

Environmental Protection Report

EAST DEVON PUBLIC WATER SUPPLY STRATEGY – PRELIMINARY ASSESSMENT OF THE YIELD OF CLATWORTHY RESERVOIR

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List of Abbreviations

ADF - Average Daily Flow

cumecs - metres cubed per second

ExeSim - Computer model used by SWWSL to model the proposed Wimbleball Pumped Storage Scheme

Ml - Megalitres

Ml/d - Megalitres per day

NRA - National Rivers Authority

NRA SW - National Rivers Authority South West Region

SWWSL - South West Water Services Limited

WTW - Water Treatment Works

WWSL - Wessex Water Services Limited

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SUMMARY

Wimbleball reservoir is presently used by both South West Water Services Limited (SWWSL) and Wessex Water Services Limited (WWSL) for public water supply. Both SWWSL and WWSL expect to require increased resources to meet forecast public water supply demands. SWWSL have demonstrated a need for additional resources in their East Devon supply area and have been granted a licence to develop Wimbleball pump storage. WWSL have still to fully justify the need for additional resources in Somerset. Many of the details relating to the proposed pump storage scheme including the relative allocation of any increased yield between the two companies has still to be determined via an Operational Management Strategy involving SWWSL, WWSL and the National Rivers Authority (NRA).

The purpose of this study was to consider the yield available from Clatworthy reservoir which is an important part of the resource-demand balance for WWSL Somerset supply area. WWSL have recently estimated the yield available from Clatworthy using behaviour analysis. A different approach, also using behaviour analysis has been used by NRA SW to check this yield estimate, to test the sensitivity of reservoir yield to the amount of reserve storage and the demand profile, and to determine whether the system is one or two season critical.

The yield estimates from this study are very similar to the WWSL estimate and clearly show that Clatworthy is two season critical. The results suggest that the yield estimate is most sensitive to the demand profile. The possibilities for conjunctive use with Wimbleball reservoir and a pumped storage scheme for Clatworthy require further consideration.

1.0 Introduction.

Wimbleball Lake on Exmoor is used by South West Water Services Limited (SWWSL) as a regulating reservoir to support the downstream licensed public water supply abstractions at Bolham and Northbridge. The reservoir is also used by Wessex Water Services Limited (WWSL) for a direct supply abstraction to Maundown Water Treatment Works (see Figure 1).

To meet increased demand in East Devon SWWSL applied for a licence to abstract water at Exebridge to pump to Wimbleball to supplement natural inflows and therefore guarantee refill.

WWSL have also highlighted a need for increased resources to meet forecast public water supply demands until 2001. Although several options are available to WWSL to meet this predicted need increased yield from Wimbleball reservoir is their preferred option.

In 1993 SWWSL were granted a licence to abstract 13633 Ml per year at Exebridge to pump to Wimbleball. However, in order to ensure that the resource is used properly the NRA have included in the licence a condition requiring the production of an Operational Management Strategy. The Operational Management Strategy makes provision for the availability and allocation of Wimbleball resources between users and must be in place before any water is abstracted at Exebridge. In order to determine the appropriate allocation of resources between users it is necessary to develop resource demand balances for the East Devon and Somerset supply areas.

After Wimbleball and Durleigh Reservoirs Clatworthy reservoir represents the largest source in the Somerset supply area. The yield available from Clatworthy reservoir is therefore an important part of the resource demand balance for WWSL Somerset supply area.

This report presents the results of NRA SW assessment of the yield available from Clatworthy reservoir. This assessment uses a spreadsheet and the 1975/76 inflow sequence to determine if the system is two season critical and to test the relative sensitivity of the yield estimate to the amount of reserve storage and the demand profile.

2.0 Clatworthy Reservoir - Site Details.

Clatworthy reservoir is situated in the Brendon Hills and impounds the headwaters of the River Tone. Clatworthy is a direct supply reservoir with a gross storage capacity of 5404 Ml, a catchment area of 18.2 km² and a compensation flow requirement of 4.55 Ml/d (0.053 cumecs). Water from Clatworthy is conveyed by gravity a distance of 4km (2½ miles) to Maundown Water Treatment Works before being used for public water supply mainly in Taunton, Wellington and Bridgwater (see Figure 1).

3.0 Definitions of Yield and Methods of Yield Assessment.

There are many different definitions of yield. The average annual drought reliable yield, for example, can be defined as the average annual output available from a source for public water supply throughout a 1:50 year (2%) drought.

A National NRA Research and Development project (R&D Project 414) is currently considering the existing methods of surface water yield assessment. This project, which is due to be completed by October 1993, should recommend a methodology for assessing reservoir yields which, if adopted, may lead to a more consistent approach to yield assessment between the NRA regions and the Water Companies. Investigations undertaken during phase 1 of the R&D project have concluded that behaviour analysis and probability matrix approaches are presently the most common methods of yield assessment in the UK.

Behaviour analysis can be used with either historic or synthetic flow sequences to simulate the performance of the system and determine the available yield. Behaviour analysis can be used to develop operating rules and strategies and to illustrate the consequences of different abstraction rates. Probability matrix calculations are often used to support other methods of yield assessment including behaviour analysis. To determine the yield from multiple or complex systems simplifying assumptions are often needed when using a probability matrix approach. For more details on the results from the R & D project and other references see Surface Water Yield Assessment R&D Project 414 Interim report Phase 1 (1991, October) and Phase 2 (1992, November).

4.0 WWSL yield estimate.

In 1992 WWSL reduced their estimate of the yield of Clatworthy reservoir. Yield calculations taking into account 1990 and 1991 data showed that an earlier figure based on licensed quantity could not be sustained. The most recent estimate of 15.8 Ml/d is equivalent to the highest average annual output which can be sustained over the critical period and has been assessed using a methodology developed by K.L Jones in 1991. This method of yield assessment which is based on behaviour analysis, has four main stages and is explained in more detail in Appendix 2. The results from this method show that the critical period is over two seasons for Clatworthy whereas earlier analysis appeared to have assumed a one year critical period.

5.0 NRA SW yield estimate.

The NRA SW preliminary assessment of the yield of Clatworthy reservoir was based on behaviour analysis and used a daily time-step. The period from the beginning of 1975 to the end of 1976 was used in this study as being representative of a 1:50 year design drought event. A spreadsheet model was used in this assessment to increase the average demand until the reservoir

reached some pre-defined failure criterion such as 20% gross storage. The inflow sequence, demand profile and detailed modelling assumptions used in this assessment are discussed below.

5.1 Inflows to Clatworthy.

5.1.1 Wessex Water inflow sequence.

The inflow sequence supplied to NRA SW in a spreadsheet (see Appendix 1) was used in the Wessex Water assessment of the yield of Clatworthy reservoir as described in Appendix 2. The WWSL inflow sequence is based on a water balance. The components of the water balance including storage, abstraction, compensation and overspill are also contained in the spreadsheet.

This weekly sequence contained several negative values. It had been smoothed but it is unknown how this was done, who did it, or why there were still a number of negative values. NRA SW removed the negatives by averaging over progressively longer periods until a small positive flow was produced, subject to the total inflow for 1975/76 not being exceeded.

Closer examination of the WWSL spreadsheet revealed several differences between this data and the original paper records held by Wessex NRA. For example, the WWSL spreadsheet suggests that the compensation release of 4.55 Ml/d was released every day throughout the 1975/76 sequence whereas Wessex NRA paper records suggests the full compensation release was not met during the summer months in 1976.

5.1.2 NRA SW inflow sequence.

A synthetic inflow sequence was produced for 1975/76 by NRA SW using the naturalised Wimbleball inflow sequence (Watson Hawksley, Appendix A4, 1993) and the ratio of theoretical ADFs at Clatworthy and Wimbleball dam. The theoretical ADFs at these sites were calculated using a method developed by the Institute of Hydrology (Bullock, A. and Gustard, A., 1989).

5.1.3 Comparison of inflows.

The averaged Wessex inflows and the NRA SW synthetic sequence are compared in Figure 2. From a comparison of 1975/76 totals the Wessex Water inflow sequence gives 4.9% more flow than the NRA SW synthetic sequence.

Due to the uncertainties with the Wessex Water inflow sequence described previously the NRA SW synthetic sequence was used for this yield assessment. It also represents a worst case situation.

5.2 Demand profile.

The weekly abstraction values used to produce demand profiles for Clatworthy were taken from spreadsheet data supplied to NRA SW by WWSL (the data for 1975/76 is shown in Appendix 1). The weekly abstraction values for 1990 and 1991 are shown graphically in Figures 3 and 4 respectively.

The demand profiles used for this study consist of 52 values and have been derived using the ratio of the weekly abstraction quantity to the yearly average. The profiles for 1990 and 1991 are shown in Figures 5 and 6 respectively. The 1991 profile is high throughout the early summer but drops considerably from July to October. The 1990 profile shows the opposite, with low demands throughout the summer but higher values in the winter period from November to March.

A comparison of annual abstraction totals suggests that Clatworthy was used more than Wimbleball in 1991 but less in 1990.

The 1991 profile which represents a recent year and is similar to the 1976 profile has been used to determine the yield available from Clatworthy and the 1990 profile to determine the sensitivity of the yield estimate to the choice of demand profile.

5.3 Other Modelling Assumptions.

The assumptions used in this assessment are explained below and are summarised by case (scenario) in Table 1.

- * Clatworthy reservoir was full at the beginning of 1975. Results from running the Water Resources Planning Model (for more details see Blackwell, S. R. and Maddocks, S., 1988) confirmed that Wimbleball was full at the beginning of 1975 and as Wimbleball is much larger than Clatworthy it is reasonable to assume that Clatworthy would also have been full at the beginning of 1975.
- * The same demand profile, either 1991 or 1990, has been used in this assessment for both 1975 and 1976.
- * The statutory compensation release for Clatworthy of 4.55 Ml/d was released every day.
- * No leakage from Clatworthy has been included.
- * Direct rainfall into the reservoir has not been included.
- * With the exception of case 3 no evaporation from the reservoir has been included in this analysis. The monthly evaporation rates used in case 3 were taken from the ExeSim modelling of the Wimbleball system (Watson Hawksley, Appendix A2, 1993). These values represent long term averages at Yeovilton (NGR ST 54 22).

- * With the exception of case 1 when the reservoir was drawn down to zero live storage, it was assumed that 20% of gross storage was left in the reservoir at the end of the drought.

5.4 Results

Figures 7 to 16 show the drawdown plots for 1975 and 1976 for each case used in this assessment, the details of each different case and the results are summarised in Table 1. The appendices at the back of this report contain the spreadsheet printout from each case.

For the five cases modelled yield varied from 20.05 Ml/d (case 5) to 16.2 Ml/d (case 4). A yield of 18.95 Ml/d was produced with case 1, using the 1991 demand ratio, excluding evaporation and reserving zero live storage. Reserving 20% of gross storage reduces the yield by 1.2 Ml/d (case 2) and incorporating evaporation in case 3 reduces the yield by a further 0.74 Ml/d.

Case 4 which used the averaged WWSL inflow sequence produced an average annual drought reliable yield estimate of 16.2 Ml/d which is very similar to the WWSL estimate of 15.8 Ml/d. The 0.4 Ml/d difference may reflect the use of different demand profiles by WWSL and NRA SW. For example, WWSL used a monthly profile whilst NRA SW used a weekly one.

The significant difference between cases 2, 3 and 4 and case 5 suggests the yield of Clatworthy is most sensitive to the demand profile.

Inspection of the drawdown plots for 1975 and 1976 for all cases modelled clearly indicates that Clatworthy is a two season critical reservoir.

6.0 Conclusions.

- a) The yield estimates calculated by NRA SW are similar to the WWSL recent estimate of 15.8 Ml/d.
- b) The yield of Clatworthy reservoir appears to be most sensitive to the demand profile rather than the percentage of gross storage remaining at the end of the drought.
- c) Clatworthy is two season critical.

7.0 Recommendations.

- a) As a two season critical reservoir Clatworthy could possibly be developed as a pumped storage reservoir. WWSL however, have suggested that problems with water quality and low flows in the River Tone may prevent this development. These potential difficulties will need more detailed investigation.
- b) Wimbleball and Clatworthy need to be considered together. At present it appears the two sources are used conjunctively by WWSL but to no obvious operational strategy. WWSL have suggested that conjunctive use of these reservoirs does not significantly affect the yields and that use varies depending on whether it is an average or very dry year.
- c) Further work is required to derive a long inflow sequence for Clatworthy. Behaviour analysis using a long flow sequence incorporating the affects of conservation measures to specified levels of service could be used to assess the standard of service yield available from conjunctive use with Wimbleball or from the pumped storage of Clatworthy.

List of References.

- Blackwell, S. R. and Maddocks, S. (1988, August) - University of Lancaster, Department of Operational Research, Conjunctive Use Model.
- Bullock, A. and Gustard, A. (1989) - Average and Low Flow Estimation in the South West Water Region.
- Wallace Evans (1991, October) - Surface Water Yield Assessment R&D Project 414 Interim Report Phase 1.
- Wallace Evans (1992, November) - Surface Water Yield Assessment R&D Project 414 Interim Report Phase 2.
- Watson Hawksley (1993) - East Devon Water Resources Wimbleball Pumped Storage Scheme, Appendix A2 Hydrological Data (RP-PLA-1981AO-030(01)).
- Watson Hawksley (1993) - East Devon Water Resources Wimbleball Pumped Storage Scheme, Appendix A4 Reservoir Inflow Series (RP-PLA-1981AO-032(01)).

Figure 1: Location of sites

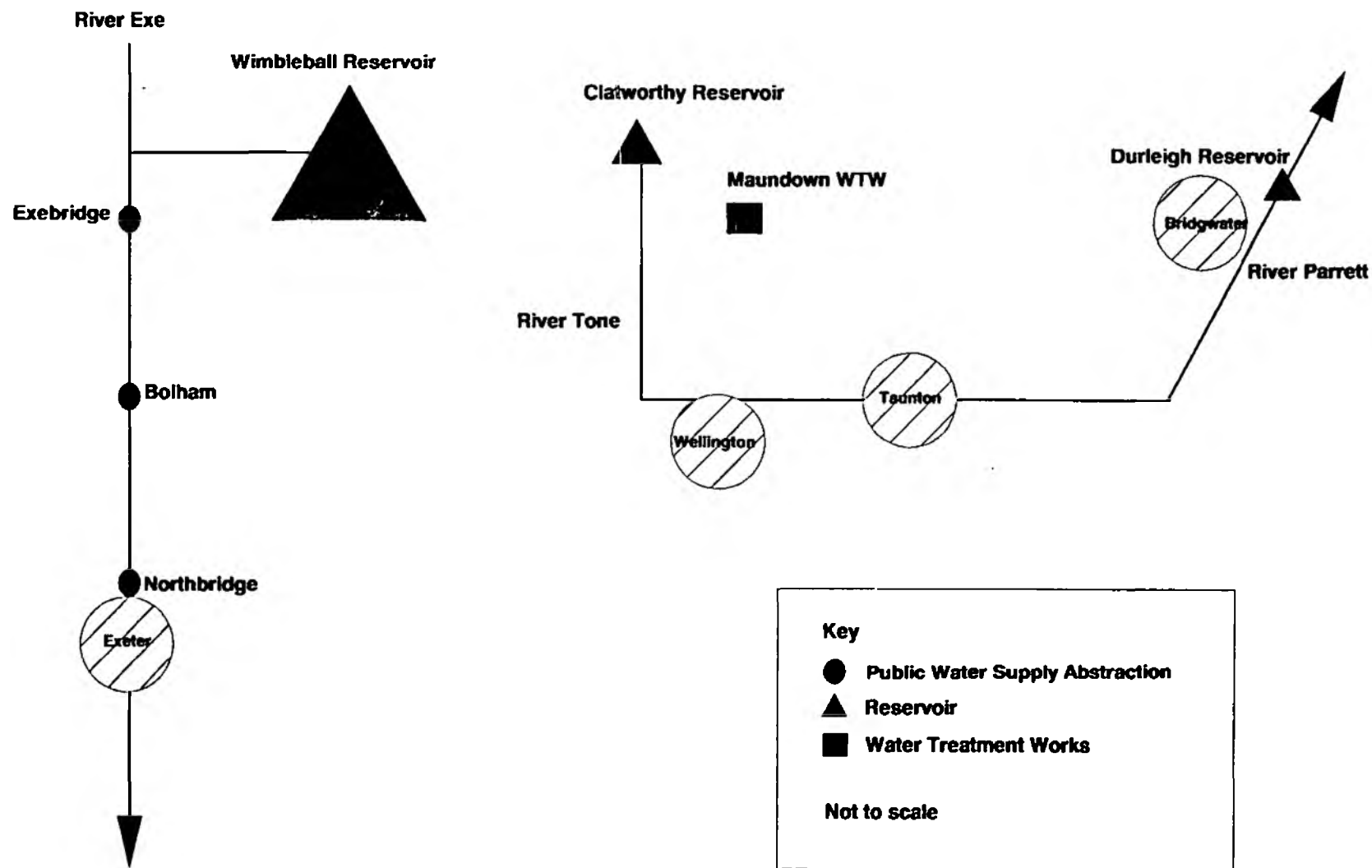
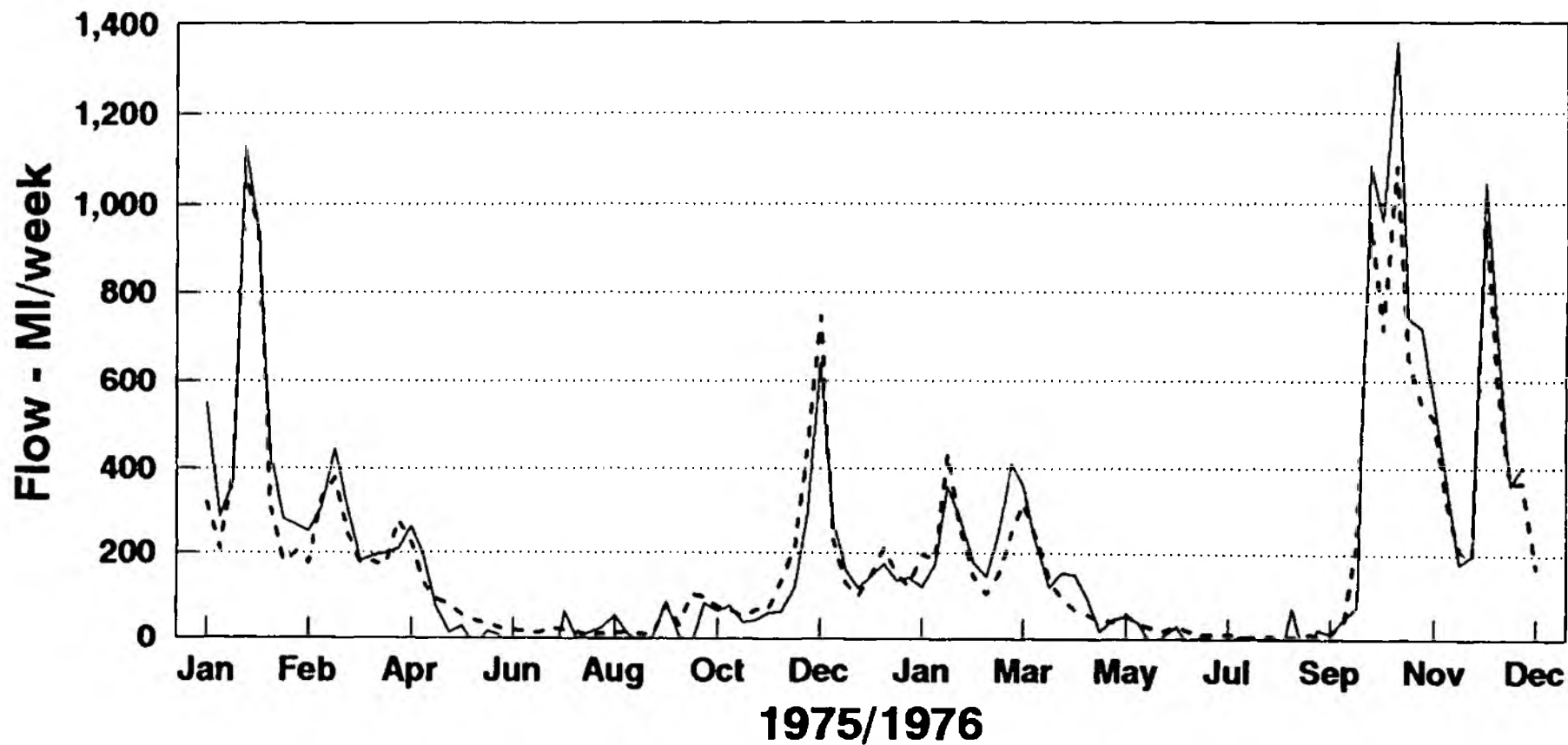


Figure 2 **Clatworthy Reservoir**
1975/76 inflows



Wessex inflows NRA SW inflows

Wessex inflows have been averaged to remove negatives.

Figure 3

Clatworthy Reservoir 1990 Abstraction Values

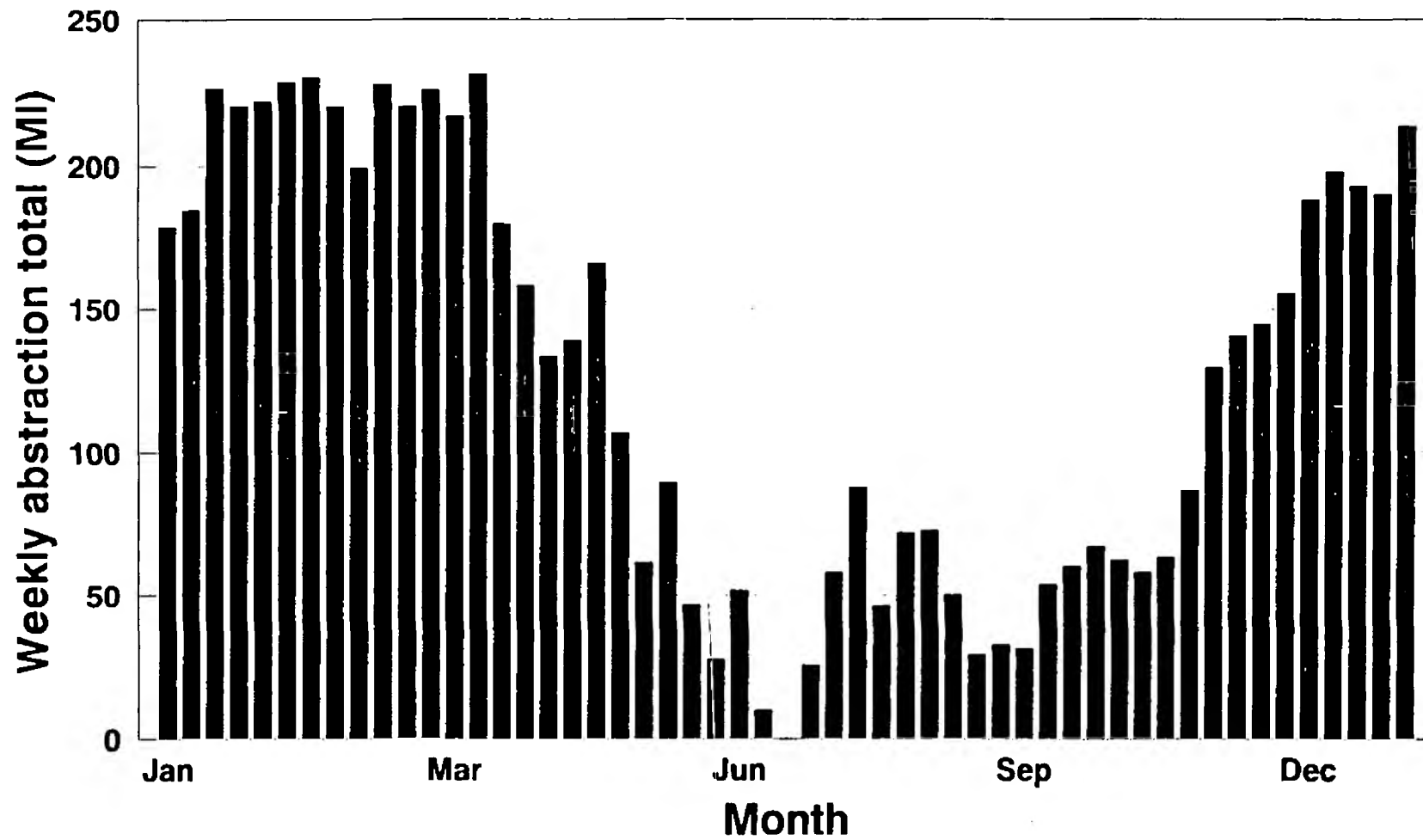


Figure 4

Clatworthy Reservoir 1991 Abstraction Values

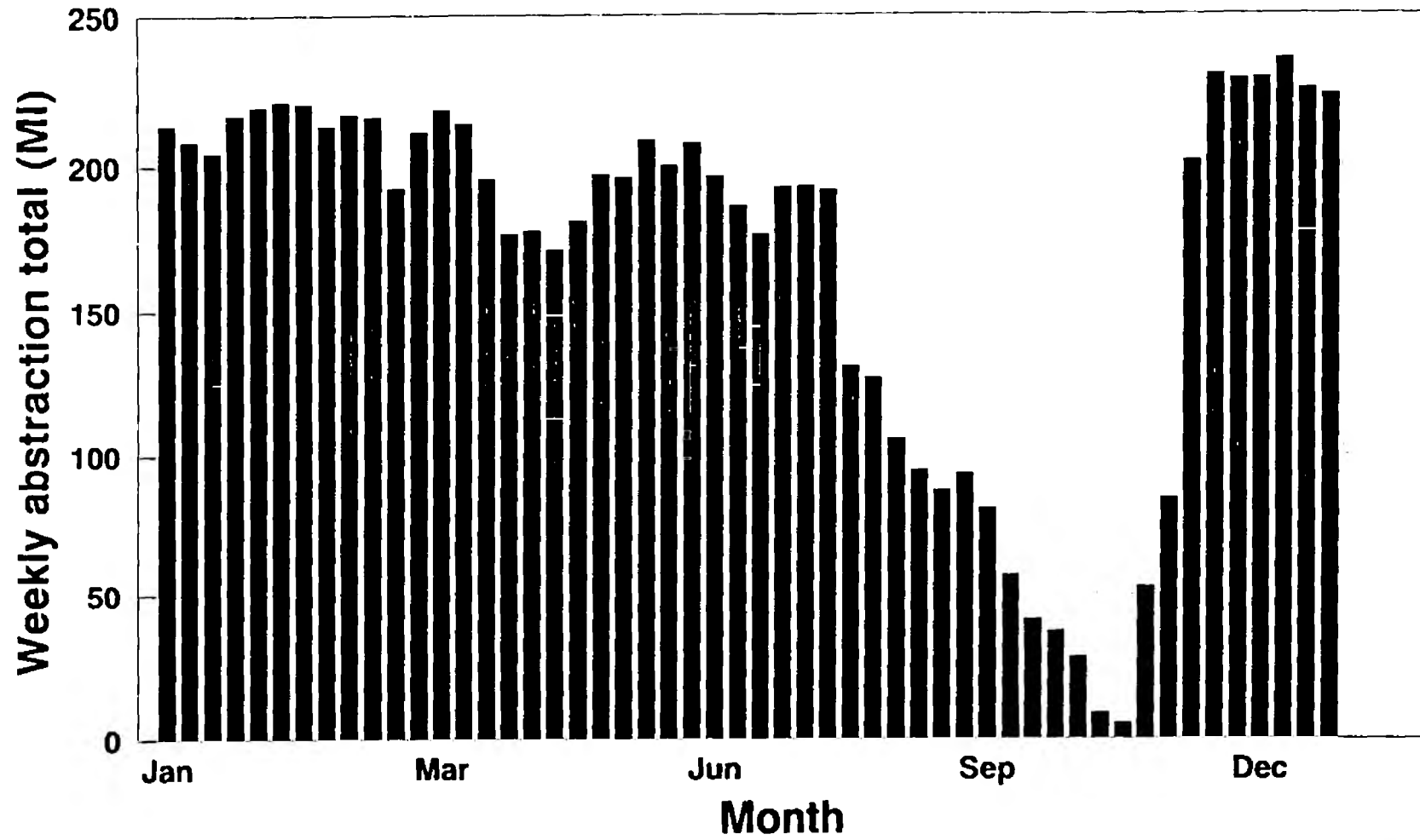


Figure 5 Clatworthy Reservoir
1990 Abstraction Profile

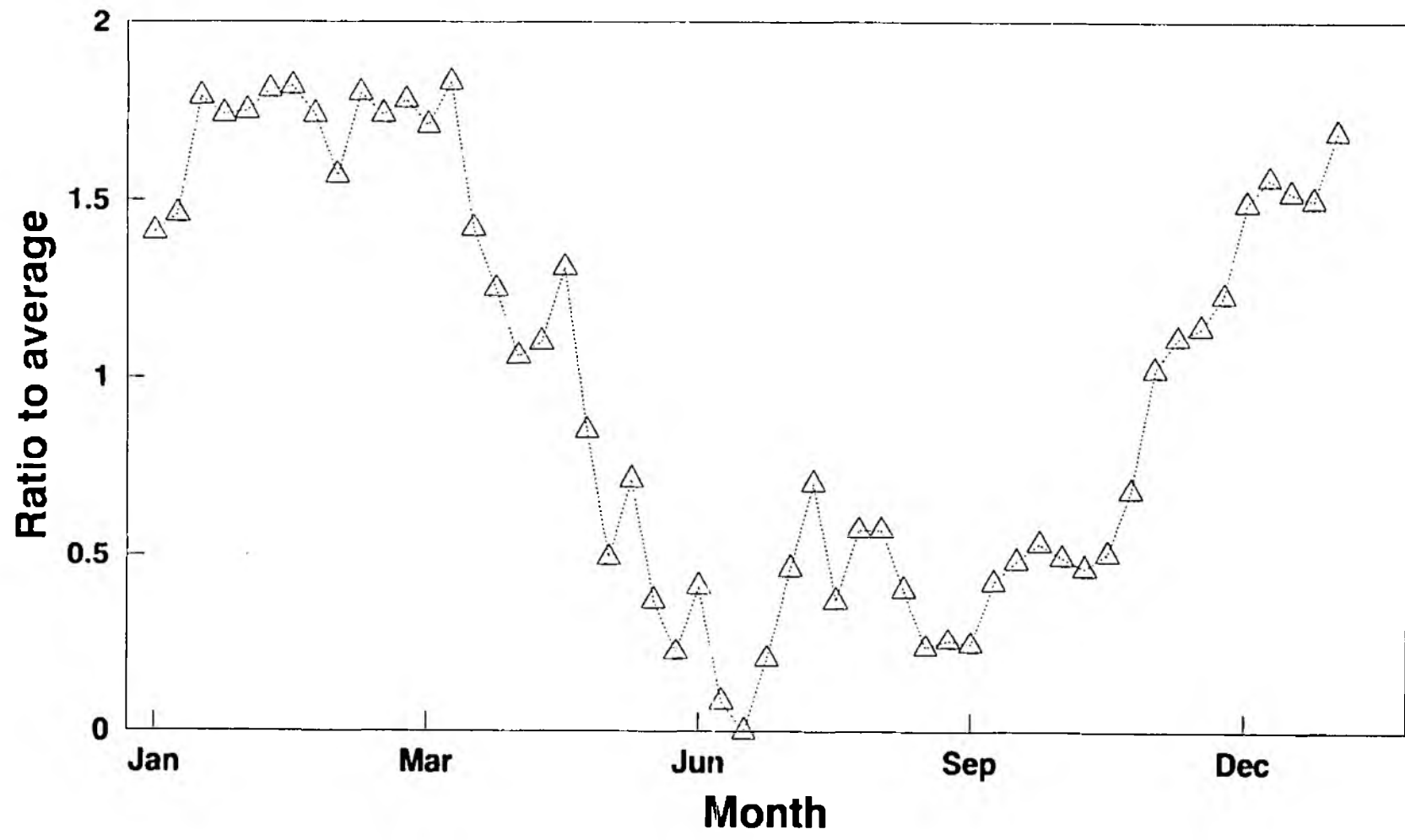


Figure 6

Clatworthy Reservoir 1991 Abstraction Profile

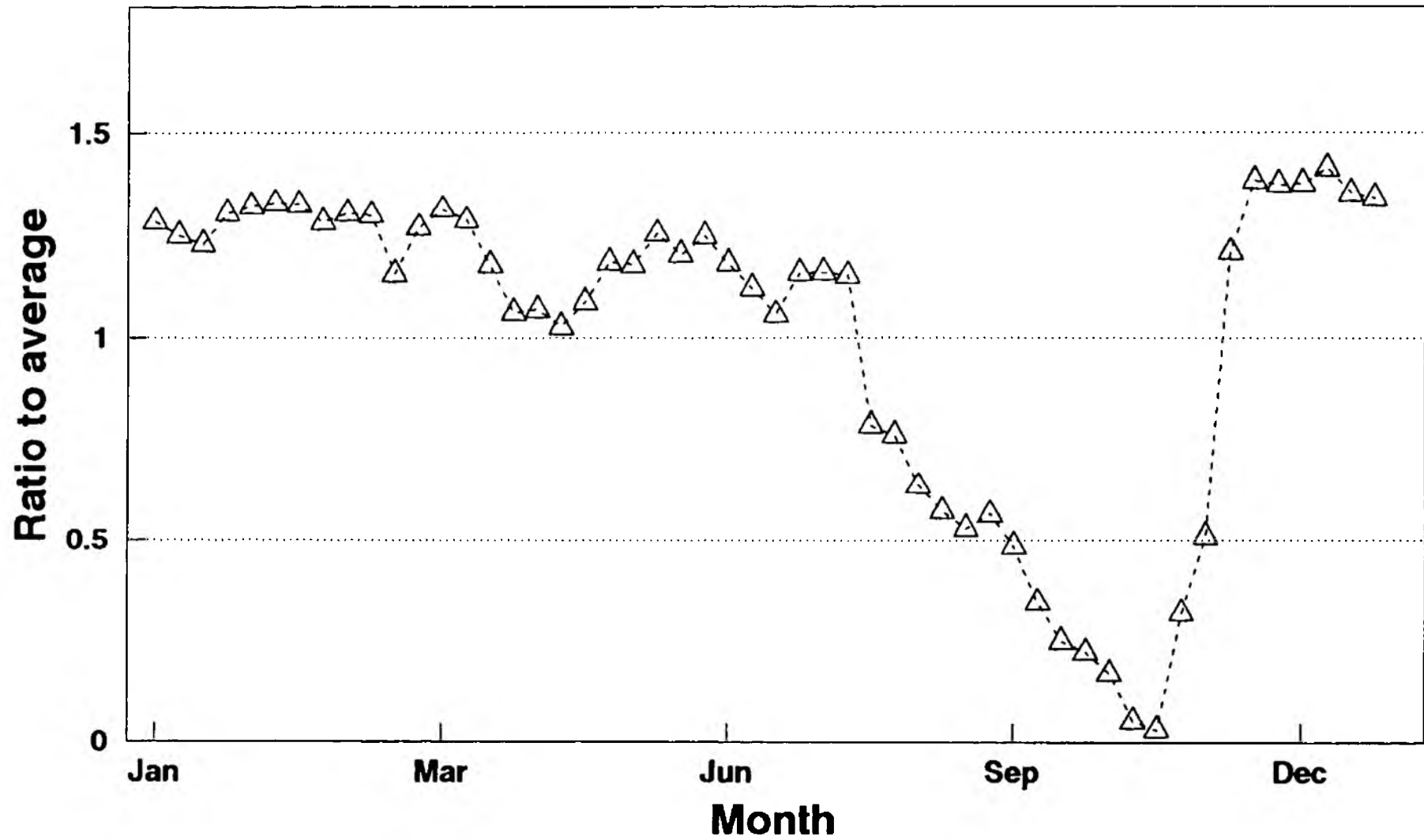
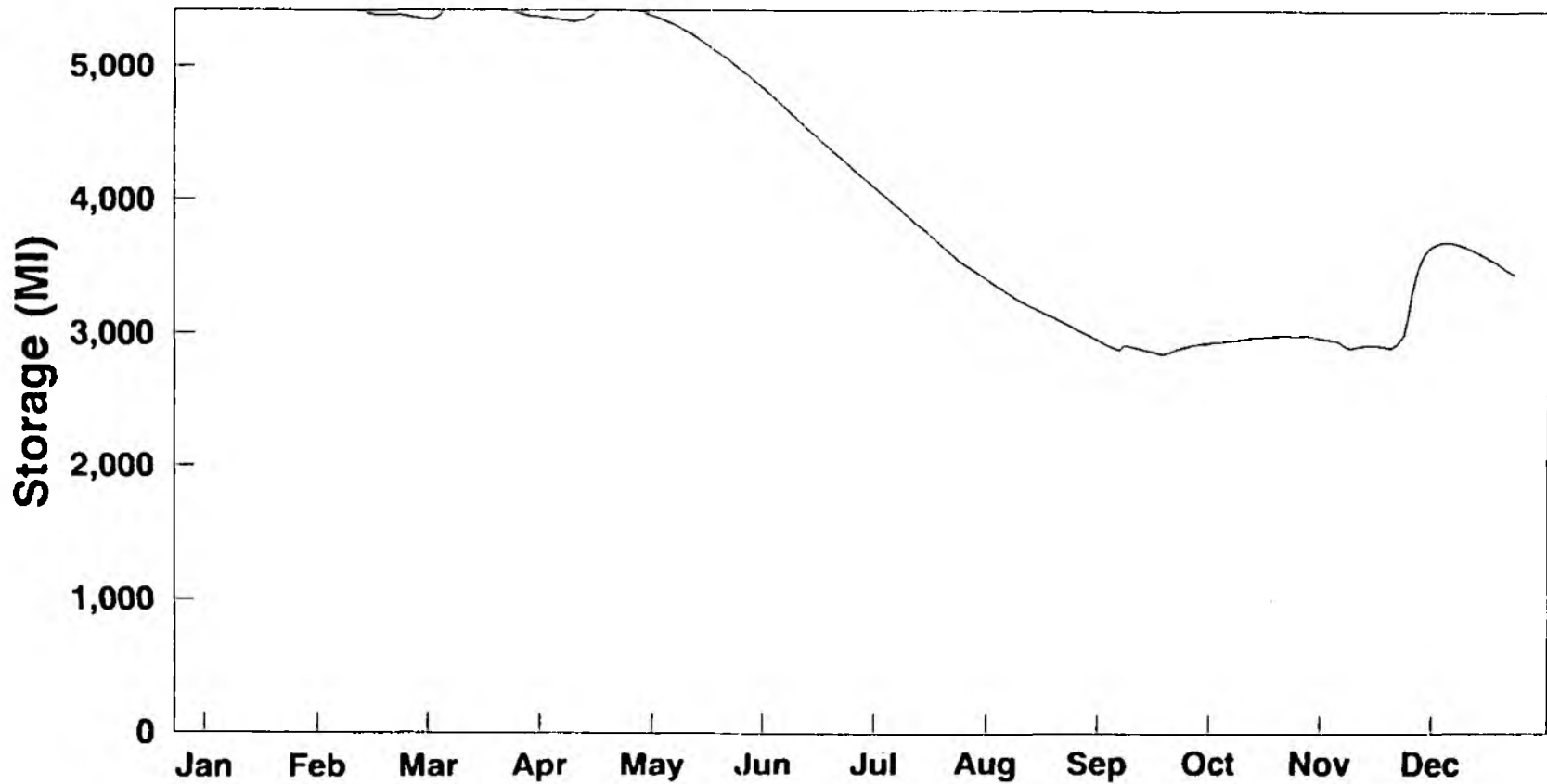


