7 2.6 0 303 | | VON | 21.7 | | NUN | 2+767 | | ΛOV | 0.0 2-767 |
| | DEC | 0000 | | 0+C 0+0 | 0.0 | 06C 159.6 | 4-5 155-2 5.542 | | UEC 46•2 | 3•4 42•7 4 800 | | DEC 44-3 | 4 5 4 4 4 5 4 4 4 5 4 4 7 4 5 4 7 4 7 4 5 4 7 4 7 4 5 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 | | | 000 15+339 | - | DEC | 0.0 15.339 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Aj | ppend Page | lix I 2 138 | <u>)-4</u> 3 | | |

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| 0 | 0 | 0 0 | (| 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|----------|--------------------------------------------|-------------------------|-----------------------------------------|-----------------------------|-------------------|--------------------------------|----------------------------|-------------------------------------------|-----------------|---------------------------|-------------------|--------------------------|----------------------------|------------------|--------------------------------|--------------|--------------------------------------------|--------------|--------------------------------|---------|--------------------------|
| | | | | ţ | | | 1 | | , | | 1 | | | | | . <u>A</u> j | ppend: Page | ix D 139 | -4 | | 1 |
| | | | | | | | | | | | | | | | I | | | | | | ו : 1 |
| | | | | | | | | | 1 | | | | | | | | | | | | |
| ÷ | | 0.0 0.0 | 0"0 | | 0+C 0.0 | 0.0 | | DEC 159.6 4 4 | 155.2 | | DEC 46=2 | 4 5 4 4 2 4 8 7 7 | cn4 • • | DEC | 3.4 42.8 4.904 | | DEC | 15-351 | | DEC | 0-0 15-351 |
| | | 010 2020 | 0-0 | | 0-0 | 0-0 | | NDV 86.7 25.3 | 61.4 2.193 | | NDV 24+3 | 21°5 2.8 | C7C • N | NON NON | 24.5 | | NON | 2-844 | | VUV | 0-0 2-844 |
| | | uc f 14-9 14-7 | 0.2 0.006 | | 0CT 18-6 | 14-4 1-2 0-072 | | 0-0 0-0 | 0 0 0 | | 0.T. 0.•0 | 000 | | 0CT 0.0 | 0-0-0 | | 001 | 0.078 | | UCT | 0. J 0. 078 |
| | | SEP 96.6 95.4 | 1-2 0-041 | | SEP 126.0 | 124.5 2.45 0.486 | | 5 0.0 2 | 0.0.0 | | 5EP 0*0 | 0.0 0 0 0 | | SEP | 0.0 | | SEP | 0.527 | | SEP | 0.0 0.527 |
| | | 141-0 141-0 139-4 | 1.7 0-040 | | AUG 190.0 | 187.7 2.3 0.733 | , | 970 970 970 | 0.0 0.0 0 | | 0-0 0.4 | 0 3 0 | 2 2 2 | 0-0 V 0 | 0.0 | | AUG | 61-0 | | AUG | 0.793 0.793 |
| | | | 1.7 U.U&2 | | JUL 173-9 | 171-8 2-1 0-671 | r r | 10L 0.0 | | | 10r 0-0 | 00 0 0 0 | 0.0 | oro nr | 00000 | | זער | 561.0 | | JUL | 0.U 0.132 |
| | | JUN 191-1 184-8 | 2-3 U-082 | • | JUN 205.2 | 202-7 2-5 3-791 | 1 - - - | NUL . | 0.0 | , | NUL . | 0 0 0 0 0 | 2 | NUL | 00000 | | NDL | 0.473 | | 8 UV | 0.U U.873 |
| | | HAY 105-1 104-4 | 1.J U.V45 | | 447 417.5 | 116°1 1•4 1•4 | , , , , | 84Y 0.0 | 0.0.0 | • | .0.0 | 00 00 00 00 | | MAY | 0.000 | | нат | 9.498 | | МАҮ | 0-U 0-43 |
| • | | 0.0 0.0 | 0 0 1 7 | ſ | APR U.O | 0•0 0•0 | | 444 21-9 | 26.2 | | APR | 000 | 5 | АРК ОСО | 0.0.0 | | АРК | 0.736 | | АРК | 0. U 0. 936 |
| | ET) 2+P | 000 000 100 | 0.0 4.0 | | NAR U.O | 0.0 0.0 | 4+4 (YA | MAK 142.J | 140.2 | 115 P+GC | MAH 35+0 | /•1 L•L£ | HEANS (DRY) P+GC | MAK | 1.1 17.4 2.052 | | MAK | 10.473 | | ААК | 0.0 10.874 |
| | PAUDY (N | 818 0°0 | 0.0 U.U | PADUY1%ET) P+GC | 668 U.U | 0.0 | PADDY [DRY] P+P | FEB 154.0 0.0 | 154.0 | GRUUNDNUTS P+GC | FEB 61+2 | 0.0 | BEANS (L | F 1 8 6 1 - 0 | 0-0 61-0 6444 | | ENT Feb | 20.194 | GKK5 | 448 | 0.0 . 20-194 |
| | HENT UF | 14N 0.0 | 0.0 G.d | мент ор | 145 0.0 | 0.0 | | 141 | 2-121 | HFUL GF | + ح د | 1.1 1.1 1.1 | EMENT DF | | 8-5 1-1 2-00-8 | | KEUUTREM JAN | 126.12 | EKSTON W | IAN | 0.0 156.15 |
| | keuul RE | (44) | (MCH) | KF JUTRE | (HH) | (MM) (MM) (MCM) | L ALUUTR | (x W) | (MM) (MCM) | REJULA | (WN) | (MN) | K REJUIR | (MM) | | | U MATER | UEMAND (MCA) | FROM DIV | | (HCH) (HCH) |
| 71 AK 19 | €IFLU AAIER KEGUIREMENT UF PAUUY (WET) P+P | | - X - X - X - X - X - X - X - X - X - X | FIELD HATCH HE GUIREMENT OF | HINLY, FI CRUP | E KAINFALL F.1-K. H.K.D. | FIELD WATER RENUTREPENT OF | HUNIH ET CROP (MY) E AAIAEALL, (MM) | 4.8.0 | FIELU MATER REGURENFUL CF | PCNTH, EI CROP | Е КА]ЛРАЦЦ Г.М.К. | FIELD WATER REJUIREMENT OF | HINOA HINOA | E RAINFALL F-H-R- H-R-Q- | | FUTAL FIELD MATER REGUTRIMENT Münth Jan | UEMAND | INATGATED FROM DIVENSIGN WORKS | MGNTH | SUPPLEMENT DEFILIENCY |
| 11 | ц. | تد | | u. | | | - | - | | - | r 1 | | i | | | | | | | | |
| 0 | 0 | G | | 0 | 0 | 0 | 0 | 0 | 0 | C | • | 0 | 0 | Q | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| ō | 0 | Ċ |) | 0 | C |) | 0 | C |) | 0 | 0 | | 0 | C | • | 0 | ć |) | °O | Ċ | Ś | 0 | C | > | 0 | 0 | | Ó | 0 |
|---|---------|---------------------------------|--------------|------------------------------------------|---------|----------------|-------------------|-------|-------|-----------------|---------------|--------------|--------------|-----------------|----------------|------|------------|-------------------|------------------|-------|---------|----------|-------------------------------|-----------|-------------------|-----|--------------------------------|-------|--------------------------|
| | | | | | | | | | | | | | | | | | | | | | | <u>A</u> | per Pa | ndi ge | <u>x D</u> 140 |)-4 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | ı | | | , i | | |
| | | | | | | | | | | | | | • | | • | | <u>م</u> ب | | | | | | | | 5 | | | | 6 |
| | | | 0+C 0+0 | 00-0 | 0*0 | | 0-0 0-0 | | 0.0 | | 06C 159+6 | 4.0 155.6 | 5.551 | | 0 E C 4 6 L | 11. | 4.93 | | | 1-M (| 4 | | | DEC | 15.429 | | | DEC | 0.0 15.429 |
| | | | 0-0 0 | 20.0 | 0-0 | | NON 0.0 | | 0-0 | | NUV 86.7 | 23.2 | 2.266 | | NON 242 | 6 | 0.529 | | VOV VDV | 19.7 | 0.529 | ٠ | | NUV | 3.25 . Ł | | | ADN | 0•U 3• 325 |
| | | | 0CT 14-9 | 14*7 0•2 | 0.006 | | 0,CT 1 H _ A | 18.4 | 0.072 | | 001 | 0.0 | 0-0 | | 00T 0.0 | 0 | 0-0 | | | 2.0 | 0.0 | | | 00.1 | U.U78 | | | 001 | 0-U 0-U78 |
| | | • | 564 96.6 | 95.4 1.2 | 0.041 | | 5 EP 1 2 6 - 0 | 124-5 | 0.486 | | 5EP 0.0 | 0.0 | 0.0 | | sçP 0-0 | 00 | 0-0 | | SEP 0.0 | | 0.0 | | | SEP | 0.527 | | | SEP | 0.U 0.527 |
| | | | AUG 141-U | 4-661 | U• 00 U | | AUG 140-0 | 187.7 | 0.733 | | AUG 0.0 | 0.0 | 0 • 0 | | AUG | | 0.0 | | AUG | 200 | | | | AUG | 6.793 | | | AUG | 0-0 0-193 |
| | | | JUL 143-8 | 142.1 | 0-062 | | יזיי זחר | 1/1.8 | 0.671 | | 10L 0+0 | 00 • 0 | 0-0 | | יירט יור | 200 | 0.0 | | JUL JUL | 200 | n•0•n | | | JUL | U - 732. | | | ういし | U.U 0_732 |
| | | | 1.161 NUL | 8-891 | 0.082. | ι | NUL | 202-7 | 1.191 | - | 0-0 7 | 0.0 | 0.0 | | NUL | | 0-0-0 | | NUL | 200 | | | | NNF | 0.873 | | | יעא | 0.0 0.873 |
| | | | M1Y 101.7 | 104-4 | 0-045 | | 487 | 1.6.1 | 0.453 | | 44Y 0.0 | 2°0 | 1U | | HAY D_O | 5 | 0-0 | | MAY 0.0. | 201 | 0°0 | | , | 'MAY | 0.498 | | ; | MAY | U.U U.498 |
| | | | АРК 0.0 | 200 | n•n | | APR APR | | 0.U | | APK 27.9 | 26.3 | 0-941 | | APK | 5 | 0-0 | | АРК (1-1) | | 0-0-0- | | | . AVA . | u•941 | | | АРК | 0.0'. U.941 |
| | | d+d [1] | ИАН. U.J | 200 | p•0 | 11 P+6¢ | HAR U | | 0-0-0 | d+4 (X) | MAR 142. 3 | 140.3 | 5-012 | 15 P+GC | MAK 45-0 | | 418.5 | 108Y) P+GC | NAK 14_2 | 7.1 | 2-005 | | | MAR | 10-913 | | 1 | млн | 0.0 |
| | | AD0Y (46 | . 874 874 | 5.0 | u.u | PADUY (wE 1 | FEN 1. 11 | | 0-0 | PAUDY (DRY) P+P | F&N 154.0 | 0.01 | 004-4 | GROUNDNUTS P+GC | FEU 67.2 | 5 | 1.700 | HEANS (DI | РЕН А I - D | 0.0 | 6.994 . | | NT | FEB . | 20.194 | | KKS _ | + t t | 0°.J 20-174 |
| | | 38.JUIRLAE94 OF PAUOY (MET) P+P | 10 N | 0°1 | 0.0 | | JAN VAL | | 0.0 | 0F | JAN 127.4 | 9-8 2-251 | 4.411 | | NAN ALFA | 5 | 840-8 | RF-UUIREMENT OF I | NAU VAN | | 0,9,0 | | ENUREME | Nic | 21.406 | • | 0M MUICH3 | NVF | 0-9 21-436 |
| | | 3ይ ታህ በዩር | (1,1,1) | (M. | (MCH) | RHJUTKEMENT OF | 1 1111 | | (W)W) | REQUIREPENT | (HH) | | (HCH) | KEQUIREMENT OF | (MM) | (14) | (MOM) | | (MM) | (++) | (HCH) | | WATER R | ن ۱ | (NUM) | | RUN CIVE | | (HLA) (HLA) |
| | YEAH 15 | Flets ATER | | | | FILLD MATER | HUNTH FINDA | | | FIFLI HATER | H CHUP | | | FIELD WATER | HINDA - | | | FIELU WATER | HONTH EI CROP | | | | TUTAL FIELO WATER REGULKEMENT | MUNDW | UPMAND (MCM) | | INALGATED FROM CIVERSIUM WURKS | HUNTH | SUPPLEMENT CLFICIENCY |
| Ø | 0 | 6 | • | 6 | C | • | Ó | c | Ĵ | 0 | 0 | + | 0 | C | , | 0 | C | ว | 0 | · (| 5 | 0 | C |) | 0 | o | > | 0 | 0 |

