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Subject: time-series monthly averages rainfall  
Posted by [k\\_ghreep](#) on Mon, 21 May 2012 19:06:38 GMT  
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Dear all,

I wrote my own code to calculate a time-series monthly averages rainfall .

the measured data are recorded as follows

+++++

|            |       |
|------------|-------|
| 9/15/1988  | 0.00  |
| 9/16/1988  | 0.20  |
| 9/17/1988  | 0.00  |
| 9/18/1988  | 0.00  |
| 9/19/1988  | 19.70 |
| 9/20/1988  | 0.00  |
| 9/21/1988  | 0.00  |
| 9/22/1988  | 0.00  |
| 9/23/1988  | 0.00  |
| 9/24/1988  | 0.00  |
| 9/25/1988  | 0.00  |
| 9/26/1988  | 0.00  |
| 9/27/1988  | 0.00  |
| 9/28/1988  | 0.00  |
| 9/29/1988  | 0.00  |
| 9/30/1988  | 0.00  |
| 10/1/1988  | 0.00  |
| 10/2/1988  | 0.00  |
| 10/3/1988  | 0.00  |
| 10/4/1988  | 0.00  |
| 10/5/1988  | 0.00  |
| 10/6/1988  | 0.00  |
| 10/7/1988  | 0.00  |
| 10/8/1988  | 0.00  |
| 10/9/1988  | 0.00  |
| 10/10/1988 | 0.00  |
| 10/11/1988 | 0.00  |
| 10/12/1988 | 0.00  |
| 10/13/1988 | 0.00  |
| 10/14/1988 | 0.00  |
| 10/15/1988 | 0.00  |
| 10/16/1988 | 0.00  |
| 10/17/1988 | 0.00  |
| 10/18/1988 | 0.00  |
| 10/19/1988 | 0.00  |
| 10/20/1988 | 0.20  |
| 10/21/1988 | 0.00  |
| 10/22/1988 | 2.10  |
| 10/23/1988 | 5.30  |

|            |        |
|------------|--------|
| 10/24/1988 | 3.30   |
| 10/25/1988 | 0.00   |
| 10/26/1988 | 0.00   |
| 10/27/1988 | 0.00   |
| 10/28/1988 | 0.00   |
| 10/29/1988 | 0.00   |
| 10/30/1988 | 0.00   |
| 10/31/1988 | 0.00   |
| 11/1/1988  | 0.00   |
| 11/2/1988  | 0.00   |
| 11/3/1988  | 0.00   |
| 11/4/1988  | 0.00   |
| 11/5/1988  | 0.00   |
| 11/6/1988  | 0.20   |
| 11/7/1988  | 0.30   |
| 11/8/1988  | 0.00   |
| 11/9/1988  | 0.00   |
| 11/10/1988 | 0.00   |
| 11/11/1988 | 0.00   |
| 11/12/1988 | 0.00   |
| 11/13/1988 | 0.00   |
| 11/14/1988 | 0.00   |
| 11/15/1988 | 0.80   |
| 11/16/1988 | 3.10   |
| 11/17/1988 | 0.30   |
| 11/18/1988 | 0.00   |
| 11/19/1988 | 0.00   |
| 11/20/1988 | 0.00   |
| 11/21/1988 | 0.00   |
| 11/22/1988 | 0.00   |
| 11/23/1988 | 1.10   |
| 12/1/1988  | 3.80   |
| 12/2/1988  | 0.00   |
| 12/3/1988  | 0.00   |
| 12/4/1988  | 3.60   |
| 12/5/1988  | 0.00   |
| 12/6/1988  | 0.00   |
| 12/7/1988  | 0.00   |
| 12/8/1988  | 113.00 |
| 12/9/1988  | 6.60   |
| 12/10/1988 | 23.60  |
| 12/11/1988 | 20.00  |
| 12/12/1988 | 11.00  |
| 12/13/1988 | 0.00   |
| 12/14/1988 | 29.00  |
| 12/15/1988 | 0.00   |
| 12/16/1988 | 6.00   |
| 12/17/1988 | 0.90   |

|            |       |
|------------|-------|
| 12/18/1988 | 1.70  |
| 12/19/1988 | 6.80  |
| 12/20/1988 | 0.00  |
| 12/21/1988 | 0.00  |
| 12/22/1988 | 21.00 |
| 12/23/1988 | 4.00  |
| 12/24/1988 | 0.00  |
| 12/25/1988 | 0.00  |
| 12/26/1988 | 0.00  |
| 12/27/1988 | 0.00  |
| 12/28/1988 | 0.00  |
| 12/29/1988 | 0.20  |
| 12/30/1988 | 8.20  |
| 12/31/1988 | 2.50  |
| 1/1/1989   | 7.80  |
| 1/2/1989   | 5.80  |
| 1/3/1989   | 9.00  |
| 1/4/1989   | 3.20  |
| 1/5/1989   | 0.50  |
| 1/6/1989   | 20.00 |
| 1/7/1989   | 0.00  |
| 1/8/1989   | 0.00  |
| 1/9/1989   | 0.00  |
| 1/10/1989  | 0.00  |
| 1/11/1989  | 0.00  |
| 1/12/1989  | 0.00  |
| 1/13/1989  | 0.00  |
| 1/14/1989  | 0.00  |
| 1/15/1989  | 0.00  |
| 1/16/1989  | 0.00  |
| 1/17/1989  | 0.00  |
| 1/18/1989  | 0.00  |
| 1/19/1989  | 0.00  |
| 1/20/1989  | 0.00  |
| 1/21/1989  | 0.00  |
| 1/22/1989  | 0.00  |
| 1/23/1989  | 0.00  |
| 1/24/1989  | 5.00  |
| 1/25/1989  | 19.30 |
| 1/26/1989  | 1.40  |
| 1/27/1989  | 0.00  |
| 1/28/1989  | 0.00  |
| 1/29/1989  | 0.00  |
| 1/30/1989  | 0.00  |
| 1/31/1989  | 0.00  |
| 2/1/1989   | 0.00  |
| 2/2/1989   | 0.00  |
| 2/3/1989   | 0.00  |

|           |       |
|-----------|-------|
| 2/4/1989  | 0.00  |
| 2/5/1989  | 0.00  |
| 2/6/1989  | 0.00  |
| 2/7/1989  | 0.00  |
| 2/8/1989  | 0.00  |
| 2/9/1989  | 0.00  |
| 2/10/1989 | 0.00  |
| 2/11/1989 | 0.00  |
| 2/12/1989 | 0.00  |
| 2/13/1989 | 0.00  |
| 2/14/1989 | 0.00  |
| 2/15/1989 | 7.00  |
| 2/16/1989 | 7.60  |
| 2/17/1989 | 0.00  |
| 3/1/1989  | 0.00  |
| 3/2/1989  | 0.00  |
| 3/3/1989  | 0.00  |
| 3/4/1989  | 0.00  |
| 3/5/1989  | 0.00  |
| 3/6/1989  | 0.00  |
| 3/7/1989  | 0.00  |
| 3/8/1989  | 0.00  |
| 3/9/1989  | 5.70  |
| 3/10/1989 | 17.10 |
| 3/11/1989 | 2.50  |
| 3/12/1989 | 0.00  |
| 3/13/1989 | 0.00  |
| 3/14/1989 | 0.00  |
| 3/15/1989 | 0.00  |
| 3/16/1989 | 0.00  |
| 3/17/1989 | 0.00  |
| 3/18/1989 | 0.00  |
| 3/19/1989 | 0.00  |
| 3/20/1989 | 0.00  |
| 3/21/1989 | 0.00  |
| 3/22/1989 | 5.90  |
| 3/23/1989 | 4.00  |
| 3/24/1989 | 57.10 |
| 3/25/1989 | 0.00  |
| 3/26/1989 | 0.00  |
| 3/27/1989 | 0.00  |
| 3/28/1989 | 0.00  |
| 3/29/1989 | 0.00  |
| 3/30/1989 | 0.00  |
| 3/31/1989 | 0.00  |
| 4/1/1989  | 0.00  |
| 4/2/1989  | 0.00  |
| 4/3/1989  | 0.00  |