Figure 7 Clatworthy Reservoir 1975



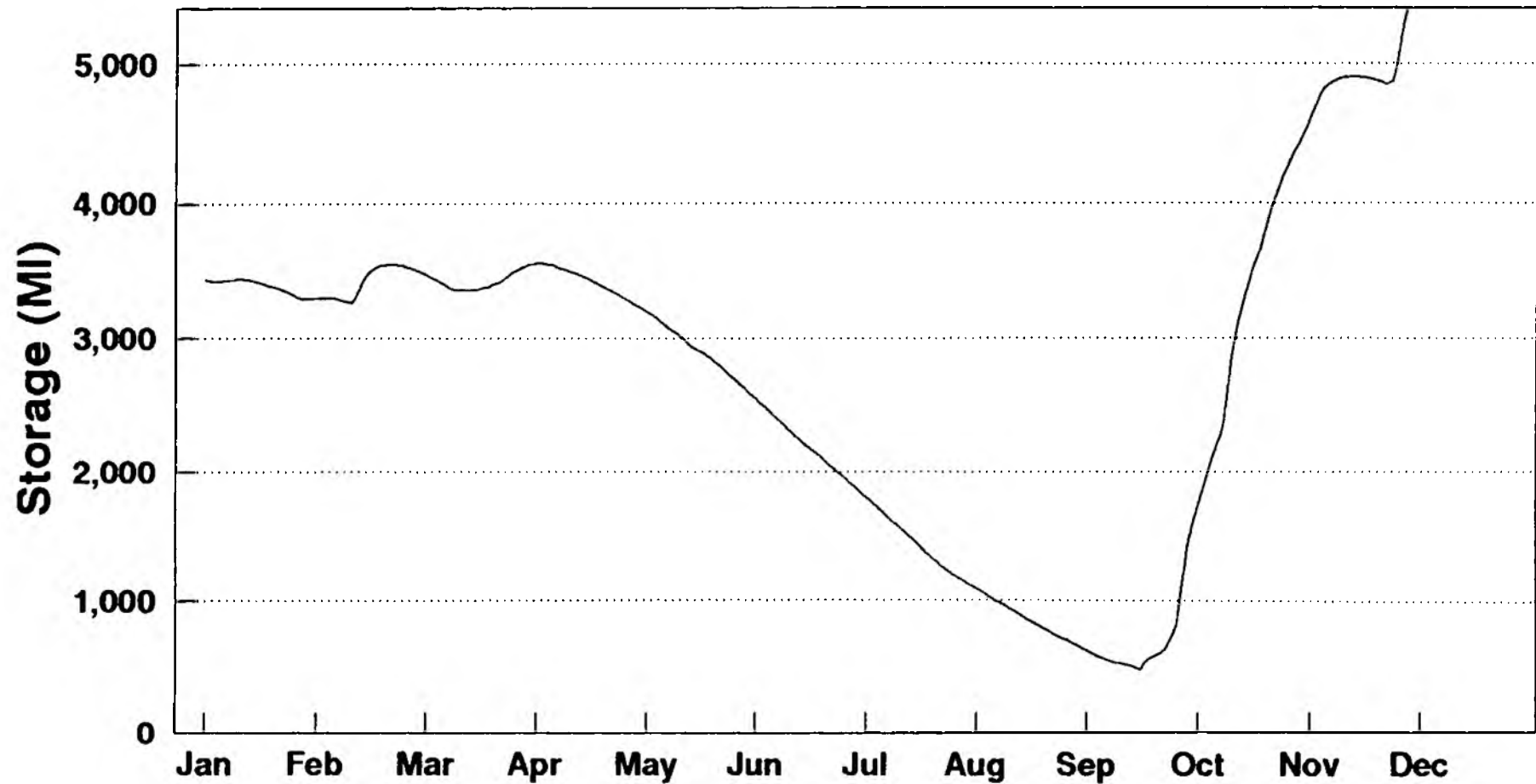
Case 1

1975

1991 reduced abstractions - 18.95 MI/d
Lowest storage in 1976 483MI
Zero live storage 486MI

Figure 8

Clatworthy Reservoir 1976



1976

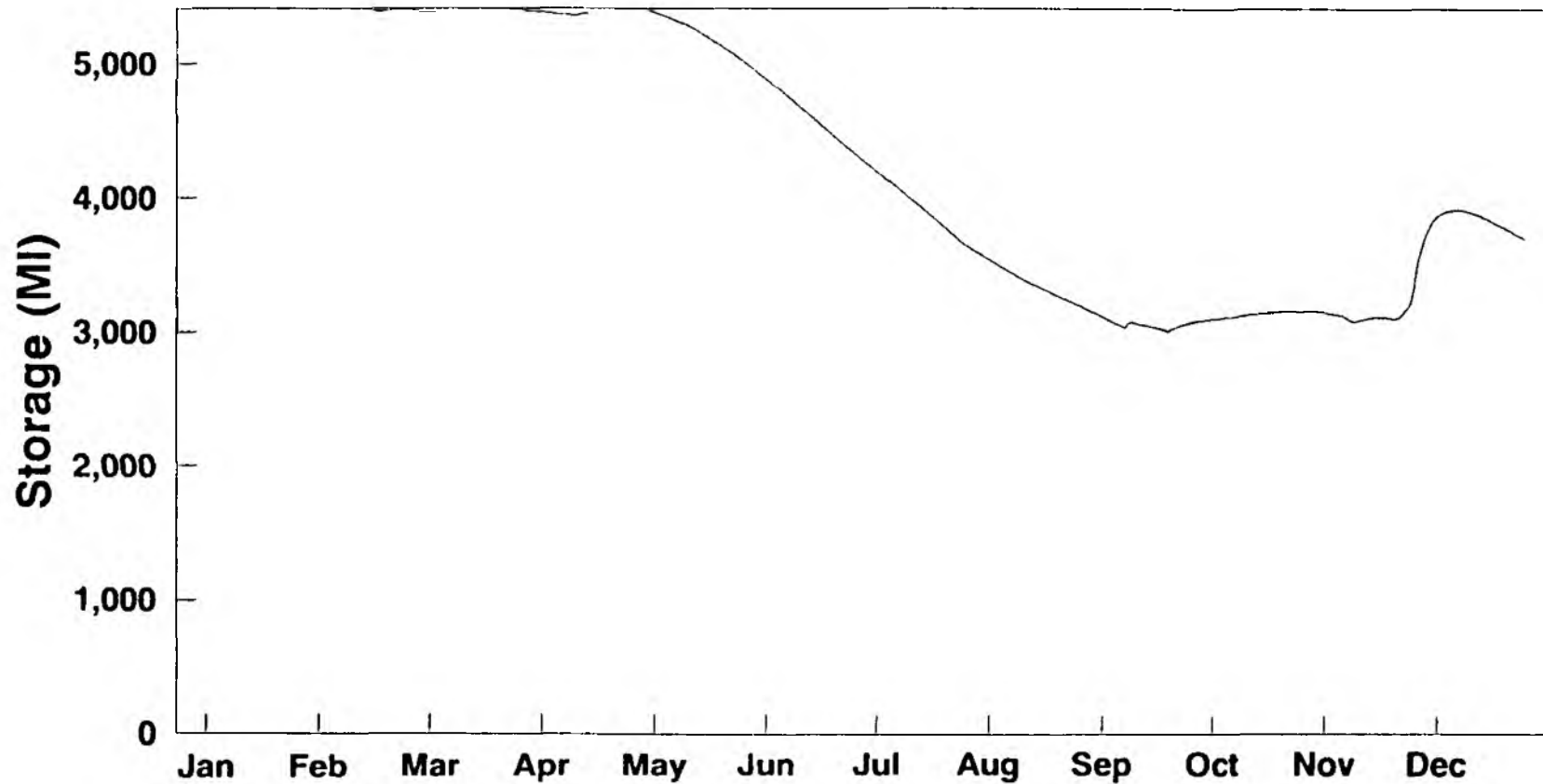
Case 1

1991 reduced abstractions - 18.95 MI/d

Reservoir drawn down to 483MI

Dead storage 486 MI

Figure 9 Clatworthy Reservoir 1975



Case 2

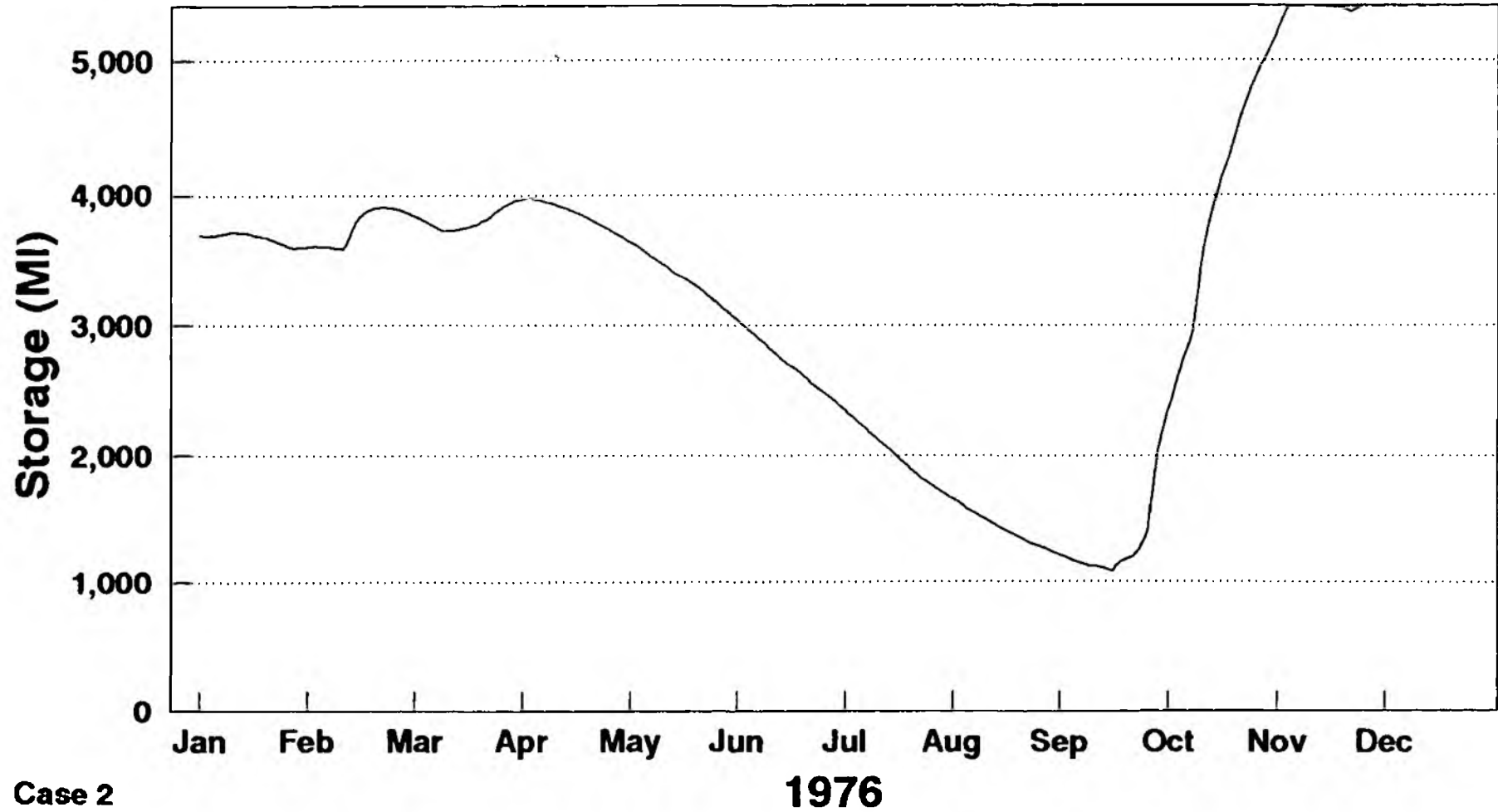
1975

1991 reduced abstractions - 17.75 MI/d

20% of gross storage 1080.8MI

Lowest storage in 76 - 1086MI

Figure 10 **Clatworthy Reservoir 1976**



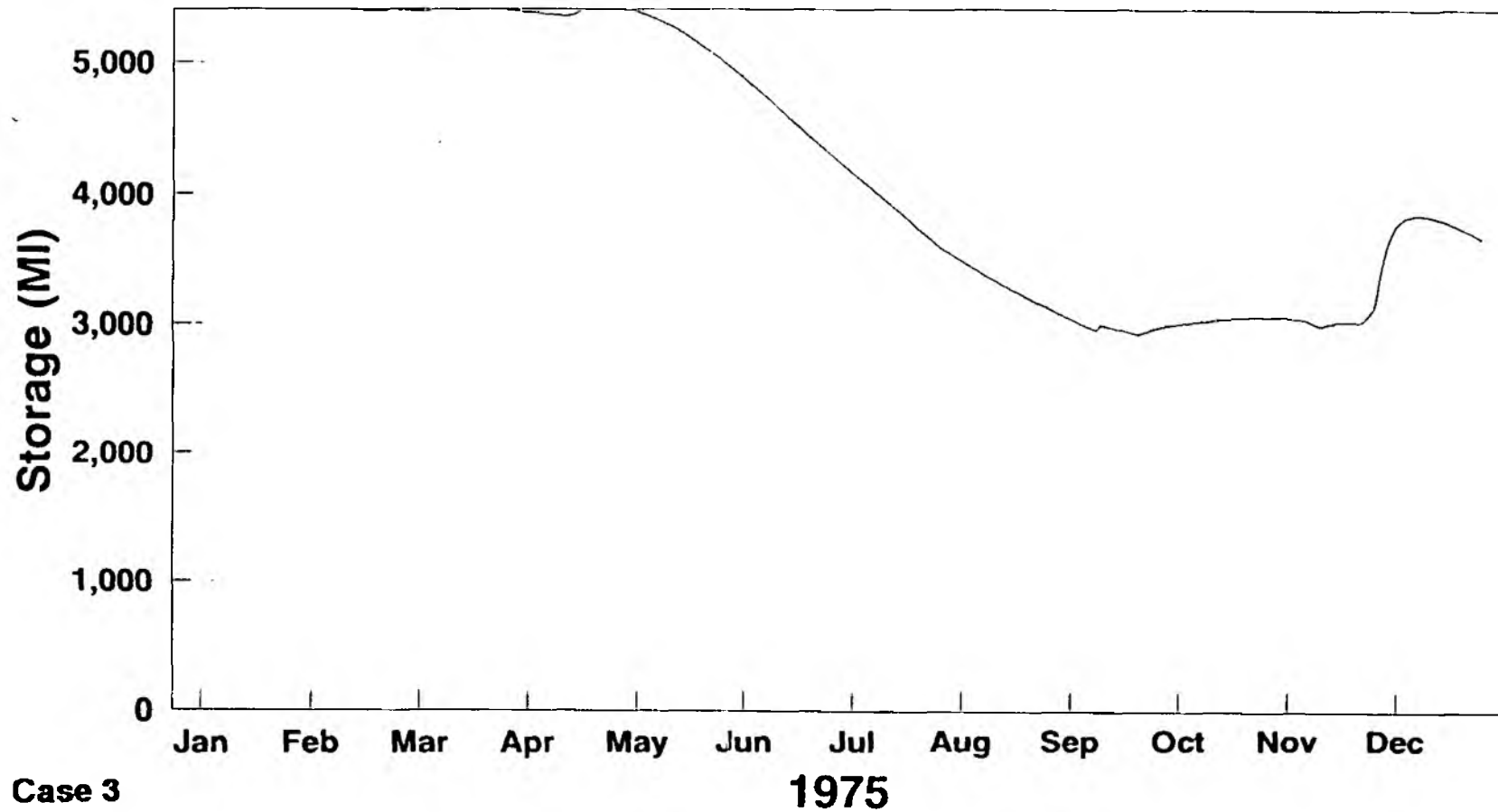
Case 2

1991 reduced abstractions - 17.75ml/d

20% of gross storage 1080.8MI

Lowest storage in 76 - 1086MI

Figure 11 Clatworthy Reservoir 1975



Case 3

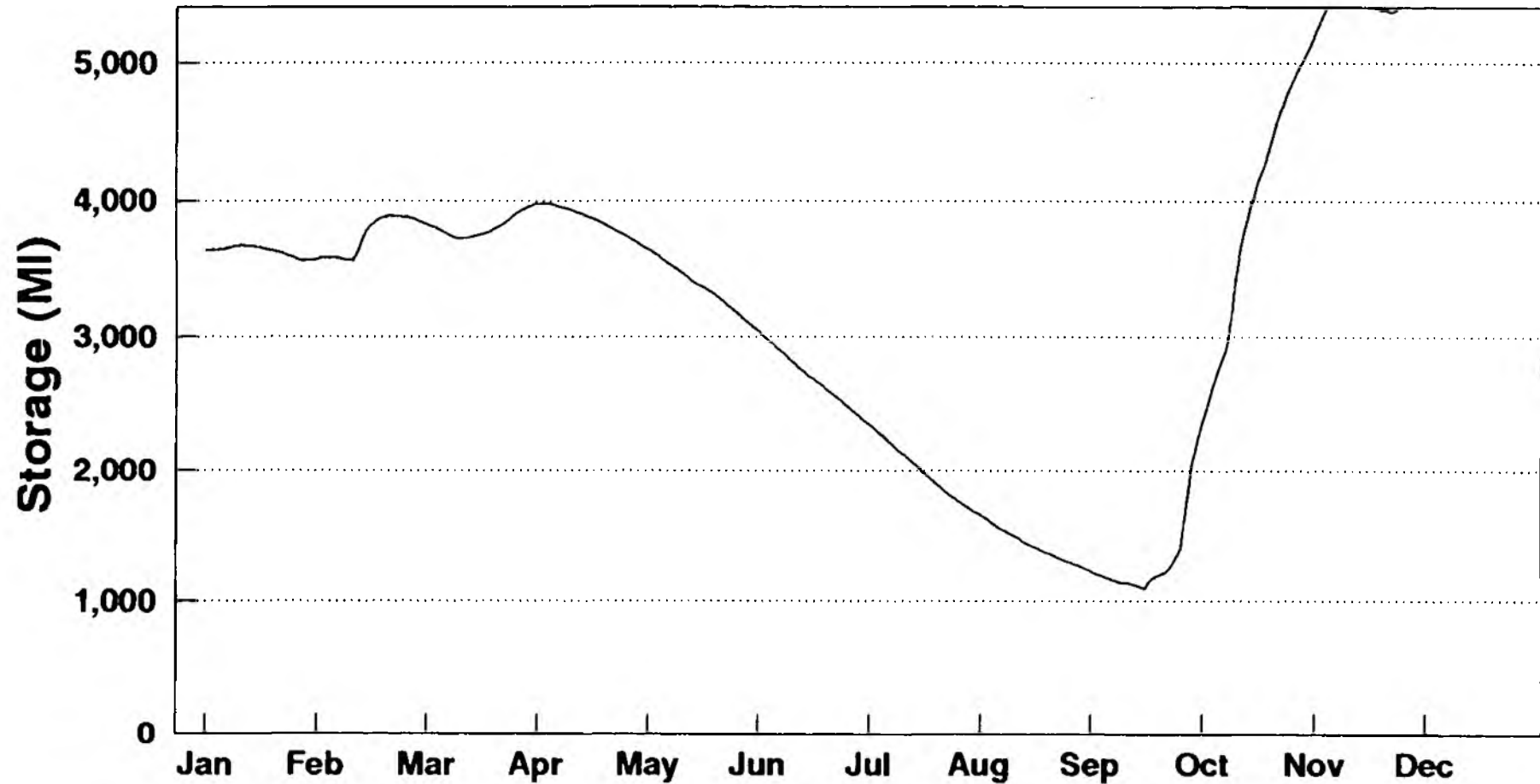
1991 reduced abstractions - 17.01 MI/d

20% of gross storage 1080.8MI

Lowest storage in 76 - 1086MI

Figure 12

Clatworthy Reservoir 1976



1976

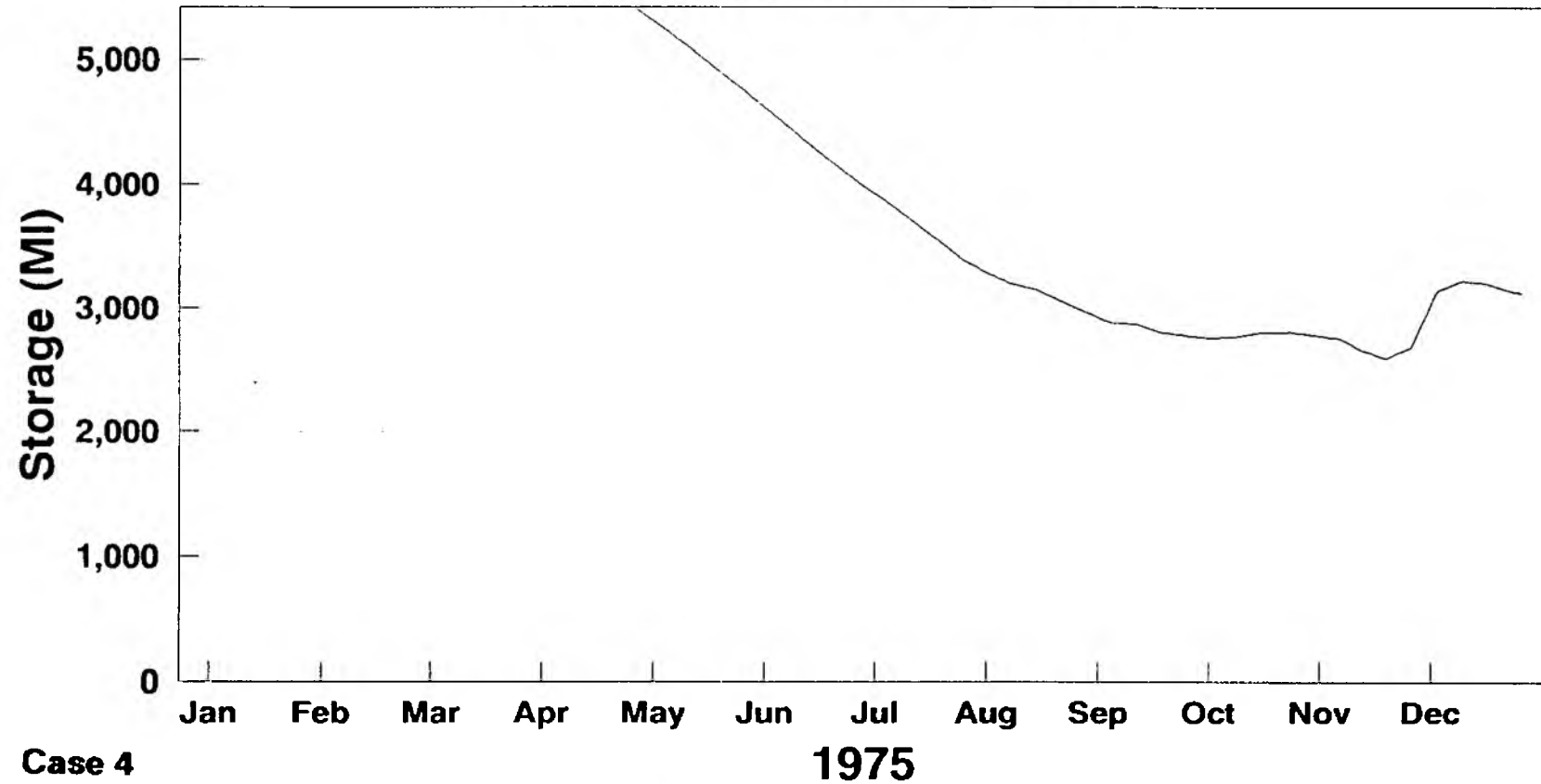
Case 3

1991 reduced abstractions - 17.01 MI/d

20% of gross storage 1080.8MI

Evaporation included in assessment

Figure 13 **Clatworthy Reservoir 1975**
Using averaged Wessex Water inflows



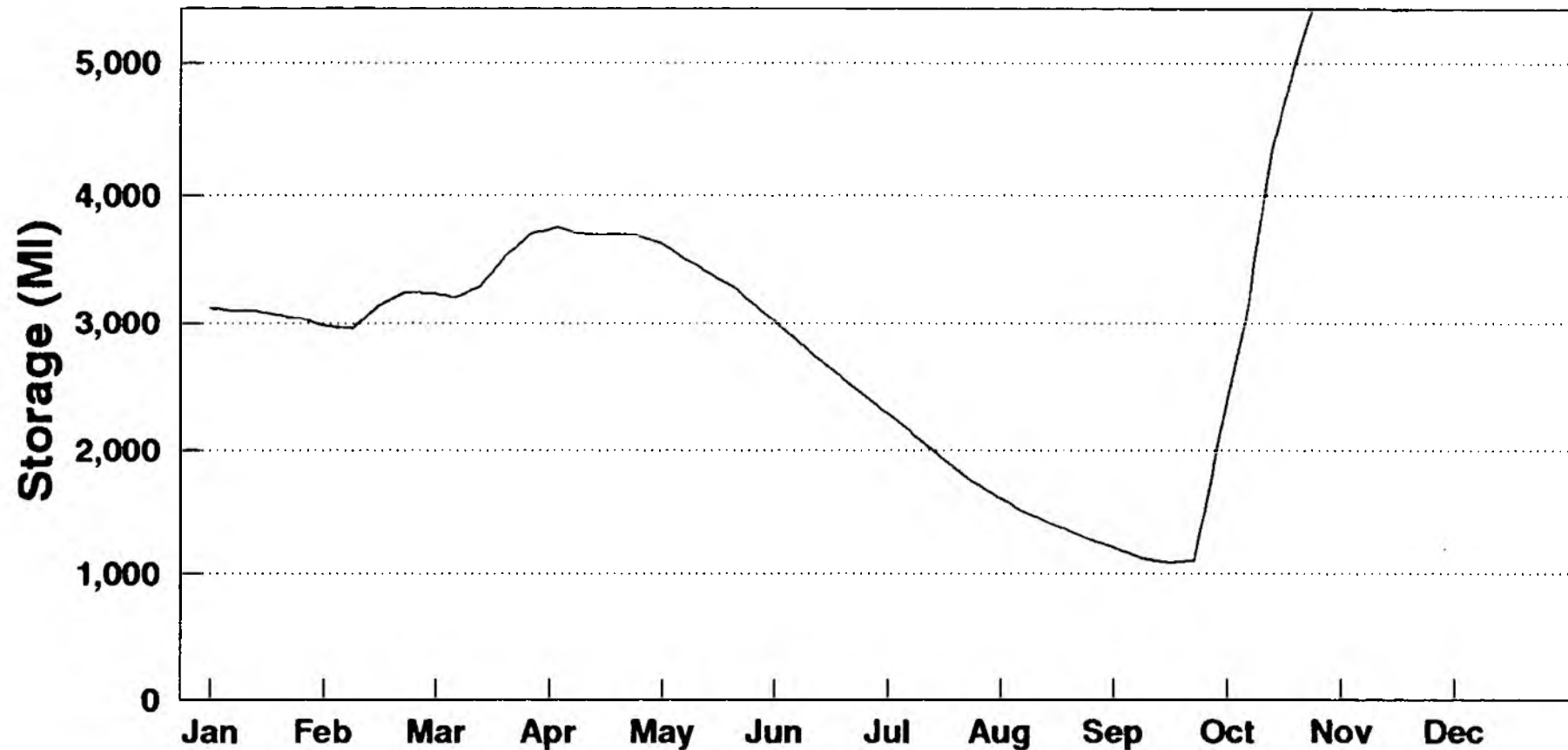
Case 4

1991 reduced abstractions - 16.2 MI/d

20% of gross storage 1080.8MI

Lowest storage in 76 - 1085.8MI

Figure 14 **Clatworthy Reservoir 1976**
Using averaged Wessex Water inflows



Case 4

1976

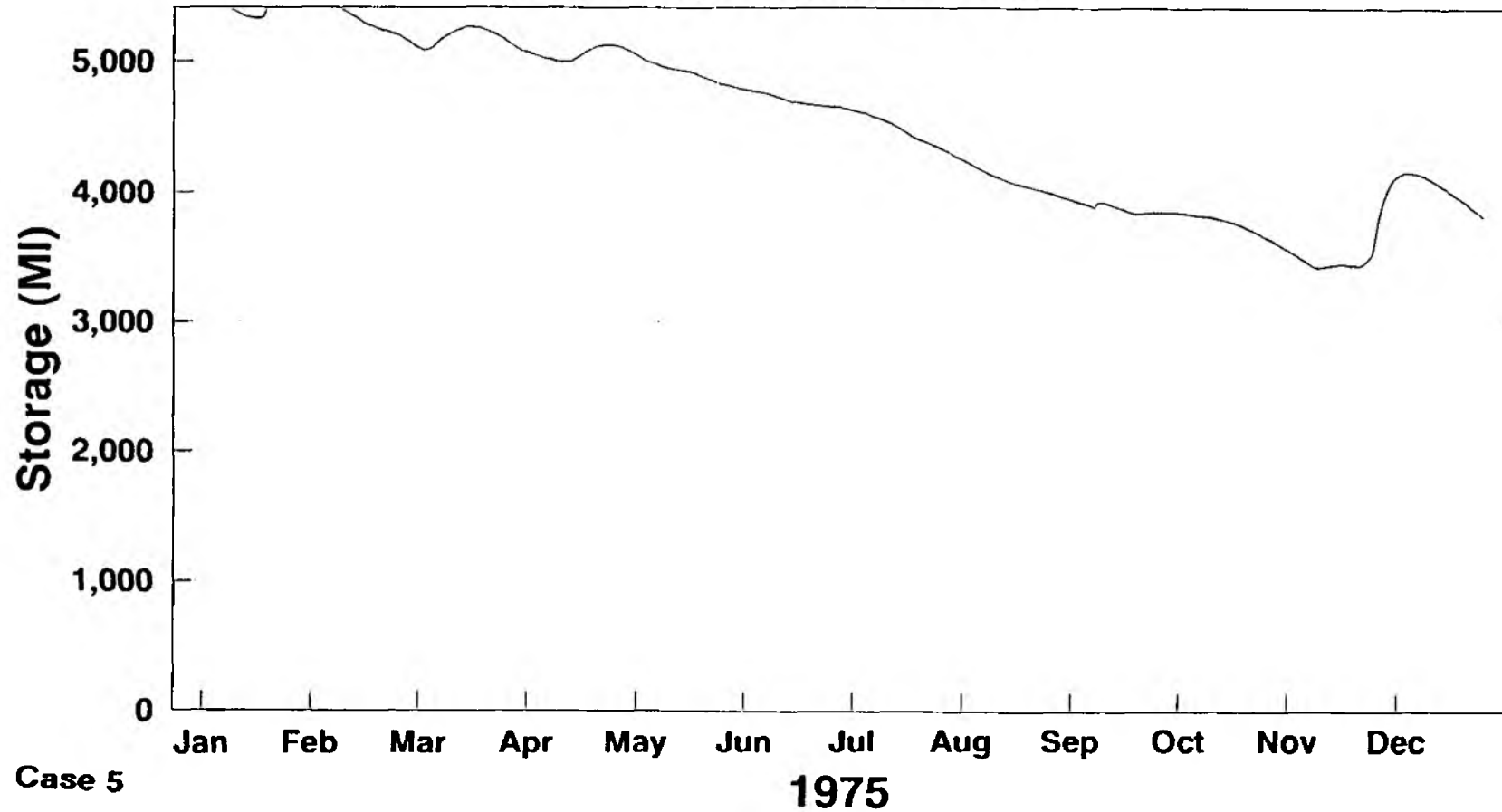
1991 reduced abstractions - 16.2MI/d

20% of gross storage 1080.8MI

Lowest storage in 76 - 1085.8MI

Figure 15

Clatworthy Reservoir 1975



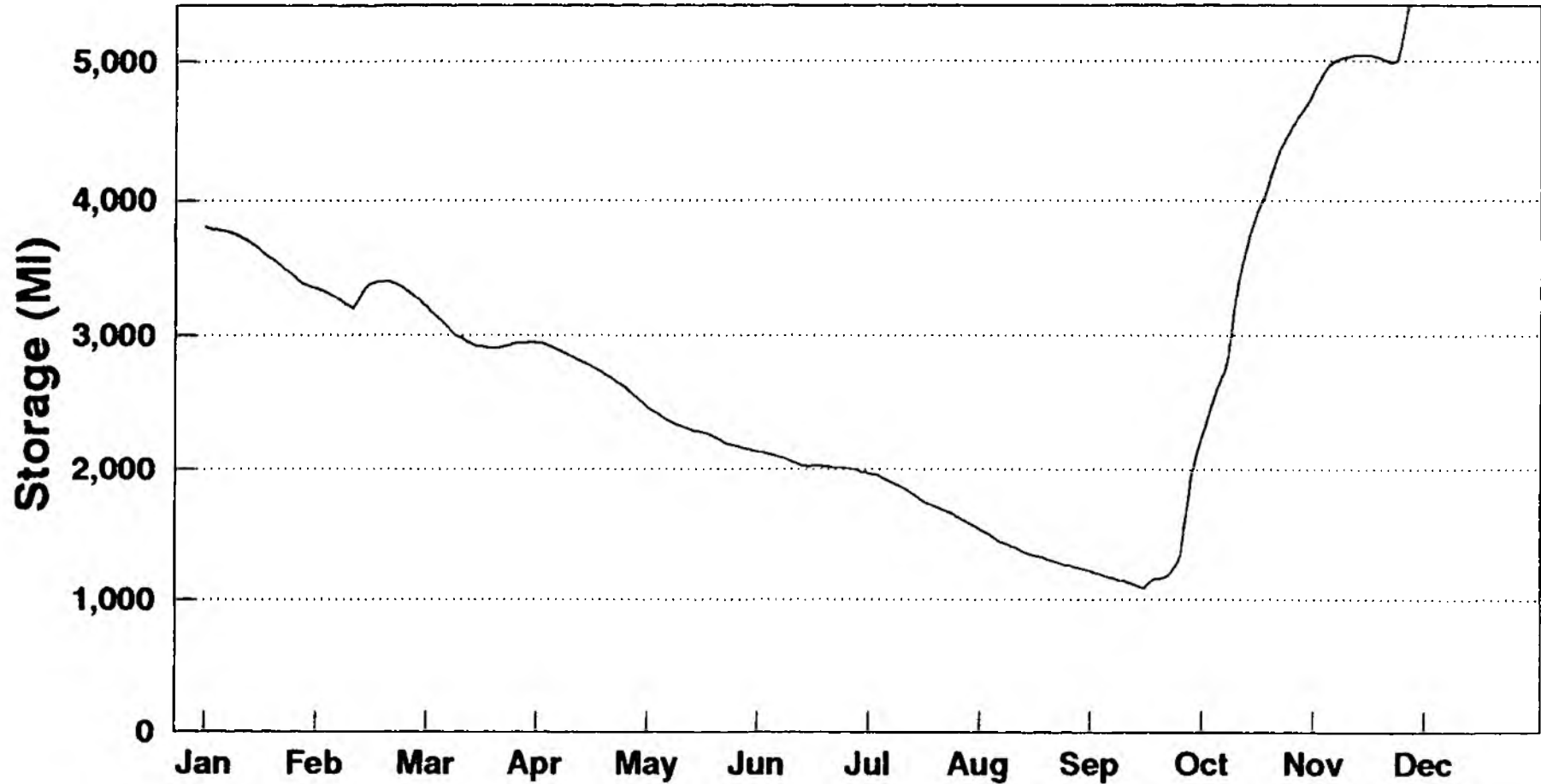
Case 5

1990 increased abstractions - 20.05 MI/d

20% of gross storage 1080.8MI

Lowest storage in 76 - 1081MI

Figure 16 **Clatworthy Reservoir 1976**



Case 5

1976

1990 increased abstractions - 20.05ml/d

20% of gross storage 1080.8MI

Lowest storage in 76 - 1081MI

Table 1: Clatworthy Reservoir - Summary of results

| Case | 1 | 2 | 3 | 4 |
|---------------------------------------|-------------------|-------------------|-------------------|--------------------|
| Inflows | NRA SW 75/76 | NRA SW 75/76 | NRA SW 75/76 | Wessex Water 75/76 |
| Failure criteria | Zero live storage | 20% gross storage | 20% gross storage | 20% gross storage |
| Demand ratio | 1991 | 1991 | 1991 | 1991 |
| Evaporation | No | No | Yes | No |
| Average Annual Drought Reliable Yield | 18.95 | 17.75 | 17.01 | 16.2 |

All values given in ML/d

Gross capacity of Clatworthy 5404 ML

20% of gross capacity = 1080.8ML

Dead storage = 486ML

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| |
|-------------------|
| 5 |
| NRA SW 75/76 |
| 20% gross storage |
| 1990 |
| No |
| 20.05 |

Inflows

NRA SW inflows have been calculated using the naturalised Wimbleball inflow sequence and the ratios of ADF at Clatworthy and Wimbleball dam. WW inflows have been calculated using a water balance and have been averaged by NRA SW to remove the negatives.