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| Unit: Days) | Dec. Total | | | 29 223 | 30 24J | 30 250 | | 30 268 | | | 30 269 | | | | 30 24th | 0 249 | | | | | 0 246 |
|-------------|------------|---------|---------------|-------------|--------|--------|------------|--------|-------|-----------|-----------|---------|---------|----------|---------|-------|---------|-----------|-------|----------|---------|
| (Un | Nov. De | | | | 27 | | | 27 3 | | | | | | | 29 3 | 28 30 | 26 30 | 28 3N | 29 30 | 25 30 | 27 30 |
| | Oct. | 17 | 19 | 15 | 18 | 19 | 22 | 21 | 18 | 21 | 21 | 18 | 19 | 22 | 18 | 21 | 20 | Τ2 | 22 | 20 | 19 |
| | Sep. | 9 | 12 | 7 | ΤT | 12 | 18 | 16 | ΤŢ | 13 | 14 | ΓT | 12 | 15 | 13 | ΤT | 11 | 12 | 18 | 12 | 12 |
| | Aug. | ო | .1 | 4 | S | б | 15 | 13 | 8 | ი | 41 | Ð | œ | 12 | 7 | 7 | 9 | 7 | 12 | Ħ | 8 |
| | .Iul | ო | ഗ | ≠ | 7 | 11 | 13 | TT | 7 | 7 | 11 | 4 | ნ | II | S | 7 | 9 | ო | 80 | ო | 2 |
| | Jun. | 4 | ഹ | 4 | 89 | 10 | 14 | 11 | 80 | 8 | 13 | ഹ | σ | TO | 9 | ٢ | 7 | ㅋ | 0T | 7 | 8 |
| | May | 14 1 | 17 | 18 | 6T | 17 | 22 | 22 | 19 | 21 | 21 | 19 | 20 | 6T | 20 | 22 | 19 | 18 | 18 | 17 | 19 |
| | Apr. | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 27 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 25 | 29 | 27 | 28 |
| | Mar. | 30 | 30 | 30 | 30 | 30 | 31 | 30 | 30 | 30 | IE | 30 | 30 | 30 | 30 | 30 | 30 | ЗŢ | 31 | 31 | 30 |
| | Feb. | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| | Jan. | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | ЗŢ | 30 | 30 |
| | Station | Hmawbi | Taikkyi | Tharrawaddy | Minhla | Okpo | Gyobingauk | Zigon | Prome | Paukkaung | Shwedaung | Henzada | Kyangin | Myanaung | Ingabu | Zalun | Danuybu | Lemyethna | Yegyi | Kyonpyaw | Average |

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ANNUAL MEAN NON-RAINFALL DAYS

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APPENDIX D-5 RAINFALL DAYS

| | | | | | | | | | | | ~ | | uays J |
|--------------|------|------|------|------|-----|------------|------|------|---------|------|------|------|--------|
| Ja | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Total |
| ю | 0 | 27 | 30 | 29 | 15 | ۵ | ŝ | ស | 80 | 18 | 27 | 29 | 229 |
| Ċ | 30 | 28 | 30 | 28 | 19 | G | 8 | Ω | 12 | 19 | 27 | 30 | 242 |
| e | 0 | 28 | 30 | 29 | 20 | 9 | വ | 7 | IO | 17 | 26 | 30 | 238 |
| c | 30 | 28 | 30 | 28 | 20 | 8 | œ | വ | 11 | 19 | 27 | 30 | 244 |
| e | 30 | 28 | 30 | 29 | 20 | 13 | 13 | 11 | 1,4 | 20 | 26 | 30 | 264 |
| Gyobingauk 3 | 30 | 28 | 31 | 29 | 22 | 14 | 14 | 15 | 18 | 22 | 28 | 30 | 28T |
| | 30 | 28 | 30 | 29 | 22 | 11 | 11 | 13 | 16 | 21 | 27 | 30 | 268 |
| 31 | õ | 28 | 30 | 28 | 20 | 11 | ი | 10 | 13 | 20 | 27 | 30 | 256 |
| Ю | 30 | 28 | 30 | 29 | 22 | 10 | σ | 11 | 15 1 | 22 | 27 | 30 | 263 |
| 30 | 0 | 28 | ЗI | 28 | 21 | 13 | 12 | 14 | 14 | 21 | 28 | 30 | 270 |
| °, | õ | 28 | 30 | 29 | 19 | ഗ | 9 | 9 | 11 | 19 | 27 | 30 | 241 |
| ю | õ | 28 | 30 | 28 | 20 | 10 | 10 | 6 | 13 | 20 | 28 | 30 | 256 |
| ю | õ | 28 | 30 | 28 | 20 | 10 | 12 | 13 | 16 | 23 | 28 | 30 | 268 |
| e | õ | 28 | 30 | 28 | 20 | 7 | 9 | თ | 7# | 19 | 29 | 30 | 250 |
| С | õ | 28 | 30 | 28 | 22 | 8 | 7 | 2 | 12 | 22 | 28 | 30 | 252 |
| c | ő | 28 | 30 | 28 | 6T | 8 | 7 | 7 | 12 | 20 | . 27 | 30 | 246 |
| n | Ő | 28 | 31. | 25 | 18 | 4 | თ- | 80 | 12 | 16 | 28 | 30 | 233 |
| n | 31 | 28 | 31 | 29 | 19 | 10 | თ | 12 | 20 | 23 | 29 | 30 | 271 |
| e | 30 | 28 | 31 | 27 | 19 | ω | 4 | S | Τđ | 22 | 27 | 30 | 245 |
| ω) | 30 | 28 | 30 | 28 | 20 | ٥ | α | 6 | 13 | 50 | 27 | 30 | 250 |

ANNUAL MEAN NON-RAINFALL DAYS (Less than 1.0 mm)

5 - 2 Appendix D-5 Page-2

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| Days) | Total | 260 | 262 | 268 | 272 | 295 | 299 | 286 | 296 | 299 | 291 | 268 | 287 | 292 | 280 | 270 | 270 | 259 | 284 | 266 | 280 |
|---------|---------|--------|---------|-------------|--------|------|------------|-------|-------|-----------|-----------|---------|---------|----------|--------|-------|---------|-----------|-------|----------|---------|
| (Unit: | Dec. | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 31 | 30 | 30 | 30 | 30 | 31 | 30 | 30 | 31 | 30 | 31 | 30 |
| J | Nov. | 28 | 28 | 28 | 28 | 27 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 29 | 29 | 28 | 28 | 29 | 29 | 27 | 28 |
| | Oct. | 22 | 21 | 21 | 22 | 24 | 24 | 23 | 24 | 26 | 23 | 22 | 23 | 24 | 24 | 24 | 23 | 20 | 25 | 23 | 23 |
| 1 | Sep. | 14 | 15 | 7Q | 17 | 19 | 20 | 19 | 19 | 20 | 17 | 17 | 18 | 19 | 18 | 15 | 16 | 18 | 21 | 17 | 18 |
| | Aug. | 10 | თ | 12 | ГI | 16 | 19 | 17 | 19 | 19 | 18 | 11 | 16 | 18 | 15 | 11 | 11 | 10 | 14 | 8 | 퀴 |
| (uu | Jul. | 10 | TT | 10 | 11 | 19 | 1 8 | 15 | 17 | 17 | 16 | 10 | 16 | 17 | 10 | 11 | 11 | 7 | 11 | ω | 원 |
| 5.0 | Jun. | 10 | თ | TT | 14 | 19 | 1 7 | 14 | 18 | 17 | 17 | 11 | 15 | 15 | 12 | 11 | 12 | თ | 14 | 12 | 치 |
| ss than | May | 19 | 22 | 23 | 22 | 23 | 24 | 23 | 24 | 24 | 24 | 22 | 24 | 23 | 23 | 23 | 22 | 20 | 21 | 22 | 23 |
| (Less | Apr. | 29 | 29 | 29 | 29 | 30 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 26 | 29 | 28 | 29 |
| | Mar. | 30 | 30 | 30 | 30 | 30 | ЗI | 30 | 30 | 30 | 31 | 30 | 30 | 30 | 31 | 30 | 30 | Зl | 31 | 31 | 30 |
| | Feb. | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| | Jan. | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 31 | 31 | 30 |
| | Station | Hmawbî | Taikkyi | Tharrawaddy | Minhla | Окро | Gyobingauk | Zigon | Prome | Paukkaung | Shwedaung | Henzada | Kayngin | Myanaung | Ingabu | Zalun | Danubyu | Lemyethna | Yegyi | Kyonpyaw | Average |