|           |      |
|-----------|------|
| 4/4/1989  | 0.00 |
| 4/5/1989  | 0.00 |
| 4/6/1989  | 0.00 |
| 4/7/1989  | 0.00 |
| 4/8/1989  | 0.00 |
| 4/9/1989  | 0.00 |
| 4/10/1989 | 0.00 |
| 4/11/1989 | 0.00 |
| 4/12/1989 | 0.00 |
| 4/13/1989 | 0.00 |
| 4/14/1989 | 0.00 |
| 4/15/1989 | 0.00 |
| 4/16/1989 | 0.00 |
| 4/17/1989 | 0.00 |
| 4/18/1989 | 0.00 |
| 4/19/1989 | 0.00 |
| 4/20/1989 | 0.00 |
| 4/21/1989 | 0.00 |
| 4/22/1989 | 0.00 |
| 4/23/1989 | 0.00 |
| 4/24/1989 | 0.00 |
| 4/25/1989 | 0.00 |
| 4/26/1989 | 0.00 |
| 4/27/1989 | 0.00 |
| 4/28/1989 | 0.00 |
| 4/29/1989 | 0.00 |
| 4/30/1989 | 0.00 |
| 7/1/1989  | 0.00 |
| 7/2/1989  | 0.00 |
| 7/3/1989  | 0.00 |
| 7/4/1989  | 0.00 |
| 7/5/1989  | 0.00 |
| 7/6/1989  | 0.00 |
| 7/7/1989  | 0.00 |
| 7/8/1989  | 0.00 |
| 7/9/1989  | 0.00 |
| 7/10/1989 | 0.00 |
| 7/11/1989 | 0.00 |
| 7/12/1989 | 0.00 |
| 7/13/1989 | 0.00 |
| 7/14/1989 | 0.00 |
| 7/15/1989 | 0.00 |
| 7/16/1989 | 0.00 |
| 7/17/1989 | 0.00 |
| 7/18/1989 | 0.00 |
| 7/19/1989 | 0.00 |
| 7/20/1989 | 0.00 |
| 7/21/1989 | 0.00 |

|           |      |
|-----------|------|
| 7/22/1989 | 0.00 |
| 7/23/1989 | 0.00 |
| 7/24/1989 | 0.00 |
| 7/25/1989 | 0.00 |
| 7/26/1989 | 0.00 |
| 7/27/1989 | 0.00 |
| 7/28/1989 | 0.00 |
| 7/29/1989 | 0.00 |
| 7/30/1989 | 0.00 |
| 7/31/1989 | 0.00 |
| 8/1/1989  | 0.00 |
| 8/2/1989  | 0.00 |
| 8/3/1989  | 0.00 |
| 8/4/1989  | 0.00 |
| 8/5/1989  | 0.00 |
| 8/6/1989  | 0.00 |
| 8/7/1989  | 0.00 |
| 8/8/1989  | 0.00 |
| 8/9/1989  | 0.00 |
| 8/10/1989 | 0.00 |
| 8/11/1989 | 0.00 |
| 8/12/1989 | 0.00 |
| 8/13/1989 | 0.00 |
| 8/14/1989 | 0.00 |
| 8/15/1989 | 0.00 |
| 8/16/1989 | 0.00 |
| 8/17/1989 | 0.00 |
| 8/18/1989 | 0.00 |
| 8/19/1989 | 0.00 |
| 8/20/1989 | 0.00 |
| 8/21/1989 | 0.00 |
| 8/22/1989 | 0.00 |
| 8/23/1989 | 0.00 |
| 8/24/1989 | 0.00 |
| 8/25/1989 | 0.00 |
| 8/26/1989 | 0.00 |
| 8/27/1989 | 0.00 |
| 8/28/1989 | 0.00 |
| 8/29/1989 | 0.00 |
| 8/30/1989 | 0.00 |
| 8/31/1989 | 0.00 |
| 9/1/1989  | 0.00 |
| 9/2/1989  | 0.00 |
| 9/3/1989  | 0.00 |
| 9/4/1989  | 0.00 |
| 9/5/1989  | 0.00 |
| 9/6/1989  | 0.00 |
| 9/7/1989  | 0.00 |

|            |      |
|------------|------|
| 9/8/1989   | 0.00 |
| 9/9/1989   | 0.00 |
| 9/10/1989  | 0.00 |
| 9/11/1989  | 0.00 |
| 9/12/1989  | 0.00 |
| 9/13/1989  | 0.00 |
| 9/14/1989  | 0.00 |
| 9/15/1989  | 0.00 |
| 9/16/1989  | 0.00 |
| 9/17/1989  | 0.00 |
| 9/18/1989  | 0.00 |
| 9/19/1989  | 0.00 |
| 9/20/1989  | 0.00 |
| 9/21/1989  | 0.00 |
| 9/22/1989  | 0.00 |
| 9/23/1989  | 0.00 |
| 9/24/1989  | 0.00 |
| 9/25/1989  | 0.00 |
| 9/26/1989  | 0.00 |
| 9/27/1989  | 0.00 |
| 9/28/1989  | 0.00 |
| 9/29/1989  | 0.00 |
| 9/30/1989  | 0.00 |
| 10/1/1989  | 2.20 |
| 10/2/1989  | 0.00 |
| 10/3/1989  | 0.00 |
| 10/4/1989  | 0.00 |
| 10/5/1989  | 0.00 |
| 10/6/1989  | 0.00 |
| 10/7/1989  | 0.00 |
| 10/8/1989  | 0.00 |
| 10/9/1989  | 0.00 |
| 10/10/1989 | 0.00 |
| 10/11/1989 | 0.00 |
| 10/12/1989 | 0.00 |
| 10/13/1989 | 0.00 |
| 10/14/1989 | 0.00 |
| 10/15/1989 | 0.00 |
| 10/16/1989 | 0.00 |
| 10/17/1989 | 0.00 |
| 10/18/1989 | 0.00 |
| 10/19/1989 | 0.00 |
| 10/20/1989 | 0.00 |
| 10/21/1989 | 0.00 |
| 10/22/1989 | 6.00 |
| 10/23/1989 | 0.00 |
| 10/24/1989 | 0.00 |
| 10/25/1989 | 3.80 |

|            |       |
|------------|-------|
| 10/26/1989 | 2.40  |
| 10/27/1989 | 0.00  |
| 10/28/1989 | 0.00  |
| 10/29/1989 | 0.00  |
| 10/30/1989 | 15.00 |
| 10/31/1989 | 5.70  |
| 11/1/1989  | 0.00  |
| 11/2/1989  | 0.00  |
| 11/3/1989  | 0.00  |
| 11/4/1989  | 0.00  |
| 11/5/1989  | 0.00  |
| 11/6/1989  | 0.00  |
| 11/7/1989  | 0.00  |
| 11/8/1989  | 0.00  |
| 11/9/1989  | 0.00  |
| 11/10/1989 | 0.00  |
| 11/11/1989 | 0.00  |
| 11/12/1989 | 0.00  |
| 11/13/1989 | 0.00  |
| 11/14/1989 | 0.00  |
| 11/15/1989 | 0.00  |
| 11/16/1989 | 0.00  |
| 11/17/1989 | 0.00  |
| 11/18/1989 | 0.00  |
| 11/19/1989 | 0.00  |
| 11/20/1989 | 0.00  |
| 11/21/1989 | 0.00  |
| 11/22/1989 | 0.00  |
| 11/23/1989 | 0.00  |
| 11/24/1989 | 0.00  |
| 11/25/1989 | 0.00  |
| 11/26/1989 | 0.00  |
| 11/27/1989 | 21.00 |
| 11/28/1989 | 3.70  |
| 11/29/1989 | 0.00  |
| 11/30/1989 | 0.00  |
| 12/1/1989  | 9.10  |
| 12/2/1989  | 0.00  |
| 12/3/1989  | 0.00  |
| 12/4/1989  | 0.00  |
| 12/5/1989  | 0.00  |
| 12/6/1989  | 0.00  |
| 12/7/1989  | 0.00  |
| 12/8/1989  | 0.00  |
| 12/9/1989  | 0.00  |
| 12/10/1989 | 0.00  |
| 12/11/1989 | 0.00  |
| 12/12/1989 | 0.00  |