NRA SW Assumptions.

1975/76 is equivalent to the 1:50 year critical drought.

18 month critical period.

No leakage from the reservoir.

With the exception of case 3 it is assumed there is no direct evaporation from the reservoir.

No direct rainfall into the reservoir.

The licensed compensation release of 4.55Ml/d is released every day.

Reservoir was full at the beginning of the analysis.

The same demand profile has been applied to both 1975 and 1976.

Weekly abstraction values from the Wessex Water spreadsheet have been used to produce the demand profiles.

Wessex Water average annual drought reliable yield = 15.8 Ml/d.

Wessex Water assumptions.

2 year critical period.

APPENDIX 1

Wessex Water spreadsheet

| DATE wk ending | Inflow Smoothed Corrected | Comp.flow and Overflow | Output | Change in storage | Storage 5160.0 |
|-------------------|---------------------------------|------------------------------|--------|----------------------|-------------------|
| 06/01/75 | 548.8 | 335.2 | 161.6 | 52.0 | 5212.0 |
| 13/01/75 | 284.1 | 39.3 | 142.6 | 102.0 | 5314.0 |
| 20/01/75 | 373.9 | 253.7 | 152.2 | -32.0 | 5282.0 |
| 27/01/75 | 1127.1 | 921.2 | 156.0 | 50.0 | 5332.0 |
| 03/02/75 | 934.4 | 841.3 | 161.1 | -68.0 | 5264.0 |
| 10/02/75 | 495.9 | 325.9 | 162.0 | -52.0 | 5212.0 |
| 17/02/75 | 278.4 | 32.7 | 159.7 | 86.0 | 5298.0 |
| 24/02/75 | 264.1 | 33.6 | 164.5 | 66.0 | 5364.0 |
| 03/03/75 | 247.4 | 99.5 | 163.9 | -16.0 | 5348.0 |
| 10/03/75 | 314.0 | 136.8 | 161.2 | 16.0 | 5364.0 |
| 17/03/75 | 445.0 | 335.0 | 143.0 | -33.0 | 5331.0 |
| 24/03/75 | 302.1 | 158.3 | 143.8 | 0.0 | 5331.0 |
| 31/03/75 | 179.9 | 59.4 | 137.5 | -17.0 | 5314.0 |
| 07/04/75 | 193.1 | 37.7 | 138.4 | 17.0 | 5331.0 |
| 14/04/75 | 196.7 | 45.1 | 151.6 | 0.0 | 5331.0 |
| 21/04/75 | 206.9 | 45.7 | 161.2 | 0.0 | 5331.0 |
| 28/04/75 | 261.5 | 64.7 | 163.8 | 33.0 | 5364.0 |
| 05/05/75 | 191.1 | 46.7 | 160.5 | -16.0 | 5348.0 |
| 12/05/75 | 71.0 | 31.6 | 102.4 | -122.0 | 5226.0 |
| 19/05/75 | 11.0 | 31.1 | 160.8 | -173.0 | 5053.0 |
| 26/05/75 | 28.1 | 31.9 | 158.2 | -153.0 | 4899.0 |
| 02/06/75 | -18.2 | 31.9 | 163.4 | -203.0 | 4696.0 |
| 09/06/75 | 16.8 | 31.9 | 165.4 | -176.0 | 4520.0 |
| 16/06/75 | 7.5 | 31.9 | 153.1 | -174.0 | 4346.0 |
| 23/06/75 | -64.7 | 31.9 | 154.3 | -238.0 | 4108.0 |
| 30/06/75 | -50.3 | 31.9 | 152.6 | -232.0 | 3876.0 |
| 07/07/75 | -38.0 | 31.9 | 147.7 | -244.0 | 3632.0 |
| 14/07/75 | -73.1 | 32.5 | 123.0 | -238.0 | 3394.0 |
| 21/07/75 | 62.5 | 32.6 | 119.9 | -90.0 | 3304.0 |
| 28/07/75 | -0.6 | 32.8 | 149.6 | -184.1 | 3120.0 |
| 04/08/75 | 12.7 | 31.9 | 150.9 | -109.0 | 3011.0 |
| 11/08/75 | 23.9 | 32.0 | 157.0 | -163.0 | 2848.0 |
| 18/08/75 | 52.8 | 32.6 | 142.3 | -122.0 | 2726.0 |
| 25/08/75 | 19.7 | 32.5 | 133.2 | -153.0 | 2573.0 |
| 01/09/75 | -7.7 | 34.3 | 145.0 | -187.0 | 2386.0 |
| 08/09/75 | 0.0 | 33.1 | 140.0 | -183.0 | 2203.0 |
| 15/09/75 | 80.2 | 31.9 | 138.2 | -83.0 | 2120.0 |
| 22/09/75 | 7.0 | 72.7 | 140.8 | -163.0 | 1957.0 |
| 29/09/75 | -11.1 | 52.3 | 138.7 | -152.0 | 1805.0 |
| 06/10/75 | 81.0 | 31.9 | 130.9 | -73.0 | 1732.0 |
| 13/10/75 | 63.4 | 31.9 | 137.7 | -100.0 | 1632.0 |
| 20/10/75 | 74.0 | 21.3 | 167.0 | -115.0 | 1517.0 |
| 27/10/75 | 37.9 | 31.9 | 125.5 | -113.0 | 1404.0 |
| 03/11/75 | 42.0 | 31.9 | 121.4 | -105.0 | 1299.0 |
| 10/11/75 | 50.3 | 31.9 | 112.7 | -77.0 | 1222.0 |
| 17/11/75 | 61.8 | 31.9 | 116.6 | -73.0 | 1149.0 |
| 24/11/75 | 113.1 | 31.9 | 103.7 | 0.0 | 1149.0 |
| 01/12/75 | 285.0 | 31.9 | 101.3 | 164.0 | 1313.0 |
| 08/12/75 | 641.3 | 31.9 | 104.1 | 522.0 | 1835.0 |
| 15/12/75 | 221.3 | 31.9 | 105.0 | 160.0 | 1995.0 |
| 22/12/75 | 161.1 | 31.0 | 103.7 | 37.0 | 2032.0 |
| 29/12/75 | 118.0 | 31.0 | 109.6 | -7.0 | 2025.0 |
| 05/01/76 | 143.3 | 31.9 | 109.6 | 21.0 | 2046.0 |
| 12/01/76 | 172.0 | 31.9 | 109.6 | 50.0 | 2096.0 |
| 19/01/76 | 104.1 | 31.9 | 108.7 | 12.0 | 2108.0 |
| 26/01/76 | 112.1 | 31.9 | 111.6 | 17.0 | 2125.0 |
| 02/02/76 | 110.0 | 31.9 | 113.6 | -7.0 | 2118.0 |
| 09/02/76 | 172.0 | 31.9 | 116.9 | 42.0 | 2160.0 |
| 16/02/76 | 240.0 | 31.0 | 113.7 | 226.0 | 2386.0 |
| 23/02/76 | 130.9 | 31.9 | 114.5 | 153.0 | 2539.0 |

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|----------|--------|------|-------|--------|--------|
| 01/03/76 | 175.5 | 31.9 | 102.0 | 60.0 | 2496.0 |
| 08/03/76 | 143.9 | 31.9 | 130.4 | 0.0 | 2496.0 |
| 15/03/76 | 250.2 | 31.9 | 111.7 | 129.0 | 2625.0 |
| 22/03/76 | 411.5 | 31.9 | 119.9 | 283.0 | 2908.0 |
| 29/03/76 | 561.5 | 31.9 | 116.0 | 237.0 | 3145.0 |
| 05/04/76 | 221.2 | 31.9 | 112.1 | 102.0 | 3247.0 |
| 12/04/76 | 119.9 | 31.9 | 113.5 | 0.0 | 3247.0 |
| 19/04/76 | 150.6 | 31.9 | 103.1 | 11.0 | 3283.0 |
| 26/04/76 | 148.7 | 31.9 | 108.2 | 34.0 | 3322.0 |
| 03/05/76 | 93.7 | 31.9 | 98.4 | -11.0 | 3311.0 |
| 10/05/76 | 19.0 | 31.9 | 97.0 | -84.0 | 3227.0 |
| 17/05/76 | 45.4 | 31.9 | 100.4 | -01.0 | 3166.0 |
| 24/05/76 | 54.5 | 31.9 | 99.5 | -51.0 | 3115.0 |
| 31/05/76 | 38.7 | 31.9 | 101.7 | -69.0 | 3046.0 |
| 07/06/76 | -11.3 | 31.9 | 113.6 | -130.0 | 2916.0 |
| 14/06/76 | 9.9 | 31.9 | 112.7 | -108.0 | 2808.0 |
| 21/06/76 | 28.6 | 31.9 | 111.5 | -88.0 | 2720.0 |
| 28/06/76 | -14.7 | 31.9 | 101.2 | -121.0 | 2599.0 |
| 05/07/76 | 8.8 | 31.9 | 122.3 | -121.0 | 2478.0 |
| 12/07/76 | -3.7 | 31.9 | 106.9 | -119.0 | 2359.0 |
| 19/07/76 | -7.0 | 31.9 | 107.6 | -123.0 | 2236.0 |
| 26/07/76 | 9.2 | 31.9 | 117.8 | -117.0 | 2119.0 |
| 02/08/76 | -8.9 | 31.9 | 105.8 | -122.0 | 1996.0 |
| 09/08/76 | -9.8 | 31.9 | 96.9 | -114.0 | 1882.0 |
| 16/08/76 | -57.8 | 31.9 | 83.8 | -155.0 | 1727.0 |
| 23/08/76 | 70.9 | 31.9 | 94.0 | -22.0 | 1692.0 |
| 30/08/76 | -11.9 | 31.9 | 76.9 | -127.0 | 1568.0 |
| 06/09/76 | 21.6 | 31.9 | 72.8 | -29.0 | 1509.0 |
| 13/09/76 | 10.0 | 31.9 | 75.9 | -73.0 | 1438.0 |
| 20/09/76 | 45.9 | 31.9 | 65.1 | -27.0 | 1409.0 |
| 27/09/76 | 76.0 | 31.9 | 65.8 | 32.0 | 1442.0 |
| 04/10/76 | 1082.1 | 31.9 | 65.7 | 1013.0 | 2461.0 |
| 11/10/76 | 961.6 | 31.9 | 63.6 | 683.0 | 3530.0 |
| 18/10/76 | 1337.2 | 31.9 | 67.8 | 1281.2 | 4631.0 |
| 25/10/76 | 741.4 | 31.9 | 66.2 | 638.0 | 5134.0 |
| 01/11/76 | 117.9 | 31.9 | 44.1 | -56.0 | 5079.0 |
| 08/11/76 | 646.0 | 31.9 | 11.8 | 5.0 | 5104.0 |
| 15/11/76 | 378.2 | 31.9 | 130.1 | -50.0 | 5073.0 |
| 22/11/76 | 174.8 | 31.9 | 126.6 | -76.0 | 5042.0 |
| 29/11/76 | 201.9 | 31.9 | 128.1 | 0.0 | 5063.0 |
| 06/12/76 | 104.1 | 31.9 | 147.8 | 031.0 | 5354.0 |
| 13/12/76 | 634.8 | 31.9 | 145.8 | 0.0 | 5301.0 |
| 20/12/76 | 583.2 | 31.9 | 140.9 | 0.0 | 5250.0 |
| 27/12/76 | 108.6 | 31.9 | 141.8 | 0.0 | 5199.0 |
| 03/01/77 | 876.1 | 31.9 | 154.8 | -10.0 | 5343.0 |

APPENDIX 2

METHOD USED BY WESSEX WATER SERVICES LIMITED TO CALCULATE THE
YIELD AVAILABLE FROM CLATWORTHY RESERVOIR

This method of yield assessment has four main stages, as detailed below:

1. Calculation of Historic Inflows.

Historic net inflows were calculated for 1975-1991 using a simple water balance equation. $\text{Inflow} = \text{storage at start of time step} - \text{storage at end of time step} + \text{output to supply} + \text{outflow from reservoir}$. Storage data for the start and end of each time-step along with the resultant change in storage, output to supply and outflow from the reservoir for 1975/76 are shown in Appendix 1.

Overspill is not measured at Clatworthy. Therefore when the reservoir was full inflows were calculated from correlation with either a reservoir with measured spillage or recorded flows at a nearby gauging station with similar catchment characteristics. Evaporation, leakage and direct rainfall onto the reservoir were not modelled. The absence of evaporation and leakage terms and possibly measurement error meant negative inflows were calculated during long, hot, dry periods when evaporation and leakage were greater than gross inflow.

2. Yield Analysis using the Historic Inflows Data.

The inflows and monthly demand variations were input into a model to calculate, for every year, the inflows that occurred in periods starting each week of the year and lasting for between 1 and 104 weeks. On a monthly basis the storage required to meet various levels of demand for durations up to two years were calculated. The maximum required storage is the highest value, out of all the durations considered, of demand less the inflow. The duration that gives this maximum required storage is termed the critical period. If this is less than 52 weeks the reservoir will fill each winter even under design drought conditions.

3. Reliable Yield.

The reliable yield of Clatworthy was taken as the highest yield which has monthly maximum required storage values all below the storage capacity of the reservoir. This assessment assumed 80% of gross storage was available for use and 20% was reserved for use in the greater than 1:50 year design drought event.

4. Control Curve.

The monthly maximum required storage value for the reliable yield can then be used to produce a control curve.

APPENDIX 3

CASE 1:

Clatworthy Reservoir

1991

| Date | Inflow (cumecs) | Inflow (ML/d) | Ratio to Average | Reduced Abstraction 18.95 ML/d | C.R | Outflow (ML/d) | Storage change |
|-----------|--------------------|------------------|---------------------|--------------------------------------|------|-------------------|-------------------|
| 01-JAN-75 | 0.889 | 76.810 | 1.283 | 24.306 | 4.55 | 28.856 | 47.954 |
| 02-JAN-75 | 0.751 | 64.886 | 1.283 | 24.306 | 4.55 | 28.856 | 36.031 |
| 03-JAN-75 | 0.628 | 54.259 | 1.283 | 24.306 | 4.55 | 28.856 | 25.404 |
| 04-JAN-75 | 0.536 | 46.310 | 1.283 | 24.306 | 4.55 | 28.856 | 17.455 |
| 05-JAN-75 | 0.472 | 40.781 | 1.283 | 24.306 | 4.55 | 28.856 | 11.925 |
| 06-JAN-75 | 0.441 | 38.102 | 1.283 | 24.306 | 4.55 | 28.856 | 9.247 |
| 07-JAN-75 | 0.402 | 34.733 | 1.283 | 24.306 | 4.55 | 28.856 | 5.877 |
| 08-JAN-75 | 0.370 | 31.968 | 1.250 | 23.684 | 4.55 | 28.234 | 3.734 |
| 09-JAN-75 | 0.340 | 29.376 | 1.250 | 23.684 | 4.55 | 28.234 | 1.142 |
| 10-JAN-75 | 0.317 | 27.389 | 1.250 | 23.684 | 4.55 | 28.234 | -0.845 |
| 11-JAN-75 | 0.308 | 26.611 | 1.250 | 23.684 | 4.55 | 28.234 | -1.623 |
| 12-JAN-75 | 0.356 | 30.758 | 1.250 | 23.684 | 4.55 | 28.234 | 2.524 |
| 13-JAN-75 | 0.324 | 27.994 | 1.250 | 23.684 | 4.55 | 28.234 | -0.241 |
| 14-JAN-75 | 0.393 | 33.955 | 1.250 | 23.684 | 4.55 | 28.234 | 5.721 |
| 15-JAN-75 | 0.418 | 36.115 | 1.228 | 23.270 | 4.55 | 27.820 | 8.295 |
| 16-JAN-75 | 0.421 | 36.374 | 1.228 | 23.270 | 4.55 | 27.820 | 8.554 |
| 17-JAN-75 | 0.504 | 43.546 | 1.228 | 23.270 | 4.55 | 27.820 | 15.726 |
| 18-JAN-75 | 0.536 | 46.310 | 1.228 | 23.270 | 4.55 | 27.820 | 18.490 |
| 19-JAN-75 | 1.119 | 96.682 | 1.228 | 23.270 | 4.55 | 27.820 | 68.862 |
| 20-JAN-75 | 1.202 | 103.853 | 1.228 | 23.270 | 4.55 | 27.820 | 76.033 |
| 21-JAN-75 | 1.383 | 119.491 | 1.228 | 23.270 | 4.55 | 27.820 | 91.671 |
| 22-JAN-75 | 2.653 | 229.219 | 1.303 | 24.696 | 4.55 | 29.246 | 199.373 |
| 23-JAN-75 | 2.168 | 187.315 | 1.303 | 24.696 | 4.55 | 29.246 | 158.069 |
| 24-JAN-75 | 1.705 | 147.312 | 1.303 | 24.696 | 4.55 | 29.246 | 118.066 |
| 25-JAN-75 | 1.554 | 134.266 | 1.303 | 24.696 | 4.55 | 29.246 | 105.020 |
| 26-JAN-75 | 1.537 | 132.797 | 1.303 | 24.696 | 4.55 | 29.246 | 103.551 |
| 27-JAN-75 | 1.313 | 113.443 | 1.303 | 24.696 | 4.55 | 29.246 | 84.197 |
| 28-JAN-75 | 2.211 | 191.030 | 1.303 | 24.696 | 4.55 | 29.246 | 161.784 |
| 29-JAN-75 | 1.823 | 157.507 | 1.320 | 25.007 | 4.55 | 29.557 | 127.951 |
| 30-JAN-75 | 1.678 | 144.979 | 1.320 | 25.007 | 4.55 | 29.557 | 115.423 |
| 31-JAN-75 | 1.606 | 138.758 | 1.320 | 25.007 | 4.55 | 29.557 | 109.702 |
| 01-FEB-75 | 1.412 | 121.997 | 1.320 | 25.007 | 4.55 | 29.557 | 92.440 |
| 02-FEB-75 | 1.149 | 99.274 | 1.320 | 25.007 | 4.55 | 29.557 | 69.717 |
| 03-FEB-75 | 0.938 | 81.043 | 1.320 | 25.007 | 4.55 | 29.557 | 51.487 |
| 04-FEB-75 | 0.769 | 66.442 | 1.320 | 25.007 | 4.55 | 29.557 | 36.885 |
| 05-FEB-75 | 0.643 | 55.555 | 1.328 | 25.174 | 4.55 | 29.724 | 25.831 |
| 06-FEB-75 | 0.565 | 48.816 | 1.328 | 25.174 | 4.55 | 29.724 | 19.092 |
| 07-FEB-75 | 0.487 | 42.077 | 1.328 | 25.174 | 4.55 | 29.724 | 12.353 |
| 08-FEB-75 | 0.420 | 36.288 | 1.328 | 25.174 | 4.55 | 29.724 | 6.564 |
| 09-FEB-75 | 0.360 | 31.104 | 1.328 | 25.174 | 4.55 | 29.724 | 1.380 |
| 10-FEB-75 | 0.373 | 32.227 | 1.328 | 25.174 | 4.55 | 29.724 | 2.503 |
| 11-FEB-75 | 0.330 | 28.512 | 1.328 | 25.174 | 4.55 | 29.724 | -1.212 |
| 12-FEB-75 | 0.316 | 27.302 | 1.325 | 25.102 | 4.55 | 29.652 | -2.350 |
| 13-FEB-75 | 0.292 | 25.229 | 1.325 | 25.102 | 4.55 | 29.652 | -4.423 |
| 14-FEB-75 | 0.278 | 24.019 | 1.325 | 25.102 | 4.55 | 29.652 | -5.633 |
| 15-FEB-75 | 0.266 | 22.982 | 1.325 | 25.102 | 4.55 | 29.652 | -6.670 |
| 16-FEB-75 | 0.266 | 22.982 | 1.325 | 25.102 | 4.55 | 29.652 | -6.670 |
| 17-FEB-75 | 0.306 | 26.438 | 1.325 | 25.102 | 4.55 | 29.652 | -3.214 |
| 18-FEB-75 | 0.366 | 31.622 | 1.325 | 25.102 | 4.55 | 29.652 | 1.970 |
| 19-FEB-75 | 0.323 | 27.907 | 1.282 | 24.290 | 4.55 | 28.840 | -0.932 |
| 20-FEB-75 | 0.329 | 28.426 | 1.282 | 24.290 | 4.55 | 28.840 | -0.414 |
| 21-FEB-75 | 0.330 | 28.512 | 1.282 | 24.290 | 4.55 | 28.840 | -0.328 |

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|-----------|-------|--------|-------|--------|------|--------|---------|
| 20-APR-75 | 0.489 | 42.250 | 1.061 | 20.107 | 4.55 | 24.657 | 17.592 |
| 21-APR-75 | 0.516 | 44.582 | 1.061 | 20.107 | 4.55 | 24.657 | 19.925 |
| 22-APR-75 | 0.470 | 40.608 | 1.061 | 20.107 | 4.55 | 24.657 | 15.951 |
| 23-APR-75 | 0.429 | 37.066 | 1.068 | 20.235 | 4.55 | 24.785 | 12.281 |
| 24-APR-75 | 0.388 | 33.523 | 1.068 | 20.235 | 4.55 | 24.785 | 8.738 |
| 25-APR-75 | 0.360 | 31.104 | 1.068 | 20.235 | 4.55 | 24.785 | 6.319 |
| 26-APR-75 | 0.329 | 28.426 | 1.068 | 20.235 | 4.55 | 24.785 | 3.641 |
| 27-APR-75 | 0.303 | 26.179 | 1.068 | 20.235 | 4.55 | 24.785 | 1.394 |
| 28-APR-75 | 0.282 | 24.365 | 1.068 | 20.235 | 4.55 | 24.785 | -0.420 |
| 29-APR-75 | 0.267 | 23.069 | 1.068 | 20.235 | 4.55 | 24.785 | -1.716 |
| 30-APR-75 | 0.245 | 21.168 | 1.028 | 19.486 | 4.55 | 24.036 | -2.868 |
| 01-MAY-75 | 0.235 | 20.304 | 1.028 | 19.486 | 4.55 | 24.036 | -3.732 |
| 02-MAY-75 | 0.218 | 18.835 | 1.028 | 19.486 | 4.55 | 24.036 | -5.201 |
| 03-MAY-75 | 0.200 | 17.280 | 1.028 | 19.486 | 4.55 | 24.036 | -6.756 |
| 04-MAY-75 | 0.187 | 16.157 | 1.028 | 19.486 | 4.55 | 24.036 | -7.879 |
| 05-MAY-75 | 0.172 | 14.861 | 1.028 | 19.486 | 4.55 | 24.036 | -9.175 |
| 06-MAY-75 | 0.153 | 13.219 | 1.028 | 19.486 | 4.55 | 24.036 | -10.817 |
| 07-MAY-75 | 0.150 | 12.960 | 1.088 | 20.625 | 4.55 | 25.175 | -12.215 |
| 08-MAY-75 | 0.157 | 13.565 | 1.088 | 20.625 | 4.55 | 25.175 | -11.610 |
| 09-MAY-75 | 0.156 | 13.478 | 1.088 | 20.625 | 4.55 | 25.175 | -11.697 |
| 10-MAY-75 | 0.150 | 12.960 | 1.088 | 20.625 | 4.55 | 25.175 | -12.215 |
| 11-MAY-75 | 0.134 | 11.578 | 1.088 | 20.625 | 4.55 | 25.175 | -13.597 |
| 12-MAY-75 | 0.155 | 13.392 | 1.088 | 20.625 | 4.55 | 25.175 | -11.783 |
| 13-MAY-75 | 0.160 | 13.824 | 1.088 | 20.625 | 4.55 | 25.175 | -11.351 |
| 14-MAY-75 | 0.149 | 12.874 | 1.184 | 22.441 | 4.55 | 26.991 | -14.118 |
| 15-MAY-75 | 0.136 | 11.750 | 1.184 | 22.441 | 4.55 | 26.991 | -15.241 |
| 16-MAY-75 | 0.122 | 10.541 | 1.184 | 22.441 | 4.55 | 26.991 | -16.451 |
| 17-MAY-75 | 0.114 | 9.850 | 1.184 | 22.441 | 4.55 | 26.991 | -17.142 |
| 18-MAY-75 | 0.106 | 9.158 | 1.184 | 22.441 | 4.55 | 26.991 | -17.833 |
| 19-MAY-75 | 0.100 | 8.640 | 1.184 | 22.441 | 4.55 | 26.991 | -18.351 |
| 20-MAY-75 | 0.089 | 7.690 | 1.184 | 22.441 | 4.55 | 26.991 | -19.302 |
| 21-MAY-75 | 0.084 | 7.258 | 1.178 | 22.330 | 4.55 | 26.880 | -19.622 |
| 22-MAY-75 | 0.089 | 7.690 | 1.178 | 22.330 | 4.55 | 26.880 | -19.190 |
| 23-MAY-75 | 0.107 | 9.245 | 1.178 | 22.330 | 4.55 | 26.880 | -17.635 |
| 24-MAY-75 | 0.091 | 7.862 | 1.178 | 22.330 | 4.55 | 26.880 | -19.018 |
| 25-MAY-75 | 0.090 | 7.776 | 1.178 | 22.330 | 4.55 | 26.880 | -19.104 |
| 26-MAY-75 | 0.085 | 7.344 | 1.178 | 22.330 | 4.55 | 26.880 | -19.536 |
| 27-MAY-75 | 0.073 | 6.307 | 1.178 | 22.330 | 4.55 | 26.880 | -20.573 |
| 28-MAY-75 | 0.071 | 6.134 | 1.253 | 23.748 | 4.55 | 28.298 | -22.164 |
| 29-MAY-75 | 0.073 | 6.307 | 1.253 | 23.748 | 4.55 | 28.298 | -21.991 |
| 30-MAY-75 | 0.072 | 6.221 | 1.253 | 23.748 | 4.55 | 28.298 | -22.077 |
| 31-MAY-75 | 0.067 | 5.789 | 1.253 | 23.748 | 4.55 | 28.298 | -22.509 |
| 01-JUN-75 | 0.065 | 5.616 | 1.253 | 23.748 | 4.55 | 28.298 | -22.682 |
| 02-JUN-75 | 0.071 | 6.134 | 1.253 | 23.748 | 4.55 | 28.298 | -22.164 |
| 03-JUN-75 | 0.066 | 5.702 | 1.253 | 23.748 | 4.55 | 28.298 | -22.596 |
| 04-JUN-75 | 0.064 | 5.530 | 1.202 | 22.784 | 4.55 | 27.334 | -21.804 |
| 05-JUN-75 | 0.062 | 5.357 | 1.202 | 22.784 | 4.55 | 27.334 | -21.977 |
| 06-JUN-75 | 0.056 | 4.838 | 1.202 | 22.784 | 4.55 | 27.334 | -22.496 |
| 07-JUN-75 | 0.052 | 4.493 | 1.202 | 22.784 | 4.55 | 27.334 | -22.841 |
| 08-JUN-75 | 0.051 | 4.406 | 1.202 | 22.784 | 4.55 | 27.334 | -22.928 |
| 09-JUN-75 | 0.050 | 4.320 | 1.202 | 22.784 | 4.55 | 27.334 | -23.014 |
| 10-JUN-75 | 0.049 | 4.234 | 1.202 | 22.784 | 4.55 | 27.334 | -23.100 |
| 11-JUN-75 | 0.045 | 3.888 | 1.247 | 23.636 | 4.55 | 28.186 | -24.298 |
| 12-JUN-75 | 0.042 | 3.629 | 1.247 | 23.636 | 4.55 | 28.186 | -24.558 |
| 13-JUN-75 | 0.039 | 3.370 | 1.247 | 23.636 | 4.55 | 28.186 | -24.817 |
| 14-JUN-75 | 0.037 | 3.197 | 1.247 | 23.636 | 4.55 | 28.186 | -24.990 |
| 15-JUN-75 | 0.036 | 3.110 | 1.247 | 23.636 | 4.55 | 28.186 | -25.076 |

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| 12-AUG-75 | 0.016 | 1.382 | 0.763 | 14.451 | 4.55 | 19.001 | -17.619 |
| 13-AUG-75 | 0.016 | 1.382 | 0.636 | 12.053 | 4.55 | 16.603 | -15.221 |
| 14-AUG-75 | 0.016 | 1.382 | 0.636 | 12.053 | 4.55 | 16.603 | -15.221 |
| 15-AUG-75 | 0.026 | 2.246 | 0.636 | 12.053 | 4.55 | 16.603 | -14.357 |
| 16-AUG-75 | 0.028 | 2.419 | 0.636 | 12.053 | 4.55 | 16.603 | -14.184 |
| 17-AUG-75 | 0.031 | 2.678 | 0.636 | 12.053 | 4.55 | 16.603 | -13.925 |
| 18-AUG-75 | 0.027 | 2.333 | 0.636 | 12.053 | 4.55 | 16.603 | -14.270 |
| 19-AUG-75 | 0.032 | 2.765 | 0.636 | 12.053 | 4.55 | 16.603 | -13.838 |
| 20-AUG-75 | 0.036 | 3.110 | 0.571 | 10.826 | 4.55 | 15.376 | -12.266 |
| 21-AUG-75 | 0.028 | 2.419 | 0.571 | 10.826 | 4.55 | 15.376 | -12.957 |
| 22-AUG-75 | 0.026 | 2.246 | 0.571 | 10.826 | 4.55 | 15.376 | -13.130 |
| 23-AUG-75 | 0.024 | 2.074 | 0.571 | 10.826 | 4.55 | 15.376 | -13.303 |
| 24-AUG-75 | 0.023 | 1.987 | 0.571 | 10.826 | 4.55 | 15.376 | -13.389 |
| 25-AUG-75 | 0.021 | 1.814 | 0.571 | 10.826 | 4.55 | 15.376 | -13.562 |
| 26-AUG-75 | 0.019 | 1.642 | 0.571 | 10.826 | 4.55 | 15.376 | -13.735 |
| 27-AUG-75 | 0.017 | 1.469 | 0.528 | 10.006 | 4.55 | 14.556 | -13.087 |
| 28-AUG-75 | 0.017 | 1.469 | 0.528 | 10.006 | 4.55 | 14.556 | -13.087 |
| 29-AUG-75 | 0.016 | 1.382 | 0.528 | 10.006 | 4.55 | 14.556 | -13.173 |
| 30-AUG-75 | 0.016 | 1.382 | 0.528 | 10.006 | 4.55 | 14.556 | -13.173 |
| 31-AUG-75 | 0.016 | 1.382 | 0.528 | 10.006 | 4.55 | 14.556 | -13.173 |
| 01-SEP-75 | 0.016 | 1.382 | 0.528 | 10.006 | 4.55 | 14.556 | -13.173 |
| 02-SEP-75 | 0.016 | 1.382 | 0.528 | 10.006 | 4.55 | 14.556 | -13.173 |
| 03-SEP-75 | 0.016 | 1.382 | 0.563 | 10.675 | 4.55 | 15.225 | -13.843 |
| 04-SEP-75 | 0.016 | 1.382 | 0.563 | 10.675 | 4.55 | 15.225 | -13.843 |
| 05-SEP-75 | 0.016 | 1.382 | 0.563 | 10.675 | 4.55 | 15.225 | -13.843 |
| 06-SEP-75 | 0.015 | 1.296 | 0.563 | 10.675 | 4.55 | 15.225 | -13.929 |
| 07-SEP-75 | 0.016 | 1.382 | 0.563 | 10.675 | 4.55 | 15.225 | -13.843 |
| 08-SEP-75 | 0.016 | 1.382 | 0.563 | 10.675 | 4.55 | 15.225 | -13.843 |
| 09-SEP-75 | 0.018 | 1.555 | 0.563 | 10.675 | 4.55 | 15.225 | -13.670 |
| 10-SEP-75 | 0.017 | 1.469 | 0.485 | 9.185 | 4.55 | 13.735 | -12.266 |
| 11-SEP-75 | 0.022 | 1.901 | 0.485 | 9.185 | 4.55 | 13.735 | -11.834 |
| 12-SEP-75 | 0.041 | 3.542 | 0.485 | 9.185 | 4.55 | 13.735 | -10.193 |
| 13-SEP-75 | 0.563 | 48.643 | 0.485 | 9.185 | 4.55 | 13.735 | 34.908 |
| 14-SEP-75 | 0.182 | 15.725 | 0.485 | 9.185 | 4.55 | 13.735 | 1.990 |
| 15-SEP-75 | 0.085 | 7.344 | 0.485 | 9.185 | 4.55 | 13.735 | -6.391 |
| 16-SEP-75 | 0.062 | 5.357 | 0.485 | 9.185 | 4.55 | 13.735 | -8.378 |
| 17-SEP-75 | 0.056 | 4.838 | 0.343 | 6.501 | 4.55 | 11.051 | -6.212 |
| 18-SEP-75 | 0.058 | 5.011 | 0.343 | 6.501 | 4.55 | 11.051 | -6.039 |
| 19-SEP-75 | 0.051 | 4.406 | 0.343 | 6.501 | 4.55 | 11.051 | -6.644 |
| 20-SEP-75 | 0.050 | 4.320 | 0.343 | 6.501 | 4.55 | 11.051 | -6.731 |
| 21-SEP-75 | 0.046 | 3.974 | 0.343 | 6.501 | 4.55 | 11.051 | -7.076 |
| 22-SEP-75 | 0.043 | 3.715 | 0.343 | 6.501 | 4.55 | 11.051 | -7.335 |
| 23-SEP-75 | 0.042 | 3.629 | 0.343 | 6.501 | 4.55 | 11.051 | -7.422 |
| 24-SEP-75 | 0.044 | 3.802 | 0.249 | 4.724 | 4.55 | 9.274 | -5.472 |
| 25-SEP-75 | 0.237 | 20.477 | 0.249 | 4.724 | 4.55 | 9.274 | 11.203 |
| 26-SEP-75 | 0.192 | 16.589 | 0.249 | 4.724 | 4.55 | 9.274 | 7.315 |
| 27-SEP-75 | 0.265 | 22.896 | 0.249 | 4.724 | 4.55 | 9.274 | 13.622 |
| 28-SEP-75 | 0.200 | 17.280 | 0.249 | 4.724 | 4.55 | 9.274 | 8.006 |
| 29-SEP-75 | 0.197 | 17.021 | 0.249 | 4.724 | 4.55 | 9.274 | 7.747 |
| 30-SEP-75 | 0.192 | 16.589 | 0.249 | 4.724 | 4.55 | 9.274 | 7.315 |
| 01-OCT-75 | 0.165 | 14.256 | 0.223 | 4.222 | 4.55 | 8.772 | 5.484 |
| 02-OCT-75 | 0.178 | 15.379 | 0.223 | 4.222 | 4.55 | 8.772 | 6.607 |
| 03-OCT-75 | 0.159 | 13.738 | 0.223 | 4.222 | 4.55 | 8.772 | 4.965 |
| 04-OCT-75 | 0.155 | 13.392 | 0.223 | 4.222 | 4.55 | 8.772 | 4.620 |
| 05-OCT-75 | 0.145 | 12.528 | 0.223 | 4.222 | 4.55 | 8.772 | 3.756 |
| 06-OCT-75 | 0.142 | 12.269 | 0.223 | 4.222 | 4.55 | 8.772 | 3.497 |
| 07-OCT-75 | 0.137 | 11.837 | 0.223 | 4.222 | 4.55 | 8.772 | 3.065 |