ANNUAL MEAN NON-RAINFALL DAYS

| | | | | (Le | ss tha | (Less than 10 mm) | (E | | 1 | | C | (Unit: | Days) |
|-------------|------|------|------|------|--------|-------------------|------------|------------|------|------|------|--------|-------|
| Station | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | 0ct. | Nov. | Dec. | Total |
| Hmawbi | 30 | 28 | 30 | 29 | 22 | 15 | Ъц | 1 4 | 19 | 25 | 29 | 30 | 285 |
| Taikkyi | ΤE | 28 | 30 | 29 | 24 | 1t T | цЧ | 13 | 18 | 24 | 28 | 30 | 283 |
| Tharrawaddy | 30 | 28 | 30 | 29 | 25 | 15 | 15 | 17 | 20 | 25 | 29 | 30 | 293 |
| Minhla | 30 | 28 | 30 | 29 | 24 | 18 | 17 | 16 | 22 | 25 | 29 | 30 | 298 |
| Okpo | ΤE | 28 | 30 | 30 | 26 | 24 | 22 | 21 | 23 | 27 | 29 | 30 | 321 |
| Gyobingauk | 30 | 28 | 31 | 29 | 25 | 19 | 21 | 22 | 24 | 26 | 29 | 30 | 314 |
| Zigon | 30 | 28 | 30 | 29 | 25 | 18 | 20 | 21 | 23 | 26 | 28 | 31 | 309 |
| Prome | 30 | 28 | 31 | 29 | 26 | 22 | 22 | 23 | 22 | 26 | 29 | 30 | 318 |
| Paukkaung | ΤE | 28 | 31 | 29 | 26 | 21 | 23 | 24 | 24 | 27 | 28 | τε | 323 |
| Shwedaung | 30 | 28 | 31 | 29 | 26 | 22 | 21 | 23 | 20 | 25 | 29 | 30 | 314 |
| Henzada | 30 | 28 | 30 | 29 | 24 | 16 | ЕT | 15 | 21 | 25 | 28 | 30 | 289 |
| Kyangin | 30 | 28 | 30 | 29 | 26 | 19 | 21 | 22 | 23 | 26 | 29 | ΤE | 314 |
| Myanaung | 30 | 28 | 30 | 29 | 25 | 19 | 22 | 22 | 22 | 26 | 29 | 30 | 312 |
| Ingabu | 30 | 28 | τe | 29 | 25 | 16 | 15 | 19 | 21 | 26 | 29 | ΊE | 300 |
| Zalun | 30 | 28 | 30 | 29 | 25 | 15 | 1.5 | 15 | 19 | 26 | 25 | 30 | 291 |
| Danubyu | 30 | 28 | 30 | 29 | 24 | 15 | T 6 | T 6 | 20 | 25. | 3ô | 30 | 292 |
| Lemyethna | 31 | 28 | Эl | 27 | 23 | 13 | 12 | 14 | 21 | 24 | 29 | TE | 284 |
| Yegyi | 31 | 28 | ЭТ | 29 | 23 | 1 6 | 15 | 17 | 22 | 26 | 29 | 30 | 297 |
| Kyanpyaw | 31 | 28 | 31 | 28 | 24 | 14 | T3 | 13 | 20 | 25 | 28 | 31 | 286 |
| Average | 30 | 28 | 31 | 29 | 25 | 17 | 17 | 18 | 21 | 26 | 29 | 30 | 301 |

ANNUAL MEAN NON-RAINFALL DAYS

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| Days) | Total | 33T | 332 | 337 | 344 | 354 | 34G | 347 | 350 | 353 | 348 | 336 | 347 | 348 | 343 | 337 | 336 | 329 | 337 | 335 | 342 |
|------------|---------|--------|---------|-------------|--------|------|------------|-------|-------|-----------|-----------|---------|---------|----------|--------|-------|---------|-----------|-------|----------|------------|
| (Unit: | Dec. | 30 | 31 | 30 | 31 | 31 | 30 | 31 | 30 | TE | 30 | 31 | 31 | 30 | 31 | 31 | 30 | 31 | 31 | 31 | 31 |
| C | Nov. | 29 | 29 | 29 | 29 | 30 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 30 | 29 | 29 | 29 |
| mm.) | Oct. | 29 | 28 | 29 | 29 | 30 | 30 | 29 | 29 | 30 | 29 | 29 | 29 | 30 | 29 | 30 | 29. | 29 | 28 | 29 | 29 |
| | Sep. | 26 | 26 | 27 | 28 | 27 | 28 | 28 | 28 | 29 | 27 | 27 | 28 | 27 | 28 | 26 | 26 | 26 | 27 | 27 | 27 |
| | Aug | 24 | 24 | 26 | 27 | 29 | 28 | 28 | 29 | 29 | 29 | 25 | 29 | 28 | 26 | 26 | 25 | 22 | 25 | 25 | 27 |
| | Jul. | 24 | 23 | 25 | 26 | 29 | 28 | 28 | 29 | 29 | 29 | 24 | 29 | 29 | 26 | 24 | 25 | 22 | 24 | 23 | 26 |
| 30 | Jun. | 25 | 24 | 25 | 27 | 29 | 27 | 27 | 27 | 27 | 27 | 25 | 26 | 27 | 26 | 25 | 25 | 23 | 25 | 24 | 26 |
| (Less than | May | 27 | 28 | 28 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 28 | 28 | 28 | 27 | 28 | 28 | 28 |
| (Le | Apr. | 29 | 29 | 29 | 29 | 30 | 30 | 29 | 30 | 30 | 29 | 29 | 29 | 29 | 30 | 29 | 29 | 29 | 30 | 29 | 29 |
| | Mar. | 30 | 31 | 31 | ΤE | 31 | 31 | 30 | 31 | 31 | 31 | 30 | 30 | 31 | 31 | 31 | 31 | ΤE | зі | 31 | <u> 31</u> |
| | Feb. | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| | Jan. | 30 | 3T | 30 | 30 | 31 | ЗI | 31 | 31 | Зl | 31 | 30 | 30 | ΤE | Тĉ | 30 | 31 | 31 | 31 | зт | 31 |
| | Station | Hmawbi | Taikkyi | Tharrawaddy | Minhla | Okpo | Gyobingauk | Zigon | Prome | Paukkaung | Shwedaung | Henzada | Kyangin | Myanaung | Ingabu | Zalun | Danubyu | Lemyethna | Yegyi | Kyonpyaw | Average |

ANNUAL MEAN NON-RAINFALL DAYS

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Appendix D-5 Page-5

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ACCUMULATED SFECIFIC DISCHARGE

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| (uu | Dec. | 866 | 686 | T6 i | L #1 | 32 | 52 | 57 | 367 | | 455 | 24 | 50 | 170 | 46 |
|------------|---------|----------|-----------|---------------|-----------|----------|-------------|----------|-----------|-----------|------------|--------------|-----------------|----------------|-----------------|
| (Unit: mm) | å | w | 0) | 1,2 | CN. | 2 | Ч | # | ო | | 4 | ίΩ. | 7 | ÷-i | ň |
| inu) | Nov. | 863 | 972 | 1,289 | 247 | 292 | 175 | 8#1 | 367 | | 611 | 322 | 944 | 170 | 393 |
| | Oct. | 846 | 924 | 1,265 | 24T | 283 | 774 | 419 | 335 | | 423 | 303 | 422 | 168 | 376 |
| | Sep. | 759 | 843 | 1,172 | 204 | 269 | 158 | 355 | 312 | | 355 | 261 | 360 | 132 | 317 |
| | Aug | 609 | 697 | 939 | 1.75 | 205 | 127 | 296 | 269 | | 273 | 194 | 280 | 92 | 254 |
| | .Iul | 336 | 339 | 669 | 111 | 101 | 87 | 186 | 212 | | 165 | 116 | 175 | 55 | 94 |
| | Jun. | 66 | 129 | 465 | 62 | 44 | 15 | 75 | 126 | | 61 | 57 | 63 | 29 | 54 |
| | May | 14 | ო | t1 t1 | 9 | 7 | Т | 12 | 46 | | 10 | 12 | 13 | 0 | 0 |
| | Apr. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | o |
| | Mar. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | Q | 0 | 0 | 0 |
| | Feb. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | ٥ | 0 | 0 | 0 |
| | Jan. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 |
| | Station | l. Okkan | 2. Thegow | 3. Kadinbilin | 4. Bawbin | 5. Gamon | 6. Taungnyo | 7. Wegyi | 8. Thegon | 9. Shwele | 10. Dingyi | ll. Alenawin | 12. South Nawin | 13. Kyun Yaung | 14. Kyun Chaung |

APPENDIX D-6 BASIC DATA FOR RUN-OFF COEFFICIENCY

| mm) | | Okkan Thegow | | Bawbin | Gamon | Wegyi | Thegon | Dingyi,Alenawin South Nawin | Kyun Chaung |
|----------------------|---------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------------|---------------------------------------|------------------------------------------|---------------------------------------|
| (Unit: | Dec. | 6.7 7.2 10.6 24.3 220.1 668.9 1,174.0 1,644.9 1,948.2 2,136.1 2,168.5 2,180.6 | 1,858.7 | 1,366.2 | l,338.5 | 1,561.5 | 1,298.2 | 1,224.8 | 945.4 1,214.2 1,363.3 1,388.1 1,395.9 |
| | Nov. | 2,168.5 | 6.0 22.7 206.8 567.6 1,007.1 1,433.6 1,655.7 1,828.9 1,855.4 1,858.7 | 961.7 1,195.0 1,324.5 1,359.4 1,366.2 | 988.8 1,179.4 1,318.9 1,331.0 1,338.5 | 878.5 1,157.8 1,369.0 1,519.7 1,560.7 1,561.5 | 887.2 1,105.9 1,266.1 1,291.7 1,298.2 | 898.6 1,065.5 1,176.8 1,224.5 1,224.8 | 3 1,388.1 |
| | Oct. | 2,136.1 | 7 1,828.9 | 0 1,324.5 | + 1,318.9 | 0 1,519.7 | 9 1,266.] | 5 1,176.8 | 2 1,363.3 |
| INFALL | Sep. | 1,948.3 | 1,655.7 | 1,195.(| 1,179. ¹ | 3 1,369.4 | 2 1,105. | 3 1,065 . | 4 1,214. |
| ACCUMULATED RAINFALL | Aug. | 1,644.9 | 1,433.6 | | | 1,157.8 | | | |
| ACCUMU | .Iul. | 1,174.0 | 1,007.l | 675.4 | 731.4 | | 668.7 | 666.5 | 707.8 |
| | Jun. | 668.9 | 567.6 | 421.7 | 448.5 | 534.6 | 8.3 414.6 | 450.3 | 6.5 444.1 |
| | May | 220.1 | 206.8 | 8.4 10.9 223.7 421.7 | 1.9 6.0 158.4 448.5 | 4.4 16.7 183.7 534.6 | 168.3 | 0.9 0.9 2.6 8.6 ISI.2 450 ⁶ 3 | 166.5 |
| | Apr. | 24.3 | 22.7 | 10.9 | 6.0 | 16.7 | 16.8 | 8°9 | 16.1 |
| | Mar. | 10.6 | 6.0 | | 1.9 | | 6.4 | 2.6 | 1.2 |
| | Jan. Feb. Mar. Apr. | 7.2 | 4.5 5.I | 1.9 1.9 | 1.3 1.9 | 2.1 2.5 | 4.6 5.6 6.4 16.8 16 | 6°0 | 0.7 1.2 1.2 16.1 16 |
| | Jan. | | с. т | 1.9 | 1.3 | 2.1 | 4.6 | 0.9 | 0.7 |
| | Station | Tharrawaddy | Minhla | Okpo | Gyobingauk | Zigon | Prome | Paukkaung | Shwedaung |