|            |       |
|------------|-------|
| 12/13/1989 | 0.00  |
| 12/14/1989 | 0.00  |
| 12/15/1989 | 0.00  |
| 12/16/1989 | 0.00  |
| 12/17/1989 | 0.00  |
| 12/18/1989 | 0.00  |
| 12/19/1989 | 0.00  |
| 12/20/1989 | 0.00  |
| 12/21/1989 | 0.00  |
| 12/22/1989 | 0.00  |
| 12/23/1989 | 0.00  |
| 12/24/1989 | 0.50  |
| 12/25/1989 | 0.00  |
| 12/26/1989 | 0.00  |
| 12/27/1989 | 0.00  |
| 12/28/1989 | 0.00  |
| 12/29/1989 | 0.00  |
| 12/30/1989 | 0.00  |
| 12/31/1989 | 0.00  |
| 1/1/1990   | 14.60 |
| 1/2/1990   | 1.00  |
| 1/3/1990   | 0.00  |
| 1/4/1990   | 0.10  |
| 1/5/1990   | 1.00  |
| 1/6/1990   | 2.60  |
| 1/7/1990   | 1.00  |
| 1/8/1990   | 0.00  |
| 1/9/1990   | 0.00  |
| 1/10/1990  | 0.00  |
| 1/11/1990  | 0.00  |
| 1/12/1990  | 0.90  |
| 1/13/1990  | 0.00  |
| 1/14/1990  | 7.50  |
| 1/15/1990  | 10.00 |
| 1/16/1990  | 0.50  |
| 1/17/1990  | 0.00  |
| 1/18/1990  | 5.20  |
| 1/19/1990  | 11.10 |
| 1/20/1990  | 11.30 |
| 1/21/1990  | 5.60  |
| 1/22/1990  | 0.00  |
| 1/23/1990  | 0.00  |
| 1/24/1990  | 5.80  |
| 1/25/1990  | 0.60  |
| 1/26/1990  | 0.00  |
| 1/27/1990  | 0.00  |
| 1/28/1990  | 0.00  |
| 1/29/1990  | 1.70  |

|           |      |
|-----------|------|
| 1/30/1990 | 0.00 |
| 1/31/1990 | 0.00 |
| 2/1/1990  | 0.00 |
| 2/2/1990  | 0.00 |
| 2/3/1990  | 0.00 |
| 2/4/1990  | 0.00 |
| 2/5/1990  | 0.00 |
| 2/6/1990  | 0.00 |
| 2/7/1990  | 0.00 |
| 2/8/1990  | 0.00 |
| 2/9/1990  | 0.00 |
| 2/10/1990 | 0.00 |
| 2/11/1990 | 0.00 |
| 2/12/1990 | 0.00 |
| 2/13/1990 | 0.00 |
| 2/14/1990 | 0.00 |
| 2/15/1990 | 0.00 |
| 2/16/1990 | 0.00 |
| 2/17/1990 | 0.00 |
| 2/18/1990 | 0.00 |
| 2/19/1990 | 0.00 |
| 2/20/1990 | 0.00 |
| 2/21/1990 | 0.00 |
| 2/22/1990 | 1.30 |
| 2/23/1990 | 0.00 |
| 2/24/1990 | 0.00 |
| 2/25/1990 | 0.00 |
| 2/26/1990 | 0.00 |
| 2/27/1990 | 0.00 |
| 2/28/1990 | 0.00 |
| 3/1/1990  | 0.00 |
| 3/2/1990  | 0.00 |
| 3/3/1990  | 0.00 |
| 3/4/1990  | 0.00 |
| 3/5/1990  | 0.00 |
| 3/6/1990  | 0.00 |
| 3/7/1990  | 0.00 |
| 3/8/1990  | 0.00 |
| 3/9/1990  | 0.00 |
| 3/10/1990 | 0.00 |
| 3/11/1990 | 0.00 |
| 3/12/1990 | 0.00 |
| 3/13/1990 | 0.00 |
| 3/14/1990 | 0.00 |
| 3/15/1990 | 0.00 |
| 3/16/1990 | 0.00 |
| 3/17/1990 | 3.00 |
| 3/18/1990 | 0.00 |

|           |       |
|-----------|-------|
| 3/19/1990 | 0.00  |
| 3/20/1990 | 0.00  |
| 3/21/1990 | 0.00  |
| 3/22/1990 | 0.00  |
| 3/23/1990 | 0.00  |
| 3/24/1990 | 0.00  |
| 3/25/1990 | 0.00  |
| 3/26/1990 | 0.00  |
| 3/27/1990 | 0.00  |
| 3/28/1990 | 0.00  |
| 3/29/1990 | 0.00  |
| 3/30/1990 | 0.00  |
| 3/31/1990 | 1.50  |
| 4/1/1990  | 0.00  |
| 4/2/1990  | 2.00  |
| 4/3/1990  | 0.00  |
| 4/4/1990  | 0.00  |
| 4/5/1990  | 0.00  |
| 4/6/1990  | 0.00  |
| 4/7/1990  | 0.00  |
| 4/8/1990  | 0.00  |
| 4/9/1990  | 0.00  |
| 4/10/1990 | 0.00  |
| 4/11/1990 | 0.00  |
| 4/12/1990 | 0.00  |
| 4/13/1990 | 0.00  |
| 4/14/1990 | 0.00  |
| 4/15/1990 | 0.00  |
| 4/16/1990 | 0.00  |
| 4/17/1990 | 0.00  |
| 4/18/1990 | 0.00  |
| 4/19/1990 | 0.00  |
| 4/20/1990 | 0.00  |
| 4/21/1990 | 0.00  |
| 4/22/1990 | 0.00  |
| 4/23/1990 | 0.00  |
| 4/24/1990 | 0.00  |
| 4/25/1990 | 3.70  |
| 4/26/1990 | 0.00  |
| 4/27/1990 | 0.00  |
| 4/28/1990 | 0.00  |
| 4/29/1990 | 19.50 |
| 4/30/1990 | 1.50  |
| 5/1/1990  | 0.00  |
| 5/2/1990  | 0.00  |
| 5/3/1990  | 0.00  |
| 5/4/1990  | 3.10  |
| 5/5/1990  | 0.00  |

|           |      |
|-----------|------|
| 5/6/1990  | 0.60 |
| 5/7/1990  | 0.10 |
| 5/8/1990  | 0.00 |
| 5/9/1990  | 0.00 |
| 5/10/1990 | 0.00 |
| 5/11/1990 | 0.00 |
| 5/12/1990 | 5.00 |
| 5/13/1990 | 0.50 |
| 5/14/1990 | 0.00 |
| 5/15/1990 | 0.00 |
| 5/16/1990 | 0.00 |
| 5/17/1990 | 0.00 |
| 5/18/1990 | 0.00 |
| 5/19/1990 | 0.00 |
| 5/20/1990 | 0.00 |
| 5/21/1990 | 0.00 |
| 5/22/1990 | 0.00 |
| 5/23/1990 | 0.00 |
| 5/24/1990 | 0.00 |
| 5/25/1990 | 0.00 |
| 5/26/1990 | 0.00 |
| 5/27/1990 | 0.00 |
| 5/28/1990 | 0.00 |
| 5/29/1990 | 1.00 |
| 5/30/1990 | 0.00 |
| 5/31/1990 | 0.00 |
| 6/1/1990  | 0.00 |
| 6/2/1990  | 0.00 |
| 6/3/1990  | 0.00 |
| 6/4/1990  | 0.00 |
| 6/5/1990  | 0.00 |
| 6/6/1990  | 0.00 |
| 6/7/1990  | 0.00 |
| 6/8/1990  | 0.00 |
| 6/9/1990  | 0.00 |
| 6/10/1990 | 0.00 |
| 6/11/1990 | 0.00 |
| 6/12/1990 | 0.00 |
| 6/13/1990 | 0.00 |
| 6/14/1990 | 0.00 |
| 6/15/1990 | 0.00 |
| 6/16/1990 | 0.00 |
| 6/17/1990 | 0.00 |
| 6/18/1990 | 0.00 |
| 6/19/1990 | 0.00 |
| 6/20/1990 | 0.00 |
| 6/21/1990 | 0.00 |
| 6/22/1990 | 0.00 |