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2919.60
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2926.86
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|-----------|-------|---------|-------|--------|------|--------|---------|
| 04-DEC-75 | 1.340 | 115.776 | 1.376 | 26.074 | 4.55 | 30.624 | 85.152 |
| 05-DEC-75 | 1.128 | 97.459 | 1.376 | 26.074 | 4.55 | 30.624 | 66.835 |
| 06-DEC-75 | 0.907 | 78.365 | 1.376 | 26.074 | 4.55 | 30.624 | 47.741 |
| 07-DEC-75 | 0.731 | 63.158 | 1.376 | 26.074 | 4.55 | 30.624 | 32.534 |
| 08-DEC-75 | 0.602 | 52.013 | 1.376 | 26.074 | 4.55 | 30.624 | 21.389 |
| 09-DEC-75 | 0.504 | 43.546 | 1.376 | 26.074 | 4.55 | 30.624 | 12.921 |
| 10-DEC-75 | 0.437 | 37.757 | 1.413 | 26.767 | 4.55 | 31.317 | 6.440 |
| 11-DEC-75 | 0.395 | 34.128 | 1.413 | 26.767 | 4.55 | 31.317 | 2.811 |
| 12-DEC-75 | 0.392 | 33.869 | 1.413 | 26.767 | 4.55 | 31.317 | 2.552 |
| 13-DEC-75 | 0.339 | 29.290 | 1.413 | 26.767 | 4.55 | 31.317 | -2.028 |
| 14-DEC-75 | 0.306 | 26.438 | 1.413 | 26.767 | 4.55 | 31.317 | -4.879 |
| 15-DEC-75 | 0.279 | 24.106 | 1.413 | 26.767 | 4.55 | 31.317 | -7.212 |
| 16-DEC-75 | 0.258 | 22.291 | 1.413 | 26.767 | 4.55 | 31.317 | -9.026 |
| 17-DEC-75 | 0.237 | 20.477 | 1.353 | 25.644 | 4.55 | 30.194 | -9.717 |
| 18-DEC-75 | 0.223 | 19.267 | 1.353 | 25.644 | 4.55 | 30.194 | -10.927 |
| 19-DEC-75 | 0.214 | 18.490 | 1.353 | 25.644 | 4.55 | 30.194 | -11.704 |
| 20-DEC-75 | 0.208 | 17.971 | 1.353 | 25.644 | 4.55 | 30.194 | -12.223 |
| 21-DEC-75 | 0.200 | 17.280 | 1.353 | 25.644 | 4.55 | 30.194 | -12.914 |
| 22-DEC-75 | 0.178 | 15.379 | 1.353 | 25.644 | 4.55 | 30.194 | -14.815 |
| 23-DEC-75 | 0.175 | 15.120 | 1.353 | 25.644 | 4.55 | 30.194 | -15.074 |
| 24-DEC-75 | 0.176 | 15.206 | 1.341 | 25.421 | 4.55 | 29.971 | -14.764 |
| 25-DEC-75 | 0.171 | 14.774 | 1.341 | 25.421 | 4.55 | 29.971 | -15.196 |
| 26-DEC-75 | 0.168 | 14.515 | 1.341 | 25.421 | 4.55 | 29.971 | -15.456 |
| 27-DEC-75 | 0.159 | 13.738 | 1.341 | 25.421 | 4.55 | 29.971 | -16.233 |
| 28-DEC-75 | 0.150 | 12.960 | 1.341 | 25.421 | 4.55 | 29.971 | -17.011 |
| 29-DEC-75 | 0.144 | 12.442 | 1.341 | 25.421 | 4.55 | 29.971 | -17.529 |
| 30-DEC-75 | 0.146 | 12.614 | 1.341 | 25.421 | 4.55 | 29.971 | -17.356 |
| 31-DEC-75 | 0.160 | 13.824 | 1.283 | 24.306 | 4.55 | 28.856 | -15.032 |
| 01-JAN-76 | 0.168 | 14.515 | 1.283 | 24.306 | 4.55 | 28.856 | -14.340 |
| 02-JAN-76 | 0.255 | 22.032 | 1.283 | 24.306 | 4.55 | 28.856 | -6.824 |
| 03-JAN-76 | 0.286 | 24.710 | 1.283 | 24.306 | 4.55 | 28.856 | -4.145 |
| 04-JAN-76 | 0.339 | 29.290 | 1.283 | 24.306 | 4.55 | 28.856 | 0.434 |
| 05-JAN-76 | 0.359 | 31.018 | 1.283 | 24.306 | 4.55 | 28.856 | 2.162 |
| 06-JAN-76 | 0.361 | 31.190 | 1.283 | 24.306 | 4.55 | 28.856 | 2.335 |
| 07-JAN-76 | 0.369 | 31.882 | 1.250 | 23.684 | 4.55 | 28.234 | 3.647 |
| 08-JAN-76 | 0.376 | 32.486 | 1.250 | 23.684 | 4.55 | 28.234 | 4.252 |
| 09-JAN-76 | 0.370 | 31.968 | 1.250 | 23.684 | 4.55 | 28.234 | 3.734 |
| 10-JAN-76 | 0.350 | 30.240 | 1.250 | 23.684 | 4.55 | 28.234 | 2.006 |
| 11-JAN-76 | 0.318 | 27.475 | 1.250 | 23.684 | 4.55 | 28.234 | -0.759 |
| 12-JAN-76 | 0.286 | 24.710 | 1.250 | 23.684 | 4.55 | 28.234 | -3.524 |
| 13-JAN-76 | 0.270 | 23.328 | 1.250 | 23.684 | 4.55 | 28.234 | -4.906 |
| 14-JAN-76 | 0.261 | 22.550 | 1.228 | 23.270 | 4.55 | 27.820 | -5.270 |
| 15-JAN-76 | 0.248 | 21.427 | 1.228 | 23.270 | 4.55 | 27.820 | -6.393 |
| 16-JAN-76 | 0.240 | 20.736 | 1.228 | 23.270 | 4.55 | 27.820 | -7.084 |
| 17-JAN-76 | 0.228 | 19.699 | 1.228 | 23.270 | 4.55 | 27.820 | -8.121 |
| 18-JAN-76 | 0.218 | 18.835 | 1.228 | 23.270 | 4.55 | 27.820 | -8.985 |
| 19-JAN-76 | 0.233 | 20.131 | 1.228 | 23.270 | 4.55 | 27.820 | -7.689 |
| 20-JAN-76 | 0.258 | 22.291 | 1.228 | 23.270 | 4.55 | 27.820 | -5.529 |
| 21-JAN-76 | 0.215 | 18.576 | 1.303 | 24.696 | 4.55 | 29.246 | -10.670 |
| 22-JAN-76 | 0.204 | 17.626 | 1.303 | 24.696 | 4.55 | 29.246 | -11.620 |
| 23-JAN-76 | 0.197 | 17.021 | 1.303 | 24.696 | 4.55 | 29.246 | -12.225 |
| 24-JAN-76 | 0.193 | 16.675 | 1.303 | 24.696 | 4.55 | 29.246 | -12.571 |
| 25-JAN-76 | 0.183 | 15.811 | 1.303 | 24.696 | 4.55 | 29.246 | -13.435 |
| 26-JAN-76 | 0.185 | 15.984 | 1.303 | 24.696 | 4.55 | 29.246 | -13.262 |
| 27-JAN-76 | 0.192 | 16.589 | 1.303 | 24.696 | 4.55 | 29.246 | -12.657 |
| 28-JAN-76 | 0.263 | 22.723 | 1.320 | 25.007 | 4.55 | 29.557 | -6.833 |
| 29-JAN-76 | 0.374 | 32.314 | 1.320 | 25.007 | 4.55 | 29.557 | 2.757 |

3494.11
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3309.46
3296.80
3289.96
3292.72

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|-----------|-------|--------|-------|--------|------|--------|---------|
| 27-MAR-76 | 0.545 | 47.088 | 1.313 | 24.887 | 4.55 | 29.437 | 17.651 |
| 28-MAR-76 | 0.536 | 46.310 | 1.313 | 24.887 | 4.55 | 29.437 | 16.873 |
| 29-MAR-76 | 0.519 | 44.842 | 1.313 | 24.887 | 4.55 | 29.437 | 15.404 |
| 30-MAR-76 | 0.479 | 41.386 | 1.313 | 24.887 | 4.55 | 29.437 | 11.948 |
| 31-MAR-76 | 0.448 | 38.707 | 1.287 | 24.385 | 4.55 | 28.935 | 9.772 |
| 01-APR-76 | 0.449 | 38.794 | 1.287 | 24.385 | 4.55 | 28.935 | 9.858 |
| 02-APR-76 | 0.402 | 34.733 | 1.287 | 24.385 | 4.55 | 28.935 | 5.798 |
| 03-APR-76 | 0.358 | 30.931 | 1.287 | 24.385 | 4.55 | 28.935 | 1.996 |
| 04-APR-76 | 0.328 | 28.339 | 1.287 | 24.385 | 4.55 | 28.935 | -0.596 |
| 05-APR-76 | 0.298 | 25.747 | 1.287 | 24.385 | 4.55 | 28.935 | -3.188 |
| 06-APR-76 | 0.270 | 23.328 | 1.287 | 24.385 | 4.55 | 28.935 | -5.607 |
| 07-APR-76 | 0.252 | 21.773 | 1.176 | 22.282 | 4.55 | 26.832 | -5.059 |
| 08-APR-76 | 0.231 | 19.958 | 1.176 | 22.282 | 4.55 | 26.832 | -6.874 |
| 09-APR-76 | 0.217 | 18.749 | 1.176 | 22.282 | 4.55 | 26.832 | -8.083 |
| 10-APR-76 | 0.211 | 18.230 | 1.176 | 22.282 | 4.55 | 26.832 | -8.602 |
| 11-APR-76 | 0.202 | 17.453 | 1.176 | 22.282 | 4.55 | 26.832 | -9.379 |
| 12-APR-76 | 0.183 | 15.811 | 1.176 | 22.282 | 4.55 | 26.832 | -11.021 |
| 13-APR-76 | 0.183 | 15.811 | 1.176 | 22.282 | 4.55 | 26.832 | -11.021 |
| 14-APR-76 | 0.178 | 15.379 | 1.061 | 20.107 | 4.55 | 24.657 | -9.278 |
| 15-APR-76 | 0.162 | 13.997 | 1.061 | 20.107 | 4.55 | 24.657 | -10.660 |
| 16-APR-76 | 0.158 | 13.651 | 1.061 | 20.107 | 4.55 | 24.657 | -11.006 |
| 17-APR-76 | 0.146 | 12.614 | 1.061 | 20.107 | 4.55 | 24.657 | -12.043 |
| 18-APR-76 | 0.142 | 12.269 | 1.061 | 20.107 | 4.55 | 24.657 | -12.388 |
| 19-APR-76 | 0.136 | 11.750 | 1.061 | 20.107 | 4.55 | 24.657 | -12.907 |
| 20-APR-76 | 0.128 | 11.059 | 1.061 | 20.107 | 4.55 | 24.657 | -13.598 |
| 21-APR-76 | 0.123 | 10.627 | 1.068 | 20.235 | 4.55 | 24.785 | -14.158 |
| 22-APR-76 | 0.120 | 10.368 | 1.068 | 20.235 | 4.55 | 24.785 | -14.417 |
| 23-APR-76 | 0.114 | 9.850 | 1.068 | 20.235 | 4.55 | 24.785 | -14.935 |
| 24-APR-76 | 0.110 | 9.504 | 1.068 | 20.235 | 4.55 | 24.785 | -15.281 |
| 25-APR-76 | 0.107 | 9.245 | 1.068 | 20.235 | 4.55 | 24.785 | -15.540 |
| 26-APR-76 | 0.099 | 8.554 | 1.068 | 20.235 | 4.55 | 24.785 | -16.231 |
| 27-APR-76 | 0.097 | 8.381 | 1.068 | 20.235 | 4.55 | 24.785 | -16.404 |
| 28-APR-76 | 0.094 | 8.122 | 1.028 | 19.486 | 4.55 | 24.036 | -15.914 |
| 29-APR-76 | 0.091 | 7.862 | 1.028 | 19.486 | 4.55 | 24.036 | -16.173 |
| 30-APR-76 | 0.092 | 7.949 | 1.028 | 19.486 | 4.55 | 24.036 | -16.087 |
| 01-MAY-76 | 0.089 | 7.690 | 1.028 | 19.486 | 4.55 | 24.036 | -16.346 |
| 02-MAY-76 | 0.091 | 7.862 | 1.028 | 19.486 | 4.55 | 24.036 | -16.173 |
| 03-MAY-76 | 0.089 | 7.690 | 1.028 | 19.486 | 4.55 | 24.036 | -16.346 |
| 04-MAY-76 | 0.089 | 7.690 | 1.028 | 19.486 | 4.55 | 24.036 | -16.346 |
| 05-MAY-76 | 0.086 | 7.430 | 1.088 | 20.625 | 4.55 | 25.175 | -17.745 |
| 06-MAY-76 | 0.080 | 6.912 | 1.088 | 20.625 | 4.55 | 25.175 | -18.263 |
| 07-MAY-76 | 0.075 | 6.480 | 1.088 | 20.625 | 4.55 | 25.175 | -18.695 |
| 08-MAY-76 | 0.067 | 5.789 | 1.088 | 20.625 | 4.55 | 25.175 | -19.386 |
| 09-MAY-76 | 0.065 | 5.616 | 1.088 | 20.625 | 4.55 | 25.175 | -19.559 |
| 10-MAY-76 | 0.063 | 5.443 | 1.088 | 20.625 | 4.55 | 25.175 | -19.732 |
| 11-MAY-76 | 0.066 | 5.702 | 1.088 | 20.625 | 4.55 | 25.175 | -19.473 |
| 12-MAY-76 | 0.072 | 6.221 | 1.184 | 22.441 | 4.55 | 26.991 | -20.771 |
| 13-MAY-76 | 0.066 | 5.702 | 1.184 | 22.441 | 4.55 | 26.991 | -21.289 |
| 14-MAY-76 | 0.065 | 5.616 | 1.184 | 22.441 | 4.55 | 26.991 | -21.375 |
| 15-MAY-76 | 0.064 | 5.530 | 1.184 | 22.441 | 4.55 | 26.991 | -21.462 |
| 16-MAY-76 | 0.060 | 5.184 | 1.184 | 22.441 | 4.55 | 26.991 | -21.807 |
| 17-MAY-76 | 0.060 | 5.184 | 1.184 | 22.441 | 4.55 | 26.991 | -21.807 |
| 18-MAY-76 | 0.104 | 8.986 | 1.184 | 22.441 | 4.55 | 26.991 | -18.006 |
| 19-MAY-76 | 0.150 | 12.960 | 1.178 | 22.330 | 4.55 | 26.880 | -13.920 |
| 20-MAY-76 | 0.117 | 10.109 | 1.178 | 22.330 | 4.55 | 26.880 | -16.771 |
| 21-MAY-76 | 0.085 | 7.344 | 1.178 | 22.330 | 4.55 | 26.880 | -19.536 |
| 22-MAY-76 | 0.079 | 6.826 | 1.178 | 22.330 | 4.55 | 26.880 | -20.054 |

3490.21
3507.08
3522.49
3534.44
3544.21
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3558.08
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|-----------|-------|-------|-------|--------|------|--------|---------|
| 19-JUL-76 | 0.018 | 1.555 | 1.160 | 21.987 | 4.55 | 26.537 | -24.982 |
| 20-JUL-76 | 0.017 | 1.469 | 1.160 | 21.987 | 4.55 | 26.537 | -25.069 |
| 21-JUL-76 | 0.014 | 1.210 | 1.152 | 21.828 | 4.55 | 26.378 | -25.168 |
| 22-JUL-76 | 0.014 | 1.210 | 1.152 | 21.828 | 4.55 | 26.378 | -25.168 |
| 23-JUL-76 | 0.013 | 1.123 | 1.152 | 21.828 | 4.55 | 26.378 | -25.255 |
| 24-JUL-76 | 0.012 | 1.037 | 1.152 | 21.828 | 4.55 | 26.378 | -25.341 |
| 25-JUL-76 | 0.012 | 1.037 | 1.152 | 21.828 | 4.55 | 26.378 | -25.341 |
| 26-JUL-76 | 0.012 | 1.037 | 1.152 | 21.828 | 4.55 | 26.378 | -25.341 |
| 27-JUL-76 | 0.011 | 0.950 | 1.152 | 21.828 | 4.55 | 26.378 | -25.428 |
| 28-JUL-76 | 0.010 | 0.864 | 0.787 | 14.905 | 4.55 | 19.455 | -18.591 |
| 29-JUL-76 | 0.009 | 0.778 | 0.787 | 14.905 | 4.55 | 19.455 | -18.678 |
| 30-JUL-76 | 0.010 | 0.864 | 0.787 | 14.905 | 4.55 | 19.455 | -18.591 |
| 31-JUL-76 | 0.010 | 0.864 | 0.787 | 14.905 | 4.55 | 19.455 | -18.591 |
| 01-AUG-76 | 0.011 | 0.950 | 0.787 | 14.905 | 4.55 | 19.455 | -18.505 |
| 02-AUG-76 | 0.011 | 0.950 | 0.787 | 14.905 | 4.55 | 19.455 | -18.505 |
| 03-AUG-76 | 0.011 | 0.950 | 0.787 | 14.905 | 4.55 | 19.455 | -18.505 |
| 04-AUG-76 | 0.011 | 0.950 | 0.763 | 14.451 | 4.55 | 19.001 | -18.051 |
| 05-AUG-76 | 0.011 | 0.950 | 0.763 | 14.451 | 4.55 | 19.001 | -18.051 |
| 06-AUG-76 | 0.010 | 0.864 | 0.763 | 14.451 | 4.55 | 19.001 | -18.137 |
| 07-AUG-76 | 0.010 | 0.864 | 0.763 | 14.451 | 4.55 | 19.001 | -18.137 |
| 08-AUG-76 | 0.010 | 0.864 | 0.763 | 14.451 | 4.55 | 19.001 | -18.137 |
| 09-AUG-76 | 0.010 | 0.864 | 0.763 | 14.451 | 4.55 | 19.001 | -18.137 |
| 10-AUG-76 | 0.009 | 0.778 | 0.763 | 14.451 | 4.55 | 19.001 | -18.224 |
| 11-AUG-76 | 0.009 | 0.778 | 0.636 | 12.053 | 4.55 | 16.603 | -15.826 |
| 12-AUG-76 | 0.009 | 0.778 | 0.636 | 12.053 | 4.55 | 16.603 | -15.826 |
| 13-AUG-76 | 0.009 | 0.778 | 0.636 | 12.053 | 4.55 | 16.603 | -15.826 |
| 14-AUG-76 | 0.007 | 0.605 | 0.636 | 12.053 | 4.55 | 16.603 | -15.998 |
| 15-AUG-76 | 0.007 | 0.605 | 0.636 | 12.053 | 4.55 | 16.603 | -15.998 |
| 16-AUG-76 | 0.007 | 0.605 | 0.636 | 12.053 | 4.55 | 16.603 | -15.998 |
| 17-AUG-76 | 0.007 | 0.605 | 0.636 | 12.053 | 4.55 | 16.603 | -15.998 |
| 18-AUG-76 | 0.007 | 0.605 | 0.571 | 10.826 | 4.55 | 15.376 | -14.772 |
| 19-AUG-76 | 0.006 | 0.518 | 0.571 | 10.826 | 4.55 | 15.376 | -14.858 |
| 20-AUG-76 | 0.007 | 0.605 | 0.571 | 10.826 | 4.55 | 15.376 | -14.772 |
| 21-AUG-76 | 0.006 | 0.518 | 0.571 | 10.826 | 4.55 | 15.376 | -14.858 |
| 22-AUG-76 | 0.006 | 0.518 | 0.571 | 10.826 | 4.55 | 15.376 | -14.858 |
| 23-AUG-76 | 0.006 | 0.518 | 0.571 | 10.826 | 4.55 | 15.376 | -14.858 |
| 24-AUG-76 | 0.006 | 0.518 | 0.571 | 10.826 | 4.55 | 15.376 | -14.858 |
| 25-AUG-76 | 0.007 | 0.605 | 0.528 | 10.006 | 4.55 | 14.556 | -13.951 |
| 26-AUG-76 | 0.007 | 0.605 | 0.528 | 10.006 | 4.55 | 14.556 | -13.951 |
| 27-AUG-76 | 0.006 | 0.518 | 0.528 | 10.006 | 4.55 | 14.556 | -14.037 |
| 28-AUG-76 | 0.007 | 0.605 | 0.528 | 10.006 | 4.55 | 14.556 | -13.951 |
| 29-AUG-76 | 0.014 | 1.210 | 0.528 | 10.006 | 4.55 | 14.556 | -13.346 |
| 30-AUG-76 | 0.075 | 6.480 | 0.528 | 10.006 | 4.55 | 14.556 | -8.076 |
| 31-AUG-76 | 0.024 | 2.074 | 0.528 | 10.006 | 4.55 | 14.556 | -12.482 |
| 01-SEP-76 | 0.017 | 1.469 | 0.563 | 10.675 | 4.55 | 15.225 | -13.756 |
| 02-SEP-76 | 0.014 | 1.210 | 0.563 | 10.675 | 4.55 | 15.225 | -14.015 |
| 03-SEP-76 | 0.013 | 1.123 | 0.563 | 10.675 | 4.55 | 15.225 | -14.102 |
| 04-SEP-76 | 0.013 | 1.123 | 0.563 | 10.675 | 4.55 | 15.225 | -14.102 |
| 05-SEP-76 | 0.012 | 1.037 | 0.563 | 10.675 | 4.55 | 15.225 | -14.188 |
| 06-SEP-76 | 0.011 | 0.950 | 0.563 | 10.675 | 4.55 | 15.225 | -14.275 |
| 07-SEP-76 | 0.011 | 0.950 | 0.563 | 10.675 | 4.55 | 15.225 | -14.275 |
| 08-SEP-76 | 0.010 | 0.864 | 0.485 | 9.185 | 4.55 | 13.735 | -12.871 |
| 09-SEP-76 | 0.012 | 1.037 | 0.485 | 9.185 | 4.55 | 13.735 | -12.698 |
| 10-SEP-76 | 0.047 | 4.061 | 0.485 | 9.185 | 4.55 | 13.735 | -9.674 |
| 11-SEP-76 | 0.033 | 2.851 | 0.485 | 9.185 | 4.55 | 13.735 | -10.884 |
| 12-SEP-76 | 0.027 | 2.333 | 0.485 | 9.185 | 4.55 | 13.735 | -11.402 |
| 13-SEP-76 | 0.023 | 1.987 | 0.485 | 9.185 | 4.55 | 13.735 | -11.748 |

1460.53
1435.47
1410.30
1385.13
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1239.83
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562.53
551.64
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|-----------|-------|---------|-------|--------|------|--------|---------|
| 10-NOV-76 | 0.668 | 57.715 | 1.210 | 22.935 | 4.55 | 27.485 | 30.230 |
| 11-NOV-76 | 0.577 | 49.853 | 1.210 | 22.935 | 4.55 | 27.485 | 22.367 |
| 12-NOV-76 | 0.508 | 43.891 | 1.210 | 22.935 | 4.55 | 27.485 | 16.406 |
| 13-NOV-76 | 0.453 | 39.139 | 1.210 | 22.935 | 4.55 | 27.485 | 11.654 |
| 14-NOV-76 | 0.416 | 35.942 | 1.210 | 22.935 | 4.55 | 27.485 | 8.157 |
| 15-NOV-76 | 0.401 | 34.646 | 1.210 | 22.935 | 4.55 | 27.485 | 7.161 |
| 16-NOV-76 | 0.389 | 33.610 | 1.210 | 22.935 | 4.55 | 27.485 | 6.124 |
| 17-NOV-76 | 0.380 | 32.832 | 1.383 | 26.202 | 4.55 | 30.752 | 2.980 |
| 18-NOV-76 | 0.388 | 33.523 | 1.383 | 26.202 | 4.55 | 30.752 | 2.772 |
| 19-NOV-76 | 0.339 | 29.290 | 1.383 | 26.202 | 4.55 | 30.752 | -1.462 |
| 20-NOV-76 | 0.317 | 27.389 | 1.383 | 26.202 | 4.55 | 30.752 | -3.363 |
| 21-NOV-76 | 0.302 | 26.093 | 1.383 | 26.202 | 4.55 | 30.752 | -4.659 |
| 22-NOV-76 | 0.283 | 24.451 | 1.383 | 26.202 | 4.55 | 30.752 | -6.300 |
| 23-NOV-76 | 0.273 | 23.587 | 1.383 | 26.202 | 4.55 | 30.752 | -7.164 |
| 24-NOV-76 | 0.267 | 23.069 | 1.373 | 26.018 | 4.55 | 30.568 | -7.500 |
| 25-NOV-76 | 0.261 | 22.550 | 1.373 | 26.018 | 4.55 | 30.568 | -8.018 |
| 26-NOV-76 | 0.256 | 22.118 | 1.373 | 26.018 | 4.55 | 30.568 | -8.450 |
| 27-NOV-76 | 0.251 | 21.686 | 1.373 | 26.018 | 4.55 | 30.568 | -8.882 |
| 28-NOV-76 | 0.463 | 40.003 | 1.373 | 26.018 | 4.55 | 30.568 | 9.435 |
| 29-NOV-76 | 0.491 | 42.422 | 1.373 | 26.018 | 4.55 | 30.568 | 11.854 |
| 30-NOV-76 | 1.640 | 141.696 | 1.373 | 26.018 | 4.55 | 30.568 | 111.128 |
| 01-DEC-76 | 2.234 | 193.018 | 1.376 | 26.074 | 4.55 | 30.624 | 162.393 |
| 02-DEC-76 | 2.146 | 185.414 | 1.376 | 26.074 | 4.55 | 30.624 | 154.790 |
| 03-DEC-76 | 1.684 | 145.498 | 1.376 | 26.074 | 4.55 | 30.624 | 114.873 |
| 04-DEC-76 | 1.254 | 108.346 | 1.376 | 26.074 | 4.55 | 30.624 | 77.721 |
| 05-DEC-76 | 1.126 | 97.286 | 1.376 | 26.074 | 4.55 | 30.624 | 66.662 |
| 06-DEC-76 | 0.990 | 85.536 | 1.376 | 26.074 | 4.55 | 30.624 | 54.912 |
| 07-DEC-76 | 1.064 | 91.930 | 1.376 | 26.074 | 4.55 | 30.624 | 61.305 |
| 08-DEC-76 | 1.138 | 98.323 | 1.413 | 26.767 | 4.55 | 31.317 | 67.006 |
| 09-DEC-76 | 1.144 | 98.842 | 1.413 | 26.767 | 4.55 | 31.317 | 67.524 |
| 10-DEC-76 | 1.049 | 90.634 | 1.413 | 26.767 | 4.55 | 31.317 | 59.316 |
| 11-DEC-76 | 0.912 | 78.797 | 1.413 | 26.767 | 4.55 | 31.317 | 47.480 |
| 12-DEC-76 | 0.771 | 66.614 | 1.413 | 26.767 | 4.55 | 31.317 | 35.297 |
| 13-DEC-76 | 0.662 | 57.197 | 1.413 | 26.767 | 4.55 | 31.317 | 25.880 |
| 14-DEC-76 | 0.568 | 49.075 | 1.413 | 26.767 | 4.55 | 31.317 | 17.758 |
| 15-DEC-76 | 0.502 | 43.373 | 1.353 | 25.644 | 4.55 | 30.194 | 13.179 |
| 16-DEC-76 | 0.476 | 41.126 | 1.353 | 25.644 | 4.55 | 30.194 | 10.932 |
| 17-DEC-76 | 0.648 | 55.987 | 1.353 | 25.644 | 4.55 | 30.194 | 25.793 |
| 18-DEC-76 | 0.595 | 51.408 | 1.353 | 25.644 | 4.55 | 30.194 | 21.214 |
| 19-DEC-76 | 0.665 | 57.456 | 1.353 | 25.644 | 4.55 | 30.194 | 27.262 |
| 20-DEC-76 | 0.755 | 65.232 | 1.353 | 25.644 | 4.55 | 30.194 | 35.038 |
| 21-DEC-76 | 0.766 | 66.182 | 1.353 | 25.644 | 4.55 | 30.194 | 35.988 |
| 22-DEC-76 | 0.724 | 62.554 | 1.341 | 25.421 | 4.55 | 29.971 | 32.583 |
| 23-DEC-76 | 0.650 | 56.160 | 1.341 | 25.421 | 4.55 | 29.971 | 26.189 |
| 24-DEC-76 | 0.582 | 50.285 | 1.341 | 25.421 | 4.55 | 29.971 | 20.314 |
| 25-DEC-76 | 0.537 | 46.397 | 1.341 | 25.421 | 4.55 | 29.971 | 16.426 |
| 26-DEC-76 | 0.500 | 43.200 | 1.341 | 25.421 | 4.55 | 29.971 | 13.229 |
| 27-DEC-76 | 0.477 | 41.213 | 1.341 | 25.421 | 4.55 | 29.971 | 11.242 |
| 28-DEC-76 | 0.438 | 37.843 | 1.341 | 25.421 | 4.55 | 29.971 | 7.872 |
| 29-DEC-76 | 0.414 | 35.770 | 1.283 | 24.313 | 4.55 | 28.863 | 6.907 |
| 30-DEC-76 | 0.533 | 46.051 | 1.283 | 24.313 | 4.55 | 28.863 | 17.188 |
| 31-DEC-76 | 0.533 | 46.051 | 1.283 | 24.313 | 4.55 | 28.863 | 17.188 |