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| (um | Total | 866 | 989 | 1,291 | 247 | 292 | 175 | 457 | 367 | | 455 | 324 | 450 | 170 | 394 | |
|--------|-----------------------|----------|----------|---------------|-----------|----------|-------------|----------|-----------|-----------|------------|--------------|-----------------|----------------|-----------------|---|
| (Unit: | Dec. | ო | 17 | 2 | 0 | 0 | 0 | თ | 0 | | 9 | 2 | t | 0 | ч | |
| - | Nov | 17 | 48 | 24 | g | თ | -1 | 29 | 32 | | 26 | 19 | 24 | N | 17 | |
| | Oct. | 87 | 81 | 63 | 37 | 14 | 16 | 64 | 23 | | 68 | 42 | 62 | 36 | 59 | • |
| | Sep. | 150 | 146 | 233 | 29 | 64 | ЗТ | 59 | 43 | | 82 | 67 | 80 | 04 | 63 | |
| | Aug. | 273 | 358 | 240 | 94 | TOT | 04 | 110 | 57 | | 108 | 78 | 105 | 37 | 160 | |
| | Jul. | 237 | 210 | 234 | 64 | 60 | 72 | 111 | 86 | | 104 | 53 | 106 | 26 | 40 | |
| | Jun. | 85 | 126 | 421 | 56 | 37 | 14 | 63 | 80 | | 51 | 45 | 56 | 29 | 54 | |
| | May | 1t | ო | 11 11 | g | 7 | н | 12 | 46 | | ΠO | 12 | 13 | 0 | 0 | |
| | Apr. | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | |
| | Mar. | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | |
| | Feb. | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | |
| | <u>Jan.</u> | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | |
| | <u>C.A</u> (sq.km) | 313.4 | 88.1 | 240.9 | 261.6 | 80.3 | 549.l | 538.7 | 69.8 | | 323.7 | 274.5 | 639.7 | 64.7 | 72.5 | |
| | C sq | Зl | 8 | 24 | 26 | œ | 54 | 53 | 9 | | 32 | 27 | 63 | G | | |
| | River | l. Okkan | . Thegaw | 3. Kadinbilin | 4. Bawbin | 5. Gamon | 6. Taungnyo | 7. Wegyi | 8. Thegon | 9. Shwele | 10. Dingyi | ll. Alenawin | 12. South Nawin | 13. Kyun Yaung | 14. Kyun Chaung | |
| | | , H | 3 | 'n | ⇒ | ŝ | 9 | 7 | ω | G | 10 | 11 | 12 | 13 | 14 | |

SPECIFIC MONTHLY DISCHARGE

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APPENDIX D-7 WATER REQUIREMENTS

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WATER REQUIREMENT OF PADDY ON GROWING STAGE

| | | | Моп | + h | | |
|-----------------------------------------------|-------------|---------------------|-------------|--------------|--------------|-------------|
| | lst | 2nd | 3rd | 4th | 5th | 6th |
| | | | | | | |
| Prome; Wet season paddy of type | e A | | | | • | |
| | | I L O | | A A | • • | ~ ~ |
| ETo (mm/day) Kc value | 6.2 1.0 | 4.2 1.1 | 3.3 1.1 | 3.1 1.05 | 3.3 1.00 | 3.2 0.95 |
| ET crop (mm/day) | 6,20 | 4.62 | 3.63 | 3.26 | 3.30 | 3.04 |
| Percolation rate (mm/day) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Total (d) | 7.70 | 6.12 | 5.13 | 4.76 | 4.80 | 4.54 |
| Water requirement (mm/day) | 0.15 | 3.58 | 5.13 | 4.76 | 2.94 | 0.64 |
| | | <u> </u> | | | | |
| Prome; Wet season paddy of typ | e B | | | | | |
| | | | | ~ . | | • • |
| ETo (mm/day) | 6.2 | 4.2 | 3.3 | 3.1 | 3.3 | 3.2 0.95 |
| Ko value | 1.0 6.20 | 1.1 4.62 | 1.1 3.63 | 1.05 3.26 | 1.00 3.30 | 3,04 |
| ET crop (mm/day) Percolation rate (mm/day) | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Total (d) | 8.70 | 7,12 | 6,13 | | 5.80 | 5.54 |
| Water requirement (mm/day) | 0.17 | 4.17 | 6.13 | 5.76 | 3.56 | 0.78 |
| Prome; Dry season paddy of typ | e A | ~ | | | | |
| ETo (mm/day) | 3.1 | 2.9 | 3.1 | 4.1 | 5.1 | 7.4 |
| Kc value | 1.0 | 1.1 | 1.1 | 1.25 | | 1.0 |
| ET crop (mm/day) | 3.10 | 3.19 | 3.41 | 5.13 | 5.76 | 7.40 |
| Percolation rate (mm/day) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Total (d) | 4.60 | 4.69 | | 6.63 | 7.26 | 8,90 |
| Water requirement (mm/day) | 0.09 | 2.68 | 4.91 | 6.63 | 6.35 | 1.61 |
| | . . | | | | | |
| Tharrawaddy; Wet season paddy | of type | A. | | | | |
| ETo (mm/day) | 5.4 | 4.1 | 3.9 | 3.6 | 4.1 | 3.1 |
| Kc value | 1.0 | 1.1 | 1.1 | 1.05 | | 0.95 |
| ET crop (mm/day) | 5.40 | 4.51 | 4.29 | 3.78 | 4.10 | 2,95 |
| Percolation (mm/day) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Total (d) | 6.90 | 6.01 | 5.79 | 5.28 | 5.60 | 4.45 |
| Water requirement (mm/day) | 0.10 | 2.87 | 5.60 | 5.28 | 3.92 | 0.49 |
| • | | | | | | |

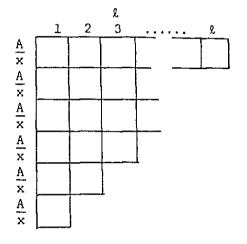
| | | | Mon | t h | | |
|-----------------------------------------|--------------|--------------|--------------|--------------|---------------|--------------|
| | lst | 2nd | 3rd | 4th | 5th | 6th |
| | | | | | | |
| Tharrawaddy; Wet season paddy o | f type | B' | | | | |
| ETo (mm/day) | 5.4 | 4.1 | 3.9 | 3.6 | 4.1 | 3.1 |
| Kc value | 1.0 | 1.1 | 1.1 4.29 | 1.05 3.78 | 1.0 4.10 | 0.95 2.95 |
| ET crop (mm/day) | 5.40 | 4.51 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Percolation (mm/day) | 2.5 7.90 | 7.01 | 6.79 | 6.28 | | 5,45 |
| Total (d) Water requirement (mm/day) | 0.12 | 3.35 | 6.57 | 6.28 | 4.62 | 0.60 |
| water reduitemente (mm, of); | | | | | | |
| Tharrawaddy; Dry season paddy o | of type | <u>A'</u> | | | | |
| | 2.7 | 2.4 | 2.5 | 3.6 | 4.7 | 6.7 |
| ETo (mm/day) Kc value | 1.0 | 1.1 | 1.1 | 1.25 | | |
| ET crop (mm/day) | 2.70 | 2.64 | 2.75 | | | |
| Percolation (mm/day) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 8.20 |
| Total (d) | 4.20 | 4.14 | 4.25 4.11 | 6.00 6.00 | | 1.15 |
| Water requirement (mm/day) | 0.07 | 1.91 | 4.11 | 0.00 | | |
| Henzada; Wet season paddy of t | ype A' | | | | | |
| | 4.2 | 3.1 | 3.0 | 2.9 | 3.1 | 3.0 |
| ETo (mm/day) Kc value | 1.0 | 1.1 | 1.1 | | | 0.95 |
| ET crop (mm/day) | 4.20 | 3.41 | | | $3.10 \\ 1.5$ | 2.85 1.5 |
| Percolation (mm/day) | 1.5 | 1.5 | 1.5 4.80 | 1.5 4.55 | | 4.35 |
| Total (d) | 5.70 0.09 | 4.91 2.35 | | | 3.22 | 0.48 |
| Water requirement (mm/day) | 0.03 | | | | <u></u> . | |
| Henzada; Wet season paddy of t | ype B' | | | | | |
| ETo (mm/day) | 4.2 | 3.1 | 3.0 | 2.9 | 3.1 | 3.0 |
| Kc value | 1.0 | 1.1 | 1.1 | 1.25 | 1.13 | 1.0 |
| ET crop (mm/day) | 4.20 | | _ | | | |
| Percolation (mm/day) | 2.5 | | | 2.5 6.13 | | |
| Total (d) | 6.70 0.10 | | | | | |
| Water requirement (mm/day) | 0.10 | 2,02 | | • | | |
| Henzada; Dry season paddy of t | type A' | - | | | | |
| ETo (mm/day) | 2.7 | 2.4 | 2.5 | 3.2 | - | |
| Kc value | 1.0 | 1.1 | 1.1 | 1.25 | | |
| ET crop (mm/day) | 2.70 | | | | | |
| Percolation (mm/day) | 1.5 | | | | | |
| Total (d) | 4.20 0.09 | | | | | |
| Water requirement (mm/day) | 0.05 | <u> </u> | | | | |

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WATER REQUIREMENT FOR GROWING STAGE OF PADDY

Basic equation for Type A & B (Growing period of 145 days)

On first month



Where

x; Transplanting period (days)