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|-----------|------|
| 6/23/1990 | 0.00 |
| 6/24/1990 | 0.00 |
| 6/25/1990 | 0.00 |
| 6/26/1990 | 0.00 |
| 6/27/1990 | 0.00 |
| 6/28/1990 | 0.00 |
| 6/29/1990 | 0.00 |
| 6/30/1990 | 0.00 |
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| 7/2/1990  | 0.00 |
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| 7/8/1990  | 0.00 |
| 7/9/1990  | 0.00 |
| 7/10/1990 | 0.00 |
| 7/11/1990 | 0.00 |
| 7/12/1990 | 0.00 |
| 7/13/1990 | 0.00 |
| 7/14/1990 | 0.70 |
| 7/15/1990 | 0.00 |
| 7/16/1990 | 0.00 |
| 7/17/1990 | 0.00 |
| 7/18/1990 | 0.00 |
| 7/19/1990 | 0.00 |
| 7/20/1990 | 0.00 |
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| 7/22/1990 | 0.00 |
| 7/23/1990 | 0.00 |
| 7/24/1990 | 0.00 |
| 7/25/1990 | 0.00 |
| 7/26/1990 | 0.00 |
| 7/27/1990 | 0.00 |
| 7/28/1990 | 0.00 |
| 7/29/1990 | 0.00 |
| 7/30/1990 | 0.00 |
| 7/31/1990 | 0.00 |
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| 8/2/1990  | 0.00 |
| 8/3/1990  | 0.00 |
| 8/4/1990  | 0.00 |
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| 8/7/1990  | 0.00 |
| 8/8/1990  | 0.00 |
| 8/9/1990  | 0.00 |

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| 8/11/1990 | 0.00 |
| 8/12/1990 | 0.00 |
| 8/13/1990 | 0.00 |
| 8/14/1990 | 0.00 |
| 8/15/1990 | 0.00 |
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| 8/17/1990 | 0.00 |
| 8/18/1990 | 0.00 |
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| 8/20/1990 | 0.00 |
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| 8/22/1990 | 0.00 |
| 8/23/1990 | 0.00 |
| 8/24/1990 | 0.00 |
| 8/25/1990 | 0.00 |
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| 8/27/1990 | 0.00 |
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| 8/29/1990 | 0.00 |
| 8/30/1990 | 0.00 |
| 8/31/1990 | 0.00 |
| 9/1/1990  | 0.00 |
| 9/2/1990  | 0.00 |
| 9/3/1990  | 0.00 |
| 9/4/1990  | 0.00 |
| 9/5/1990  | 0.00 |
| 9/6/1990  | 0.00 |
| 9/7/1990  | 0.00 |
| 9/8/1990  | 0.00 |
| 9/9/1990  | 0.00 |
| 9/10/1990 | 0.00 |
| 9/11/1990 | 0.00 |
| 9/12/1990 | 0.00 |
| 9/13/1990 | 0.00 |
| 9/14/1990 | 0.00 |
| 9/15/1990 | 0.00 |
| 9/16/1990 | 0.00 |
| 9/17/1990 | 0.00 |
| 9/18/1990 | 0.00 |
| 9/19/1990 | 0.00 |
| 9/20/1990 | 0.00 |
| 9/21/1990 | 0.00 |
| 9/22/1990 | 0.00 |
| 9/23/1990 | 0.00 |
| 9/24/1990 | 0.00 |
| 9/25/1990 | 0.00 |
| 9/26/1990 | 0.00 |

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|------------|-------|
| 9/27/1990  | 0.00  |
| 9/28/1990  | 0.00  |
| 9/29/1990  | 0.00  |
| 9/30/1990  | 0.00  |
| 10/1/1990  | 0.00  |
| 10/2/1990  | 0.00  |
| 10/3/1990  | 0.00  |
| 10/4/1990  | 0.00  |
| 10/5/1990  | 0.00  |
| 10/6/1990  | 0.00  |
| 10/7/1990  | 0.00  |
| 10/8/1990  | 0.00  |
| 10/9/1990  | 0.00  |
| 10/10/1990 | 0.00  |
| 10/11/1990 | 0.00  |
| 10/12/1990 | 0.00  |
| 10/13/1990 | 0.00  |
| 10/14/1990 | 0.00  |
| 10/15/1990 | 0.00  |
| 10/16/1990 | 0.00  |
| 10/17/1990 | 0.00  |
| 10/18/1990 | 0.00  |
| 10/19/1990 | 0.00  |
| 10/20/1990 | 0.00  |
| 10/21/1990 | 0.00  |
| 10/22/1990 | 0.00  |
| 10/23/1990 | 0.00  |
| 10/24/1990 | 0.00  |
| 10/25/1990 | 0.00  |
| 10/26/1990 | 0.00  |
| 10/27/1990 | 0.00  |
| 10/28/1990 | 0.00  |
| 10/29/1990 | 0.00  |
| 10/30/1990 | 0.00  |
| 10/31/1990 | 0.00  |
| 11/1/1990  | 0.00  |
| 11/2/1990  | 0.00  |
| 11/3/1990  | 0.00  |
| 11/4/1990  | 0.00  |
| 11/5/1990  | 0.40  |
| 11/6/1990  | 1.00  |
| 11/7/1990  | 0.00  |
| 11/8/1990  | 7.00  |
| 11/9/1990  | 5.00  |
| 11/10/1990 | 3.80  |
| 11/11/1990 | 0.00  |
| 11/12/1990 | 11.00 |
| 11/13/1990 | 40.00 |

|            |       |
|------------|-------|
| 11/14/1990 | 4.40  |
| 11/15/1990 | 47.80 |
| 11/16/1990 | 0.00  |
| 11/17/1990 | 0.60  |
| 11/18/1990 | 0.00  |
| 11/19/1990 | 0.00  |
| 11/20/1990 | 0.00  |
| 11/21/1990 | 0.00  |
| 11/22/1990 | 0.00  |
| 11/23/1990 | 1.50  |
| 11/24/1990 | 0.00  |
| 11/25/1990 | 0.00  |
| 11/26/1990 | 0.00  |
| 11/27/1990 | 0.00  |
| 11/28/1990 | 0.00  |
| 11/29/1990 | 0.00  |
| 11/30/1990 | 0.00  |
| 12/1/1990  | 0.00  |
| 12/2/1990  | 10.00 |
| 12/3/1990  | 0.00  |
| 12/4/1990  | 0.30  |
| 12/5/1990  | 0.00  |
| 12/6/1990  | 0.00  |
| 12/7/1990  | 0.00  |
| 12/8/1990  | 0.00  |
| 12/9/1990  | 0.00  |
| 12/10/1990 | 0.00  |
| 12/11/1990 | 0.00  |
| 12/12/1990 | 0.90  |
| 12/13/1990 | 0.00  |
| 12/14/1990 | 0.00  |
| 12/15/1990 | 0.00  |
| 12/16/1990 | 0.00  |
| 12/17/1990 | 0.00  |
| 12/18/1990 | 0.00  |
| 12/19/1990 | 0.00  |
| 12/20/1990 | 0.00  |
| 12/21/1990 | 0.00  |
| 12/22/1990 | 0.00  |
| 12/23/1990 | 0.00  |
| 12/24/1990 | 0.00  |
| 12/25/1990 | 0.00  |
| 12/26/1990 | 0.00  |
| 12/27/1990 | 0.00  |
| 12/28/1990 | 1.50  |
| 12/29/1990 | 0.00  |
| 12/30/1990 | 0.00  |
| 12/31/1990 | 0.00  |



|           |       |
|-----------|-------|
| 1/1/1991  | 0.00  |
| 1/2/1991  | 0.00  |
| 1/3/1991  | 0.00  |
| 1/4/1991  | 0.00  |
| 1/5/1991  | 0.00  |
| 1/6/1991  | 0.00  |
| 1/7/1991  | 0.00  |
| 1/8/1991  | 0.00  |
| 1/9/1991  | 0.00  |
| 1/10/1991 | 0.00  |
| 1/11/1991 | 0.00  |
| 1/12/1991 | 0.00  |
| 1/13/1991 | 0.00  |
| 1/14/1991 | 0.00  |
| 1/15/1991 | 0.00  |
| 1/16/1991 | 0.00  |
| 1/17/1991 | 26.00 |
| 1/18/1991 | 4.60  |
| 1/19/1991 | 2.00  |
| 1/20/1991 | 0.40  |
| 1/21/1991 | 0.00  |
| 1/22/1991 | 0.00  |
| 1/23/1991 | 0.00  |
| 1/24/1991 | 0.00  |
| 1/25/1991 | 0.20  |
| 1/26/1991 | 7.80  |
| 1/27/1991 | 2.80  |
| 1/28/1991 | 4.00  |
| 1/29/1991 | 1.10  |
| 1/30/1991 | 0.00  |
| 1/31/1991 | 0.00  |
| 2/1/1991  | 5.90  |
| 2/2/1991  | 0.00  |
| 2/3/1991  | 0.00  |
| 2/4/1991  | 10.80 |
| 2/5/1991  | 0.20  |
| 2/6/1991  | 0.00  |
| 2/7/1991  | 0.00  |
| 2/8/1991  | 0.00  |
| 2/9/1991  | 0.00  |
| 2/10/1991 | 0.00  |
| 2/11/1991 | 0.00  |
| 2/12/1991 | 0.00  |
| 2/13/1991 | 0.00  |
| 2/14/1991 | 0.00  |
| 2/15/1991 | 4.60  |
| 2/16/1991 | 0.00  |
| 2/17/1991 | 0.00  |