APPENDIX 4

CASE 2: Clatworthy Reservoir
1991

| Date | Inflow (cumecs) | Inflow (ML/d) | Ratio to Average | Reduced Abstraction (ML/d) 17.75 ML/d | C.R | Outflow (ML/d) | Storage change |
|-----------|--------------------|------------------|---------------------|---|------|-------------------|-------------------|
| 01-JAN-75 | 0.889 | 76.810 | 1.283 | 22.766 | 4.55 | 27.316 | 49.493 |
| 02-JAN-75 | 0.751 | 64.886 | 1.283 | 22.766 | 4.55 | 27.316 | 37.570 |
| 03-JAN-75 | 0.628 | 54.259 | 1.283 | 22.766 | 4.55 | 27.316 | 26.943 |
| 04-JAN-75 | 0.536 | 46.310 | 1.283 | 22.766 | 4.55 | 27.316 | 18.994 |
| 05-JAN-75 | 0.472 | 40.781 | 1.283 | 22.766 | 4.55 | 27.316 | 13.464 |
| 06-JAN-75 | 0.441 | 38.102 | 1.283 | 22.766 | 4.55 | 27.316 | 10.786 |
| 07-JAN-75 | 0.402 | 34.733 | 1.283 | 22.766 | 4.55 | 27.316 | 7.416 |
| 08-JAN-75 | 0.370 | 31.968 | 1.250 | 22.184 | 4.55 | 26.734 | 5.234 |
| 09-JAN-75 | 0.340 | 29.376 | 1.250 | 22.184 | 4.55 | 26.734 | 2.642 |
| 10-JAN-75 | 0.317 | 27.389 | 1.250 | 22.184 | 4.55 | 26.734 | 0.654 |
| 11-JAN-75 | 0.308 | 26.611 | 1.250 | 22.184 | 4.55 | 26.734 | -0.123 |
| 12-JAN-75 | 0.356 | 30.758 | 1.250 | 22.184 | 4.55 | 26.734 | 4.024 |
| 13-JAN-75 | 0.324 | 27.994 | 1.250 | 22.184 | 4.55 | 26.734 | 1.259 |
| 14-JAN-75 | 0.393 | 33.955 | 1.250 | 22.184 | 4.55 | 26.734 | 7.221 |
| 15-JAN-75 | 0.418 | 36.115 | 1.228 | 21.796 | 4.55 | 26.346 | 9.769 |
| 16-JAN-75 | 0.421 | 36.374 | 1.228 | 21.796 | 4.55 | 26.346 | 10.028 |
| 17-JAN-75 | 0.504 | 43.546 | 1.228 | 21.796 | 4.55 | 26.346 | 17.199 |
| 18-JAN-75 | 0.536 | 46.310 | 1.228 | 21.796 | 4.55 | 26.346 | 19.964 |
| 19-JAN-75 | 1.119 | 96.682 | 1.228 | 21.796 | 4.55 | 26.346 | 70.335 |
| 20-JAN-75 | 1.202 | 103.853 | 1.228 | 21.796 | 4.55 | 26.346 | 77.506 |
| 21-JAN-75 | 1.383 | 119.491 | 1.228 | 21.796 | 4.55 | 26.346 | 93.145 |
| 22-JAN-75 | 2.653 | 229.219 | 1.303 | 23.132 | 4.55 | 27.682 | 201.537 |
| 23-JAN-75 | 2.168 | 187.315 | 1.303 | 23.132 | 4.55 | 27.682 | 159.633 |
| 24-JAN-75 | 1.705 | 147.312 | 1.303 | 23.132 | 4.55 | 27.682 | 119.630 |
| 25-JAN-75 | 1.554 | 134.266 | 1.303 | 23.132 | 4.55 | 27.682 | 106.584 |
| 26-JAN-75 | 1.537 | 132.797 | 1.303 | 23.132 | 4.55 | 27.682 | 105.115 |
| 27-JAN-75 | 1.313 | 113.443 | 1.303 | 23.132 | 4.55 | 27.682 | 85.761 |
| 28-JAN-75 | 2.211 | 191.030 | 1.303 | 23.132 | 4.55 | 27.682 | 163.348 |
| 29-JAN-75 | 1.823 | 157.507 | 1.320 | 23.423 | 4.55 | 27.973 | 129.534 |
| 30-JAN-75 | 1.678 | 144.979 | 1.320 | 23.423 | 4.55 | 27.973 | 117.006 |
| 31-JAN-75 | 1.606 | 138.758 | 1.320 | 23.423 | 4.55 | 27.973 | 110.785 |
| 01-FEB-75 | 1.412 | 121.997 | 1.320 | 23.423 | 4.55 | 27.973 | 94.024 |
| 02-FEB-75 | 1.149 | 99.274 | 1.320 | 23.423 | 4.55 | 27.973 | 71.301 |
| 03-FEB-75 | 0.938 | 81.043 | 1.320 | 23.423 | 4.55 | 27.973 | 53.070 |
| 04-FEB-75 | 0.769 | 66.442 | 1.320 | 23.423 | 4.55 | 27.973 | 38.469 |
| 05-FEB-75 | 0.643 | 55.555 | 1.328 | 23.580 | 4.55 | 28.130 | 27.425 |
| 06-FEB-75 | 0.565 | 48.816 | 1.328 | 23.580 | 4.55 | 28.130 | 20.686 |
| 07-FEB-75 | 0.487 | 42.077 | 1.328 | 23.580 | 4.55 | 28.130 | 13.947 |
| 08-FEB-75 | 0.420 | 36.288 | 1.328 | 23.580 | 4.55 | 28.130 | 8.158 |
| 09-FEB-75 | 0.360 | 31.104 | 1.328 | 23.580 | 4.55 | 28.130 | 2.974 |
| 10-FEB-75 | 0.373 | 32.227 | 1.328 | 23.580 | 4.55 | 28.130 | 4.097 |
| 11-FEB-75 | 0.330 | 28.512 | 1.328 | 23.580 | 4.55 | 28.130 | 0.382 |
| 12-FEB-75 | 0.316 | 27.302 | 1.325 | 23.513 | 4.55 | 28.063 | -0.760 |
| 13-FEB-75 | 0.292 | 25.229 | 1.325 | 23.513 | 4.55 | 28.063 | -2.834 |
| 14-FEB-75 | 0.278 | 24.019 | 1.325 | 23.513 | 4.55 | 28.063 | -4.043 |
| 15-FEB-75 | 0.266 | 22.982 | 1.325 | 23.513 | 4.55 | 28.063 | -5.080 |
| 16-FEB-75 | 0.266 | 22.982 | 1.325 | 23.513 | 4.55 | 28.063 | -5.080 |
| 17-FEB-75 | 0.306 | 26.438 | 1.325 | 23.513 | 4.55 | 28.063 | -1.624 |
| 18-FEB-75 | 0.366 | 31.622 | 1.325 | 23.513 | 4.55 | 28.063 | 3.560 |
| 19-FEB-75 | 0.323 | 27.907 | 1.282 | 22.752 | 4.55 | 27.302 | 0.606 |
| 20-FEB-75 | 0.329 | 28.426 | 1.282 | 22.752 | 4.55 | 27.302 | 1.124 |
| 21-FEB-75 | 0.330 | 28.512 | 1.282 | 22.752 | 4.55 | 27.302 | 1.210 |

| | | | | | | | |
|-----------|-------|--------|-------|--------|------|--------|---------|
| 20-APR-75 | 0.489 | 42.250 | 1.061 | 18.834 | 4.55 | 23.384 | 18.866 |
| 21-APR-75 | 0.516 | 44.582 | 1.061 | 18.834 | 4.55 | 23.384 | 21.198 |
| 22-APR-75 | 0.470 | 40.608 | 1.061 | 18.834 | 4.55 | 23.384 | 17.224 |
| 23-APR-75 | 0.429 | 37.066 | 1.068 | 18.953 | 4.55 | 23.503 | 13.562 |
| 24-APR-75 | 0.388 | 33.523 | 1.068 | 18.953 | 4.55 | 23.503 | 10.020 |
| 25-APR-75 | 0.360 | 31.104 | 1.068 | 18.953 | 4.55 | 23.503 | 7.601 |
| 26-APR-75 | 0.329 | 28.426 | 1.068 | 18.953 | 4.55 | 23.503 | 4.922 |
| 27-APR-75 | 0.303 | 26.179 | 1.068 | 18.953 | 4.55 | 23.503 | 2.676 |
| 28-APR-75 | 0.282 | 24.365 | 1.068 | 18.953 | 4.55 | 23.503 | 0.861 |
| 29-APR-75 | 0.267 | 23.069 | 1.068 | 18.953 | 4.55 | 23.503 | -0.435 |
| 30-APR-75 | 0.245 | 21.168 | 1.028 | 18.252 | 4.55 | 22.802 | -1.634 |
| 01-MAY-75 | 0.235 | 20.304 | 1.028 | 18.252 | 4.55 | 22.802 | -2.498 |
| 02-MAY-75 | 0.218 | 18.835 | 1.028 | 18.252 | 4.55 | 22.802 | -3.967 |
| 03-MAY-75 | 0.200 | 17.280 | 1.028 | 18.252 | 4.55 | 22.802 | -5.522 |
| 04-MAY-75 | 0.187 | 16.157 | 1.028 | 18.252 | 4.55 | 22.802 | -6.645 |
| 05-MAY-75 | 0.172 | 14.861 | 1.028 | 18.252 | 4.55 | 22.802 | -7.941 |
| 06-MAY-75 | 0.153 | 13.219 | 1.028 | 18.252 | 4.55 | 22.802 | -9.583 |
| 07-MAY-75 | 0.150 | 12.960 | 1.088 | 19.319 | 4.55 | 23.869 | -10.909 |
| 08-MAY-75 | 0.157 | 13.565 | 1.088 | 19.319 | 4.55 | 23.869 | -10.304 |
| 09-MAY-75 | 0.156 | 13.478 | 1.088 | 19.319 | 4.55 | 23.869 | -10.391 |
| 10-MAY-75 | 0.150 | 12.960 | 1.088 | 19.319 | 4.55 | 23.869 | -10.909 |
| 11-MAY-75 | 0.134 | 11.578 | 1.088 | 19.319 | 4.55 | 23.869 | -12.291 |
| 12-MAY-75 | 0.155 | 13.392 | 1.088 | 19.319 | 4.55 | 23.869 | -10.477 |
| 13-MAY-75 | 0.160 | 13.824 | 1.088 | 19.319 | 4.55 | 23.869 | -10.045 |
| 14-MAY-75 | 0.149 | 12.874 | 1.184 | 21.020 | 4.55 | 25.570 | -12.697 |
| 15-MAY-75 | 0.136 | 11.750 | 1.184 | 21.020 | 4.55 | 25.570 | -13.820 |
| 16-MAY-75 | 0.122 | 10.541 | 1.184 | 21.020 | 4.55 | 25.570 | -15.030 |
| 17-MAY-75 | 0.114 | 9.850 | 1.184 | 21.020 | 4.55 | 25.570 | -15.721 |
| 18-MAY-75 | 0.106 | 9.158 | 1.184 | 21.020 | 4.55 | 25.570 | -16.412 |
| 19-MAY-75 | 0.100 | 8.640 | 1.184 | 21.020 | 4.55 | 25.570 | -16.930 |
| 20-MAY-75 | 0.089 | 7.690 | 1.184 | 21.020 | 4.55 | 25.570 | -17.881 |
| 21-MAY-75 | 0.084 | 7.258 | 1.178 | 20.916 | 4.55 | 25.466 | -18.208 |
| 22-MAY-75 | 0.089 | 7.690 | 1.178 | 20.916 | 4.55 | 25.466 | -17.776 |
| 23-MAY-75 | 0.107 | 9.245 | 1.178 | 20.916 | 4.55 | 25.466 | -16.221 |
| 24-MAY-75 | 0.091 | 7.862 | 1.178 | 20.916 | 4.55 | 25.466 | -17.603 |
| 25-MAY-75 | 0.090 | 7.776 | 1.178 | 20.916 | 4.55 | 25.466 | -17.690 |
| 26-MAY-75 | 0.085 | 7.344 | 1.178 | 20.916 | 4.55 | 25.466 | -18.122 |
| 27-MAY-75 | 0.073 | 6.307 | 1.178 | 20.916 | 4.55 | 25.466 | -19.159 |
| 28-MAY-75 | 0.071 | 6.134 | 1.253 | 22.244 | 4.55 | 26.794 | -20.660 |
| 29-MAY-75 | 0.073 | 6.307 | 1.253 | 22.244 | 4.55 | 26.794 | -20.487 |
| 30-MAY-75 | 0.072 | 6.221 | 1.253 | 22.244 | 4.55 | 26.794 | -20.573 |
| 31-MAY-75 | 0.067 | 5.789 | 1.253 | 22.244 | 4.55 | 26.794 | -21.005 |
| 01-JUN-75 | 0.065 | 5.616 | 1.253 | 22.244 | 4.55 | 26.794 | -21.178 |
| 02-JUN-75 | 0.071 | 6.134 | 1.253 | 22.244 | 4.55 | 26.794 | -20.660 |
| 03-JUN-75 | 0.066 | 5.702 | 1.253 | 22.244 | 4.55 | 26.794 | -21.092 |
| 04-JUN-75 | 0.064 | 5.530 | 1.202 | 21.341 | 4.55 | 25.891 | -20.362 |
| 05-JUN-75 | 0.062 | 5.357 | 1.202 | 21.341 | 4.55 | 25.891 | -20.534 |
| 06-JUN-75 | 0.056 | 4.838 | 1.202 | 21.341 | 4.55 | 25.891 | -21.053 |
| 07-JUN-75 | 0.052 | 4.493 | 1.202 | 21.341 | 4.55 | 25.891 | -21.398 |
| 08-JUN-75 | 0.051 | 4.406 | 1.202 | 21.341 | 4.55 | 25.891 | -21.485 |
| 09-JUN-75 | 0.050 | 4.320 | 1.202 | 21.341 | 4.55 | 25.891 | -21.571 |
| 10-JUN-75 | 0.049 | 4.234 | 1.202 | 21.341 | 4.55 | 25.891 | -21.658 |
| 11-JUN-75 | 0.045 | 3.888 | 1.247 | 22.140 | 4.55 | 26.690 | -22.802 |
| 12-JUN-75 | 0.042 | 3.629 | 1.247 | 22.140 | 4.55 | 26.690 | -23.061 |
| 13-JUN-75 | 0.039 | 3.370 | 1.247 | 22.140 | 4.55 | 26.690 | -23.320 |
| 14-JUN-75 | 0.037 | 3.197 | 1.247 | 22.140 | 4.55 | 26.690 | -23.493 |
| 15-JUN-75 | 0.036 | 3.110 | 1.247 | 22.140 | 4.55 | 26.690 | -23.579 |

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|-----------|-------|--------|-------|--------|------|--------|---------|
| 12-AUG-75 | 0.016 | 1.382 | 0.763 | 13.536 | 4.55 | 18.086 | -16.704 |
| 13-AUG-75 | 0.016 | 1.382 | 0.636 | 11.290 | 4.55 | 15.840 | -14.458 |
| 14-AUG-75 | 0.016 | 1.382 | 0.636 | 11.290 | 4.55 | 15.840 | -14.458 |
| 15-AUG-75 | 0.026 | 2.246 | 0.636 | 11.290 | 4.55 | 15.840 | -13.594 |
| 16-AUG-75 | 0.028 | 2.419 | 0.636 | 11.290 | 4.55 | 15.840 | -13.421 |
| 17-AUG-75 | 0.031 | 2.678 | 0.636 | 11.290 | 4.55 | 15.840 | -13.162 |
| 18-AUG-75 | 0.027 | 2.333 | 0.636 | 11.290 | 4.55 | 15.840 | -13.507 |
| 19-AUG-75 | 0.032 | 2.765 | 0.636 | 11.290 | 4.55 | 15.840 | -13.075 |
| 20-AUG-75 | 0.036 | 3.110 | 0.571 | 10.141 | 4.55 | 14.691 | -11.580 |
| 21-AUG-75 | 0.028 | 2.419 | 0.571 | 10.141 | 4.55 | 14.691 | -12.272 |
| 22-AUG-75 | 0.026 | 2.246 | 0.571 | 10.141 | 4.55 | 14.691 | -12.444 |
| 23-AUG-75 | 0.024 | 2.074 | 0.571 | 10.141 | 4.55 | 14.691 | -12.617 |
| 24-AUG-75 | 0.023 | 1.987 | 0.571 | 10.141 | 4.55 | 14.691 | -12.704 |
| 25-AUG-75 | 0.021 | 1.814 | 0.571 | 10.141 | 4.55 | 14.691 | -12.876 |
| 26-AUG-75 | 0.019 | 1.642 | 0.571 | 10.141 | 4.55 | 14.691 | -13.049 |
| 27-AUG-75 | 0.017 | 1.469 | 0.528 | 9.372 | 4.55 | 13.922 | -12.453 |
| 28-AUG-75 | 0.017 | 1.469 | 0.528 | 9.372 | 4.55 | 13.922 | -12.453 |
| 29-AUG-75 | 0.016 | 1.382 | 0.528 | 9.372 | 4.55 | 13.922 | -12.540 |
| 30-AUG-75 | 0.016 | 1.382 | 0.528 | 9.372 | 4.55 | 13.922 | -12.540 |
| 31-AUG-75 | 0.016 | 1.382 | 0.528 | 9.372 | 4.55 | 13.922 | -12.540 |
| 01-SEP-75 | 0.016 | 1.382 | 0.528 | 9.372 | 4.55 | 13.922 | -12.540 |
| 02-SEP-75 | 0.016 | 1.382 | 0.528 | 9.372 | 4.55 | 13.922 | -12.540 |
| 03-SEP-75 | 0.016 | 1.382 | 0.563 | 9.999 | 4.55 | 14.549 | -13.167 |
| 04-SEP-75 | 0.016 | 1.382 | 0.563 | 9.999 | 4.55 | 14.549 | -13.167 |
| 05-SEP-75 | 0.016 | 1.382 | 0.563 | 9.999 | 4.55 | 14.549 | -13.167 |
| 06-SEP-75 | 0.015 | 1.296 | 0.563 | 9.999 | 4.55 | 14.549 | -13.253 |
| 07-SEP-75 | 0.016 | 1.382 | 0.563 | 9.999 | 4.55 | 14.549 | -13.167 |
| 08-SEP-75 | 0.016 | 1.382 | 0.563 | 9.999 | 4.55 | 14.549 | -13.167 |
| 09-SEP-75 | 0.018 | 1.555 | 0.563 | 9.999 | 4.55 | 14.549 | -12.994 |
| 10-SEP-75 | 0.017 | 1.469 | 0.485 | 8.604 | 4.55 | 13.154 | -11.685 |
| 11-SEP-75 | 0.022 | 1.901 | 0.485 | 8.604 | 4.55 | 13.154 | -11.253 |
| 12-SEP-75 | 0.041 | 3.542 | 0.485 | 8.604 | 4.55 | 13.154 | -9.611 |
| 13-SEP-75 | 0.563 | 48.643 | 0.485 | 8.604 | 4.55 | 13.154 | 35.490 |
| 14-SEP-75 | 0.182 | 15.725 | 0.485 | 8.604 | 4.55 | 13.154 | 2.571 |
| 15-SEP-75 | 0.085 | 7.344 | 0.485 | 8.604 | 4.55 | 13.154 | -5.810 |
| 16-SEP-75 | 0.062 | 5.357 | 0.485 | 8.604 | 4.55 | 13.154 | -7.797 |
| 17-SEP-75 | 0.056 | 4.838 | 0.343 | 6.089 | 4.55 | 10.639 | -5.801 |
| 18-SEP-75 | 0.058 | 5.011 | 0.343 | 6.089 | 4.55 | 10.639 | -5.628 |
| 19-SEP-75 | 0.051 | 4.406 | 0.343 | 6.089 | 4.55 | 10.639 | -6.233 |
| 20-SEP-75 | 0.050 | 4.320 | 0.343 | 6.089 | 4.55 | 10.639 | -6.319 |
| 21-SEP-75 | 0.046 | 3.974 | 0.343 | 6.089 | 4.55 | 10.639 | -6.665 |
| 22-SEP-75 | 0.043 | 3.715 | 0.343 | 6.089 | 4.55 | 10.639 | -6.924 |
| 23-SEP-75 | 0.042 | 3.629 | 0.343 | 6.089 | 4.55 | 10.639 | -7.010 |
| 24-SEP-75 | 0.044 | 3.802 | 0.249 | 4.425 | 4.55 | 8.975 | -5.173 |
| 25-SEP-75 | 0.237 | 20.477 | 0.249 | 4.425 | 4.55 | 8.975 | 11.502 |
| 26-SEP-75 | 0.192 | 16.589 | 0.249 | 4.425 | 4.55 | 8.975 | 7.614 |
| 27-SEP-75 | 0.265 | 22.896 | 0.249 | 4.425 | 4.55 | 8.975 | 13.921 |
| 28-SEP-75 | 0.200 | 17.280 | 0.249 | 4.425 | 4.55 | 8.975 | 8.305 |
| 29-SEP-75 | 0.197 | 17.021 | 0.249 | 4.425 | 4.55 | 8.975 | 8.046 |
| 30-SEP-75 | 0.192 | 16.589 | 0.249 | 4.425 | 4.55 | 8.975 | 7.614 |
| 01-OCT-75 | 0.165 | 14.256 | 0.223 | 3.955 | 4.55 | 8.505 | 5.751 |
| 02-OCT-75 | 0.178 | 15.379 | 0.223 | 3.955 | 4.55 | 8.505 | 6.874 |
| 03-OCT-75 | 0.159 | 13.738 | 0.223 | 3.955 | 4.55 | 8.505 | 5.233 |
| 04-OCT-75 | 0.155 | 13.392 | 0.223 | 3.955 | 4.55 | 8.505 | 4.887 |
| 05-OCT-75 | 0.145 | 12.528 | 0.223 | 3.955 | 4.55 | 8.505 | 4.023 |
| 06-OCT-75 | 0.142 | 12.269 | 0.223 | 3.955 | 4.55 | 8.505 | 3.764 |
| 07-OCT-75 | 0.137 | 11.837 | 0.223 | 3.955 | 4.55 | 8.505 | 3.332 |

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|-----------|-------|---------|-------|--------|------|--------|---------|
| 04-DEC-75 | 1.340 | 115.776 | 1.376 | 24.423 | 4.55 | 28.973 | 86.803 |
| 05-DEC-75 | 1.128 | 97.459 | 1.376 | 24.423 | 4.55 | 28.973 | 68.486 |
| 06-DEC-75 | 0.907 | 78.365 | 1.376 | 24.423 | 4.55 | 28.973 | 49.392 |
| 07-DEC-75 | 0.731 | 63.158 | 1.376 | 24.423 | 4.55 | 28.973 | 34.185 |
| 08-DEC-75 | 0.602 | 52.013 | 1.376 | 24.423 | 4.55 | 28.973 | 23.040 |
| 09-DEC-75 | 0.504 | 43.546 | 1.376 | 24.423 | 4.55 | 28.973 | 14.573 |
| 10-DEC-75 | 0.437 | 37.757 | 1.413 | 25.072 | 4.55 | 29.622 | 8.135 |
| 11-DEC-75 | 0.395 | 34.128 | 1.413 | 25.072 | 4.55 | 29.622 | 4.506 |
| 12-DEC-75 | 0.392 | 33.869 | 1.413 | 25.072 | 4.55 | 29.622 | 4.247 |
| 13-DEC-75 | 0.339 | 29.290 | 1.413 | 25.072 | 4.55 | 29.622 | -0.333 |
| 14-DEC-75 | 0.306 | 26.438 | 1.413 | 25.072 | 4.55 | 29.622 | -3.184 |
| 15-DEC-75 | 0.279 | 24.106 | 1.413 | 25.072 | 4.55 | 29.622 | -5.517 |
| 16-DEC-75 | 0.258 | 22.291 | 1.413 | 25.072 | 4.55 | 29.622 | -7.331 |
| 17-DEC-75 | 0.237 | 20.477 | 1.353 | 24.020 | 4.55 | 28.570 | -8.093 |
| 18-DEC-75 | 0.223 | 19.267 | 1.353 | 24.020 | 4.55 | 28.570 | -9.303 |
| 19-DEC-75 | 0.214 | 18.490 | 1.353 | 24.020 | 4.55 | 28.570 | -10.080 |
| 20-DEC-75 | 0.208 | 17.971 | 1.353 | 24.020 | 4.55 | 28.570 | -10.599 |
| 21-DEC-75 | 0.200 | 17.280 | 1.353 | 24.020 | 4.55 | 28.570 | -11.290 |
| 22-DEC-75 | 0.178 | 15.379 | 1.353 | 24.020 | 4.55 | 28.570 | -13.191 |
| 23-DEC-75 | 0.175 | 15.120 | 1.353 | 24.020 | 4.55 | 28.570 | -13.450 |
| 24-DEC-75 | 0.176 | 15.206 | 1.341 | 23.811 | 4.55 | 28.361 | -13.155 |
| 25-DEC-75 | 0.171 | 14.774 | 1.341 | 23.811 | 4.55 | 28.361 | -13.587 |
| 26-DEC-75 | 0.168 | 14.515 | 1.341 | 23.811 | 4.55 | 28.361 | -13.846 |
| 27-DEC-75 | 0.159 | 13.738 | 1.341 | 23.811 | 4.55 | 28.361 | -14.624 |
| 28-DEC-75 | 0.150 | 12.960 | 1.341 | 23.811 | 4.55 | 28.361 | -15.401 |
| 29-DEC-75 | 0.144 | 12.442 | 1.341 | 23.811 | 4.55 | 28.361 | -15.920 |
| 30-DEC-75 | 0.146 | 12.614 | 1.341 | 23.811 | 4.55 | 28.361 | -15.747 |
| 31-DEC-75 | 0.160 | 13.824 | 1.283 | 22.766 | 4.55 | 27.316 | -13.492 |
| 01-JAN-76 | 0.168 | 14.515 | 1.283 | 22.766 | 4.55 | 27.316 | -12.801 |
| 02-JAN-76 | 0.255 | 22.032 | 1.283 | 22.766 | 4.55 | 27.316 | -5.284 |
| 03-JAN-76 | 0.286 | 24.710 | 1.283 | 22.766 | 4.55 | 27.316 | -2.606 |
| 04-JAN-76 | 0.339 | 29.290 | 1.283 | 22.766 | 4.55 | 27.316 | 1.973 |
| 05-JAN-76 | 0.359 | 31.018 | 1.283 | 22.766 | 4.55 | 27.316 | 3.701 |
| 06-JAN-76 | 0.361 | 31.190 | 1.283 | 22.766 | 4.55 | 27.316 | 3.874 |
| 07-JAN-76 | 0.369 | 31.882 | 1.250 | 22.184 | 4.55 | 26.734 | 5.147 |
| 08-JAN-76 | 0.376 | 32.486 | 1.250 | 22.184 | 4.55 | 26.734 | 5.752 |
| 09-JAN-76 | 0.370 | 31.968 | 1.250 | 22.184 | 4.55 | 26.734 | 5.234 |
| 10-JAN-76 | 0.350 | 30.240 | 1.250 | 22.184 | 4.55 | 26.734 | 3.506 |
| 11-JAN-76 | 0.318 | 27.475 | 1.250 | 22.184 | 4.55 | 26.734 | 0.741 |
| 12-JAN-76 | 0.286 | 24.710 | 1.250 | 22.184 | 4.55 | 26.734 | -2.024 |
| 13-JAN-76 | 0.270 | 23.328 | 1.250 | 22.184 | 4.55 | 26.734 | -3.406 |
| 14-JAN-76 | 0.261 | 22.550 | 1.228 | 21.796 | 4.55 | 26.346 | -3.796 |
| 15-JAN-76 | 0.248 | 21.427 | 1.228 | 21.796 | 4.55 | 26.346 | -4.919 |
| 16-JAN-76 | 0.240 | 20.736 | 1.228 | 21.796 | 4.55 | 26.346 | -5.610 |
| 17-JAN-76 | 0.228 | 19.699 | 1.228 | 21.796 | 4.55 | 26.346 | -6.647 |
| 18-JAN-76 | 0.218 | 18.835 | 1.228 | 21.796 | 4.55 | 26.346 | -7.511 |
| 19-JAN-76 | 0.233 | 20.131 | 1.228 | 21.796 | 4.55 | 26.346 | -6.215 |
| 20-JAN-76 | 0.258 | 22.291 | 1.228 | 21.796 | 4.55 | 26.346 | -4.055 |
| 21-JAN-76 | 0.215 | 18.576 | 1.303 | 23.132 | 4.55 | 27.682 | -9.106 |
| 22-JAN-76 | 0.204 | 17.626 | 1.303 | 23.132 | 4.55 | 27.682 | -10.056 |
| 23-JAN-76 | 0.197 | 17.021 | 1.303 | 23.132 | 4.55 | 27.682 | -10.661 |
| 24-JAN-76 | 0.193 | 16.675 | 1.303 | 23.132 | 4.55 | 27.682 | -11.007 |
| 25-JAN-76 | 0.183 | 15.811 | 1.303 | 23.132 | 4.55 | 27.682 | -11.871 |
| 26-JAN-76 | 0.185 | 15.984 | 1.303 | 23.132 | 4.55 | 27.682 | -11.698 |
| 27-JAN-76 | 0.192 | 16.589 | 1.303 | 23.132 | 4.55 | 27.682 | -11.093 |
| 28-JAN-76 | 0.263 | 22.723 | 1.320 | 23.423 | 4.55 | 27.973 | -5.250 |
| 29-JAN-76 | 0.374 | 32.314 | 1.320 | 23.423 | 4.55 | 27.973 | 4.341 |

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3597.91

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|-----------|-------|--------|-------|--------|------|--------|---------|
| 27-MAR-76 | 0.545 | 47.088 | 1.313 | 23.311 | 4.55 | 27.861 | 19.227 |
| 28-MAR-76 | 0.536 | 46.310 | 1.313 | 23.311 | 4.55 | 27.861 | 18.449 |
| 29-MAR-76 | 0.519 | 44.842 | 1.313 | 23.311 | 4.55 | 27.861 | 16.980 |
| 30-MAR-76 | 0.479 | 41.386 | 1.313 | 23.311 | 4.55 | 27.861 | 13.524 |
| 31-MAR-76 | 0.448 | 38.707 | 1.287 | 22.841 | 4.55 | 27.391 | 11.316 |
| 01-APR-76 | 0.449 | 38.794 | 1.287 | 22.841 | 4.55 | 27.391 | 11.403 |
| 02-APR-76 | 0.402 | 34.733 | 1.287 | 22.841 | 4.55 | 27.391 | 7.342 |
| 03-APR-76 | 0.358 | 30.931 | 1.287 | 22.841 | 4.55 | 27.391 | 3.540 |
| 04-APR-76 | 0.328 | 28.339 | 1.287 | 22.841 | 4.55 | 27.391 | 0.948 |
| 05-APR-76 | 0.298 | 25.747 | 1.287 | 22.841 | 4.55 | 27.391 | -1.544 |
| 06-APR-76 | 0.270 | 23.328 | 1.287 | 22.841 | 4.55 | 27.391 | -4.063 |
| 07-APR-76 | 0.252 | 21.773 | 1.176 | 20.871 | 4.55 | 25.421 | -3.648 |
| 08-APR-76 | 0.231 | 19.958 | 1.176 | 20.871 | 4.55 | 25.421 | -5.463 |
| 09-APR-76 | 0.217 | 18.749 | 1.176 | 20.871 | 4.55 | 25.421 | -6.672 |
| 10-APR-76 | 0.211 | 18.230 | 1.176 | 20.871 | 4.55 | 25.421 | -7.191 |
| 11-APR-76 | 0.202 | 17.453 | 1.176 | 20.871 | 4.55 | 25.421 | -7.968 |
| 12-APR-76 | 0.183 | 15.811 | 1.176 | 20.871 | 4.55 | 25.421 | -9.610 |
| 13-APR-76 | 0.183 | 15.811 | 1.176 | 20.871 | 4.55 | 25.421 | -9.610 |
| 14-APR-76 | 0.178 | 15.379 | 1.061 | 18.834 | 4.55 | 23.384 | -8.005 |
| 15-APR-76 | 0.162 | 13.997 | 1.061 | 18.834 | 4.55 | 23.384 | -9.387 |
| 16-APR-76 | 0.158 | 13.651 | 1.061 | 18.834 | 4.55 | 23.384 | -9.733 |
| 17-APR-76 | 0.146 | 12.614 | 1.061 | 18.834 | 4.55 | 23.384 | -10.770 |
| 18-APR-76 | 0.142 | 12.269 | 1.061 | 18.834 | 4.55 | 23.384 | -11.115 |
| 19-APR-76 | 0.136 | 11.750 | 1.061 | 18.834 | 4.55 | 23.384 | -11.634 |
| 20-APR-76 | 0.128 | 11.059 | 1.061 | 18.834 | 4.55 | 23.384 | -12.325 |
| 21-APR-76 | 0.123 | 10.627 | 1.068 | 18.953 | 4.55 | 23.503 | -12.876 |
| 22-APR-76 | 0.120 | 10.368 | 1.068 | 18.953 | 4.55 | 23.503 | -13.135 |
| 23-APR-76 | 0.114 | 9.850 | 1.068 | 18.953 | 4.55 | 23.503 | -13.654 |
| 24-APR-76 | 0.110 | 9.504 | 1.068 | 18.953 | 4.55 | 23.503 | -13.999 |
| 25-APR-76 | 0.107 | 9.245 | 1.068 | 18.953 | 4.55 | 23.503 | -14.259 |
| 26-APR-76 | 0.099 | 8.554 | 1.068 | 18.953 | 4.55 | 23.503 | -14.950 |
| 27-APR-76 | 0.097 | 8.381 | 1.068 | 18.953 | 4.55 | 23.503 | -15.123 |
| 28-APR-76 | 0.094 | 8.122 | 1.028 | 18.252 | 4.55 | 22.802 | -14.680 |
| 29-APR-76 | 0.091 | 7.862 | 1.028 | 18.252 | 4.55 | 22.802 | -14.940 |
| 30-APR-76 | 0.092 | 7.949 | 1.028 | 18.252 | 4.55 | 22.802 | -14.853 |
| 01-MAY-76 | 0.089 | 7.690 | 1.028 | 18.252 | 4.55 | 22.802 | -15.112 |
| 02-MAY-76 | 0.091 | 7.862 | 1.028 | 18.252 | 4.55 | 22.802 | -14.940 |
| 03-MAY-76 | 0.089 | 7.690 | 1.028 | 18.252 | 4.55 | 22.802 | -15.112 |
| 04-MAY-76 | 0.089 | 7.690 | 1.028 | 18.252 | 4.55 | 22.802 | -15.112 |
| 05-MAY-76 | 0.086 | 7.430 | 1.088 | 19.319 | 4.55 | 23.869 | -16.439 |
| 06-MAY-76 | 0.080 | 6.912 | 1.088 | 19.319 | 4.55 | 23.869 | -16.957 |
| 07-MAY-76 | 0.075 | 6.480 | 1.088 | 19.319 | 4.55 | 23.869 | -17.389 |
| 08-MAY-76 | 0.067 | 5.789 | 1.088 | 19.319 | 4.55 | 23.869 | -18.080 |
| 09-MAY-76 | 0.065 | 5.616 | 1.088 | 19.319 | 4.55 | 23.869 | -18.253 |
| 10-MAY-76 | 0.063 | 5.443 | 1.088 | 19.319 | 4.55 | 23.869 | -18.426 |
| 11-MAY-76 | 0.066 | 5.702 | 1.088 | 19.319 | 4.55 | 23.869 | -18.167 |
| 12-MAY-76 | 0.072 | 6.221 | 1.184 | 21.020 | 4.55 | 25.570 | -19.350 |
| 13-MAY-76 | 0.066 | 5.702 | 1.184 | 21.020 | 4.55 | 25.570 | -19.868 |
| 14-MAY-76 | 0.065 | 5.616 | 1.184 | 21.020 | 4.55 | 25.570 | -19.954 |
| 15-MAY-76 | 0.064 | 5.530 | 1.184 | 21.020 | 4.55 | 25.570 | -20.041 |
| 16-MAY-76 | 0.060 | 5.184 | 1.184 | 21.020 | 4.55 | 25.570 | -20.386 |
| 17-MAY-76 | 0.060 | 5.184 | 1.184 | 21.020 | 4.55 | 25.570 | -20.386 |
| 18-MAY-76 | 0.104 | 8.986 | 1.184 | 21.020 | 4.55 | 25.570 | -16.585 |
| 19-MAY-76 | 0.150 | 12.960 | 1.178 | 20.916 | 4.55 | 25.466 | -12.506 |
| 20-MAY-76 | 0.117 | 10.109 | 1.178 | 20.916 | 4.55 | 25.466 | -15.357 |
| 21-MAY-76 | 0.085 | 7.344 | 1.178 | 20.916 | 4.55 | 25.466 | -18.122 |
| 22-MAY-76 | 0.079 | 6.826 | 1.178 | 20.916 | 4.55 | 25.466 | -18.640 |