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- A; Irrigable area (ha)
- %; Apprication period of water requirement (days)
- d; Consumptive use (mm/day)

$$Q_1(mm/day) = \frac{A}{x} \cdot \left(\frac{1+\ell_1}{2}\right) \cdot \ell_1 \cdot d_1 \cdot \frac{1}{n_1}$$

On second month

$$Q_2 = [1.0 - (\frac{1+\ell_2}{2}) \cdot \ell_2 \cdot \frac{1}{n_2} \cdot \frac{1}{x}] d_2 \cdot A$$

On third and forth month

$$Q = 1.0 d \cdot A$$

On fifth month

Q =
$$[1.0 - \frac{1}{x} \cdot (\frac{1+k_3}{2}) \cdot k_3 \cdot \frac{1}{n_3}] d_5 \cdot A$$

On sixth month

$$Q = \frac{A}{x} \cdot \left(\frac{1+\ell_{4}}{2}\right) \cdot \ell_{4} \cdot d \cdot \frac{1}{n_{4}}$$

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Basin equation for Type A' & B' (Growing period of 135 days)

On first month

$$Q_1 = \frac{A}{x} \cdot \left(\frac{1+\xi}{2}\right) \cdot \xi \cdot d \cdot \frac{1}{\pi_1}$$

On second month

$$Q_2 = \frac{A}{x} \left[\left(\frac{1+\ell_2}{2} \right) \cdot \ell_2 - \left(\frac{1+\ell_1}{2} \right) \cdot \ell_1 \right] \cdot d \cdot \frac{1}{n_2}$$

On third month

$$Q_3 = [1.0 - (\frac{1+l_3}{2})l_3 \cdot \frac{1}{n_3x}] A \cdot d$$

On forth month

$$Q_4 = 1.0 \text{ d} \cdot A$$

On fifth month

$$Q_5 = [1.0 - (\frac{1+l_4}{2})l_4 \cdot \frac{1}{n_4x}] A \cdot d$$

On Sixth month

$$Q_6 = (\frac{1+\ell_5}{2})\ell_5 \cdot \frac{A}{x} \cdot d \cdot \frac{1}{n_5}$$

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| Paddy | Wet S | Season | | | Dry Season | Paddy |
|------------------|------------|----------------------|-----------|--------------------|--------------------------|-------------------------|
| Туре | <u>A</u> - | B | <u>A'</u> | B1 | A | A' |
| x | 35 | 35 | 45 | 45 | 35 | 45 |
| \mathfrak{L}_1 | 6 | 6 | 6 | 6 | 6 | 6 |
| n ₁ | 31 | 31 | 31 | 31 | 30 | 30 |
| Ql | 0.0194 | d•A | 0.0151 | d •A | 0.02 d A | 0.0156 d A |
| l ₂ | 29 | 29 | 36 | 36 | 30 | 36 |
| n ₂ | 30 | 30 | 30 | 30 | 31 | 31 |
| Q ₂ | 0.5857 | d ₂ -A | 0.4778 | d ₂ A | 0.5714 d ₂ A | 0.4624 d ₂ A |
| Q ₃ | 1.0 | d₃•A | 0.9677 | d₃ A | 1.0 d ₃ .A | 0.9677 d ₃ A |
| Qų | 1.0 | d ₄ A | 1.0 | d ₄ A | 1.0 d ₄ A | 1.0 d ₄ •A |
| l. 3 | 28 | 28 | 9 | 9 | 16 | 9 |
| n ₃ | 30 | 30 | 31 | 31 | 31 | 31 |
| Q ₅ | 0.6133 | d ₅ A | 0.6993 | đ ₅ A | 0.8747 d ₅ A | 0.7484 d ₅ A |
| ٤4 | 17 | 17 | 28 | 28 | 19 | 26 |
| n ₄ | 31 | 31 | 30 | 30 | 31 | 31 |
| Q ₆ | 0.1410 |) d ₆ . A | 0.1097 | d ₆ . A | 0.1810 d ₆ .A | 0.1407 d ₆ A |
| l ₅ | | | 17 | 17 | | 19 |
| n ₅ | | | 31 | 31 | | 30 |

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WATER REQUIREMENT BY MONTH (DURING LAND SOAKING AND LAND PREPARATION)

Basic equation for first month

$$Q = (\frac{n}{x}, a, A + \frac{n-11}{x}, b, A + \frac{n-20}{x}, c, A)\frac{1}{n} = \{n, a + (n-11), b + (n-20), c\}\frac{A}{x, n}$$

for second month

$$Q = \{\frac{(x-n)}{x} a.A + \frac{(x-n+11)}{x} b.A + \frac{(x-n+20)}{x} c.A\}\frac{1}{m}$$
$$= \{(x-n).a + (x-n+11).b + (x-n+20).c\}\frac{A}{m.x}$$

Where

Q; Water requirement in depth a day (mm/day) a; Depth of first irrigation water (mm) b; Depth of second irrigation water (mm) c; Depth of third irrigation water (mm) n.m; Days of a month x; Transplanting period (day) A; Irrigable area

| Item Place | Type | x | a | <u>b</u> | <u>c</u> | <u>n</u> | <u>m</u> | Wat requin Mor lst (mm/ | rement oth 2nd |
|--------------------|--------|------|-----|----------|----------|----------|----------|-------------------------------------|----------------------|
| a) Starting at end | of dry | seas | on | | | | | | |
| Prome | A | 35 | 109 | 49 | 82 | 31 | 30 | 4.85A | 2.99A |
| 11 | В | 35 | 118 | 58 | 88 | 31 | 30 | 5.33A | 3.29A |
| Tharrawaddy | A۱ | 45 | 106 | 46 | 80 | 31 | 30 | 3.65A | 3.97A |
| 11 | Bt | 45 | 115 | 55 | 86 | 31 | 30 | 4.02A | 4.38A |
| Henzada | A† | 45 | 98 | 38 | 76 | 31 | 30 | 3.32A | 3.63A |
| 11 | B' | 45 | 107 | 47 | 81 | 31 | 30 | 3.69A | 4.02A |
| | | | | | | | | | |

b) Starting at end of wet season

| Prome | А | 35 | 79 | 34 | 72 | 30 | 31 | 3.56A | 2,52A |
|-------------|----|----|----|----|----|----|----|-------|-------|
| Tharrawaddy | A۱ | 45 | 84 | 31 | 70 | 30 | 31 | 2.82A | 3.24A |
| Henzada | A' | 45 | 84 | 31 | 70 | 30 | 31 | 2.82A | 3,24A |

| | Prome; Type A " ; Type B Tharrawaddy; Type A' | " : Type B' Henzada: Type A' " ; Type B' | ype A đdy and | Appendix D Page-7 -V ed X L : Epperation |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------|
| ස ප් ස ස් ස් ප් ප ස් ස් ප් ප ස් ස් ප් ප ස් ස් ප් ප ස් ප් ප ස් ප ස | FH 5 x 6 + 3.9 x 6) 5 x 6 + 3.9 x 6) 5 x 6 + 3.6 x 6) | 5 x 6 + 3.6 x 6) 5 x 6 + 2.7 x 6) 5 x 6 + 2.7 x 6) | 5×6+2.3×6) 5×6+1.9×6) | |
| 9 — Bniworash É | (=5 (=5 (=5 | (=50 + 2. (=50 + 1. (=50 + 2. | (=50+1. (=50+1.) | |
| S de los | 8 8 8 9 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 86 76 81 | 72 70 | |
| u – Bniowrash t ი ი ი ი ქას | (=1.5 × 9 + 3.9 × (=1.5 × 9 + 3.9 × (=1.5 × 9 + 3.6 × | (=2.5×9+3.6×9) (=1.5×9+2.7×9) (=2.5×9+2.7×9) | (=1.5×9+2.3×9) (=1.5×9+1.9×9) | |
| 년 년 같 같 는 1 Errigation | tr 2 tr | 55 38 47 | 34 31 | |
| оо та вијмо д д ц д - | 1.5×9+3.9× 2.5×9+3.9× 1.5×9+3.9× | (=60 + 2.5 × 9 + 3.6 × 9) (=60 + 1.5 × 9 + 2.7 × 9) (=60 + 2.5 × 9 + 2.7 × 9) | (=45 + 1.5 × 9 + 2.3 × 9) (=53 + 1.5 × 9 + 1.9 × 9) | |
| a noifegiral | | | 1=) †18 1=) 6L | |
| | dry season | | to bra nosees | |

APPLICATION OF WATER REQUIREMENT FOR LAND SOAKING AND LAND PREPARATION WATER REQUIREMENT FOR LAND SOAKING AND LAND PREPARATION

| | | | | | | | | | | Pag | e-8 | } | |
|----------------------------------------|-----------------------------------------------|---------------------------------------|---------------------------|--------------------------------------------------------------|---------------------------------|------------------|-----------------|-------------|---------|-----------------|-------|-------------|---------|
| Type A Type A' | 70% dry | 53 | 1.5 | 36 | 50 | | * | 46 | 1† G | | * | 185 | 185 |
| Type A | 60% dry | H 5 | 1.5 | 36 | 50 | | 54 | *: | * | | 185 | -12 | ** |
| Type B' | 80% dry | 60 | 2.5 | 60 | 50 | | ~ | 86 | 66 | | « | 256 | 236 |
| In end of dry season Type A' Type B | 80% dry | 60 | 2.5 | 60 | 50 | | 1 16 | ** | * | | 264 | * | * |
| Type A' | 80% dry | 60 | 1.5 | 36 | 50 | | ~ | 86 | 66 | | ** | 232 | 212 |
| Type A | 80% dry | 60 | 1.5 | 36 | 50 | | 1 6 | * | * | | 240 | * | -34 |
| Item | Top soil saturation 150 mm depth 50% depth | Requirment (mm) 150 mm x 0.5 x (1) | Percolation loss (mm/day) | Total percolation loss (mm) during 24 days of preparation | Standing water requirement (mm) | Evaporation loss | Prome | Tharrawaddy | Henzada | Total (2+4+5+6) | Prome | Tharrawaddy | Henzada |
| Sr. No. | ч. | 2. | თ | | 5. | .9 | | | | 7. | | | |

Note; The cropping pattern with * mark is not applied in this area.