|           |      |
|-----------|------|
| 2/18/1991 | 0.00 |
| 2/19/1991 | 0.00 |
| 2/20/1991 | 0.00 |
| 2/21/1991 | 0.00 |
| 2/22/1991 | 0.00 |
| 2/23/1991 | 3.20 |
| 2/24/1991 | 5.50 |
| 2/25/1991 | 0.00 |
| 2/26/1991 | 0.00 |
| 2/27/1991 | 0.00 |
| 2/28/1991 | 0.00 |
| 3/1/1991  | 0.00 |
| 3/2/1991  | 0.40 |
| 3/3/1991  | 6.00 |
| 3/4/1991  | 0.00 |
| 3/5/1991  | 0.00 |
| 3/6/1991  | 0.00 |
| 3/7/1991  | 0.00 |
| 3/8/1991  | 0.00 |
| 3/9/1991  | 0.00 |
| 3/10/1991 | 0.00 |
| 3/11/1991 | 0.00 |
| 3/12/1991 | 0.00 |
| 3/13/1991 | 0.00 |
| 3/14/1991 | 0.00 |
| 3/15/1991 | 1.60 |
| 3/16/1991 | 0.70 |
| 3/17/1991 | 0.00 |
| 3/18/1991 | 5.90 |
| 3/19/1991 | 3.50 |
| 3/20/1991 | 0.00 |
| 3/21/1991 | 0.00 |
| 3/22/1991 | 0.00 |
| 3/23/1991 | 0.00 |
| 3/24/1991 | 0.00 |
| 3/25/1991 | 0.00 |
| 3/26/1991 | 0.00 |
| 3/27/1991 | 0.00 |
| 3/28/1991 | 0.00 |
| 3/29/1991 | 0.00 |
| 3/30/1991 | 0.00 |
| 3/31/1991 | 0.00 |
| 4/1/1991  | 0.00 |
| 4/2/1991  | 0.00 |
| 4/3/1991  | 0.00 |
| 4/4/1991  | 0.00 |
| 4/5/1991  | 0.90 |
| 4/6/1991  | 1.30 |

|           |       |
|-----------|-------|
| 4/7/1991  | 2.50  |
| 4/8/1991  | 0.00  |
| 4/9/1991  | 0.00  |
| 4/10/1991 | 0.00  |
| 4/11/1991 | 0.00  |
| 4/12/1991 | 0.00  |
| 4/13/1991 | 0.00  |
| 4/14/1991 | 0.00  |
| 4/15/1991 | 0.00  |
| 4/16/1991 | 0.00  |
| 4/17/1991 | 0.00  |
| 4/18/1991 | 0.00  |
| 4/19/1991 | 0.00  |
| 4/20/1991 | 0.00  |
| 4/21/1991 | 0.00  |
| 4/22/1991 | 0.00  |
| 4/23/1991 | 0.00  |
| 4/24/1991 | 0.00  |
| 4/25/1991 | 0.00  |
| 4/26/1991 | 0.00  |
| 4/27/1991 | 0.40  |
| 4/28/1991 | 0.00  |
| 4/29/1991 | 0.00  |
| 4/30/1991 | 0.00  |
| 5/1/1991  | 0.00  |
| 5/2/1991  | 0.00  |
| 5/3/1991  | 0.00  |
| 5/4/1991  | 0.00  |
| 5/5/1991  | 0.00  |
| 5/6/1991  | 0.00  |
| 5/7/1991  | 0.00  |
| 5/8/1991  | 0.00  |
| 5/9/1991  | 0.00  |
| 5/10/1991 | 0.00  |
| 5/11/1991 | 1.70  |
| 5/12/1991 | 2.30  |
| 5/13/1991 | 13.60 |
| 5/14/1991 | 0.80  |
| 5/15/1991 | 0.00  |
| 5/16/1991 | 0.00  |
| 5/17/1991 | 0.00  |
| 5/18/1991 | 0.00  |
| 5/19/1991 | 0.00  |
| 5/20/1991 | 0.00  |
| 5/21/1991 | 0.00  |
| 5/22/1991 | 8.00  |
| 5/23/1991 | 21.80 |
| 5/24/1991 | 0.00  |

|           |       |
|-----------|-------|
| 5/25/1991 | 0.00  |
| 5/26/1991 | 0.00  |
| 5/27/1991 | 0.00  |
| 5/28/1991 | 0.00  |
| 5/29/1991 | 0.00  |
| 5/30/1991 | 0.00  |
| 5/31/1991 | 0.40  |
| 6/1/1991  | 14.00 |
| 6/2/1991  | 0.00  |
| 6/3/1991  | 0.00  |
| 6/4/1991  | 0.00  |
| 6/5/1991  | 0.00  |
| 6/6/1991  | 0.00  |
| 6/7/1991  | 0.00  |
| 6/8/1991  | 0.00  |
| 6/9/1991  | 0.00  |
| 6/10/1991 | 0.00  |
| 6/11/1991 | 0.00  |
| 6/12/1991 | 0.00  |
| 6/13/1991 | 0.00  |
| 6/14/1991 | 0.00  |
| 6/15/1991 | 0.00  |
| 6/16/1991 | 0.00  |
| 6/17/1991 | 0.00  |
| 6/18/1991 | 0.00  |
| 6/19/1991 | 0.00  |
| 6/20/1991 | 0.00  |
| 6/21/1991 | 0.00  |
| 6/22/1991 | 0.00  |
| 6/23/1991 | 0.00  |
| 6/24/1991 | 0.00  |
| 6/25/1991 | 0.00  |
| 6/26/1991 | 0.00  |
| 6/27/1991 | 0.00  |
| 6/28/1991 | 0.00  |
| 6/29/1991 | 0.00  |
| 6/30/1991 | 0.00  |
| 7/1/1991  | 0.00  |
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| 7/3/1991  | 0.00  |
| 7/4/1991  | 0.00  |
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| 7/6/1991  | 0.00  |
| 7/7/1991  | 0.00  |
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| 7/9/1991  | 0.00  |
| 7/10/1991 | 0.00  |
| 7/11/1991 | 0.00  |