3884.91
3903.36
3920.34
3933.86
3945.18
3956.58
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3922.15
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3863.53
3851.90
3839.57
3826.70
3813.56
3799.91
3785.91
3771.65
3756.70
3741.58
3726.90
3711.96
3697.10
3681.99
3667.05
3651.94
3636.83
3620.39
3603.43
3586.04
3567.96
3549.71
3531.28
3513.12
3493.77
3473.90
3453.94
3433.90
3413.52
3393.13
3376.55
3364.04
3348.68
3330.56
3311.92

| | | | | | | | |
|-----------|-------|-------|-------|--------|------|--------|---------|
| 19-JUL-76 | 0.018 | 1.555 | 1.160 | 20.595 | 4.55 | 25.145 | -23.590 |
| 20-JUL-76 | 0.017 | 1.469 | 1.160 | 20.595 | 4.55 | 25.145 | -23.676 |
| 21-JUL-76 | 0.014 | 1.210 | 1.152 | 20.446 | 4.55 | 24.996 | -23.786 |
| 22-JUL-76 | 0.014 | 1.210 | 1.152 | 20.446 | 4.55 | 24.996 | -23.786 |
| 23-JUL-76 | 0.013 | 1.123 | 1.152 | 20.446 | 4.55 | 24.996 | -23.873 |
| 24-JUL-76 | 0.012 | 1.037 | 1.152 | 20.446 | 4.55 | 24.996 | -23.959 |
| 25-JUL-76 | 0.012 | 1.037 | 1.152 | 20.446 | 4.55 | 24.996 | -23.959 |
| 26-JUL-76 | 0.012 | 1.037 | 1.152 | 20.446 | 4.55 | 24.996 | -23.959 |
| 27-JUL-76 | 0.011 | 0.950 | 1.152 | 20.446 | 4.55 | 24.996 | -24.045 |
| 28-JUL-76 | 0.010 | 0.864 | 0.787 | 13.961 | 4.55 | 18.511 | -17.647 |
| 29-JUL-76 | 0.009 | 0.778 | 0.787 | 13.961 | 4.55 | 18.511 | -17.734 |
| 30-JUL-76 | 0.010 | 0.864 | 0.787 | 13.961 | 4.55 | 18.511 | -17.647 |
| 31-JUL-76 | 0.010 | 0.864 | 0.787 | 13.961 | 4.55 | 18.511 | -17.647 |
| 01-AUG-76 | 0.011 | 0.950 | 0.787 | 13.961 | 4.55 | 18.511 | -17.561 |
| 02-AUG-76 | 0.011 | 0.950 | 0.787 | 13.961 | 4.55 | 18.511 | -17.561 |
| 03-AUG-76 | 0.011 | 0.950 | 0.787 | 13.961 | 4.55 | 18.511 | -17.561 |
| 04-AUG-76 | 0.011 | 0.950 | 0.763 | 13.536 | 4.55 | 18.086 | -17.136 |
| 05-AUG-76 | 0.011 | 0.950 | 0.763 | 13.536 | 4.55 | 18.086 | -17.136 |
| 06-AUG-76 | 0.010 | 0.864 | 0.763 | 13.536 | 4.55 | 18.086 | -17.222 |
| 07-AUG-76 | 0.010 | 0.864 | 0.763 | 13.536 | 4.55 | 18.086 | -17.222 |
| 08-AUG-76 | 0.010 | 0.864 | 0.763 | 13.536 | 4.55 | 18.086 | -17.222 |
| 09-AUG-76 | 0.010 | 0.864 | 0.763 | 13.536 | 4.55 | 18.086 | -17.222 |
| 10-AUG-76 | 0.009 | 0.778 | 0.763 | 13.536 | 4.55 | 18.086 | -17.308 |
| 11-AUG-76 | 0.009 | 0.778 | 0.636 | 11.290 | 4.55 | 15.840 | -15.062 |
| 12-AUG-76 | 0.009 | 0.778 | 0.636 | 11.290 | 4.55 | 15.840 | -15.062 |
| 13-AUG-76 | 0.009 | 0.778 | 0.636 | 11.290 | 4.55 | 15.840 | -15.062 |
| 14-AUG-76 | 0.007 | 0.605 | 0.636 | 11.290 | 4.55 | 15.840 | -15.235 |
| 15-AUG-76 | 0.007 | 0.605 | 0.636 | 11.290 | 4.55 | 15.840 | -15.235 |
| 16-AUG-76 | 0.007 | 0.605 | 0.636 | 11.290 | 4.55 | 15.840 | -15.235 |
| 17-AUG-76 | 0.007 | 0.605 | 0.636 | 11.290 | 4.55 | 15.840 | -15.235 |
| 18-AUG-76 | 0.007 | 0.605 | 0.571 | 10.141 | 4.55 | 14.691 | -14.086 |
| 19-AUG-76 | 0.006 | 0.518 | 0.571 | 10.141 | 4.55 | 14.691 | -14.172 |
| 20-AUG-76 | 0.007 | 0.605 | 0.571 | 10.141 | 4.55 | 14.691 | -14.086 |
| 21-AUG-76 | 0.006 | 0.518 | 0.571 | 10.141 | 4.55 | 14.691 | -14.172 |
| 22-AUG-76 | 0.006 | 0.518 | 0.571 | 10.141 | 4.55 | 14.691 | -14.172 |
| 23-AUG-76 | 0.006 | 0.518 | 0.571 | 10.141 | 4.55 | 14.691 | -14.172 |
| 24-AUG-76 | 0.006 | 0.518 | 0.571 | 10.141 | 4.55 | 14.691 | -14.172 |
| 25-AUG-76 | 0.007 | 0.605 | 0.528 | 9.372 | 4.55 | 13.922 | -13.317 |
| 26-AUG-76 | 0.007 | 0.605 | 0.528 | 9.372 | 4.55 | 13.922 | -13.317 |
| 27-AUG-76 | 0.006 | 0.518 | 0.528 | 9.372 | 4.55 | 13.922 | -13.404 |
| 28-AUG-76 | 0.007 | 0.605 | 0.528 | 9.372 | 4.55 | 13.922 | -13.317 |
| 29-AUG-76 | 0.014 | 1.210 | 0.528 | 9.372 | 4.55 | 13.922 | -12.713 |
| 30-AUG-76 | 0.075 | 6.480 | 0.528 | 9.372 | 4.55 | 13.922 | -7.442 |
| 31-AUG-76 | 0.024 | 2.074 | 0.528 | 9.372 | 4.55 | 13.922 | -11.849 |
| 01-SEP-76 | 0.017 | 1.469 | 0.563 | 9.999 | 4.55 | 14.549 | -13.080 |
| 02-SEP-76 | 0.014 | 1.210 | 0.563 | 9.999 | 4.55 | 14.549 | -13.339 |
| 03-SEP-76 | 0.013 | 1.123 | 0.563 | 9.999 | 4.55 | 14.549 | -13.426 |
| 04-SEP-76 | 0.013 | 1.123 | 0.563 | 9.999 | 4.55 | 14.549 | -13.426 |
| 05-SEP-76 | 0.012 | 1.037 | 0.563 | 9.999 | 4.55 | 14.549 | -13.512 |
| 06-SEP-76 | 0.011 | 0.950 | 0.563 | 9.999 | 4.55 | 14.549 | -13.599 |
| 07-SEP-76 | 0.011 | 0.950 | 0.563 | 9.999 | 4.55 | 14.549 | -13.599 |
| 08-SEP-76 | 0.010 | 0.864 | 0.485 | 8.604 | 4.55 | 13.154 | -12.290 |
| 09-SEP-76 | 0.012 | 1.037 | 0.485 | 8.604 | 4.55 | 13.154 | -12.117 |
| 10-SEP-76 | 0.047 | 4.061 | 0.485 | 8.604 | 4.55 | 13.154 | -9.093 |
| 11-SEP-76 | 0.033 | 2.851 | 0.485 | 8.604 | 4.55 | 13.154 | -10.302 |
| 12-SEP-76 | 0.027 | 2.333 | 0.485 | 8.604 | 4.55 | 13.154 | -10.821 |
| 13-SEP-76 | 0.023 | 1.987 | 0.485 | 8.604 | 4.55 | 13.154 | -11.166 |

2013.56
1989.88
1966.10
1942.31
1918.44
1894.48
1870.52
1846.56
1822.51
1804.87
1787.13
1769.49
1751.84
1734.28
1716.72
1699.16
1682.02
1664.88
1647.66
1630.44
1613.22
1596.00
1578.69
1563.63
1548.56
1533.50
1518.27
1503.03
1487.80
1472.56
1458.47
1444.30
1430.22
1416.04
1401.87
1387.70
1373.53
1360.21
1346.89
1333.49
1320.17
1307.46
1300.02
1288.17
1275.09
1261.75
1248.32
1234.90
1221.38
1207.79
1194.19
1181.90
1169.78
1160.69
1150.38
1139.56
1128.40

| | | | | | | | |
|-----------|-------|---------|-------|--------|------|--------|---------|
| 10-NOV-76 | 0.668 | 57.715 | 1.210 | 21.483 | 4.55 | 26.033 | 31.682 |
| 11-NOV-76 | 0.577 | 49.853 | 1.210 | 21.483 | 4.55 | 26.033 | 23.820 |
| 12-NOV-76 | 0.508 | 43.891 | 1.210 | 21.483 | 4.55 | 26.033 | 17.858 |
| 13-NOV-76 | 0.453 | 39.139 | 1.210 | 21.483 | 4.55 | 26.033 | 13.106 |
| 14-NOV-76 | 0.416 | 35.942 | 1.210 | 21.483 | 4.55 | 26.033 | 9.909 |
| 15-NOV-76 | 0.401 | 34.646 | 1.210 | 21.483 | 4.55 | 26.033 | 8.613 |
| 16-NOV-76 | 0.389 | 33.610 | 1.210 | 21.483 | 4.55 | 26.033 | 7.577 |
| 17-NOV-76 | 0.380 | 32.832 | 1.383 | 24.542 | 4.55 | 29.092 | 3.740 |
| 18-NOV-76 | 0.388 | 33.523 | 1.383 | 24.542 | 4.55 | 29.092 | 4.431 |
| 19-NOV-76 | 0.339 | 29.290 | 1.383 | 24.542 | 4.55 | 29.092 | 0.197 |
| 20-NOV-76 | 0.317 | 27.389 | 1.383 | 24.542 | 4.55 | 29.092 | -1.704 |
| 21-NOV-76 | 0.302 | 26.093 | 1.383 | 24.542 | 4.55 | 29.092 | -3.000 |
| 22-NOV-76 | 0.283 | 24.451 | 1.383 | 24.542 | 4.55 | 29.092 | -4.641 |
| 23-NOV-76 | 0.273 | 23.587 | 1.383 | 24.542 | 4.55 | 29.092 | -5.505 |
| 24-NOV-76 | 0.267 | 23.069 | 1.373 | 24.371 | 4.55 | 28.921 | -5.852 |
| 25-NOV-76 | 0.261 | 22.550 | 1.373 | 24.371 | 4.55 | 28.921 | -6.370 |
| 26-NOV-76 | 0.256 | 22.118 | 1.373 | 24.371 | 4.55 | 28.921 | -6.802 |
| 27-NOV-76 | 0.251 | 21.686 | 1.373 | 24.371 | 4.55 | 28.921 | -7.224 |
| 28-NOV-76 | 0.463 | 40.003 | 1.373 | 24.371 | 4.55 | 28.921 | 11.082 |
| 29-NOV-76 | 0.491 | 42.422 | 1.373 | 24.371 | 4.55 | 28.921 | 13.502 |
| 30-NOV-76 | 1.640 | 141.696 | 1.373 | 24.371 | 4.55 | 28.921 | 112.775 |
| 01-DEC-76 | 2.234 | 193.018 | 1.376 | 24.423 | 4.55 | 28.973 | 164.045 |
| 02-DEC-76 | 2.146 | 185.414 | 1.376 | 24.423 | 4.55 | 28.973 | 156.441 |
| 03-DEC-76 | 1.684 | 145.498 | 1.376 | 24.423 | 4.55 | 28.973 | 116.525 |
| 04-DEC-76 | 1.254 | 108.346 | 1.376 | 24.423 | 4.55 | 28.973 | 79.373 |
| 05-DEC-76 | 1.126 | 97.286 | 1.376 | 24.423 | 4.55 | 28.973 | 68.313 |
| 06-DEC-76 | 0.990 | 85.536 | 1.376 | 24.423 | 4.55 | 28.973 | 56.563 |
| 07-DEC-76 | 1.064 | 91.930 | 1.376 | 24.423 | 4.55 | 28.973 | 62.957 |
| 08-DEC-76 | 1.138 | 98.323 | 1.413 | 25.072 | 4.55 | 29.622 | 68.701 |
| 09-DEC-76 | 1.144 | 98.842 | 1.413 | 25.072 | 4.55 | 29.622 | 69.219 |
| 10-DEC-76 | 1.049 | 90.634 | 1.413 | 25.072 | 4.55 | 29.622 | 61.011 |
| 11-DEC-76 | 0.912 | 78.797 | 1.413 | 25.072 | 4.55 | 29.622 | 49.175 |
| 12-DEC-76 | 0.771 | 66.614 | 1.413 | 25.072 | 4.55 | 29.622 | 36.992 |
| 13-DEC-76 | 0.662 | 57.197 | 1.413 | 25.072 | 4.55 | 29.622 | 27.575 |
| 14-DEC-76 | 0.568 | 49.075 | 1.413 | 25.072 | 4.55 | 29.622 | 19.453 |
| 15-DEC-76 | 0.502 | 43.373 | 1.353 | 24.020 | 4.55 | 28.570 | 14.803 |
| 16-DEC-76 | 0.476 | 41.126 | 1.353 | 24.020 | 4.55 | 28.570 | 12.556 |
| 17-DEC-76 | 0.648 | 55.987 | 1.353 | 24.020 | 4.55 | 28.570 | 27.417 |
| 18-DEC-76 | 0.595 | 51.408 | 1.353 | 24.020 | 4.55 | 28.570 | 22.838 |
| 19-DEC-76 | 0.665 | 57.456 | 1.353 | 24.020 | 4.55 | 28.570 | 28.886 |
| 20-DEC-76 | 0.755 | 65.232 | 1.353 | 24.020 | 4.55 | 28.570 | 36.662 |
| 21-DEC-76 | 0.766 | 66.182 | 1.353 | 24.020 | 4.55 | 28.570 | 37.612 |
| 22-DEC-76 | 0.724 | 62.554 | 1.341 | 23.811 | 4.55 | 28.361 | 34.192 |
| 23-DEC-76 | 0.650 | 56.160 | 1.341 | 23.811 | 4.55 | 28.361 | 27.799 |
| 24-DEC-76 | 0.582 | 50.285 | 1.341 | 23.811 | 4.55 | 28.361 | 21.924 |
| 25-DEC-76 | 0.537 | 46.397 | 1.341 | 23.811 | 4.55 | 28.361 | 18.036 |
| 26-DEC-76 | 0.500 | 43.200 | 1.341 | 23.811 | 4.55 | 28.361 | 14.839 |
| 27-DEC-76 | 0.477 | 41.213 | 1.341 | 23.811 | 4.55 | 28.361 | 12.852 |
| 28-DEC-76 | 0.438 | 37.843 | 1.341 | 23.811 | 4.55 | 28.361 | 9.482 |
| 29-DEC-76 | 0.414 | 35.770 | 1.283 | 22.773 | 4.55 | 27.323 | 8.446 |
| 30-DEC-76 | 0.533 | 46.051 | 1.283 | 22.773 | 4.55 | 27.323 | 18.728 |
| 31-DEC-76 | 0.533 | 46.051 | 1.283 | 22.773 | 4.55 | 27.323 | 18.728 |

APPENDIX 5

CASE 3: Clatworthy Reservoir
1991

| Date | Inflow (cumeccs) | Inflow (Ml/d) | Ratio to Average | Reduced Abstraction 17.01 Ml/d | C.R (Ml/d) | Evaporation (Ml/d) | Outflow (Ml/d) |
|-----------|---------------------|------------------|---------------------|--------------------------------------|---------------|-----------------------|-------------------|
| 01-JAN-75 | 0.889 | 76.810 | 1.283 | 21.817 | 4.55 | 0.189 | 26.557 |
| 02-JAN-75 | 0.751 | 64.886 | 1.283 | 21.817 | 4.55 | 0.189 | 26.557 |
| 03-JAN-75 | 0.628 | 54.259 | 1.283 | 21.817 | 4.55 | 0.189 | 26.557 |
| 04-JAN-75 | 0.536 | 46.310 | 1.283 | 21.817 | 4.55 | 0.189 | 26.557 |
| 05-JAN-75 | 0.472 | 40.781 | 1.283 | 21.817 | 4.55 | 0.189 | 26.557 |
| 06-JAN-75 | 0.441 | 38.102 | 1.283 | 21.817 | 4.55 | 0.189 | 26.557 |
| 07-JAN-75 | 0.402 | 34.733 | 1.283 | 21.817 | 4.55 | 0.189 | 26.557 |
| 08-JAN-75 | 0.370 | 31.968 | 1.250 | 21.260 | 4.55 | 0.189 | 25.999 |
| 09-JAN-75 | 0.340 | 29.376 | 1.250 | 21.260 | 4.55 | 0.189 | 25.999 |
| 10-JAN-75 | 0.317 | 27.389 | 1.250 | 21.260 | 4.55 | 0.189 | 25.999 |
| 11-JAN-75 | 0.308 | 26.611 | 1.250 | 21.260 | 4.55 | 0.189 | 25.999 |
| 12-JAN-75 | 0.356 | 30.758 | 1.250 | 21.260 | 4.55 | 0.189 | 25.999 |
| 13-JAN-75 | 0.324 | 27.994 | 1.250 | 21.260 | 4.55 | 0.189 | 25.999 |
| 14-JAN-75 | 0.393 | 33.955 | 1.250 | 21.260 | 4.55 | 0.189 | 25.999 |
| 15-JAN-75 | 0.418 | 36.115 | 1.228 | 20.888 | 4.55 | 0.189 | 25.627 |
| 16-JAN-75 | 0.421 | 36.374 | 1.228 | 20.888 | 4.55 | 0.189 | 25.627 |
| 17-JAN-75 | 0.504 | 43.546 | 1.228 | 20.888 | 4.55 | 0.189 | 25.627 |
| 18-JAN-75 | 0.536 | 46.310 | 1.228 | 20.888 | 4.55 | 0.189 | 25.627 |
| 19-JAN-75 | 1.119 | 96.682 | 1.228 | 20.888 | 4.55 | 0.189 | 25.627 |
| 20-JAN-75 | 1.202 | 103.853 | 1.228 | 20.888 | 4.55 | 0.189 | 25.627 |
| 21-JAN-75 | 1.383 | 119.491 | 1.228 | 20.888 | 4.55 | 0.189 | 25.627 |
| 22-JAN-75 | 2.653 | 229.219 | 1.303 | 22.168 | 4.55 | 0.189 | 26.907 |
| 23-JAN-75 | 2.168 | 187.315 | 1.303 | 22.168 | 4.55 | 0.189 | 26.907 |
| 24-JAN-75 | 1.705 | 147.312 | 1.303 | 22.168 | 4.55 | 0.189 | 26.907 |
| 25-JAN-75 | 1.554 | 134.266 | 1.303 | 22.168 | 4.55 | 0.189 | 26.907 |
| 26-JAN-75 | 1.537 | 132.797 | 1.303 | 22.168 | 4.55 | 0.189 | 26.907 |
| 27-JAN-75 | 1.313 | 113.443 | 1.303 | 22.168 | 4.55 | 0.189 | 26.907 |
| 28-JAN-75 | 2.211 | 191.030 | 1.303 | 22.168 | 4.55 | 0.189 | 26.907 |
| 29-JAN-75 | 1.823 | 157.507 | 1.320 | 22.447 | 4.55 | 0.189 | 27.186 |
| 30-JAN-75 | 1.678 | 144.979 | 1.320 | 22.447 | 4.55 | 0.189 | 27.186 |
| 31-JAN-75 | 1.606 | 138.758 | 1.320 | 22.447 | 4.55 | 0.189 | 27.186 |
| 01-FEB-75 | 1.412 | 121.997 | 1.320 | 22.447 | 4.55 | 0.337 | 27.333 |
| 02-FEB-75 | 1.149 | 99.274 | 1.320 | 22.447 | 4.55 | 0.337 | 27.333 |
| 03-FEB-75 | 0.938 | 81.043 | 1.320 | 22.447 | 4.55 | 0.337 | 27.333 |
| 04-FEB-75 | 0.769 | 66.442 | 1.320 | 22.447 | 4.55 | 0.337 | 27.333 |
| 05-FEB-75 | 0.643 | 55.555 | 1.328 | 22.597 | 4.55 | 0.337 | 27.483 |
| 06-FEB-75 | 0.565 | 48.816 | 1.328 | 22.597 | 4.55 | 0.337 | 27.483 |
| 07-FEB-75 | 0.487 | 42.077 | 1.328 | 22.597 | 4.55 | 0.337 | 27.483 |
| 08-FEB-75 | 0.420 | 36.288 | 1.328 | 22.597 | 4.55 | 0.337 | 27.483 |
| 09-FEB-75 | 0.360 | 31.104 | 1.328 | 22.597 | 4.55 | 0.337 | 27.483 |
| 10-FEB-75 | 0.373 | 32.227 | 1.328 | 22.597 | 4.55 | 0.337 | 27.483 |
| 11-FEB-75 | 0.330 | 28.512 | 1.328 | 22.597 | 4.55 | 0.337 | 27.483 |
| 12-FEB-75 | 0.316 | 27.302 | 1.325 | 22.532 | 4.55 | 0.337 | 27.419 |
| 13-FEB-75 | 0.292 | 25.229 | 1.325 | 22.532 | 4.55 | 0.337 | 27.419 |
| 14-FEB-75 | 0.278 | 24.019 | 1.325 | 22.532 | 4.55 | 0.336 | 27.419 |
| 15-FEB-75 | 0.266 | 22.982 | 1.325 | 22.532 | 4.55 | 0.336 | 27.419 |
| 16-FEB-75 | 0.266 | 22.982 | 1.325 | 22.532 | 4.55 | 0.336 | 27.418 |
| 17-FEB-75 | 0.306 | 26.438 | 1.325 | 22.532 | 4.55 | 0.336 | 27.418 |
| 18-FEB-75 | 0.366 | 31.622 | 1.325 | 22.532 | 4.55 | 0.335 | 27.418 |
| 19-FEB-75 | 0.323 | 27.907 | 1.282 | 21.803 | 4.55 | 0.336 | 26.689 |
| 20-FEB-75 | 0.329 | 28.426 | 1.282 | 21.803 | 4.55 | 0.336 | 26.689 |
| 21-FEB-75 | 0.330 | 28.512 | 1.282 | 21.803 | 4.55 | 0.336 | 26.689 |

| Storage change | Storage |
|-------------------|---------|
| | 5404.00 |
| 50.253 | 5404.00 |
| 38.330 | 5404.00 |
| 27.703 | 5404.00 |
| 19.754 | 5404.00 |
| 14.224 | 5404.00 |
| 11.546 | 5404.00 |
| 8.176 | 5404.00 |
| 5.969 | 5404.00 |
| 3.377 | 5404.00 |
| 1.390 | 5404.00 |
| 0.612 | 5404.00 |
| 4.760 | 5404.00 |
| 1.995 | 5404.00 |
| 7.956 | 5404.00 |
| 10.488 | 5404.00 |
| 10.747 | 5404.00 |
| 17.919 | 5404.00 |
| 20.683 | 5404.00 |
| 71.055 | 5404.00 |
| 78.226 | 5404.00 |
| 93.864 | 5404.00 |
| 202.312 | 5404.00 |
| 160.408 | 5404.00 |
| 120.405 | 5404.00 |
| 107.359 | 5404.00 |
| 105.890 | 5404.00 |
| 86.536 | 5404.00 |
| 164.123 | 5404.00 |
| 130.321 | 5404.00 |
| 117.793 | 5404.00 |
| 111.572 | 5404.00 |
| 94.664 | 5404.00 |
| 71.940 | 5404.00 |
| 53.710 | 5404.00 |
| 39.108 | 5404.00 |
| 28.072 | 5404.00 |
| 21.333 | 5404.00 |
| 14.593 | 5404.00 |
| 8.805 | 5404.00 |
| 3.621 | 5404.00 |
| 4.744 | 5404.00 |
| 1.029 | 5404.00 |
| -0.117 | 5403.88 |
| -2.190 | 5401.69 |
| -3.400 | 5398.29 |
| -4.436 | 5393.86 |
| -4.436 | 5389.42 |
| -0.980 | 5388.44 |
| 4.205 | 5392.65 |
| 1.219 | 5393.87 |
| 1.737 | 5395.60 |
| 1.823 | 5397.43 |

| | | | | | | | |
|-----------|-------|--------|-------|--------|------|-------|--------|
| 20-APR-75 | 0.489 | 42.250 | 1.061 | 18.049 | 4.55 | 1.236 | 23.835 |
| 21-APR-75 | 0.516 | 44.582 | 1.061 | 18.049 | 4.55 | 1.236 | 23.835 |
| 22-APR-75 | 0.470 | 40.608 | 1.061 | 18.049 | 4.55 | 1.236 | 23.835 |
| 23-APR-75 | 0.429 | 37.066 | 1.068 | 18.163 | 4.55 | 1.236 | 23.949 |
| 24-APR-75 | 0.388 | 33.523 | 1.068 | 18.163 | 4.55 | 1.236 | 23.949 |
| 25-APR-75 | 0.360 | 31.104 | 1.068 | 18.163 | 4.55 | 1.236 | 23.949 |
| 26-APR-75 | 0.329 | 28.426 | 1.068 | 18.163 | 4.55 | 1.236 | 23.949 |
| 27-APR-75 | 0.303 | 26.179 | 1.068 | 18.163 | 4.55 | 1.236 | 23.949 |
| 28-APR-75 | 0.282 | 24.365 | 1.068 | 18.163 | 4.55 | 1.236 | 23.949 |
| 29-APR-75 | 0.267 | 23.069 | 1.068 | 18.163 | 4.55 | 1.236 | 23.949 |
| 30-APR-75 | 0.245 | 21.168 | 1.028 | 17.491 | 4.55 | 1.236 | 23.277 |
| 01-MAY-75 | 0.235 | 20.304 | 1.028 | 17.491 | 4.55 | 1.677 | 23.718 |
| 02-MAY-75 | 0.218 | 18.835 | 1.028 | 17.491 | 4.55 | 1.677 | 23.718 |
| 03-MAY-75 | 0.200 | 17.280 | 1.028 | 17.491 | 4.55 | 1.675 | 23.716 |
| 04-MAY-75 | 0.187 | 16.157 | 1.028 | 17.491 | 4.55 | 1.674 | 23.715 |
| 05-MAY-75 | 0.172 | 14.861 | 1.028 | 17.491 | 4.55 | 1.672 | 23.713 |
| 06-MAY-75 | 0.153 | 13.219 | 1.028 | 17.491 | 4.55 | 1.669 | 23.710 |
| 07-MAY-75 | 0.150 | 12.960 | 1.088 | 18.514 | 4.55 | 1.666 | 24.730 |
| 08-MAY-75 | 0.157 | 13.565 | 1.088 | 18.514 | 4.55 | 1.663 | 24.726 |
| 09-MAY-75 | 0.156 | 13.478 | 1.088 | 18.514 | 4.55 | 1.659 | 24.723 |
| 10-MAY-75 | 0.150 | 12.960 | 1.088 | 18.514 | 4.55 | 1.656 | 24.720 |
| 11-MAY-75 | 0.134 | 11.578 | 1.088 | 18.514 | 4.55 | 1.653 | 24.716 |
| 12-MAY-75 | 0.155 | 13.392 | 1.088 | 18.514 | 4.55 | 1.649 | 24.713 |
| 13-MAY-75 | 0.160 | 13.824 | 1.088 | 18.514 | 4.55 | 1.646 | 24.709 |
| 14-MAY-75 | 0.149 | 12.874 | 1.184 | 20.144 | 4.55 | 1.643 | 26.337 |
| 15-MAY-75 | 0.136 | 11.750 | 1.184 | 20.144 | 4.55 | 1.639 | 26.333 |
| 16-MAY-75 | 0.122 | 10.541 | 1.184 | 20.144 | 4.55 | 1.634 | 26.328 |
| 17-MAY-75 | 0.114 | 9.850 | 1.184 | 20.144 | 4.55 | 1.630 | 26.324 |
| 18-MAY-75 | 0.106 | 9.158 | 1.184 | 20.144 | 4.55 | 1.625 | 26.319 |
| 19-MAY-75 | 0.100 | 8.640 | 1.184 | 20.144 | 4.55 | 1.620 | 26.314 |
| 20-MAY-75 | 0.089 | 7.690 | 1.184 | 20.144 | 4.55 | 1.615 | 26.309 |
| 21-MAY-75 | 0.084 | 7.258 | 1.178 | 20.044 | 4.55 | 1.609 | 26.203 |
| 22-MAY-75 | 0.089 | 7.690 | 1.178 | 20.044 | 4.55 | 1.603 | 26.197 |
| 23-MAY-75 | 0.107 | 9.245 | 1.178 | 20.044 | 4.55 | 1.598 | 26.192 |
| 24-MAY-75 | 0.091 | 7.862 | 1.178 | 20.044 | 4.55 | 1.593 | 26.187 |
| 25-MAY-75 | 0.090 | 7.776 | 1.178 | 20.044 | 4.55 | 1.587 | 26.181 |
| 26-MAY-75 | 0.085 | 7.344 | 1.178 | 20.044 | 4.55 | 1.582 | 26.176 |
| 27-MAY-75 | 0.073 | 6.307 | 1.178 | 20.044 | 4.55 | 1.576 | 26.170 |
| 28-MAY-75 | 0.071 | 6.134 | 1.253 | 21.317 | 4.55 | 1.570 | 27.437 |
| 29-MAY-75 | 0.073 | 6.307 | 1.253 | 21.317 | 4.55 | 1.564 | 27.431 |
| 30-MAY-75 | 0.072 | 6.221 | 1.253 | 21.317 | 4.55 | 1.557 | 27.424 |
| 31-MAY-75 | 0.067 | 5.789 | 1.253 | 21.317 | 4.55 | 1.551 | 27.418 |
| 01-JUN-75 | 0.065 | 5.616 | 1.253 | 21.317 | 4.55 | 1.835 | 27.702 |
| 02-JUN-75 | 0.071 | 6.134 | 1.253 | 21.317 | 4.55 | 1.827 | 27.694 |
| 03-JUN-75 | 0.066 | 5.702 | 1.253 | 21.317 | 4.55 | 1.820 | 27.686 |
| 04-JUN-75 | 0.064 | 5.530 | 1.202 | 20.451 | 4.55 | 1.812 | 26.813 |
| 05-JUN-75 | 0.062 | 5.357 | 1.202 | 20.451 | 4.55 | 1.804 | 26.806 |
| 06-JUN-75 | 0.056 | 4.838 | 1.202 | 20.451 | 4.55 | 1.797 | 26.798 |
| 07-JUN-75 | 0.052 | 4.493 | 1.202 | 20.451 | 4.55 | 1.789 | 26.790 |
| 08-JUN-75 | 0.051 | 4.406 | 1.202 | 20.451 | 4.55 | 1.781 | 26.783 |
| 09-JUN-75 | 0.050 | 4.320 | 1.202 | 20.451 | 4.55 | 1.773 | 26.775 |
| 10-JUN-75 | 0.049 | 4.234 | 1.202 | 20.451 | 4.55 | 1.765 | 26.767 |
| 11-JUN-75 | 0.045 | 3.888 | 1.247 | 21.217 | 4.55 | 1.757 | 27.524 |
| 12-JUN-75 | 0.042 | 3.629 | 1.247 | 21.217 | 4.55 | 1.749 | 27.515 |
| 13-JUN-75 | 0.039 | 3.370 | 1.247 | 21.217 | 4.55 | 1.740 | 27.507 |
| 14-JUN-75 | 0.037 | 3.197 | 1.247 | 21.217 | 4.55 | 1.732 | 27.498 |
| 15-JUN-75 | 0.036 | 3.110 | 1.247 | 21.217 | 4.55 | 1.723 | 27.490 |

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| 18.415 | 5404.00 |
| 20.748 | 5404.00 |
| 16.773 | 5404.00 |
| 13.116 | 5404.00 |
| 9.574 | 5404.00 |
| 7.155 | 5404.00 |
| 4.476 | 5404.00 |
| 2.230 | 5404.00 |
| 0.415 | 5404.00 |
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| -4.882 | 5392.71 |
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| -8.852 | 5369.87 |
| -10.491 | 5359.38 |
| -11.770 | 5347.61 |
| -11.161 | 5336.45 |
| -11.245 | 5325.20 |
| -11.760 | 5313.44 |
| -13.139 | 5300.30 |
| -11.321 | 5288.98 |
| -10.885 | 5278.10 |
| -13.463 | 5264.63 |
| -14.582 | 5250.05 |
| -15.788 | 5234.26 |
| -16.474 | 5217.79 |
| -17.160 | 5200.63 |
| -17.674 | 5182.95 |
| -18.619 | 5164.34 |
| -18.945 | 5145.39 |
| -18.508 | 5126.88 |
| -16.947 | 5109.94 |
| -18.324 | 5091.61 |
| -18.405 | 5073.21 |
| -18.832 | 5054.37 |
| -19.863 | 5034.51 |
| -21.303 | 5013.21 |
| -21.123 | 4992.09 |
| -21.203 | 4970.88 |
| -21.629 | 4949.25 |
| -22.086 | 4927.17 |
| -21.560 | 4905.61 |
| -21.984 | 4883.62 |
| -21.284 | 4862.34 |
| -21.449 | 4840.89 |
| -21.960 | 4818.93 |
| -22.298 | 4796.63 |
| -22.376 | 4774.26 |
| -22.455 | 4751.80 |
| -22.533 | 4729.27 |
| -23.636 | 4705.63 |
| -23.887 | 4681.75 |
| -24.137 | 4657.61 |
| -24.302 | 4633.31 |
| -24.379 | 4608.93 |

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|-----------|-------|--------|-------|--------|------|-------|--------|
| 12-AUG-75 | 0.016 | 1.382 | 0.763 | 12.972 | 4.55 | 1.013 | 18.535 |
| 13-AUG-75 | 0.016 | 1.382 | 0.636 | 10.819 | 4.55 | 1.009 | 16.378 |
| 14-AUG-75 | 0.016 | 1.382 | 0.636 | 10.819 | 4.55 | 1.004 | 16.374 |
| 15-AUG-75 | 0.026 | 2.246 | 0.636 | 10.819 | 4.55 | 1.000 | 16.369 |
| 16-AUG-75 | 0.028 | 2.419 | 0.636 | 10.819 | 4.55 | 0.996 | 16.365 |
| 17-AUG-75 | 0.031 | 2.678 | 0.636 | 10.819 | 4.55 | 0.992 | 16.361 |
| 18-AUG-75 | 0.027 | 2.333 | 0.636 | 10.819 | 4.55 | 0.988 | 16.357 |
| 19-AUG-75 | 0.032 | 2.765 | 0.636 | 10.819 | 4.55 | 0.984 | 16.353 |
| 20-AUG-75 | 0.036 | 3.110 | 0.571 | 9.718 | 4.55 | 0.980 | 15.248 |
| 21-AUG-75 | 0.028 | 2.419 | 0.571 | 9.718 | 4.55 | 0.977 | 15.245 |
| 22-AUG-75 | 0.026 | 2.246 | 0.571 | 9.718 | 4.55 | 0.973 | 15.241 |
| 23-AUG-75 | 0.024 | 2.074 | 0.571 | 9.718 | 4.55 | 0.970 | 15.238 |
| 24-AUG-75 | 0.023 | 1.987 | 0.571 | 9.718 | 4.55 | 0.966 | 15.234 |
| 25-AUG-75 | 0.021 | 1.814 | 0.571 | 9.718 | 4.55 | 0.962 | 15.230 |
| 26-AUG-75 | 0.019 | 1.642 | 0.571 | 9.718 | 4.55 | 0.958 | 15.227 |
| 27-AUG-75 | 0.017 | 1.469 | 0.528 | 8.981 | 4.55 | 0.955 | 14.486 |
| 28-AUG-75 | 0.017 | 1.469 | 0.528 | 8.981 | 4.55 | 0.951 | 14.482 |
| 29-AUG-75 | 0.016 | 1.382 | 0.528 | 8.981 | 4.55 | 0.947 | 14.479 |
| 30-AUG-75 | 0.016 | 1.382 | 0.528 | 8.981 | 4.55 | 0.944 | 14.475 |
| 31-AUG-75 | 0.016 | 1.382 | 0.528 | 8.981 | 4.55 | 0.940 | 14.471 |
| 01-SEP-75 | 0.016 | 1.382 | 0.528 | 8.981 | 4.55 | 0.608 | 14.139 |
| 02-SEP-75 | 0.016 | 1.382 | 0.528 | 8.981 | 4.55 | 0.605 | 14.137 |
| 03-SEP-75 | 0.016 | 1.382 | 0.563 | 9.582 | 4.55 | 0.603 | 14.735 |
| 04-SEP-75 | 0.016 | 1.382 | 0.563 | 9.582 | 4.55 | 0.600 | 14.732 |
| 05-SEP-75 | 0.016 | 1.382 | 0.563 | 9.582 | 4.55 | 0.598 | 14.730 |
| 06-SEP-75 | 0.015 | 1.296 | 0.563 | 9.582 | 4.55 | 0.595 | 14.727 |
| 07-SEP-75 | 0.016 | 1.382 | 0.563 | 9.582 | 4.55 | 0.593 | 14.725 |
| 08-SEP-75 | 0.016 | 1.382 | 0.563 | 9.582 | 4.55 | 0.590 | 14.722 |
| 09-SEP-75 | 0.018 | 1.555 | 0.563 | 9.582 | 4.55 | 0.588 | 14.720 |
| 10-SEP-75 | 0.017 | 1.469 | 0.485 | 8.245 | 4.55 | 0.585 | 13.380 |
| 11-SEP-75 | 0.022 | 1.901 | 0.485 | 8.245 | 4.55 | 0.583 | 13.378 |
| 12-SEP-75 | 0.041 | 3.542 | 0.485 | 8.245 | 4.55 | 0.581 | 13.376 |
| 13-SEP-75 | 0.563 | 48.643 | 0.485 | 8.245 | 4.55 | 0.579 | 13.374 |
| 14-SEP-75 | 0.182 | 15.725 | 0.485 | 8.245 | 4.55 | 0.586 | 13.381 |
| 15-SEP-75 | 0.085 | 7.344 | 0.485 | 8.245 | 4.55 | 0.586 | 13.381 |
| 16-SEP-75 | 0.062 | 5.357 | 0.485 | 8.245 | 4.55 | 0.585 | 13.380 |
| 17-SEP-75 | 0.056 | 4.838 | 0.343 | 5.835 | 4.55 | 0.584 | 10.969 |
| 18-SEP-75 | 0.058 | 5.011 | 0.343 | 5.835 | 4.55 | 0.583 | 10.968 |
| 19-SEP-75 | 0.051 | 4.406 | 0.343 | 5.835 | 4.55 | 0.582 | 10.967 |
| 20-SEP-75 | 0.050 | 4.320 | 0.343 | 5.835 | 4.55 | 0.580 | 10.965 |
| 21-SEP-75 | 0.046 | 3.974 | 0.343 | 5.835 | 4.55 | 0.579 | 10.964 |
| 22-SEP-75 | 0.043 | 3.715 | 0.343 | 5.835 | 4.55 | 0.578 | 10.963 |
| 23-SEP-75 | 0.042 | 3.629 | 0.343 | 5.835 | 4.55 | 0.577 | 10.962 |
| 24-SEP-75 | 0.044 | 3.802 | 0.249 | 4.240 | 4.55 | 0.575 | 9.366 |
| 25-SEP-75 | 0.237 | 20.477 | 0.249 | 4.240 | 4.55 | 0.574 | 9.365 |
| 26-SEP-75 | 0.192 | 16.589 | 0.249 | 4.240 | 4.55 | 0.576 | 9.367 |
| 27-SEP-75 | 0.265 | 22.896 | 0.249 | 4.240 | 4.55 | 0.578 | 9.368 |
| 28-SEP-75 | 0.200 | 17.280 | 0.249 | 4.240 | 4.55 | 0.581 | 9.371 |
| 29-SEP-75 | 0.197 | 17.021 | 0.249 | 4.240 | 4.55 | 0.582 | 9.371 |
| 30-SEP-75 | 0.192 | 16.589 | 0.249 | 4.240 | 4.55 | 0.584 | 9.374 |
| 01-OCT-75 | 0.165 | 14.256 | 0.223 | 3.790 | 4.55 | 0.278 | 8.618 |
| 02-OCT-75 | 0.178 | 15.379 | 0.223 | 3.790 | 4.55 | 0.278 | 8.618 |
| 03-OCT-75 | 0.159 | 13.738 | 0.223 | 3.790 | 4.55 | 0.279 | 8.619 |
| 04-OCT-75 | 0.155 | 13.392 | 0.223 | 3.790 | 4.55 | 0.279 | 8.619 |
| 05-OCT-75 | 0.145 | 12.528 | 0.223 | 3.790 | 4.55 | 0.280 | 8.620 |
| 06-OCT-75 | 0.142 | 12.269 | 0.223 | 3.790 | 4.55 | 0.280 | 8.620 |
| 07-OCT-75 | 0.137 | 11.837 | 0.223 | 3.790 | 4.55 | 0.280 | 8.620 |