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Appendix D-7

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| | Item | | Jan. | Feb. | Mar. | Apr. | May | Jun. | <u>Jul.</u> | <u>Aug.</u> | Sep. | Oct. | Nov. | Dec. |
|---------|-------------------------|----------|------|------|---------|--------------|--------------|------|-------------|-------------|---------|--------|-------|------|
| | | 0 0 | 23,9 | 25.8 | 29.6 | 32.2 | | 30.6 | | 28.0 | 27.9 | ŗ. | - | 23.6 |
| | (1) | | 29.6 | 33.1 | | 48.4 | 44.3 | | 36.4 | 37.7 | • | o. | ٢. | 29.1 |
| RH mean | (2) | 9,0 | 45 | 48 | H2 | 64 | 63 | 86 | 87 | 88 | 88 | | | 65 |
| | (3)=(1)x(2) | | 13.3 | | 17.4 | 23.7 | 27.9 | 37.8 | 31.7 | 33.2 | 33.0 | ۲. | σ. | 18.9 |
| | (1)-(3) | | 16.3 | 17.2 | 24.1 | 24.7 | <u>16.4</u> | 6.2 | 4.7 | 4.5 | 4.5 | | | 10.2 |
| | (2) | km/day | 96.5 | | (12.1] | 54.6] | 46.6] | 23.6 | 12.1] | .08.2 | 88.8 | 0. | म | 39.0 |
| | (9) | , | 0.53 | | 0.57 | 0.69 | 0.67 | 0.60 | 0.57 | 0.56 | 0.51 | .50 | . 55 | 0.65 |
| | (7) alt.=20m | | 0.27 | | 0.22 | 0.20 | 0.21 | 0.21 | 0.24 | 0.23 | 0.23 | .23 | .25 | 0.27 |
| | (4)x(6)x(7) | mm/day | 2.33 | | 3.02 | 3.41 | 2.31 | 0.78 | 0.64 | 0.58 | 0.53 | 68 | 21 | 1.79 |
| | (9) lat.=19°N n | l mm/day | 11.4 | | 14.5 | 15.6 | 16.2 | 16.3 | 16.2 | 15.9 | 14.8 | ц, | 8 | 10.9 |
| | (10) | hr/day | 6.9 | | 9.3 | 9°2 | 7.2 | 4.5 | 5.1 | 3.8 | 5.8 | ₹. | 5 | 8.8 |
| | (11) lat.=10°N | | 11.1 | | 12.0 | 12.6 | 13.0 | 13.2 | 13.1 | 12.8 | 12.3 | 2 | 2 | 11.0 |
| | (12) | | 0.84 | | 0.78 | 0.75 | 0.55 | 0.34 | 0.39 | 0.30 | 0.47 | 60 | 69 | 0.80 |
| | α=0.25 | | 0.50 | | 0.48 | 0.47 | 0.39 | 0.32 | 0.33 | 0.30 | 0.36 | 41 | 45 | 0.49 |
| | $(T_{4})=(9)\times(13)$ | | 5.7 | | 7.0 | 7.3 | 6.3 | 5.2 | 5.3 | 4.8 | 5.3 | 5 L | e | 5.3 |
| | (12) | | 15.4 | | 16.7 | 17.2 | 17.0 | 17.0 | 16.1 | 16.3 | 16.3 | e | Б | 15.4 |
| | (16) | | 0.27 | | 0.23 | 0.17 | 0.14 | 0.07 | 0.11 | 0.10 | 01.0 | 12 | 17 | 0.22 |
| ~ | (12) | | 0.86 | | 0.80 | 0.78 | 0.60 | 0.4I | 0.45 | 0.37 | 0.52 | 64 | 72 | 0.82 |
| Rn1 | (18)=(T2)×(10)> | ×(17) | 3.6 | | 3.1 | 2.3 | 1.4 | 0.5 | 0.8 | 0.6 | 0.8 | ς Γ | ъ | 2.8 |
| | (19) = (14) - (18) | | 2.1 | | с. С | 5.0 | 4.9 | ч.7 | 4.5 | 4.2 | بہ 1 | 2 | # | 2.5 |
| | (20) | | 0.73 | | 0.78 | 0.80 | 0.79 | 0.79 | 0.76 | 0.77 | 0.77 | 77 | 75 | 0.73 |
| | $(21)=(19)\times(20)$ | mm/day | 1.5 | | 3.0 | ц , 0 | з ° 0 | 3.7 | 3.4 | 3.2 | з.5 | 2 | 9 | 1.8 |
| | (22)=(8)+(21) mm/da | mm/day | 3.8 | | 6.0 | 7.4 | 6.2 | ч.5 | 4.0 | 3.8 | 4.0 | თ | 8 | 3.6 |
| L L | ET correction | mm/day | 3.1 | 4.J | 5.1 | 7.4 | 6.2 | 4.2 | 3.3 | 3.1 | ю. Э | 3.2 | 3.1 | 2.9 |
| | | 3 | | | | | | | | | | | | |

ETo by PENMAN METHOD

(STATION: PROME)

| .1 | <u>+</u> ~ | | | ģ | r-4 | 61 | 28 | 63 | i | ω | 0 | 80 | 6 1 | t | 2 | 17 | 82 | 1 | ო | 72 | . | 0 | ₽. |
|--------|------------------|-----------------|---------|-------------|---------------------|------|------|-------------|------------------|-------------|-----------|------|----------------|----------------------|--------|--------|--------|---------------------------------------|--------------|------|----------|---------------|---------------|
| Dec. | 23 4 28 7 | 1 18 | 24 | 4 | 81. | 0 | 0 | 0 | ייו | ŝ | 11. | 0 | 0 | ы. С | 15. | 0. | | 2. | ო | 0 | ~· | | 2. |
| Nov. | 26.5 34.5 | 86 | 29.7 | t, 8 | 65.8 | 0.45 | 0.24 | 0.52 | 12.0 | 7.7 | 11.2 | 0.69 | 0.45 | 5.4 | 16.1 | 0.13 | 0.72 | 1.5 | а . 9 | 0.75 | 2.9 | 3.4 | 2.7 |
| Oct. | 27.3 36.2 | 87 | 31.5 | 4.7 | 77.3 | 0.48 | 0.24 | 0.54 | 13.6 | 7.4 | 11.7 | 0.60 | 0.41 | 5,6 | 16.l | 0.12 | 0.54 | 1.2 | μ.μ | 0.76 | ю. Ю | 3.8 | 3.1 |
| Sep. | 27.6 36.8 | 89 | 32.8 | 0° † | 41.1 | 0.65 | 0.23 | 0.60 | 14.9 | 5.8 | 12.3 | 0.47 | 0.36 | 5.4 | 16.3 | 0.11 | 0.52 | 5. 0 | 4.5 | 0.77 | 3.5 | 4.1 | 4.1 |
| Aug. | 27.3 36.2 | 06 | 32.6 | 3. 6 | 46.6 1 | 0.67 | 0.24 | 0.58 | 15.8 | 3.8 | 12.8 | 0.30 | 0.30 | 4.7 | 16.1 | 0.11 | 0.37 | 0.7 | 4.0 | 0.76 | з.0 | 3.6 | 3.6 |
| Jul. | 27.2 36.0 | 16 | 32.8 | 3.2 | 46.6 1 | 0.67 | 0.24 | 0.51 | 16.1 | 5.J | 13.1 | 0.39 | 0.33 | 5°.3 | 16.1 | 0.11 | 0.45 | 0.8 | 4 . 5 | 0.76 | 3.4 | з . 9 | 3.9 |
| Jun. | 27.7 37.1 | 00 | 33.4 | 3.7 | 52.0 L | 0.71 | 0.23 | 0.60 | 16.1 | 4.5 | 13.2 | 0.34 | 0.32 | 5.2 | 16.3 | 01.0 | 0.41 | 0.7 | ц . 5 | 0.77 | 3 С | 4.1 | 4.J |
| May | 30.1 42.7 | 78 | 33.3 | 4.6 | 29.7 I(| 0.62 | 0.22 | 1.28 | 16.1 | 7.2 | 13.0 | 0.55 | 0.39 | 6.3 | 16.7 | 0.10 | 0.60 | 1.0 | 5.3 | 0.78 | 4.1 | 5.4 | 5.4 |
| Apr. A | 30.7 3 44.3 4 | 09 | 26.6 | 1.7 | H6.9 1: | 0.67 | 0.21 | 2.49 | 15.6 | 9.5 | L2.6 | 0.75 | 0.47 | 7.3 | L7.0 | 0.15 | 0.78 | 2.0 | 5.3 | 0.79 | 4.2 | 6.7 | 6.7 |
| Mar. / | 28.0 3 37.7 4 | 8 | 6.T | 5.8] | 98.9 J ¹ | 0.54 | 0.23 | 1.96 | - 1° 0° 1 | 6 .9 | 12.0 | 0.78 | 0.48 | 7.0 | L6.3 | 0.19 | 0.80 | 2.5 | 4.5 | 0.77 | 3.5 | 5.5 | 4.7 |
| reb. | 24.7 2 31.0 3 | | | | | | | | | | | | | | | | | | | | | | 3.6 |
| Jan. I | 22.5 2 27.2 3 | 1 6 | 9.3 1 | 1.9.1 | 9.6 | 0.46 | 0.28 | 1.02 | 1.6 1 | 9.3] | 1.1 1 | 0.84 | 0.50 | 5.8 | 5.2] | 0.22 | 0.86 | 2.9 | 2.9 | 0.72 | 2.1 | 3.1 | 2.5 |
| 5 I | N N | - | Ä | - | G | - | - | | | - | ц, | | | | | | | | | | | | |
| | о ^с | <i>0\0</i> | | | km/day | ı | | mm/day | lat.=18°N mm/day | hr/day | • | | | | | | | 11) | | | mm/day | mm/day | mm/day |
| | | | 2) | 3) | | | =l5m | (t)x(0)x(1) | =18°N | | lat.=18°N | | 25 | 13) | | | | $(18) = (15) \times (16) \times (17)$ | (T8) | | (20) | | |
| Item | | | ;)×(T): | (1)-(3) | | | alt | (9)×(9): | lat. | | lat. | | 0=0 0 | $[14)=(9)\times(13)$ | | | | =(12)× | -(ħT)= | | x(10); | [22)=(8)+(21) | _ |
| 11 | (1) | (2) | (3)≡ | | (2) | (9) | (2) | ×(†) | (6) | (01) | (11) | (12) | | =(hT) | (12) | (JE) | (11) | (18)= | =(II) = | (20) | (2T)= | (22)= | sction |
| | t mean aa | mean | | ~ | | | | | | | | Z | 3) | Rns | t) | ed) | | | | | Rn | 0 | ET correction |
| | ea ea | RH | ed | Ĵ | U2 | fu | 7-7 | (8) | Ra | ц | z | 1/u | đ | Rn | ن ب | ٦ F | Ę Ļ | Rn. | æ | м | - M | ET | ET |