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| 7/12/1991 | 0.00 |
| 7/13/1991 | 0.00 |
| 7/14/1991 | 0.00 |
| 7/15/1991 | 0.00 |
| 7/16/1991 | 0.00 |
| 7/17/1991 | 0.00 |
| 7/18/1991 | 0.00 |
| 7/19/1991 | 0.00 |
| 7/20/1991 | 0.00 |
| 7/21/1991 | 0.00 |
| 7/22/1991 | 0.00 |
| 7/23/1991 | 0.00 |
| 7/24/1991 | 0.00 |
| 7/25/1991 | 0.00 |
| 7/26/1991 | 0.00 |
| 7/27/1991 | 0.00 |
| 7/28/1991 | 0.00 |
| 7/29/1991 | 0.00 |
| 7/30/1991 | 0.00 |
| 7/31/1991 | 0.00 |
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| 8/3/1991  | 0.00 |
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| 8/7/1991  | 0.00 |
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| 8/9/1991  | 0.00 |
| 8/10/1991 | 0.00 |
| 8/11/1991 | 0.00 |
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| 8/14/1991 | 0.00 |
| 8/15/1991 | 0.00 |
| 8/16/1991 | 0.00 |
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| 8/18/1991 | 0.00 |
| 8/19/1991 | 0.00 |
| 8/20/1991 | 0.00 |
| 8/21/1991 | 0.00 |
| 8/22/1991 | 0.00 |
| 8/23/1991 | 0.00 |
| 8/24/1991 | 0.00 |
| 8/25/1991 | 0.00 |
| 8/26/1991 | 0.00 |
| 8/27/1991 | 0.00 |
| 8/28/1991 | 0.00 |

|            |       |
|------------|-------|
| 8/29/1991  | 0.00  |
| 8/30/1991  | 0.00  |
| 8/31/1991  | 0.00  |
| 9/1/1991   | 0.00  |
| 9/2/1991   | 0.00  |
| 9/3/1991   | 0.00  |
| 9/4/1991   | 0.00  |
| 9/5/1991   | 0.00  |
| 9/6/1991   | 0.00  |
| 9/7/1991   | 0.00  |
| 9/8/1991   | 19.00 |
| 9/9/1991   | 0.30  |
| 9/10/1991  | 0.00  |
| 9/11/1991  | 0.00  |
| 9/12/1991  | 0.00  |
| 9/13/1991  | 0.00  |
| 9/14/1991  | 0.00  |
| 9/15/1991  | 0.00  |
| 9/16/1991  | 2.90  |
| 9/17/1991  | 0.00  |
| 9/18/1991  | 0.00  |
| 9/19/1991  | 0.00  |
| 9/20/1991  | 0.00  |
| 9/21/1991  | 0.00  |
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| 9/24/1991  | 0.00  |
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| 9/26/1991  | 0.00  |
| 9/27/1991  | 0.00  |
| 9/28/1991  | 0.00  |
| 9/29/1991  | 0.00  |
| 9/30/1991  | 0.00  |
| 10/1/1991  | 0.00  |
| 10/2/1991  | 0.00  |
| 10/3/1991  | 0.00  |
| 10/4/1991  | 0.00  |
| 10/5/1991  | 0.00  |
| 10/6/1991  | 0.00  |
| 10/7/1991  | 0.00  |
| 10/8/1991  | 0.00  |
| 10/9/1991  | 0.00  |
| 10/10/1991 | 0.00  |
| 10/11/1991 | 0.00  |
| 10/12/1991 | 0.00  |
| 10/13/1991 | 0.00  |
| 10/14/1991 | 0.10  |
| 10/15/1991 | 0.00  |

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| 10/16/1991 | 0.00  |
| 10/17/1991 | 0.00  |
| 10/18/1991 | 0.00  |
| 10/19/1991 | 0.00  |
| 10/20/1991 | 0.20  |
| 10/21/1991 | 0.00  |
| 10/22/1991 | 0.00  |
| 10/23/1991 | 0.00  |
| 10/24/1991 | 0.00  |
| 10/25/1991 | 0.00  |
| 10/26/1991 | 0.00  |
| 10/27/1991 | 0.00  |
| 10/28/1991 | 0.00  |
| 10/29/1991 | 0.00  |
| 10/30/1991 | 0.40  |
| 10/31/1991 | 0.00  |
| 11/1/1991  | 1.20  |
| 11/2/1991  | 6.70  |
| 11/3/1991  | 0.00  |
| 11/4/1991  | 0.00  |
| 11/5/1991  | 0.00  |
| 11/6/1991  | 1.70  |
| 11/7/1991  | 10.40 |
| 11/8/1991  | 12.00 |
| 11/9/1991  | 0.00  |
| 11/10/1991 | 0.00  |
| 11/11/1991 | 0.00  |
| 11/12/1991 | 0.00  |
| 11/13/1991 | 0.00  |
| 11/14/1991 | 0.00  |
| 11/15/1991 | 0.00  |
| 11/16/1991 | 0.00  |
| 11/17/1991 | 0.00  |
| 11/18/1991 | 0.00  |
| 11/19/1991 | 0.00  |
| 11/20/1991 | 0.00  |
| 11/21/1991 | 0.00  |
| 11/22/1991 | 0.00  |
| 11/23/1991 | 0.00  |
| 11/24/1991 | 0.00  |
| 11/25/1991 | 0.00  |
| 11/26/1991 | 0.00  |
| 11/27/1991 | 0.00  |
| 11/28/1991 | 0.00  |
| 11/29/1991 | 0.00  |
| 11/30/1991 | 0.00  |
| 12/1/1991  | 0.00  |
| 12/2/1991  | 0.00  |

|            |       |
|------------|-------|
| 12/3/1991  | 0.00  |
| 12/4/1991  | 0.00  |
| 12/5/1991  | 1.00  |
| 12/6/1991  | 0.30  |
| 12/7/1991  | 0.50  |
| 12/8/1991  | 0.60  |
| 12/9/1991  | 3.20  |
| 12/10/1991 | 8.70  |
| 12/11/1991 | 6.00  |
| 12/12/1991 | 3.90  |
| 12/13/1991 | 0.00  |
| 12/14/1991 | 0.00  |
| 12/15/1991 | 0.00  |
| 12/16/1991 | 0.00  |
| 12/17/1991 | 0.00  |
| 12/18/1991 | 7.90  |
| 12/19/1991 | 0.00  |
| 12/20/1991 | 0.00  |
| 12/21/1991 | 7.60  |
| 12/22/1991 | 2.30  |
| 12/23/1991 | 0.20  |
| 12/24/1991 | 0.00  |
| 12/25/1991 | 0.00  |
| 12/26/1991 | 0.00  |
| 12/27/1991 | 0.00  |
| 12/28/1991 | 4.30  |
| 12/29/1991 | 3.20  |
| 12/30/1991 | 2.20  |
| 12/31/1991 | 0.00  |
| 3/13/1995  | 0.00  |
| 3/14/1995  | 0.00  |
| 3/15/1995  | 0.00  |
| 3/16/1995  | 0.90  |
| 3/17/1995  | 11.80 |
| 3/18/1995  | 0.00  |
| 3/19/1995  | 0.00  |
| 3/20/1995  | 0.00  |
| 3/21/1995  | 0.60  |
| 3/22/1995  | 0.00  |
| 3/23/1995  | 0.00  |
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| 9/30/1998  | 0.00 |
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| 10/2/1998  | 0.00 |
| 10/3/1998  | 0.00 |
| 10/4/1998  | 0.00 |
| 10/5/1998  | 0.00 |
| 10/6/1998  | 0.00 |
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| 10/8/1998  | 0.00 |
| 10/9/1998  | 0.00 |
| 10/10/1998 | 0.00 |



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| 10/11/1998 | 0.80  |
| 10/12/1998 | 0.00  |
| 10/13/1998 | 0.40  |
| 10/14/1998 | 0.00  |
| 10/15/1998 | 0.00  |
| 10/16/1998 | 0.00  |
| 10/17/1998 | 0.00  |
| 10/18/1998 | 0.00  |
| 10/19/1998 | 0.00  |
| 10/20/1998 | 1.20  |
| 10/21/1998 | 0.40  |
| 10/22/1998 | 0.70  |
| 10/23/1998 | 0.00  |
| 10/24/1998 | 0.00  |
| 10/25/1998 | 0.00  |
| 10/26/1998 | 0.10  |
| 10/27/1998 | 0.00  |
| 10/28/1998 | 0.00  |
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| 10/30/1998 | 0.00  |
| 10/31/1998 | 0.00  |
| 11/1/1998  | 0.00  |
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| 11/7/1998  | 0.00  |
| 11/8/1998  | 0.00  |
| 11/9/1998  | 0.00  |
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| 11/11/1998 | 1.60  |
| 11/12/1998 | 1.00  |
| 11/13/1998 | 0.00  |
| 11/14/1998 | 0.00  |
| 11/15/1998 | 0.00  |
| 11/16/1998 | 0.00  |
| 11/17/1998 | 0.00  |
| 11/18/1998 | 0.00  |
| 11/19/1998 | 1.40  |
| 11/20/1998 | 2.00  |
| 11/21/1998 | 8.20  |
| 11/22/1998 | 35.00 |
| 11/23/1998 | 0.00  |
| 11/24/1998 | 0.00  |
| 11/25/1998 | 18.10 |
| 11/26/1998 | 3.30  |
| 11/27/1998 | 0.90  |