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| -17.153 | 3354.96 |
| -14.995 | 3339.97 |
| -14.991 | 3324.98 |
| -14.123 | 3310.85 |
| -13.946 | 3296.91 |
| -13.683 | 3283.22 |
| -14.025 | 3269.20 |
| -13.589 | 3255.61 |
| -12.138 | 3243.47 |
| -12.826 | 3230.65 |
| -12.995 | 3217.65 |
| -13.164 | 3204.49 |
| -13.247 | 3191.24 |
| -13.416 | 3177.83 |
| -13.585 | 3164.24 |
| -13.017 | 3151.22 |
| -13.014 | 3138.21 |
| -13.096 | 3125.11 |
| -13.093 | 3112.02 |
| -13.089 | 3098.93 |
| -12.757 | 3086.17 |
| -12.754 | 3073.42 |
| -13.353 | 3060.07 |
| -13.350 | 3046.72 |
| -13.348 | 3033.37 |
| -13.431 | 3019.94 |
| -13.343 | 3006.60 |
| -13.340 | 2993.26 |
| -13.165 | 2980.09 |
| -11.911 | 2968.18 |
| -11.477 | 2956.70 |
| -9.833 | 2946.87 |
| 35.269 | 2982.14 |
| 2.344 | 2984.48 |
| -6.037 | 2978.44 |
| -8.023 | 2970.42 |
| -6.130 | 2964.29 |
| -5.957 | 2958.33 |
| -6.560 | 2951.77 |
| -6.645 | 2945.13 |
| -6.990 | 2938.14 |
| -7.248 | 2930.89 |
| -7.333 | 2923.56 |
| -5.564 | 2917.99 |
| 11.112 | 2929.11 |
| 7.222 | 2936.33 |
| 13.528 | 2949.86 |
| 7.909 | 2957.76 |
| 7.648 | 2965.41 |
| 7.215 | 2972.63 |
| 5.638 | 2978.27 |
| 6.761 | 2985.03 |
| 5.119 | 2990.15 |
| 4.773 | 2994.92 |
| 3.908 | 2998.83 |
| 3.649 | 3002.48 |
| 3.216 | 3005.69 |

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|-----------|-------|---------|-------|--------|------|-------|--------|
| 04-DEC-75 | 1.340 | 115.776 | 1.376 | 23.405 | 4.55 | 0.067 | 28.022 |
| 05-DEC-75 | 1.128 | 97.459 | 1.376 | 23.405 | 4.55 | 0.069 | 28.023 |
| 06-DEC-75 | 0.907 | 78.365 | 1.376 | 23.405 | 4.55 | 0.070 | 28.025 |
| 07-DEC-75 | 0.731 | 63.158 | 1.376 | 23.405 | 4.55 | 0.071 | 28.026 |
| 08-DEC-75 | 0.602 | 52.013 | 1.376 | 23.405 | 4.55 | 0.071 | 28.026 |
| 09-DEC-75 | 0.504 | 43.546 | 1.376 | 23.405 | 4.55 | 0.072 | 28.027 |
| 10-DEC-75 | 0.437 | 37.757 | 1.413 | 24.027 | 4.55 | 0.072 | 28.649 |
| 11-DEC-75 | 0.395 | 34.128 | 1.413 | 24.027 | 4.55 | 0.072 | 28.649 |
| 12-DEC-75 | 0.392 | 33.869 | 1.413 | 24.027 | 4.55 | 0.072 | 28.649 |
| 13-DEC-75 | 0.339 | 29.290 | 1.413 | 24.027 | 4.55 | 0.072 | 28.649 |
| 14-DEC-75 | 0.306 | 26.438 | 1.413 | 24.027 | 4.55 | 0.072 | 28.649 |
| 15-DEC-75 | 0.279 | 24.106 | 1.413 | 24.027 | 4.55 | 0.072 | 28.649 |
| 16-DEC-75 | 0.258 | 22.291 | 1.413 | 24.027 | 4.55 | 0.072 | 28.649 |
| 17-DEC-75 | 0.237 | 20.477 | 1.353 | 23.019 | 4.55 | 0.072 | 27.641 |
| 18-DEC-75 | 0.223 | 19.267 | 1.353 | 23.019 | 4.55 | 0.072 | 27.641 |
| 19-DEC-75 | 0.214 | 18.490 | 1.353 | 23.019 | 4.55 | 0.072 | 27.640 |
| 20-DEC-75 | 0.208 | 17.971 | 1.353 | 23.019 | 4.55 | 0.072 | 27.640 |
| 21-DEC-75 | 0.200 | 17.280 | 1.353 | 23.019 | 4.55 | 0.071 | 27.640 |
| 22-DEC-75 | 0.178 | 15.379 | 1.353 | 23.019 | 4.55 | 0.071 | 27.640 |
| 23-DEC-75 | 0.175 | 15.120 | 1.353 | 23.019 | 4.55 | 0.071 | 27.640 |
| 24-DEC-75 | 0.176 | 15.206 | 1.341 | 22.818 | 4.55 | 0.071 | 27.439 |
| 25-DEC-75 | 0.171 | 14.774 | 1.341 | 22.818 | 4.55 | 0.070 | 27.439 |
| 26-DEC-75 | 0.168 | 14.515 | 1.341 | 22.818 | 4.55 | 0.070 | 27.439 |
| 27-DEC-75 | 0.159 | 13.738 | 1.341 | 22.818 | 4.55 | 0.070 | 27.438 |
| 28-DEC-75 | 0.150 | 12.960 | 1.341 | 22.818 | 4.55 | 0.070 | 27.438 |
| 29-DEC-75 | 0.144 | 12.442 | 1.341 | 22.818 | 4.55 | 0.069 | 27.438 |
| 30-DEC-75 | 0.146 | 12.614 | 1.341 | 22.818 | 4.55 | 0.069 | 27.438 |
| 31-DEC-75 | 0.160 | 13.824 | 1.283 | 21.817 | 4.55 | 0.069 | 26.436 |
| 01-JAN-76 | 0.168 | 14.515 | 1.283 | 21.817 | 4.55 | 0.130 | 26.497 |
| 02-JAN-76 | 0.255 | 22.032 | 1.283 | 21.817 | 4.55 | 0.130 | 26.497 |
| 03-JAN-76 | 0.286 | 24.710 | 1.283 | 21.817 | 4.55 | 0.129 | 26.497 |
| 04-JAN-76 | 0.339 | 29.290 | 1.283 | 21.817 | 4.55 | 0.129 | 26.497 |
| 05-JAN-76 | 0.359 | 31.018 | 1.283 | 21.817 | 4.55 | 0.129 | 26.497 |
| 06-JAN-76 | 0.361 | 31.190 | 1.283 | 21.817 | 4.55 | 0.129 | 26.497 |
| 07-JAN-76 | 0.369 | 31.882 | 1.250 | 21.260 | 4.55 | 0.130 | 25.939 |
| 08-JAN-76 | 0.376 | 32.486 | 1.250 | 21.260 | 4.55 | 0.130 | 25.939 |
| 09-JAN-76 | 0.370 | 31.968 | 1.250 | 21.260 | 4.55 | 0.130 | 25.940 |
| 10-JAN-76 | 0.350 | 30.240 | 1.250 | 21.260 | 4.55 | 0.130 | 25.940 |
| 11-JAN-76 | 0.318 | 27.475 | 1.250 | 21.260 | 4.55 | 0.130 | 25.940 |
| 12-JAN-76 | 0.286 | 24.710 | 1.250 | 21.260 | 4.55 | 0.130 | 25.940 |
| 13-JAN-76 | 0.270 | 23.328 | 1.250 | 21.260 | 4.55 | 0.130 | 25.940 |
| 14-JAN-76 | 0.261 | 22.550 | 1.228 | 20.888 | 4.55 | 0.130 | 25.568 |
| 15-JAN-76 | 0.248 | 21.427 | 1.228 | 20.888 | 4.55 | 0.130 | 25.568 |
| 16-JAN-76 | 0.240 | 20.736 | 1.228 | 20.888 | 4.55 | 0.130 | 25.567 |
| 17-JAN-76 | 0.228 | 19.699 | 1.228 | 20.888 | 4.55 | 0.130 | 25.567 |
| 18-JAN-76 | 0.218 | 18.835 | 1.228 | 20.888 | 4.55 | 0.129 | 25.567 |
| 19-JAN-76 | 0.233 | 20.131 | 1.228 | 20.888 | 4.55 | 0.129 | 25.567 |
| 20-JAN-76 | 0.258 | 22.291 | 1.228 | 20.888 | 4.55 | 0.129 | 25.567 |
| 21-JAN-76 | 0.215 | 18.576 | 1.303 | 22.168 | 4.55 | 0.129 | 26.846 |
| 22-JAN-76 | 0.204 | 17.626 | 1.303 | 22.168 | 4.55 | 0.128 | 26.846 |
| 23-JAN-76 | 0.197 | 17.021 | 1.303 | 22.168 | 4.55 | 0.128 | 26.846 |
| 24-JAN-76 | 0.193 | 16.675 | 1.303 | 22.168 | 4.55 | 0.128 | 26.845 |
| 25-JAN-76 | 0.183 | 15.811 | 1.303 | 22.168 | 4.55 | 0.127 | 26.845 |
| 26-JAN-76 | 0.185 | 15.984 | 1.303 | 22.168 | 4.55 | 0.127 | 26.845 |
| 27-JAN-76 | 0.192 | 16.589 | 1.303 | 22.168 | 4.55 | 0.126 | 26.844 |
| 28-JAN-76 | 0.263 | 22.723 | 1.320 | 22.447 | 4.55 | 0.126 | 27.123 |
| 29-JAN-76 | 0.374 | 32.314 | 1.320 | 22.447 | 4.55 | 0.126 | 27.122 |

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| 87.754 | 3632.85 |
| 69.436 | 3702.28 |
| 50.340 | 3752.63 |
| 35.133 | 3787.76 |
| 23.987 | 3811.74 |
| 15.519 | 3827.26 |
| 9.108 | 3836.37 |
| 5.479 | 3841.85 |
| 5.220 | 3847.07 |
| 0.640 | 3847.71 |
| -2.211 | 3845.50 |
| -4.544 | 3840.96 |
| -6.358 | 3834.60 |
| -7.164 | 3827.43 |
| -8.373 | 3819.06 |
| -9.151 | 3809.91 |
| -9.669 | 3800.24 |
| -10.360 | 3789.88 |
| -12.261 | 3777.62 |
| -12.520 | 3765.10 |
| -12.233 | 3752.87 |
| -12.665 | 3740.20 |
| -12.923 | 3727.28 |
| -13.701 | 3713.58 |
| -14.478 | 3699.10 |
| -14.996 | 3684.10 |
| -14.823 | 3669.28 |
| -12.612 | 3656.67 |
| -11.982 | 3644.69 |
| -4.465 | 3640.22 |
| -1.786 | 3638.43 |
| 2.793 | 3641.23 |
| 4.521 | 3645.75 |
| 4.694 | 3650.44 |
| 5.942 | 3656.38 |
| 6.547 | 3662.93 |
| 6.028 | 3668.96 |
| 4.300 | 3673.26 |
| 1.535 | 3674.80 |
| -1.229 | 3673.57 |
| -2.612 | 3670.96 |
| -3.017 | 3667.94 |
| -4.140 | 3663.80 |
| -4.831 | 3658.97 |
| -5.868 | 3653.10 |
| -6.732 | 3646.37 |
| -5.436 | 3640.93 |
| -3.275 | 3637.65 |
| -8.270 | 3629.38 |
| -9.221 | 3620.16 |
| -9.825 | 3610.34 |
| -10.170 | 3600.17 |
| -11.034 | 3589.13 |
| -10.861 | 3578.27 |
| -10.255 | 3568.02 |
| -4.399 | 3563.62 |
| 5.191 | 3568.81 |

| | | | | | | | |
|-----------|-------|--------|-------|--------|------|-------|--------|
| 27-MAR-76 | 0.545 | 47.088 | 1.313 | 22.339 | 4.55 | 0.493 | 27.382 |
| 28-MAR-76 | 0.536 | 46.310 | 1.313 | 22.339 | 4.55 | 0.495 | 27.385 |
| 29-MAR-76 | 0.519 | 44.842 | 1.313 | 22.339 | 4.55 | 0.498 | 27.387 |
| 30-MAR-76 | 0.479 | 41.386 | 1.313 | 22.339 | 4.55 | 0.500 | 27.389 |
| 31-MAR-76 | 0.448 | 38.707 | 1.287 | 21.889 | 4.55 | 0.502 | 26.940 |
| 01-APR-76 | 0.449 | 38.794 | 1.287 | 21.889 | 4.55 | 0.902 | 27.341 |
| 02-APR-76 | 0.402 | 34.733 | 1.287 | 21.889 | 4.55 | 0.905 | 27.344 |
| 03-APR-76 | 0.358 | 30.931 | 1.287 | 21.889 | 4.55 | 0.907 | 27.346 |
| 04-APR-76 | 0.328 | 28.339 | 1.287 | 21.889 | 4.55 | 0.908 | 27.346 |
| 05-APR-76 | 0.298 | 25.747 | 1.287 | 21.889 | 4.55 | 0.908 | 27.347 |
| 06-APR-76 | 0.270 | 23.328 | 1.287 | 21.889 | 4.55 | 0.907 | 27.346 |
| 07-APR-76 | 0.252 | 21.773 | 1.176 | 20.001 | 4.55 | 0.906 | 25.457 |
| 08-APR-76 | 0.231 | 19.958 | 1.176 | 20.001 | 4.55 | 0.906 | 25.457 |
| 09-APR-76 | 0.217 | 18.749 | 1.176 | 20.001 | 4.55 | 0.904 | 25.455 |
| 10-APR-76 | 0.211 | 18.230 | 1.176 | 20.001 | 4.55 | 0.903 | 25.454 |
| 11-APR-76 | 0.202 | 17.453 | 1.176 | 20.001 | 4.55 | 0.901 | 25.452 |
| 12-APR-76 | 0.183 | 15.811 | 1.176 | 20.001 | 4.55 | 0.899 | 25.450 |
| 13-APR-76 | 0.183 | 15.811 | 1.176 | 20.001 | 4.55 | 0.897 | 25.448 |
| 14-APR-76 | 0.178 | 15.379 | 1.061 | 18.049 | 4.55 | 0.895 | 23.494 |
| 15-APR-76 | 0.162 | 13.997 | 1.061 | 18.049 | 4.55 | 0.893 | 23.492 |
| 16-APR-76 | 0.158 | 13.651 | 1.061 | 18.049 | 4.55 | 0.891 | 23.490 |
| 17-APR-76 | 0.146 | 12.614 | 1.061 | 18.049 | 4.55 | 0.889 | 23.488 |
| 18-APR-76 | 0.142 | 12.269 | 1.061 | 18.049 | 4.55 | 0.886 | 23.485 |
| 19-APR-76 | 0.136 | 11.750 | 1.061 | 18.049 | 4.55 | 0.884 | 23.483 |
| 20-APR-76 | 0.128 | 11.059 | 1.061 | 18.049 | 4.55 | 0.881 | 23.480 |
| 21-APR-76 | 0.123 | 10.627 | 1.068 | 18.163 | 4.55 | 0.878 | 23.591 |
| 22-APR-76 | 0.120 | 10.368 | 1.068 | 18.163 | 4.55 | 0.875 | 23.589 |
| 23-APR-76 | 0.114 | 9.850 | 1.068 | 18.163 | 4.55 | 0.872 | 23.586 |
| 24-APR-76 | 0.110 | 9.504 | 1.068 | 18.163 | 4.55 | 0.869 | 23.582 |
| 25-APR-76 | 0.107 | 9.245 | 1.068 | 18.163 | 4.55 | 0.866 | 23.579 |
| 26-APR-76 | 0.099 | 8.554 | 1.068 | 18.163 | 4.55 | 0.863 | 23.576 |
| 27-APR-76 | 0.097 | 8.381 | 1.068 | 18.163 | 4.55 | 0.859 | 23.573 |
| 28-APR-76 | 0.094 | 8.122 | 1.028 | 17.491 | 4.55 | 0.856 | 22.897 |
| 29-APR-76 | 0.091 | 7.862 | 1.028 | 17.491 | 4.55 | 0.852 | 22.894 |
| 30-APR-76 | 0.092 | 7.949 | 1.028 | 17.491 | 4.55 | 0.849 | 22.890 |
| 01-MAY-76 | 0.089 | 7.690 | 1.028 | 17.491 | 4.55 | 1.148 | 23.189 |
| 02-MAY-76 | 0.091 | 7.862 | 1.028 | 17.491 | 4.55 | 1.143 | 23.184 |
| 03-MAY-76 | 0.089 | 7.690 | 1.028 | 17.491 | 4.55 | 1.139 | 23.180 |
| 04-MAY-76 | 0.089 | 7.690 | 1.028 | 17.491 | 4.55 | 1.134 | 23.175 |
| 05-MAY-76 | 0.086 | 7.430 | 1.088 | 18.514 | 4.55 | 1.129 | 24.193 |
| 06-MAY-76 | 0.080 | 6.912 | 1.088 | 18.514 | 4.55 | 1.124 | 24.188 |
| 07-MAY-76 | 0.075 | 6.480 | 1.088 | 18.514 | 4.55 | 1.119 | 24.182 |
| 08-MAY-76 | 0.067 | 5.789 | 1.088 | 18.514 | 4.55 | 1.113 | 24.177 |
| 09-MAY-76 | 0.065 | 5.616 | 1.088 | 18.514 | 4.55 | 1.108 | 24.171 |
| 10-MAY-76 | 0.063 | 5.443 | 1.088 | 18.514 | 4.55 | 1.102 | 24.166 |
| 11-MAY-76 | 0.066 | 5.702 | 1.088 | 18.514 | 4.55 | 1.096 | 24.160 |
| 12-MAY-76 | 0.072 | 6.221 | 1.184 | 20.144 | 4.55 | 1.091 | 25.785 |
| 13-MAY-76 | 0.066 | 5.702 | 1.184 | 20.144 | 4.55 | 1.085 | 25.779 |
| 14-MAY-76 | 0.065 | 5.616 | 1.184 | 20.144 | 4.55 | 1.079 | 25.773 |
| 15-MAY-76 | 0.064 | 5.530 | 1.184 | 20.144 | 4.55 | 1.072 | 25.766 |
| 16-MAY-76 | 0.060 | 5.184 | 1.184 | 20.144 | 4.55 | 1.066 | 25.760 |
| 17-MAY-76 | 0.060 | 5.184 | 1.184 | 20.144 | 4.55 | 1.060 | 25.754 |
| 18-MAY-76 | 0.104 | 8.986 | 1.184 | 20.144 | 4.55 | 1.054 | 25.748 |
| 19-MAY-76 | 0.150 | 12.960 | 1.178 | 20.044 | 4.55 | 1.048 | 25.642 |
| 20-MAY-76 | 0.117 | 10.109 | 1.178 | 20.044 | 4.55 | 1.045 | 25.638 |
| 21-MAY-76 | 0.085 | 7.344 | 1.178 | 20.044 | 4.55 | 1.040 | 25.634 |
| 22-MAY-76 | 0.079 | 6.826 | 1.178 | 20.044 | 4.55 | 1.034 | 25.628 |

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|---------|---------|
| 19.706 | 3890.96 |
| 18.926 | 3909.89 |
| 17.455 | 3927.34 |
| 13.996 | 3941.34 |
| 11.767 | 3953.11 |
| 11.452 | 3964.56 |
| 7.389 | 3971.95 |
| 3.586 | 3975.53 |
| 0.993 | 3976.53 |
| -1.599 | 3974.93 |
| -4.018 | 3970.91 |
| -3.685 | 3967.22 |
| -5.498 | 3961.73 |
| -6.707 | 3955.02 |
| -7.223 | 3947.80 |
| -7.999 | 3939.80 |
| -9.639 | 3930.16 |
| -9.637 | 3920.52 |
| -8.115 | 3912.41 |
| -9.495 | 3902.91 |
| -9.839 | 3893.07 |
| -10.873 | 3882.20 |
| -11.216 | 3870.98 |
| -11.732 | 3859.25 |
| -12.421 | 3846.83 |
| -12.964 | 3833.87 |
| -13.221 | 3820.65 |
| -13.736 | 3806.91 |
| -14.078 | 3792.83 |
| -14.334 | 3778.50 |
| -15.022 | 3763.47 |
| -15.192 | 3748.28 |
| -14.775 | 3733.51 |
| -15.031 | 3718.48 |
| -14.941 | 3703.53 |
| -15.499 | 3688.04 |
| -15.322 | 3672.71 |
| -15.490 | 3657.22 |
| -15.485 | 3641.74 |
| -16.762 | 3624.98 |
| -17.276 | 3607.70 |
| -17.702 | 3590.00 |
| -18.388 | 3571.61 |
| -18.555 | 3553.05 |
| -18.723 | 3534.33 |
| -18.458 | 3515.87 |
| -19.564 | 3496.31 |
| -20.076 | 3476.23 |
| -20.157 | 3456.08 |
| -20.237 | 3435.84 |
| -20.576 | 3415.26 |
| -20.570 | 3394.69 |
| -16.762 | 3377.93 |
| -12.682 | 3365.25 |
| -15.530 | 3349.72 |
| -18.290 | 3331.43 |
| -18.802 | 3312.63 |

| | | | | | | | | | |
|-----------|-------|-------|-------|--------|------|-------|--------|---------|---------|
| 19-JUL-76 | 0.018 | 1.555 | 1.160 | 19.736 | 4.55 | 0.752 | 25.038 | -23.483 | 2008.93 |
| 20-JUL-76 | 0.017 | 1.469 | 1.160 | 19.736 | 4.55 | 0.743 | 25.029 | -23.560 | 1985.37 |
| 21-JUL-76 | 0.014 | 1.210 | 1.152 | 19.593 | 4.55 | 0.734 | 24.877 | -23.668 | 1961.70 |
| 22-JUL-76 | 0.014 | 1.210 | 1.152 | 19.593 | 4.55 | 0.725 | 24.869 | -23.659 | 1938.04 |
| 23-JUL-76 | 0.013 | 1.123 | 1.152 | 19.593 | 4.55 | 0.717 | 24.860 | -23.737 | 1914.31 |
| 24-JUL-76 | 0.012 | 1.037 | 1.152 | 19.593 | 4.55 | 0.708 | 24.851 | -23.814 | 1890.49 |
| 25-JUL-76 | 0.012 | 1.037 | 1.152 | 19.593 | 4.55 | 0.699 | 24.842 | -23.805 | 1866.69 |
| 26-JUL-76 | 0.012 | 1.037 | 1.152 | 19.593 | 4.55 | 0.690 | 24.833 | -23.797 | 1842.89 |
| 27-JUL-76 | 0.011 | 0.950 | 1.152 | 19.593 | 4.55 | 0.681 | 24.825 | -23.874 | 1819.02 |
| 28-JUL-76 | 0.010 | 0.864 | 0.787 | 13.379 | 4.55 | 0.666 | 18.602 | -17.738 | 1801.28 |
| 29-JUL-76 | 0.009 | 0.778 | 0.787 | 13.379 | 4.55 | 0.659 | 18.595 | -17.817 | 1783.46 |
| 30-JUL-76 | 0.010 | 0.864 | 0.787 | 13.379 | 4.55 | 0.659 | 18.589 | -17.725 | 1765.74 |
| 31-JUL-76 | 0.010 | 0.864 | 0.787 | 13.379 | 4.55 | 0.653 | 18.582 | -17.718 | 1748.02 |
| 01-AUG-76 | 0.011 | 0.950 | 0.787 | 13.379 | 4.55 | 0.515 | 18.444 | -17.494 | 1730.52 |
| 02-AUG-76 | 0.011 | 0.950 | 0.787 | 13.379 | 4.55 | 0.510 | 18.434 | -17.489 | 1713.04 |
| 03-AUG-76 | 0.011 | 0.950 | 0.787 | 13.379 | 4.55 | 0.505 | 18.434 | -17.484 | 1695.55 |
| 04-AUG-76 | 0.011 | 0.950 | 0.763 | 12.972 | 4.55 | 0.499 | 18.021 | -17.071 | 1678.48 |
| 05-AUG-76 | 0.011 | 0.950 | 0.763 | 12.972 | 4.55 | 0.494 | 18.016 | -17.066 | 1661.42 |
| 06-AUG-76 | 0.010 | 0.864 | 0.763 | 12.972 | 4.55 | 0.489 | 18.011 | -17.147 | 1644.27 |
| 07-AUG-76 | 0.010 | 0.864 | 0.763 | 12.972 | 4.55 | 0.484 | 18.006 | -17.142 | 1627.13 |
| 08-AUG-76 | 0.010 | 0.864 | 0.763 | 12.972 | 4.55 | 0.479 | 18.001 | -17.137 | 1609.99 |
| 09-AUG-76 | 0.010 | 0.864 | 0.763 | 12.972 | 4.55 | 0.474 | 17.996 | -17.132 | 1592.86 |
| 10-AUG-76 | 0.009 | 0.778 | 0.763 | 12.972 | 4.55 | 0.469 | 17.991 | -17.213 | 1575.64 |
| 11-AUG-76 | 0.009 | 0.778 | 0.636 | 10.819 | 4.55 | 0.464 | 15.833 | -15.056 | 1560.59 |
| 12-AUG-76 | 0.009 | 0.778 | 0.636 | 10.819 | 4.55 | 0.460 | 15.829 | -15.051 | 1545.54 |
| 13-AUG-76 | 0.009 | 0.778 | 0.636 | 10.819 | 4.55 | 0.455 | 15.824 | -15.047 | 1530.49 |
| 14-AUG-76 | 0.007 | 0.605 | 0.636 | 10.819 | 4.55 | 0.451 | 15.820 | -15.215 | 1515.28 |
| 15-AUG-76 | 0.007 | 0.605 | 0.636 | 10.819 | 4.55 | 0.446 | 15.816 | -15.211 | 1500.06 |
| 16-AUG-76 | 0.007 | 0.605 | 0.636 | 10.819 | 4.55 | 0.442 | 15.811 | -15.206 | 1484.86 |
| 17-AUG-76 | 0.007 | 0.605 | 0.636 | 10.819 | 4.55 | 0.437 | 15.807 | -15.202 | 1469.66 |
| 18-AUG-76 | 0.007 | 0.605 | 0.571 | 9.718 | 4.55 | 0.433 | 14.701 | -14.096 | 1455.56 |
| 19-AUG-76 | 0.006 | 0.518 | 0.571 | 9.718 | 4.55 | 0.429 | 14.697 | -14.178 | 1441.38 |
| 20-AUG-76 | 0.007 | 0.605 | 0.571 | 9.718 | 4.55 | 0.425 | 14.693 | -14.088 | 1427.29 |
| 21-AUG-76 | 0.006 | 0.518 | 0.571 | 9.718 | 4.55 | 0.420 | 14.688 | -14.170 | 1413.12 |
| 22-AUG-76 | 0.006 | 0.518 | 0.571 | 9.718 | 4.55 | 0.416 | 14.684 | -14.166 | 1398.96 |
| 23-AUG-76 | 0.006 | 0.518 | 0.571 | 9.718 | 4.55 | 0.412 | 14.680 | -14.162 | 1384.80 |
| 24-AUG-76 | 0.006 | 0.518 | 0.571 | 9.718 | 4.55 | 0.408 | 14.676 | -14.158 | 1370.64 |
| 25-AUG-76 | 0.007 | 0.605 | 0.528 | 8.981 | 4.55 | 0.404 | 13.935 | -13.330 | 1357.31 |
| 26-AUG-76 | 0.007 | 0.605 | 0.528 | 8.981 | 4.55 | 0.400 | 13.931 | -13.327 | 1343.98 |
| 27-AUG-76 | 0.006 | 0.518 | 0.528 | 8.981 | 4.55 | 0.396 | 13.927 | -13.409 | 1330.57 |
| 28-AUG-76 | 0.007 | 0.605 | 0.528 | 8.981 | 4.55 | 0.392 | 13.923 | -13.319 | 1317.25 |
| 29-AUG-76 | 0.014 | 1.210 | 0.528 | 8.981 | 4.55 | 0.388 | 13.920 | -12.710 | 1304.54 |
| 30-AUG-76 | 0.075 | 6.480 | 0.528 | 8.981 | 4.55 | 0.384 | 13.916 | -7.436 | 1297.11 |
| 31-AUG-76 | 0.024 | 2.074 | 0.528 | 8.981 | 4.55 | 0.382 | 13.914 | -11.840 | 1285.27 |
| 01-SEP-76 | 0.017 | 1.469 | 0.563 | 9.582 | 4.55 | 0.246 | 14.378 | -12.909 | 1272.36 |
| 02-SEP-76 | 0.014 | 1.210 | 0.563 | 9.582 | 4.55 | 0.243 | 14.375 | -13.166 | 1259.19 |
| 03-SEP-76 | 0.013 | 1.123 | 0.563 | 9.582 | 4.55 | 0.241 | 14.373 | -13.250 | 1245.94 |
| 04-SEP-76 | 0.013 | 1.123 | 0.563 | 9.582 | 4.55 | 0.238 | 14.370 | -13.247 | 1232.70 |
| 05-SEP-76 | 0.012 | 1.037 | 0.563 | 9.582 | 4.55 | 0.236 | 14.368 | -13.331 | 1219.37 |
| 06-SEP-76 | 0.011 | 0.950 | 0.563 | 9.582 | 4.55 | 0.233 | 14.365 | -13.415 | 1205.95 |
| 07-SEP-76 | 0.011 | 0.950 | 0.563 | 9.582 | 4.55 | 0.230 | 14.363 | -13.412 | 1192.54 |
| 08-SEP-76 | 0.010 | 0.864 | 0.563 | 8.245 | 4.55 | 0.228 | 13.023 | -12.159 | 1180.38 |
| 09-SEP-76 | 0.012 | 1.037 | 0.485 | 8.245 | 4.55 | 0.225 | 13.020 | -11.984 | 1168.40 |
| 10-SEP-76 | 0.047 | 4.061 | 0.485 | 8.245 | 4.55 | 0.223 | 13.018 | -8.957 | 1159.44 |
| 11-SEP-76 | 0.033 | 2.851 | 0.485 | 8.245 | 4.55 | 0.221 | 13.016 | -10.165 | 1149.27 |
| 12-SEP-76 | 0.027 | 2.333 | 0.485 | 8.245 | 4.55 | 0.219 | 13.014 | -10.682 | 1138.59 |
| 13-SEP-76 | 0.023 | 1.987 | 0.485 | 8.245 | 4.55 | 0.217 | 13.012 | -11.025 | 1127.57 |