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ETo by PENMAN METHOD

(STATION: THARRAWADDY)

| Dec. | 23.9 29.6 21.3 21.3 21.3 8.8 0.27 0.27 0.85 0.85 0.85 0.27 0.85 0.49 0.49 0.49 0.49 0.82 0.82 0.82 0.20 0.73 3.0 | 2.4 |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Nov. | 26.5 34.5 79 79 772 772 772 772 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.45 0.45 0.45 0.45 0.45 3.4 3.4 3.4 | 2.7 |
| Oct. | 27.5 36.6 30.4 30.4 30.4 0.23 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48 | 3.0 |
| Sep. | 27 367 31, 7 31, 7 31, 7 31, 7 12, 3 0, 14 15, 8 1, 7 1, 7 1, 7 1, 7 3, 8 3, 8 3, 8 3, 1 1, 1 1, 1 3, 1 3, 1 3, 1 3, 1 3, 1 | 3.1 |
| Aug. | 27.1 335.8 83 6.1 7 6.1 7 6.1 7 7 6.1 7 7 6.1 7 7 6.1 7 8.6 7 7 6.1 7 8.6 7 8.6 7 7 6.1 7 8.6 7 7 8.6 7 7 8.6 7 7 8.7 8.7 8.6 8.7 8.6 8.7 8.6 8.7 7 7 8.6 8.7 8.7 8.7 8.6 8.7 7 7 7 8.6 8.7 8.6 8.7 7 7 7 8.6 8.7 7 7 7 8.6 8.7 7 7 7 8.6 8.7 7 7 7 7 8.6 8.7 7 7 7 7 7 8.6 8.7 7 7 7 7 7 8 8 8 7 7 7 7 7 7 7 7 7 7 | 2.9 |
| Jul. | 26.9 35.3 32.5 32.5 32.5 32.5 0.37 0.37 0.33 0.33 0.33 0.33 0.33 0.33 | 3.0 |
| Jun. | 27,3 366 32.6 32.6 33.6 0.43 0.43 0.43 0.43 0.24 1.6.1 1.6.1 1.6.1 1.6.1 1.6.1 1.6.1 0.37 0.37 0.34 0.37 3.6 0.37 3.6 3.7 8 3.6 3.7 8 0.7 8 3.7 8 3.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.2 7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 0.7 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 100.0 8 00.2 8 00.2 8 1000.2 8 00.2 8 000.2 8 1000.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 100000000000000000000000000000000000 | 3.1 |
| May | 29.9 29.9 29.5 29.5 12.7 13.0 13.0 13.0 13.0 13.0 0.55 0.13 0.55 0.13 0.13 0.13 0.13 5.0 5.0 5.0 5.0 | 4.2 |
| Apr. | 30 4430 560 260 220 220 221 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 20 | 5.1 |
| Mar. | 28.28.3 558.7 228.8 222.8 222.8 2.9.3 122.0 14.6 0.18 0.18 0.18 0.18 0.18 0.18 0.18 0.18 | ц.1 |
| Feb. | 24.8 31.2 62.1 11.9 38.6 0.37 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 | 3.2 |
| Jan. | 23.3 28.6 29.3 27.1 27.1 27.1 27.1 27.1 11.1 11.1 11.1 | 2.5 |
| | °C % km/day mm/day hr/day (17) (17) mm/day | mm/day |
| Item | (1) (2) (2) (3)=(1) \times (2) (5) (1)-(3) (5) (1)-(3) (7) alt.=10m (4) \times (6) \times (7) (4) \times (6) \times (7) (4) \times (6) \times (7) (4) \times (6) \times (7) (4) \times (6) \times (7) (1) (1) (1) (1) (1) (1) (1) (1 | sction |
| | t mean ea RH mean ed (4) (12) fu (12) fu (12) Ra N N N N N N N N N N (13) f(t) f(t) f(t) f(n/N) f(n/N) f(n/N) Fn Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra | ET correction |

ETO by PENMAN METHOD

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(STATION: HENZADA)

Appendix D-7 Page-11 . .

APPENDIX D-8 COST ESTIMATION

UNIT COST OF DIVERSION DAM

1 Dam body

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The unit cost of the diversion dam of the South Nawin Irrigation Project is applies for the diversion dam body. Above unit cost is used from the interim report of above project, Nov., 1979. 24,253,000 Kyat/1,600 m = 15,158 Ks/m

24,253,000 Kyat/1,600 m=15,158 Ks/m (say 16,000 Ks/m)

2. Intake facilities per place

| | Qunt'y | <u>Unit</u> | Unit Cost (ks) | Cost ('000ks) |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------|-------------------------------------------|-------------------------------------------------|
| (1) Fish Rudder | | | | |
| Earth works | 969 | cu.m | 15.15 | 14 |
| Concrete works | 336 | 11 | 392.40 | 131 |
| R. iron bar | 3.4 | ton | 6,570.00 | 22 |
| Total | | | | 167 |
| (2) Intake Works | | | | |
| Earth works | 7,709 | cu.m | 15.15 | 116 |
| Concrete works | 703 | 11 | 392.40 | 275 |
| R. iron bar | 49.2 | ton | 6,570 | 323 |
| Total | | | | <u>714</u> |
| (3) Slope Protection | | | | |
| Earth works | 12,708 | cu.m | 15,15 | 192 |
| Concrete works | 903 | ** | 287.80 | 259 |
| R. iron bar | 63.2 | ton | 6,570 | 415 |
| Brick works | 888 | sq.m | 35.9 | 31 |
| Total | | | | <u>897</u> |
| (4) Abutment Works | | | | |
| Earth works | 553 | cu.m | 15.15 | 8 |
| Concrete works | 37 | ** | 287.8 | 10 |
| R. iron bar | 1.9 | ton | 6,570 | 12 |
| Total | | | | 30 |
| Concrete works R. iron bar Brick works <u>Total</u> (4) Abutment Works Earth works Concrete works R. iron bar | 903 63.2 888 553 37 | " ton sq.m cu.m | 287.80 6,570 35.9 15.15 287.8 | 259 415 31 <u>897</u> 8 10 12 |

| | | | | Appendix I Page-2 |)-8 |
|--------|------------------------------------------|-----------|---------------|----------------------|-------------------------|
| | | Qunt'y | <u>Unit</u> | Unit Cost (ks) | <u>Cost</u> ('000ks) |
| (5) | Gate | | | | |
| | Gate 2.0 x 1.6 | 2 | pes | | 347 |
| | Gate 1.2 x 1.2 | 1 | pc | | 116 |
| | Screen 3,5 x 2,2 | 2 | pcs | | 66 |
| | Screen 1.2×1.5 | l | pc | | 8 |
| | Total | | | | 537 |
| | Grand Total | | | | 2,345 |
| Gate : | for spill (Gate length = 1 | .53 m) | | | |
| (1) | Dam Body | | | | |
| | Earth works | 18,358 | cu.m | 15.15 | 278 |
| | Concrete works | 6,221 | tî | 287.8 | 1,790 |
| | R. iron bar | 16.2 | ton | 6,570 | 106 |
| | Rip lap | 9,600 | sq.m | 26.1 | 250 |
| | Sheet pile (1=8 m) | 150 | ជា | 900 | 135 |
| | Total | | | | 2,559 |
| (2) | Pier Works | | | | |
| | Concrete works | 1,504 | cu.m | 392.4 | 590 |
| | R.iron bar | 30,1 | ton | 6,570 | 197 |
| | Total | | | | 787 |
| (3) | Gate | | | | |
| | Scouring sluice gate (12.8 m x 2.9 m) | 2 | pcs | | 3,900 |
| (4) | Gate for spillway (31.8 mx2.7 m) | 3 | pcs | | 15,428 |
| | 0 & M bridge | 153 | ៣ | 21,000 | 3,213 |
| | Step | 6 | pcs | | 309 |
| | Emagency gate | | \mathbf{LS} | | 2,314 |
| | Total | | | | 25,164 |
| (5) | Operation Room & Control | Equipment | s | | |
| | Operation room | 288 | sq.m | 1,900 | 547 |
| | Control equipment | | LS | | 6,429 |
| | Total | | | | 6,976 |

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| | | | Appendix D-8 Page-3 | | | | | |
|---------------------|--------|------|------------------------|-------------------------|--|--|--|--|
| | | | rage-s | 3 | | | | |
| | Qunt'y | Unit | Unit Cost (ks) | <u>Cost</u> ('000ks) | | | | |
| (6) Engine Room | | | | | | | | |
| Engine room | 257 | sq.m | 1,100 | 282 | | | | |
| Total | | | | 282 | | | | |
| (7) Temporary Works | | | | | | | | |
| 15 % of (1) to (6) | | | | 5,365 | | | | |
| Grand Total | | | | 41,133 | | | | |

Unit Cost 41,133,000 Ks/153 m = 268,843 Ks/m Say = 269,000 Ks/m

APPENDIX BREAKDOWN OF PROJECT COST (South Nawin Irrigation Project)

• • • • • • • • • • • • •

| | | (| Unit: '00 | 0 Kyats) |
|-----------------------------|-------------|------------------|---------------------|----------|
| | | | rigation 8 | ; |
| | Main dam | Diversion dam | drainage systems | Total |
| | | | Systems | |
| 1. Civil works | | | | |
| (1) Preparation | 5,515 | 2,183 | _ · | 7,698 |
| (2) Main Dam | 55,150 | - | - | 55,150 |
| (3) Diversion Dam | - | 21,830 | - | 21,830 |
| (4) Irr. & Drainage Systems | - | - | 58,406 | 58,406 |
| (5) Pre-Engineering | 607 | 240 | 584 | 1,431 |
| Sub-total (per ha) | 61,272 | 24,253 | 58,990 | 144,515 |
| 2. Compensation | 1,310 | 145 | - | 1,455 |
| 3. Corstruct'n Equip't | 59,962 | 25,698 | 37,690 | 123,350 |
| 4. Agriculture Develop't | - | - | 5,300 | 5,300 |
| 5. 0 & M Cost | 975 | 386 | 939 | 2,300 |
| 6. Project Facilities | 1,569 | 621 | 1,510 | 3,700 |
| 7. Project Adminst'n | 7,140 | 2,826 | 6,874 | 16,840 |
| 8. Consut's Service | 4,880 | 4,880 | 2,440 | 12,200 |
| Total (1 to 8) | 137,108 | 58,809 | 113,773 | 309,690 |
| 9. Contingency (15 %) | 20,502 | 8,801 | 17,007 | 46,310 |
| Total (1 to 9) | 157,610 | 67,610 | 130,780 | 356,000 |
| 10. Price Escalation | 31,520 | 13,520 | 26,160 | 71,200 |
| G. Total | 189,130 | 81,130 | 156,940 | 427,200 |
| (1,000 US\$) | (29,368) | (12,598) | (24,370) | (66,335) |
| (US\$ per ha) | (1,161) | (498) | (963) | (2,621) |