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| 11/30/1998 | 0.00  |
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| 12/2/1998  | 0.00  |
| 12/3/1998  | 0.00  |
| 12/4/1998  | 0.00  |
| 12/5/1998  | 0.00  |
| 12/6/1998  | 0.00  |
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| 12/8/1998  | 11.00 |
| 12/9/1998  | 6.60  |
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| 12/13/1998 | 1.70  |
| 12/14/1998 | 0.00  |
| 12/15/1998 | 0.00  |
| 12/16/1998 | 0.00  |
| 12/17/1998 | 0.00  |
| 12/18/1998 | 0.80  |
| 12/19/1998 | 0.20  |
| 12/20/1998 | 0.00  |
| 12/21/1998 | 0.00  |
| 12/22/1998 | 0.20  |
| 12/23/1998 | 0.00  |
| 12/24/1998 | 0.00  |
| 12/25/1998 | 0.00  |
| 12/26/1998 | 5.90  |
| 12/27/1998 | 7.30  |
| 12/28/1998 | 0.00  |
| 12/29/1998 | 0.80  |
| 12/30/1998 | 0.00  |
| 12/31/1998 | 0.00  |
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| 1/4/1999   | 0.00  |
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| 1/12/1999  | 0.00  |
| 1/13/1999  | 0.00  |
| 1/14/1999  | 0.00  |

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| 1/16/1999 | 0.00  |
| 1/17/1999 | 0.00  |
| 1/18/1999 | 0.00  |
| 1/19/1999 | 10.90 |
| 1/20/1999 | 2.00  |
| 1/21/1999 | 0.90  |
| 1/22/1999 | 3.50  |
| 1/23/1999 | 0.00  |
| 1/24/1999 | 0.00  |
| 1/25/1999 | 10.00 |
| 1/26/1999 | 0.50  |
| 1/27/1999 | 0.00  |
| 1/28/1999 | 0.20  |
| 1/29/1999 | 0.00  |
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| 2/2/1999  | 0.00  |
| 2/3/1999  | 12.00 |
| 2/4/1999  | 11.60 |
| 2/5/1999  | 0.50  |
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| 3/2/1999  | 0.00  |
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| 4/18/1999 | 0.00  |
| 4/19/1999 | 0.00  |
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| 9/11/1999 | 0.00 |
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| 9/30/1999  | 0.00 |
| 10/1/1999  | 0.00 |
| 10/2/1999  | 0.00 |
| 10/3/1999  | 0.20 |
| 10/4/1999  | 0.00 |
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| 10/7/1999  | 0.00 |
| 10/8/1999  | 0.00 |
| 10/9/1999  | 0.00 |
| 10/10/1999 | 3.60 |
| 10/11/1999 | 0.00 |
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| 10/29/1999 | 0.00 |
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| 11/2/1999  | 0.00  |
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| 11/4/1999  | 0.00  |
| 11/5/1999  | 0.00  |
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| 11/7/1999  | 13.10 |
| 11/8/1999  | 6.60  |
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| 11/11/1999 | 0.00  |
| 11/12/1999 | 0.00  |
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| 11/30/1999 | 0.00  |
| 12/1/1999  | 2.70  |
| 12/2/1999  | 3.10  |
| 12/3/1999  | 9.70  |
| 12/4/1999  | 0.00  |
| 12/5/1999  | 5.80  |
| 12/6/1999  | 28.80 |
| 12/7/1999  | 6.50  |
| 12/8/1999  | 5.80  |
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| 12/13/1999 | 0.00  |
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| 12/15/1999 | 0.00  |
| 12/16/1999 | 0.00  |
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| 12/18/1999 | 0.00  |

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| 12/24/1999 | 0.10  |
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| 2/11/2000 | 12.20 |
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| 2/17/2000 | 0.00  |
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| 4/25/2000 | 0.00 |
| 4/26/2000 | 0.00 |
| 4/27/2000 | 0.00 |
| 4/28/2000 | 0.00 |
| 4/29/2000 | 0.00 |
| 4/30/2000 | 1.50 |
| 5/1/2000  | 0.00 |
| 5/2/2000  | 0.00 |
| 5/3/2000  | 0.00 |
| 5/4/2000  | 0.00 |
| 5/5/2000  | 0.00 |
| 5/6/2000  | 0.00 |
| 5/7/2000  | 0.20 |
| 5/8/2000  | 0.50 |
| 5/9/2000  | 0.00 |
| 5/10/2000 | 0.00 |

|           |      |
|-----------|------|
| 5/11/2000 | 0.00 |
| 5/12/2000 | 0.00 |
| 5/13/2000 | 0.00 |
| 5/14/2000 | 0.00 |
| 5/15/2000 | 0.00 |
| 5/16/2000 | 0.00 |
| 5/17/2000 | 0.00 |
| 5/18/2000 | 0.00 |
| 5/19/2000 | 0.00 |
| 5/20/2000 | 0.00 |
| 5/21/2000 | 0.00 |
| 5/22/2000 | 0.00 |
| 5/23/2000 | 0.00 |
| 5/24/2000 | 0.00 |
| 5/25/2000 | 0.00 |
| 5/26/2000 | 0.20 |
| 5/27/2000 | 0.00 |
| 5/28/2000 | 0.00 |
| 5/29/2000 | 0.00 |
| 5/30/2000 | 0.00 |
| 5/31/2000 | 0.00 |
| 6/1/2000  | 0.00 |
| 6/2/2000  | 0.00 |
| 6/3/2000  | 0.00 |
| 6/4/2000  | 0.00 |
| 6/5/2000  | 0.00 |
| 6/6/2000  | 0.00 |
| 6/7/2000  | 0.00 |
| 6/8/2000  | 0.00 |
| 6/9/2000  | 0.00 |
| 6/10/2000 | 0.00 |
| 6/11/2000 | 0.00 |
| 6/12/2000 | 0.00 |
| 6/13/2000 | 0.00 |
| 6/14/2000 | 0.00 |
| 6/15/2000 | 0.00 |
| 6/16/2000 | 0.00 |
| 6/17/2000 | 0.00 |
| 6/18/2000 | 0.00 |
| 6/19/2000 | 0.00 |
| 6/20/2000 | 0.00 |
| 6/21/2000 | 0.00 |
| 6/22/2000 | 0.00 |
| 6/23/2000 | 0.00 |
| 6/24/2000 | 0.00 |
| 6/25/2000 | 0.00 |
| 6/26/2000 | 0.00 |
| 6/27/2000 | 0.00 |

|           |      |
|-----------|------|
| 6/28/2000 | 0.00 |
| 6/29/2000 | 0.00 |
| 6/30/2000 | 0.00 |
| 7/1/2000  | 0.00 |
| 7/2/2000  | 0.00 |
| 7/3/2000  | 0.00 |
| 7/4/2000  | 0.00 |
| 7/5/2000  | 0.00 |
| 7/6/2000  | 0.00 |
| 7/7/2000  | 0.00 |
| 7/8/2000  | 0.00 |
| 7/9/2000  | 0.00 |
| 7/10/2000 | 0.00 |
| 7/11/2000 | 0.00 |
| 7/12/2000 | 0.00 |
| 7/13/2000 | 0.00 |
| 7/14/2000 | 0.00 |
| 7/15/2000 | 0.00 |
| 7/16/2000 | 0.00 |
| 7/17/2000 | 0.00 |
| 7/18/2000 | 0.00 |
| 7/19/2000 | 0.00 |
| 7/20/2000 | 0.00 |
| 7/21/2000 | 0.00 |
| 7/22/2000 | 0.00 |
| 7/23/2000 | 0.00 |
| 7/24/2000 | 0.00 |
| 7/25/2000 | 0.00 |
| 7/26/2000 | 0.00 |
| 7/27/2000 | 0.00 |
| 7/28/2000 | 0.00 |
| 7/29/2000 | 0.00 |
| 7/30/2000 | 0.00 |
| 7/31/2000 | 0.00 |
| 8/1/2000  | 0.00 |
| 8/2/2000  | 0.00 |
| 8/3/2000  | 0.00 |
| 8/4/2000  | 0.00 |
| 8/5/2000  | 0.00 |
| 8/6/2000  | 0.00 |
| 8/7/2000  | 0.00 |
| 8/8/2000  | 0.00 |
| 8/9/2000  | 0.00 |
| 8/10/2000 | 0.00 |
| 8/11/2000 | 0.00 |
| 8/12/2000 | 0.00 |
| 8/13/2000 | 0.00 |
| 8/14/2000 | 0.00 |

|            |      |
|------------|------|
| 8/15/2000  | 0.00 |
| 8/16/2000  | 0.00 |
| 8/17/2000  | 0.00 |
| 8/18/2000  | 0.00 |
| 8/19/2000  | 0.00 |
| 8/20/2000  | 0.00 |
| 8/21/2000  | 0.00 |
| 8/22/2000  | 0.00 |
| 8/23/2000  | 0.00 |
| 8/24/2000  | 0.00 |
| 8/25/2000  | 0.00 |
| 8/26/2000  | 0.00 |
| 8/27/2000  | 0.00 |
| 8/28/2000  | 0.00 |
| 8/29/2000  | 0.00 |
| 8/30/2000  | 0.00 |
| 8/31/2000  | 0.00 |
| 9/1/2000   | 0.00 |
| 9/2/2000   | 0.00 |
| 9/3/2000   | 0.00 |
| 9/4/2000   | 0.00 |
| 9/5/2000   | 0.00 |
| 9/6/2000   | 0.00 |
| 9/7/2000   | 0.00 |
| 9/8/2000   | 0.00 |
| 9/9/2000   | 0.00 |
| 9/10/2000  | 0.00 |
| 10/8/2000  | 0.00 |
| 10/9/2000  | 0.00 |
| 10/10/2000 | 0.00 |
| 10/11/2000 | 0.00 |
| 10/12/2000 | 0.00 |
| 10/13/2000 | 0.00 |
| 10/14/2000 | 1.90 |
| 10/15/2000 | 0.00 |
| 10/16/2000 | 0.00 |
| 10/17/2000 | 7.50 |
| 10/18/2000 | 9.10 |
| 10/19/2000 | 0.50 |
| 10/20/2000 | 3.00 |
| 10/21/2000 | 3.70 |
| 10/22/2000 | 0.40 |
| 10/23/2000 | 0.00 |
| 10/24/2000 | 0.00 |
| 10/25/2000 | 0.00 |
| 10/26/2000 | 0.00 |
| 10/27/2000 | 0.00 |
| 10/28/2000 | 0.40 |

|            |      |
|------------|------|
| 10/29/2000 | 0.00 |
| 10/30/2000 | 0.00 |
| 10/31/2000 | 0.00 |
| 11/1/2000  | 0.00 |
| 11/2/2000  | 0.00 |
| 11/3/2000  | 0.00 |
| 11/4/2000  | 0.00 |
| 11/5/2000  | 0.00 |
| 11/6/2000  | 0.00 |
| 11/7/2000  | 0.00 |
| 11/8/2000  | 0.00 |
| 11/9/2000  | 0.00 |
| 11/10/2000 | 0.00 |
| 11/11/2000 | 0.00 |
| 11/12/2000 | 0.00 |
| 11/13/2000 | 0.00 |
| 11/14/2000 | 0.00 |
| 11/15/2000 | 0.00 |
| 11/16/2000 | 0.00 |
| 11/17/2000 | 0.00 |
| 11/18/2000 | 0.00 |
| 11/19/2000 | 0.00 |
| 11/20/2000 | 0.00 |
| 11/21/2000 | 0.00 |
| 11/22/2000 | 0.00 |
| 11/23/2000 | 0.00 |
| 11/24/2000 | 0.00 |
| 11/25/2000 | 0.00 |
| 11/26/2000 | 0.00 |
| 11/27/2000 | 0.00 |
| 11/28/2000 | 0.00 |
| 11/29/2000 | 0.00 |
| 11/30/2000 | 0.00 |
| 12/1/2000  | 0.00 |
| 12/2/2000  | 0.00 |
| 12/3/2000  | 0.30 |
| 12/4/2000  | 0.20 |
| 12/5/2000  | 6.70 |
| 12/6/2000  | 0.00 |
| 12/7/2000  | 0.00 |
| 12/8/2000  | 0.00 |
| 12/9/2000  | 0.00 |
| 12/10/2000 | 0.00 |
| 12/11/2000 | 0.00 |
| 12/12/2000 | 0.00 |
| 12/13/2000 | 0.00 |
| 12/14/2000 | 0.00 |
| 12/15/2000 | 0.00 |



```
12/16/2000      0.00
12/17/2000      3.70
+++++ please note that the data are not recorded
regularly.
```

I wrote my one code to skip the non measured intervals in the large data set we have as follows.

----- the code

Pro rain\_monthly\_mean

Device, Decomposed=0, Get\_Decomposed=theState

;ccccccccccccccc

IF N\_Elements(filename) EQ 0 THEN BEGIN

filename = Dialog\_Pickfile(Filter='\*.prn', Title='Select Rain  
file for READING')

IF filename EQ '' THEN RETURN

ENDIF

;Read the input data

OpenR, lun, filename, /Get\_Lun

data =strarr(3065)

READF, lun, data

close, lun

;Open an output file to hold the date and rain information

;openw, lun, 'C:\Documents and Settings\test\agro1002f.txt'

openw, lun, 'C:\Documents and Settings\test.txt'

for i=0,n\_elements(data)-1 do begin

;Divide the input string into pieces for date and rain amount

pieces = STRSPLIT(data[i], ' ', /EXTRACT)

date\_sub = pieces[0]

ra\_sub = pieces[1]

;Get the day, month, year from the date substring

; Also convert them to integers

date\_pieces = STRSPLIT(date\_sub, '/', /EXTRACT)

day = long(date\_pieces[1])

month = long(date\_pieces[0])

yy = long(date\_pieces[2])

;Write to output file

printf,lun, yy, month,day, ra\_sub, format='(I4, 5x,I3, 5x, I3, 5x,  
f7.2) '

```

endfor
close, lun

;????????????????????????????????????????
array=fltarr(4,3065)

f='C:\Documents and Settings\test.txt'
;f='test_ebert.txt'
openr,lun,f,/get_lun
readf,lun,array
free_lun,lun

year      = reform(array[0,*])
mon       = reform(array[1,*])
Da        = reform(array[2,*])
va_rain   = reform(array[3,*])

y = year[UNIQ(year)]
print, y , n_elements(y) ; my aim

;=====

b = mon[UNIQ(mon)]
print, b ; month_index 9 10, 11, 12, 1, 2, 4, 5, \\\ my aim

print, n_elements(b) ; number of months= ?

end

```

```

-----

+++++++ the ouptput data as follows
1988.00 1989.00 1990.00 1991.00 1995.00 1996.00 1997.00 1998.00
1999.00 2000.00
10
9.00000 10.0000 11.0000 12.0000 1.00000 2.00000 3.00000 4.00000
7.00000 8.00000
9.00000 10.0000 11.0000 12.0000 1.00000 2.00000 3.00000 4.00000
5.00000 6.00000
7.00000 8.00000 9.00000 10.0000 11.0000 12.0000 1.00000 2.00000
3.00000 4.00000
5.00000 6.00000 7.00000 8.00000 9.00000 10.0000 11.0000 12.0000
3.00000 4.00000
5.00000 6.00000 7.00000 8.00000 9.00000 10.0000 11.0000 12.0000
1.00000 2.00000
3.00000 4.00000 5.00000 6.00000 7.00000 8.00000 9.00000 10.0000
11.0000 12.0000

```

1.00000 2.00000 3.00000 4.00000 5.00000 6.00000 7.00000 8.00000  
9.00000 10.0000  
11.0000 12.0000 1.00000 2.00000 3.00000 4.00000 9.00000 10.0000  
11.0000 12.0000  
1.00000 2.00000 3.00000 4.00000 5.00000 6.00000 7.00000 8.00000  
9.00000 10.0000  
11.0000 12.0000 1.00000 2.00000 3.00000 4.00000 5.00000 6.00000  
7.00000 8.00000  
9.00000 10.0000 11.0000 12.0000  
104

+++++

Now

I would like to read the values of measured rainfall and count the  
rainy and non rainy days in each month in the large data set.

the final output data must be as follows:-

" year - month-number of rainy days - number of non rainy days-  
monthly total rainfall"

I can't complete my own code.

Thank you very much for your helping  
Khaled" k\_ghreep@yahoo.com"

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