Unit Cost of Irrigation and drainage aspect

(58,990 + 37,690 + 5,330) ÷ 25,300 ha = 4,032

Say 4,100 Kyat/ha

| | Total | 6,931 | 15,878 | 7,226 | 9,199 | 10,717 | 6,642 | 6,002 | 15,160 | 15,388 | 27,683 | 9,250 | 9,705 | 16,064 | | | at | ъ |
|------------------------------------------------------------------------|-----------------------|-----------|-----------|----------|-----------|---------------|--------------|-----------------|----------|----------------|--------------|------------|---------------|---------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 000, Ks) | Cost | 390 | 164 | 712 | 587 | 164 | 1,769 | 1,129 | 2,400 | 1,364 | 1,608 | 584 | 1,384 | 1,152 | | on data | 2.0 m/sec | ion work |
| Cost ₂ Fstimate ('000 ₃ Ks) Gate ² | Length (m) | 24.4 | 10.3 | 44.5 | 36.7 | 30.7 | 110.6 | 70.6 | 150.0 | 85.3 | 100.5 | 36.5 | 86.5 | 72.0 | | estimated based | | a protect |
| Cost ₂ Fst Gate | etc. | 4,196 | 13,369 | 4,169 | 6,267 | 7,881 | 2,528 | 2,528 | 8,070 | 9 , 334 | 21,385 | 6,321 | 3,631 | 10,222 | | is estima | <pre>simum velocit oding period.</pre> | lder, slope |
| Intake ¹ / | etc. | 2,345 | 2,345 | 2,345 | 2,345 | 2,345 | 2,345 | 2,345 | 4,690 | 4,690 | 4,690 | 2,345 | 4,690 | 4,690 | | sg.km. /sec/sg.km | on the may juring floc | s, fish rud |
| Gate | Width (m) | 15.6 | 49.7 | 15.5 | 23.3 | 29.3 | η . Θ | н .е | 30.0 | 34.7 | 79.5 | 23.5 | 13.5 | 38.0 | | cu.m/sec/s 3.3 cu.m/ n river. | ted based of 5.5 m (| facilitie |
| | Q (cu.m/sec) | 172 | 547 | 171 | 257 | 439 | 291 | 291 | 330 | 382 | 875 | 129 | 148 | 8TH | | ge = CA x 3.3 (lischarge of ne Kadinbili | width is carculated based on the maximum velocity of and gate height of 5.5 m during flooding period. | is including intake facilities, fish rudder, slope protection works butments. |
| | <u>C.A</u> (sq.km) | 52.1 | 165.8 | 51,8 | 77.8 | 132.9 | 88.3 | 88.3 | 100.0 | 115.8 | 265.2 | 39.1 | 6° ht | 126.8 | Catchment Area | <pre>Flood discharge = CA x 3.3 cu.m/sec/sq.km. The specific discharge of 3.3 cu.m/sec/sq.km is observed on the Kadinbilin river.</pre> | The gate width the gate and g | This is incluc and abutments. |
| | Project | 1. Taunyo | 2. Bawbin | 3. Gamon | 4. Winhla | 5. Kadinbilin | 6. Thonze | 7. Okkan | 8. Mamya | 9. Mankathu | 10. Nankdthu | ll. Mezili | 12. South Kun | 13. Kyetpaung | Note: C.A | Q | | 77 |

Slide-gate type.

21 21

The unit cost of the South Nawin Irrigation Project is applied.

COST ESTIMATE OF DIVERSION DAM

| | | | | | | | | | | | | | | | | | | | | | | | | | r | ag | e-b |
|-------------------|---------------------------------|--------------|--------------------------|-----------------|-----------|-----------|----------|----------------|---------------|-----------|-----------|----------|---------------|----------|--------------|---------------|-----------------|--------------|-----------|-------------|--------------|-----------------|------------|------------|---------------|-----------------|-----|
| Kyat) | | | Total 5 to 8 | 293,438 | 177,174 | 182,006 | 101,137 | 103,921 | 157,054 | 118,240 | 291,689 | 228,484 | 19,462 | 77,468 | 26,984 | 114,600 | 144 . 68 | 55,368 | 215,750 | 206,682, | 229,246 | 250,43B | 225,470 | 211,730 | 208,793 | 58,008 | |
| (Unit: '000 Kyat) | land Consolidation | TAT THE LAND | Cost (42,800/ha | 92 , 400 | 52,920 | 36,400 | 30,240 | 22,400 | 53,200 | 36,120 | 82,600 | 86,800 | 3,920 | 13.720 | 7,000 | 22,400 | 14 °840 | 8,400 | 23,800 | 45,920 | 46,760 | 56,000 | 56,000 | 53,200 | 54,320 | 5,600 | |
| Ţ | Innd Cons | | Area (ha) | 33,000 | 18,900 | 13,000 | 4,500 | 9°00 | 19,000 | 12,900 | 39,500 | 31,000 | 1,400 | 005* 1 | 2,500 | 8,000 | 5,300 | 3,000 | 8,500 | 16,400 | 16,700 | 20,000 | 20,000 | 19,000 | 19,400 | 2,000 | |
| 1 | Lrrigation 6 Drainage Svetem | | Cost QK4,100/ha | 135,300 | 77,490 | 53,300 | 18,450 | 32,800 | 77,900 | 52,890 | 161,950 | 127,100 | 5,740 | 20,090 | 10,250 | 32,800 | 21,730 | 12,300 | 34,850 | 67,240 | 68,470 | 92,000 | 82,000 | 77,900 | 79,540 | 8,200 | |
| 1 | Grainad Drainad | 90111011 | Arca (ha) | 33,000 | 18,900 | 13,000 | 4,500 | 8,000 | 19,000 | 12,900 | 39,500 | 31,000 | 1,400 | 006 1 | 2,500 | 8,000 | 5,300 | 3,000 | 8,500 | 16,400 | 16,700 | 20,000 | 20,000 | 19,000 | 19,400 | 2,000 | |
| | Diversion Dam | | Cost | ı | 6,931 | 15,878 | 7,226 | 66 t °6 | 10,717 | ı | 6,642 | 6,002 | ı | ı | r | 1 | ı | • | 15,IGO | ı | 15,368 | 27,683 | ı | 9,250 | 9,705 | 16,064 | |
| | Diversi | 10.10 | <u>Length</u> (m) · | ı | 011 | 60 | 60 | 60 | 60 | ł | 120 | 80 | ı | ı | ł | 1 | ı | • | 180 | ı | 120 | 180 | ı | 60 | 100 | 110 | • |
| | | Sub- | total 1 to 4 | 65,738 | 39,833 | 76,428 | 45,221 | 39,522 | 15,237 | 29,230 | 10,497 | 8,582 | 9,802 | 43,658 | 9,734 | 59,400 | 46,871 | 34,668 | 040,141 | 93,522 | 98,628 | 84 , 755 | 87,470 | 71,380 | 65,228 | 28 , 144 | |
| | | | Intake (8.4%) | 3,771 | 2,285 | 4,385 | 2,594 | 2,267 | 874 | 1,677 | 2,323 | 76h | 562 | 2,230 | 558 | 3,035 | 2°334 | 1,771 | 7,252 | 4,778 | 5,039 | 4,330 | 4,469 | . 3,647 | 3,332 | 1,614 | |
| | at | | <u>Spillway</u> (25%) | 11,226 | 6,802 | 13,051 | 7,722 | 6+1,8 | 2,602 | 166'tı | 6,915 | 1,465 | 1,674 | 6,373 | 1,662 | 8,671 | 6,842 | 5,061 | 20,721 | 13,653 | 14,5398 | 12,373 | 12,769 | 10,420 | 9,522 | 4,806 | |
| 1 | EPA CO | Other Earth | Horks (13%) | 5,837 | 3,537 | 6,786 | 4,015 | 3,509 | 1,353 | 2,595 | 3,596 | 762 | 870 | 3,186 | 064 | 4,335 | 3,421 | 2,530 | 10,350 | 5,826 | 7,159 | 5,186 | 6,384 | 5,210 | 4,761 | 2,499 | |
| | | Earth | 1 | 410 ° 101 | 27,209 | 52,206 | 30,890 | 26,997 | 10,408 | 19,967 | 27,663 | 5,863 | 6,696 | 31,869 | 6,650 | 43,359 | 34,214 | 25,306 | 103,607 | 68,265 | 71,992 | 61,855 | 63,848 | 52,103 | 47,613 | 19,225 | |
| | Embank- | ment | Vol. ('000 cu.m) | 2,964 | 1,796 | 3,446 | 2,039 | 1,782 | 687 | 1,318 | 1,826 | 387 | 244 | 1,753 | 6C 11 | 2,385 | 1,682 | 1,392 | 5,699 | 3,755 | . 3,960 | 3,403 | 3,512 | 2,866 | 2,619 ` | 1,269 | |
| | of | Irrigation | Project | l. Hegyî | 2. Taunyo | 3. Bawbin | 4. Gamon | 5. Minhla | 6. Kadinbilin | 7. Thegaw | B. Thonze | 9. Okkan | 10. Nyangging | 11. Buyo | 12. Thaledan | 13. Alcnmoyak | 14. North hun | 15. Phatshin | 16. Mamya | 17. Kyanyin | 19. Mankathu | 19. Nankathu | 20. Gyat . | 21. Mezili | 22. South Kun | 23. Kyetpaung | • |

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COST ESTIMATE

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APPENDIX D-9 COST ESTIMATE FOR PILOT LAND CONSOLIDATION

| | Description | <u>Total</u> ('000 K) | Foreign Currency ('000 K) | Local Currency ('000 K) |
|-----|-------------------------------------|--------------------------|---------------------------------|-------------------------------|
| 1. | Irrigation & Drainage Facilities | | | |
| | Pumping Station | 8,600 | 8,100 | 500 |
| | Check-up Weir | 2,000 | 1,200 | 800 |
| | Irrigation & Drainage Canals | 5,200 | 300 | 4,900 |
| | Sub-total | 15,800 | 9,600 | 6,200 |
| 2. | Land Consolidation (3,000 ac) | 6,000 | 1,800 | 4,200 |
| З. | Compensation | 500 | - | 500 |
| 4. | Construction Equipment | 2,000 | 2,000 | - |
| 5. | Agri. Development | 6,300 | 6,300 | _ |
| 6. | O & M Cost | 1,600 | 1,000 | 600 |
| 7. | Project Facilities | 2,100 | 100 | 2,000 |
| 8. | Engineering Fee | 5,100 | 4,600 | 500 |
| | Total | 39,400 | 25,400 | 14,000 |
| 9. | Contingency (15%) | 5,900 | 3,800 | 2,100 |
| 10. | Price Escalation (20%) | 9,000 | 5,800 | 3,200 |
| | Grand Total | 54,300 | 35,000 | 19,300 |

NOTE: Based on the South Nawin Irrigation Project.

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