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|-----------|-------|---------|-------|--------|------|-------|--------|
| 10-NOV-76 | 0.668 | 57.715 | 1.210 | 20.587 | 4.55 | 0.221 | 25.358 |
| 11-NOV-76 | 0.577 | 49.853 | 1.210 | 20.587 | 4.55 | 0.221 | 25.358 |
| 12-NOV-76 | 0.508 | 43.891 | 1.210 | 20.587 | 4.55 | 0.221 | 25.358 |
| 13-NOV-76 | 0.453 | 39.139 | 1.210 | 20.587 | 4.55 | 0.221 | 25.358 |
| 14-NOV-76 | 0.416 | 35.942 | 1.210 | 20.587 | 4.55 | 0.221 | 25.358 |
| 15-NOV-76 | 0.401 | 34.646 | 1.210 | 20.587 | 4.55 | 0.221 | 25.358 |
| 16-NOV-76 | 0.389 | 33.610 | 1.210 | 20.587 | 4.55 | 0.221 | 25.358 |
| 17-NOV-76 | 0.380 | 32.832 | 1.383 | 23.519 | 4.55 | 0.221 | 28.290 |
| 18-NOV-76 | 0.388 | 33.523 | 1.383 | 23.519 | 4.55 | 0.221 | 28.290 |
| 19-NOV-76 | 0.339 | 29.290 | 1.383 | 23.519 | 4.55 | 0.221 | 28.290 |
| 20-NOV-76 | 0.317 | 27.389 | 1.383 | 23.519 | 4.55 | 0.221 | 28.290 |
| 21-NOV-76 | 0.302 | 26.093 | 1.383 | 23.519 | 4.55 | 0.221 | 28.290 |
| 22-NOV-76 | 0.283 | 24.451 | 1.383 | 23.519 | 4.55 | 0.221 | 28.290 |
| 23-NOV-76 | 0.273 | 23.587 | 1.383 | 23.519 | 4.55 | 0.221 | 28.290 |
| 24-NOV-76 | 0.267 | 23.069 | 1.373 | 23.355 | 4.55 | 0.220 | 28.125 |
| 25-NOV-76 | 0.261 | 22.550 | 1.373 | 23.355 | 4.55 | 0.220 | 28.125 |
| 26-NOV-76 | 0.256 | 22.118 | 1.373 | 23.355 | 4.55 | 0.220 | 28.125 |
| 27-NOV-76 | 0.251 | 21.686 | 1.373 | 23.355 | 4.55 | 0.220 | 28.124 |
| 28-NOV-76 | 0.463 | 40.003 | 1.373 | 23.355 | 4.55 | 0.219 | 28.124 |
| 29-NOV-76 | 0.491 | 42.422 | 1.373 | 23.355 | 4.55 | 0.220 | 28.124 |
| 30-NOV-76 | 1.640 | 141.696 | 1.373 | 23.355 | 4.55 | 0.220 | 28.125 |
| 01-DEC-76 | 2.234 | 193.018 | 1.376 | 23.405 | 4.55 | 0.100 | 28.055 |
| 02-DEC-76 | 2.146 | 185.414 | 1.376 | 23.405 | 4.55 | 0.100 | 28.055 |
| 03-DEC-76 | 1.684 | 145.498 | 1.376 | 23.405 | 4.55 | 0.100 | 28.055 |
| 04-DEC-76 | 1.254 | 108.346 | 1.376 | 23.405 | 4.55 | 0.100 | 28.055 |
| 05-DEC-76 | 1.126 | 97.286 | 1.376 | 23.405 | 4.55 | 0.100 | 28.055 |
| 06-DEC-76 | 0.990 | 85.536 | 1.376 | 23.405 | 4.55 | 0.100 | 28.055 |
| 07-DEC-76 | 1.064 | 91.930 | 1.376 | 23.405 | 4.55 | 0.100 | 28.055 |
| 08-DEC-76 | 1.138 | 98.323 | 1.413 | 24.027 | 4.55 | 0.100 | 28.677 |
| 09-DEC-76 | 1.144 | 98.842 | 1.413 | 24.027 | 4.55 | 0.100 | 28.677 |
| 10-DEC-76 | 1.049 | 90.634 | 1.413 | 24.027 | 4.55 | 0.100 | 28.677 |
| 11-DEC-76 | 0.912 | 78.797 | 1.413 | 24.027 | 4.55 | 0.100 | 28.677 |
| 12-DEC-76 | 0.771 | 66.614 | 1.413 | 24.027 | 4.55 | 0.100 | 28.677 |
| 13-DEC-76 | 0.662 | 57.197 | 1.413 | 24.027 | 4.55 | 0.100 | 28.677 |
| 14-DEC-76 | 0.568 | 49.075 | 1.413 | 24.027 | 4.55 | 0.100 | 28.677 |
| 15-DEC-76 | 0.502 | 43.373 | 1.353 | 23.019 | 4.55 | 0.100 | 27.669 |
| 16-DEC-76 | 0.476 | 41.126 | 1.353 | 23.019 | 4.55 | 0.100 | 27.669 |
| 17-DEC-76 | 0.648 | 55.987 | 1.353 | 23.019 | 4.55 | 0.100 | 27.669 |
| 18-DEC-76 | 0.595 | 51.408 | 1.353 | 23.019 | 4.55 | 0.100 | 27.669 |
| 19-DEC-76 | 0.665 | 57.456 | 1.353 | 23.019 | 4.55 | 0.100 | 27.669 |
| 20-DEC-76 | 0.755 | 65.232 | 1.353 | 23.019 | 4.55 | 0.100 | 27.669 |
| 21-DEC-76 | 0.766 | 66.182 | 1.353 | 23.019 | 4.55 | 0.100 | 27.669 |
| 22-DEC-76 | 0.724 | 62.554 | 1.341 | 22.818 | 4.55 | 0.100 | 27.468 |
| 23-DEC-76 | 0.650 | 56.160 | 1.341 | 22.818 | 4.55 | 0.100 | 27.468 |
| 24-DEC-76 | 0.582 | 50.285 | 1.341 | 22.818 | 4.55 | 0.100 | 27.468 |
| 25-DEC-76 | 0.537 | 46.397 | 1.341 | 22.818 | 4.55 | 0.100 | 27.468 |
| 26-DEC-76 | 0.500 | 43.200 | 1.341 | 22.818 | 4.55 | 0.100 | 27.468 |
| 27-DEC-76 | 0.477 | 41.213 | 1.341 | 22.818 | 4.55 | 0.100 | 27.468 |
| 28-DEC-76 | 0.438 | 37.843 | 1.341 | 22.818 | 4.55 | 0.100 | 27.468 |
| 29-DEC-76 | 0.414 | 35.770 | 1.283 | 21.824 | 4.55 | 0.100 | 26.474 |
| 30-DEC-76 | 0.533 | 46.051 | 1.283 | 21.824 | 4.55 | 0.100 | 26.474 |
| 31-DEC-76 | 0.533 | 46.051 | 1.283 | 21.824 | 4.55 | 0.100 | 26.474 |

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|---------|---------|
| 32.357 | 5404.00 |
| 24.495 | 5404.00 |
| 18.533 | 5404.00 |
| 13.781 | 5404.00 |
| 10.584 | 5404.00 |
| 9.288 | 5404.00 |
| 8.251 | 5404.00 |
| 4.542 | 5404.00 |
| 5.233 | 5404.00 |
| 0.999 | 5404.00 |
| -0.901 | 5403.10 |
| -2.197 | 5400.90 |
| -3.839 | 5397.06 |
| -4.703 | 5392.36 |
| -5.056 | 5387.30 |
| -5.574 | 5381.73 |
| -6.006 | 5375.72 |
| -6.438 | 5369.29 |
| 11.879 | 5381.16 |
| 14.298 | 5395.46 |
| 113.571 | 5404.00 |
| 164.963 | 5404.00 |
| 157.360 | 5404.00 |
| 117.443 | 5404.00 |
| 80.291 | 5404.00 |
| 69.232 | 5404.00 |
| 57.481 | 5404.00 |
| 63.875 | 5404.00 |
| 69.646 | 5404.00 |
| 70.165 | 5404.00 |
| 61.957 | 5404.00 |
| 50.120 | 5404.00 |
| 37.938 | 5404.00 |
| 28.520 | 5404.00 |
| 20.398 | 5404.00 |
| 15.704 | 5404.00 |
| 13.458 | 5404.00 |
| 28.319 | 5404.00 |
| 23.739 | 5404.00 |
| 29.787 | 5404.00 |
| 37.563 | 5404.00 |
| 38.514 | 5404.00 |
| 35.085 | 5404.00 |
| 28.692 | 5404.00 |
| 22.816 | 5404.00 |
| 18.928 | 5404.00 |
| 15.732 | 5404.00 |
| 13.744 | 5404.00 |
| 10.375 | 5404.00 |
| 9.296 | 5404.00 |
| 19.577 | 5404.00 |
| 19.577 | 5404.00 |

APPENDIX 6

CASE 4: Clatworthy Reservoir
1991

| Date | WW Inflow (ML/d) | Ratio to Average | Reduced Abstraction 16.2 ML/d | C.R (ML/d) | Outflow (ML/d) | Storage change |
|-----------|------------------------|---------------------|-------------------------------------|---------------|-------------------|-------------------|
| 01-JAN-75 | 78.40 | 1.283 | 20.778 | 4.55 | 25.328 | 53.072 |
| 02-JAN-75 | 78.40 | 1.283 | 20.778 | 4.55 | 25.328 | 53.072 |
| 03-JAN-75 | 78.40 | 1.283 | 20.778 | 4.55 | 25.328 | 53.072 |
| 04-JAN-75 | 78.40 | 1.283 | 20.778 | 4.55 | 25.328 | 53.072 |
| 05-JAN-75 | 78.40 | 1.283 | 20.778 | 4.55 | 25.328 | 53.072 |
| 06-JAN-75 | 78.40 | 1.283 | 20.778 | 4.55 | 25.328 | 53.072 |
| 07-JAN-75 | 40.59 | 1.283 | 20.778 | 4.55 | 25.328 | 15.262 |
| 08-JAN-75 | 40.59 | 1.250 | 20.247 | 4.55 | 24.797 | 15.793 |
| 09-JAN-75 | 40.59 | 1.250 | 20.247 | 4.55 | 24.797 | 15.793 |
| 10-JAN-75 | 40.59 | 1.250 | 20.247 | 4.55 | 24.797 | 15.793 |
| 11-JAN-75 | 40.59 | 1.250 | 20.247 | 4.55 | 24.797 | 15.793 |
| 12-JAN-75 | 40.59 | 1.250 | 20.247 | 4.55 | 24.797 | 15.793 |
| 13-JAN-75 | 40.59 | 1.250 | 20.247 | 4.55 | 24.797 | 15.793 |
| 14-JAN-75 | 53.41 | 1.250 | 20.247 | 4.55 | 24.797 | 28.613 |
| 15-JAN-75 | 53.41 | 1.228 | 19.893 | 4.55 | 24.443 | 28.967 |
| 16-JAN-75 | 53.41 | 1.228 | 19.893 | 4.55 | 24.443 | 28.967 |
| 17-JAN-75 | 53.41 | 1.228 | 19.893 | 4.55 | 24.443 | 28.967 |
| 18-JAN-75 | 53.41 | 1.228 | 19.893 | 4.55 | 24.443 | 28.967 |
| 19-JAN-75 | 53.41 | 1.228 | 19.893 | 4.55 | 24.443 | 28.967 |
| 20-JAN-75 | 53.41 | 1.228 | 19.893 | 4.55 | 24.443 | 28.967 |
| 21-JAN-75 | 161.03 | 1.228 | 19.893 | 4.55 | 24.443 | 136.587 |
| 22-JAN-75 | 161.03 | 1.303 | 21.112 | 4.55 | 25.662 | 135.368 |
| 23-JAN-75 | 161.03 | 1.303 | 21.112 | 4.55 | 25.662 | 135.368 |
| 24-JAN-75 | 161.03 | 1.303 | 21.112 | 4.55 | 25.662 | 135.368 |
| 25-JAN-75 | 161.03 | 1.303 | 21.112 | 4.55 | 25.662 | 135.368 |
| 26-JAN-75 | 161.03 | 1.303 | 21.112 | 4.55 | 25.662 | 135.368 |
| 27-JAN-75 | 161.03 | 1.303 | 21.112 | 4.55 | 25.662 | 135.368 |
| 28-JAN-75 | 133.49 | 1.303 | 21.112 | 4.55 | 25.662 | 107.828 |
| 29-JAN-75 | 133.49 | 1.320 | 21.378 | 4.55 | 25.928 | 107.562 |
| 30-JAN-75 | 133.49 | 1.320 | 21.378 | 4.55 | 25.928 | 107.562 |
| 31-JAN-75 | 133.49 | 1.320 | 21.378 | 4.55 | 25.928 | 107.562 |
| 01-FEB-75 | 133.49 | 1.320 | 21.378 | 4.55 | 25.928 | 107.562 |
| 02-FEB-75 | 133.49 | 1.320 | 21.378 | 4.55 | 25.928 | 107.562 |
| 03-FEB-75 | 133.49 | 1.320 | 21.378 | 4.55 | 25.928 | 107.562 |
| 04-FEB-75 | 62.27 | 1.320 | 21.378 | 4.55 | 25.928 | 36.342 |
| 05-FEB-75 | 62.27 | 1.328 | 21.521 | 4.55 | 26.071 | 36.199 |
| 06-FEB-75 | 62.27 | 1.328 | 21.521 | 4.55 | 26.071 | 36.199 |
| 07-FEB-75 | 62.27 | 1.328 | 21.521 | 4.55 | 26.071 | 36.199 |
| 08-FEB-75 | 62.27 | 1.328 | 21.521 | 4.55 | 26.071 | 36.199 |
| 09-FEB-75 | 62.27 | 1.328 | 21.521 | 4.55 | 26.071 | 36.199 |
| 10-FEB-75 | 62.27 | 1.328 | 21.521 | 4.55 | 26.071 | 36.199 |
| 11-FEB-75 | 39.77 | 1.328 | 21.521 | 4.55 | 26.071 | 13.699 |
| 12-FEB-75 | 39.77 | 1.325 | 21.459 | 4.55 | 26.009 | 13.761 |
| 13-FEB-75 | 39.77 | 1.325 | 21.459 | 4.55 | 26.009 | 13.761 |
| 14-FEB-75 | 39.77 | 1.325 | 21.459 | 4.55 | 26.009 | 13.761 |
| 15-FEB-75 | 39.77 | 1.325 | 21.459 | 4.55 | 26.009 | 13.761 |
| 16-FEB-75 | 39.77 | 1.325 | 21.459 | 4.55 | 26.009 | 13.761 |
| 17-FEB-75 | 39.77 | 1.325 | 21.459 | 4.55 | 26.009 | 13.761 |
| 18-FEB-75 | 37.73 | 1.325 | 21.459 | 4.55 | 26.009 | 11.721 |
| 19-FEB-75 | 37.73 | 1.282 | 20.765 | 4.55 | 25.315 | 12.415 |
| 20-FEB-75 | 37.73 | 1.282 | 20.765 | 4.55 | 25.315 | 12.415 |
| 21-FEB-75 | 37.73 | 1.282 | 20.765 | 4.55 | 25.315 | 12.415 |

| | | | | | | | |
|-----------|-------|-------|--------|------|--------|---------|---------|
| 20-APR-75 | 29.56 | 1.061 | 17.189 | 4.55 | 21.739 | 7.821 | 5404.00 |
| 21-APR-75 | 29.56 | 1.061 | 17.189 | 4.55 | 21.739 | 7.821 | 5404.00 |
| 22-APR-75 | 37.36 | 1.061 | 17.189 | 4.55 | 21.739 | 15.621 | 5404.00 |
| 23-APR-75 | 37.36 | 1.068 | 17.298 | 4.55 | 21.848 | 15.512 | 5404.00 |
| 24-APR-75 | 37.36 | 1.068 | 17.298 | 4.55 | 21.848 | 15.512 | 5404.00 |
| 25-APR-75 | 37.36 | 1.068 | 17.298 | 4.55 | 21.848 | 15.512 | 5404.00 |
| 26-APR-75 | 37.36 | 1.068 | 17.298 | 4.55 | 21.848 | 15.512 | 5404.00 |
| 27-APR-75 | 37.36 | 1.068 | 17.298 | 4.55 | 21.848 | 15.512 | 5404.00 |
| 28-APR-75 | 37.36 | 1.068 | 17.298 | 4.55 | 21.848 | 15.512 | 5404.00 |
| 29-APR-75 | 1.36 | 1.068 | 17.298 | 4.55 | 21.848 | -20.488 | 5383.51 |
| 30-APR-75 | 1.36 | 1.028 | 16.658 | 4.55 | 21.208 | -19.848 | 5363.66 |
| 01-MAY-75 | 1.36 | 1.028 | 16.658 | 4.55 | 21.208 | -19.848 | 5343.82 |
| 02-MAY-75 | 1.36 | 1.028 | 16.658 | 4.55 | 21.208 | -19.848 | 5323.97 |
| 03-MAY-75 | 1.36 | 1.028 | 16.658 | 4.55 | 21.208 | -19.848 | 5304.12 |
| 04-MAY-75 | 1.36 | 1.028 | 16.658 | 4.55 | 21.208 | -19.848 | 5284.27 |
| 05-MAY-75 | 1.36 | 1.028 | 16.658 | 4.55 | 21.208 | -19.848 | 5264.42 |
| 06-MAY-75 | 1.36 | 1.028 | 16.658 | 4.55 | 21.208 | -19.848 | 5244.57 |
| 07-MAY-75 | 1.36 | 1.088 | 17.632 | 4.55 | 22.182 | -20.822 | 5223.75 |
| 08-MAY-75 | 1.36 | 1.088 | 17.632 | 4.55 | 22.182 | -20.822 | 5202.93 |
| 09-MAY-75 | 1.36 | 1.088 | 17.632 | 4.55 | 22.182 | -20.822 | 5182.11 |
| 10-MAY-75 | 1.36 | 1.088 | 17.632 | 4.55 | 22.182 | -20.822 | 5161.29 |
| 11-MAY-75 | 1.36 | 1.088 | 17.632 | 4.55 | 22.182 | -20.822 | 5140.46 |
| 12-MAY-75 | 1.36 | 1.088 | 17.632 | 4.55 | 22.182 | -20.822 | 5119.64 |
| 13-MAY-75 | 1.36 | 1.088 | 17.632 | 4.55 | 22.182 | -20.822 | 5098.82 |
| 14-MAY-75 | 1.36 | 1.184 | 19.185 | 4.55 | 23.735 | -22.375 | 5076.45 |
| 15-MAY-75 | 1.36 | 1.184 | 19.185 | 4.55 | 23.735 | -22.375 | 5054.07 |
| 16-MAY-75 | 1.36 | 1.184 | 19.185 | 4.55 | 23.735 | -22.375 | 5031.70 |
| 17-MAY-75 | 1.36 | 1.184 | 19.185 | 4.55 | 23.735 | -22.375 | 5009.32 |
| 18-MAY-75 | 1.36 | 1.184 | 19.185 | 4.55 | 23.735 | -22.375 | 4986.95 |
| 19-MAY-75 | 1.36 | 1.184 | 19.185 | 4.55 | 23.735 | -22.375 | 4964.57 |
| 20-MAY-75 | 1.36 | 1.184 | 19.185 | 4.55 | 23.735 | -22.375 | 4942.20 |
| 21-MAY-75 | 1.36 | 1.178 | 19.089 | 4.55 | 23.639 | -22.279 | 4919.92 |
| 22-MAY-75 | 1.36 | 1.178 | 19.089 | 4.55 | 23.639 | -22.279 | 4897.64 |
| 23-MAY-75 | 1.36 | 1.178 | 19.089 | 4.55 | 23.639 | -22.279 | 4875.36 |
| 24-MAY-75 | 1.36 | 1.178 | 19.089 | 4.55 | 23.639 | -22.279 | 4853.08 |
| 25-MAY-75 | 1.36 | 1.178 | 19.089 | 4.55 | 23.639 | -22.279 | 4830.80 |
| 26-MAY-75 | 1.36 | 1.178 | 19.089 | 4.55 | 23.639 | -22.279 | 4808.52 |
| 27-MAY-75 | 1.36 | 1.178 | 19.089 | 4.55 | 23.639 | -22.279 | 4786.24 |
| 28-MAY-75 | 1.36 | 1.253 | 20.302 | 4.55 | 24.852 | -23.492 | 4762.75 |
| 29-MAY-75 | 1.36 | 1.253 | 20.302 | 4.55 | 24.852 | -23.492 | 4739.26 |
| 30-MAY-75 | 1.36 | 1.253 | 20.302 | 4.55 | 24.852 | -23.492 | 4715.77 |
| 31-MAY-75 | 1.36 | 1.253 | 20.302 | 4.55 | 24.852 | -23.492 | 4692.28 |
| 01-JUN-75 | 1.36 | 1.253 | 20.302 | 4.55 | 24.852 | -23.492 | 4668.78 |
| 02-JUN-75 | 1.36 | 1.253 | 20.302 | 4.55 | 24.852 | -23.492 | 4645.29 |
| 03-JUN-75 | 1.36 | 1.253 | 20.302 | 4.55 | 24.852 | -23.492 | 4621.80 |
| 04-JUN-75 | 1.36 | 1.202 | 19.478 | 4.55 | 24.028 | -22.668 | 4599.13 |
| 05-JUN-75 | 1.36 | 1.202 | 19.478 | 4.55 | 24.028 | -22.668 | 4576.46 |
| 06-JUN-75 | 1.36 | 1.202 | 19.478 | 4.55 | 24.028 | -22.668 | 4553.80 |
| 07-JUN-75 | 1.36 | 1.202 | 19.478 | 4.55 | 24.028 | -22.668 | 4531.13 |
| 08-JUN-75 | 1.36 | 1.202 | 19.478 | 4.55 | 24.028 | -22.668 | 4508.46 |
| 09-JUN-75 | 1.36 | 1.202 | 19.478 | 4.55 | 24.028 | -22.668 | 4485.79 |
| 10-JUN-75 | 1.36 | 1.202 | 19.478 | 4.55 | 24.028 | -22.668 | 4463.13 |
| 11-JUN-75 | 1.36 | 1.247 | 20.206 | 4.55 | 24.756 | -23.396 | 4439.73 |
| 12-JUN-75 | 1.36 | 1.247 | 20.206 | 4.55 | 24.756 | -23.396 | 4416.33 |
| 13-JUN-75 | 1.36 | 1.247 | 20.206 | 4.55 | 24.756 | -23.396 | 4392.94 |
| 14-JUN-75 | 1.36 | 1.247 | 20.206 | 4.55 | 24.756 | -23.396 | 4369.54 |
| 15-JUN-75 | 1.36 | 1.247 | 20.206 | 4.55 | 24.756 | -23.396 | 4346.15 |



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|-----------|-------|-------|--------|------|--------|---------|
| 12-AUG-75 | 7.54 | 0.763 | 12.354 | 4.55 | 16.904 | -9.364 |
| 13-AUG-75 | 7.54 | 0.636 | 10.304 | 4.55 | 14.854 | -7.314 |
| 14-AUG-75 | 7.54 | 0.636 | 10.304 | 4.55 | 14.854 | -7.314 |
| 15-AUG-75 | 7.54 | 0.636 | 10.304 | 4.55 | 14.854 | -7.314 |
| 16-AUG-75 | 7.54 | 0.636 | 10.304 | 4.55 | 14.854 | -7.314 |
| 17-AUG-75 | 7.54 | 0.636 | 10.304 | 4.55 | 14.854 | -7.314 |
| 18-AUG-75 | 7.54 | 0.636 | 10.304 | 4.55 | 14.854 | -7.314 |
| 19-AUG-75 | 0.21 | 0.636 | 10.304 | 4.55 | 14.854 | -14.644 |
| 20-AUG-75 | 0.21 | 0.571 | 9.255 | 4.55 | 13.805 | -13.595 |
| 21-AUG-75 | 0.21 | 0.571 | 9.255 | 4.55 | 13.805 | -13.595 |
| 22-AUG-75 | 0.21 | 0.571 | 9.255 | 4.55 | 13.805 | -13.595 |
| 23-AUG-75 | 0.21 | 0.571 | 9.255 | 4.55 | 13.805 | -13.595 |
| 24-AUG-75 | 0.21 | 0.571 | 9.255 | 4.55 | 13.805 | -13.595 |
| 25-AUG-75 | 0.21 | 0.571 | 9.255 | 4.55 | 13.805 | -13.595 |
| 26-AUG-75 | 0.21 | 0.571 | 9.255 | 4.55 | 13.805 | -13.595 |
| 27-AUG-75 | 0.21 | 0.528 | 8.554 | 4.55 | 13.104 | -12.894 |
| 28-AUG-75 | 0.21 | 0.528 | 8.554 | 4.55 | 13.104 | -12.894 |
| 29-AUG-75 | 0.21 | 0.528 | 8.554 | 4.55 | 13.104 | -12.894 |
| 30-AUG-75 | 0.21 | 0.528 | 8.554 | 4.55 | 13.104 | -12.894 |
| 31-AUG-75 | 0.21 | 0.528 | 8.554 | 4.55 | 13.104 | -12.894 |
| 01-SEP-75 | 0.21 | 0.528 | 8.554 | 4.55 | 13.104 | -12.894 |
| 02-SEP-75 | 0.86 | 0.528 | 8.554 | 4.55 | 13.104 | -12.244 |
| 03-SEP-75 | 0.86 | 0.563 | 9.126 | 4.55 | 13.676 | -12.816 |
| 04-SEP-75 | 0.86 | 0.563 | 9.126 | 4.55 | 13.676 | -12.816 |
| 05-SEP-75 | 0.86 | 0.563 | 9.126 | 4.55 | 13.676 | -12.816 |
| 06-SEP-75 | 0.86 | 0.563 | 9.126 | 4.55 | 13.676 | -12.816 |
| 07-SEP-75 | 0.86 | 0.563 | 9.126 | 4.55 | 13.676 | -12.816 |
| 08-SEP-75 | 0.86 | 0.563 | 9.126 | 4.55 | 13.676 | -12.816 |
| 09-SEP-75 | 11.89 | 0.563 | 9.126 | 4.55 | 13.676 | -1.786 |
| 10-SEP-75 | 11.89 | 0.485 | 7.852 | 4.55 | 12.402 | -0.512 |
| 11-SEP-75 | 11.89 | 0.485 | 7.852 | 4.55 | 12.402 | -0.512 |
| 12-SEP-75 | 11.89 | 0.485 | 7.852 | 4.55 | 12.402 | -0.512 |
| 13-SEP-75 | 11.89 | 0.485 | 7.852 | 4.55 | 12.402 | -0.512 |
| 14-SEP-75 | 11.89 | 0.485 | 7.852 | 4.55 | 12.402 | -0.512 |
| 15-SEP-75 | 11.89 | 0.485 | 7.852 | 4.55 | 12.402 | -0.512 |
| 16-SEP-75 | 1.00 | 0.485 | 7.852 | 4.55 | 12.402 | -11.402 |
| 17-SEP-75 | 1.00 | 0.343 | 5.557 | 4.55 | 10.107 | -9.107 |
| 18-SEP-75 | 1.00 | 0.343 | 5.557 | 4.55 | 10.107 | -9.107 |
| 19-SEP-75 | 1.00 | 0.343 | 5.557 | 4.55 | 10.107 | -9.107 |
| 20-SEP-75 | 1.00 | 0.343 | 5.557 | 4.55 | 10.107 | -9.107 |
| 21-SEP-75 | 1.00 | 0.343 | 5.557 | 4.55 | 10.107 | -9.107 |
| 22-SEP-75 | 1.00 | 0.343 | 5.557 | 4.55 | 10.107 | -9.107 |
| 23-SEP-75 | 5.04 | 0.343 | 5.557 | 4.55 | 10.107 | -5.067 |
| 24-SEP-75 | 5.04 | 0.249 | 4.039 | 4.55 | 8.589 | -3.549 |
| 25-SEP-75 | 5.04 | 0.249 | 4.039 | 4.55 | 8.589 | -3.549 |
| 26-SEP-75 | 5.04 | 0.249 | 4.039 | 4.55 | 8.589 | -3.549 |
| 27-SEP-75 | 5.04 | 0.249 | 4.039 | 4.55 | 8.589 | -3.549 |
| 28-SEP-75 | 5.04 | 0.249 | 4.039 | 4.55 | 8.589 | -3.549 |
| 29-SEP-75 | 5.04 | 0.249 | 4.039 | 4.55 | 8.589 | -3.549 |
| 30-SEP-75 | 5.04 | 0.249 | 4.039 | 4.55 | 8.589 | -3.549 |
| 01-OCT-75 | 5.04 | 0.223 | 3.609 | 4.55 | 8.159 | -3.119 |
| 02-OCT-75 | 5.04 | 0.223 | 3.609 | 4.55 | 8.159 | -3.119 |
| 03-OCT-75 | 5.04 | 0.223 | 3.609 | 4.55 | 8.159 | -3.119 |
| 04-OCT-75 | 5.04 | 0.223 | 3.609 | 4.55 | 8.159 | -3.119 |
| 05-OCT-75 | 5.04 | 0.223 | 3.609 | 4.55 | 8.159 | -3.119 |
| 06-OCT-75 | 5.04 | 0.223 | 3.609 | 4.55 | 8.159 | -3.119 |
| 07-OCT-75 | 9.06 | 0.223 | 3.609 | 4.55 | 8.159 | 0.901 |

3196.96
3189.65
3182.33
3175.02
3167.71
3160.39
3153.08
3138.43
3124.84
3111.24
3097.65
3084.05
3070.46
3056.86
3043.27
3030.37
3017.48
3004.59
2991.69
2978.80
2965.90
2953.66
2940.85
2928.03
2915.21
2902.40
2889.58
2876.77
2874.98
2874.47
2873.96
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2872.93
2872.42
2871.91
2860.50
2851.40
2842.29
2833.18
2824.07
2814.97
2805.86
2800.79
2797.24
2793.70
2790.15
2786.60
2783.05
2779.50
2775.95
2772.83
2769.71
2766.59
2763.48
2760.36
2757.24
2758.14

| | | | | | | |
|-----------|-------|-------|--------|------|--------|--------|
| 04-DEC-75 | 91.64 | 1.376 | 22.290 | 4.55 | 26.840 | 64.800 |
| 05-DEC-75 | 91.64 | 1.376 | 22.290 | 4.55 | 26.840 | 64.800 |
| 06-DEC-75 | 91.64 | 1.376 | 22.290 | 4.55 | 26.840 | 64.800 |
| 07-DEC-75 | 91.64 | 1.376 | 22.290 | 4.55 | 26.840 | 64.800 |
| 08-DEC-75 | 91.64 | 1.376 | 22.290 | 4.55 | 26.840 | 64.800 |
| 09-DEC-75 | 40.19 | 1.376 | 22.290 | 4.55 | 26.840 | 13.350 |
| 10-DEC-75 | 40.19 | 1.413 | 22.883 | 4.55 | 27.433 | 12.757 |
| 11-DEC-75 | 40.19 | 1.413 | 22.883 | 4.55 | 27.433 | 12.757 |
| 12-DEC-75 | 40.19 | 1.413 | 22.883 | 4.55 | 27.433 | 12.757 |
| 13-DEC-75 | 40.19 | 1.413 | 22.883 | 4.55 | 27.433 | 12.757 |
| 14-DEC-75 | 40.19 | 1.413 | 22.883 | 4.55 | 27.433 | 12.757 |
| 15-DEC-75 | 40.19 | 1.413 | 22.883 | 4.55 | 27.433 | 12.757 |
| 16-DEC-75 | 23.01 | 1.413 | 22.883 | 4.55 | 27.433 | -4.423 |
| 17-DEC-75 | 23.01 | 1.353 | 21.923 | 4.55 | 26.473 | -3.463 |
| 18-DEC-75 | 23.01 | 1.353 | 21.923 | 4.55 | 26.473 | -3.463 |
| 19-DEC-75 | 23.01 | 1.353 | 21.923 | 4.55 | 26.473 | -3.463 |
| 20-DEC-75 | 23.01 | 1.353 | 21.923 | 4.55 | 26.473 | -3.463 |
| 21-DEC-75 | 23.01 | 1.353 | 21.923 | 4.55 | 26.473 | -3.463 |
| 22-DEC-75 | 23.01 | 1.353 | 21.923 | 4.55 | 26.473 | -3.463 |
| 23-DEC-75 | 16.86 | 1.353 | 21.923 | 4.55 | 26.473 | -9.613 |
| 24-DEC-75 | 16.86 | 1.341 | 21.732 | 4.55 | 26.282 | -9.422 |
| 25-DEC-75 | 16.86 | 1.341 | 21.732 | 4.55 | 26.282 | -9.422 |
| 26-DEC-75 | 16.86 | 1.341 | 21.732 | 4.55 | 26.282 | -9.422 |
| 27-DEC-75 | 16.86 | 1.341 | 21.732 | 4.55 | 26.282 | -9.422 |
| 28-DEC-75 | 16.86 | 1.341 | 21.732 | 4.55 | 26.282 | -9.422 |
| 29-DEC-75 | 16.86 | 1.341 | 21.732 | 4.55 | 26.282 | -9.422 |
| 30-DEC-75 | 20.76 | 1.341 | 21.732 | 4.55 | 26.282 | -5.522 |
| 31-DEC-75 | 20.76 | 1.283 | 20.778 | 4.55 | 25.328 | -4.568 |
| 01-JAN-76 | 20.76 | 1.283 | 20.778 | 4.55 | 25.328 | -4.568 |
| 02-JAN-76 | 20.76 | 1.283 | 20.778 | 4.55 | 25.328 | -4.568 |
| 03-JAN-76 | 20.76 | 1.283 | 20.778 | 4.55 | 25.328 | -4.568 |
| 04-JAN-76 | 20.76 | 1.283 | 20.778 | 4.55 | 25.328 | -4.568 |
| 05-JAN-76 | 20.76 | 1.283 | 20.778 | 4.55 | 25.328 | -4.568 |
| 06-JAN-76 | 24.76 | 1.283 | 20.778 | 4.55 | 25.328 | -0.568 |
| 07-JAN-76 | 24.76 | 1.250 | 20.247 | 4.55 | 24.797 | -0.037 |
| 08-JAN-76 | 24.76 | 1.250 | 20.247 | 4.55 | 24.797 | -0.037 |
| 09-JAN-76 | 24.76 | 1.250 | 20.247 | 4.55 | 24.797 | -0.037 |
| 10-JAN-76 | 24.76 | 1.250 | 20.247 | 4.55 | 24.797 | -0.037 |
| 11-JAN-76 | 24.76 | 1.250 | 20.247 | 4.55 | 24.797 | -0.037 |
| 12-JAN-76 | 24.76 | 1.250 | 20.247 | 4.55 | 24.797 | -0.037 |
| 13-JAN-76 | 19.20 | 1.250 | 20.247 | 4.55 | 24.797 | -5.597 |
| 14-JAN-76 | 19.20 | 1.228 | 19.893 | 4.55 | 24.443 | -5.243 |
| 15-JAN-76 | 19.20 | 1.228 | 19.893 | 4.55 | 24.443 | -5.243 |
| 16-JAN-76 | 19.20 | 1.228 | 19.893 | 4.55 | 24.443 | -5.243 |
| 17-JAN-76 | 19.20 | 1.228 | 19.893 | 4.55 | 24.443 | -5.243 |
| 18-JAN-76 | 19.20 | 1.228 | 19.893 | 4.55 | 24.443 | -5.243 |
| 19-JAN-76 | 19.20 | 1.228 | 19.893 | 4.55 | 24.443 | -5.243 |
| 20-JAN-76 | 20.33 | 1.228 | 19.893 | 4.55 | 24.443 | -4.113 |
| 21-JAN-76 | 20.33 | 1.303 | 21.112 | 4.55 | 25.662 | -5.332 |
| 22-JAN-76 | 20.33 | 1.303 | 21.112 | 4.55 | 25.662 | -5.332 |
| 23-JAN-76 | 20.33 | 1.303 | 21.112 | 4.55 | 25.662 | -5.332 |
| 24-JAN-76 | 20.33 | 1.303 | 21.112 | 4.55 | 25.662 | -5.332 |
| 25-JAN-76 | 20.33 | 1.303 | 21.112 | 4.55 | 25.662 | -5.332 |
| 26-JAN-76 | 20.33 | 1.303 | 21.112 | 4.55 | 25.662 | -5.332 |
| 27-JAN-76 | 17.17 | 1.303 | 21.112 | 4.55 | 25.662 | -8.492 |
| 28-JAN-76 | 17.17 | 1.320 | 21.378 | 4.55 | 25.928 | -8.758 |
| 29-JAN-76 | 17.17 | 1.320 | 21.378 | 4.55 | 25.928 | -8.758 |

2880.75
2945.55
3010.35
3075.15
3139.95
3153.30
3166.06
3178.82
3191.57
3204.33
3217.09
3229.85
3225.42
3221.96
3218.50
3215.04
3211.57
3208.11
3204.65
3195.03
3185.61
3176.19
3166.77
3157.35
3147.93
3138.50
3132.98
3128.41
3123.85
3119.28
3114.71
3110.14
3105.57
3105.00
3104.97
3104.93
3104.89
3104.85
3104.82
3104.78
3099.18
3093.94
3088.70
3083.45
3078.21
3072.97
3067.73
3063.61
3058.28
3052.95
3047.62
3042.28
3036.95
3031.62
3023.13
3014.37
3005.61

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|-----------|-------|-------|--------|------|--------|---------|
| 27-MAR-76 | 51.64 | 1.313 | 21.276 | 4.55 | 25.826 | 25.814 |
| 28-MAR-76 | 51.64 | 1.313 | 21.276 | 4.55 | 25.826 | 25.814 |
| 29-MAR-76 | 51.64 | 1.313 | 21.276 | 4.55 | 25.826 | 25.814 |
| 30-MAR-76 | 31.60 | 1.313 | 21.276 | 4.55 | 25.826 | 5.774 |
| 31-MAR-76 | 31.60 | 1.287 | 20.846 | 4.55 | 25.396 | 6.204 |
| 01-APR-76 | 31.60 | 1.287 | 20.846 | 4.55 | 25.396 | 6.204 |
| 02-APR-76 | 31.60 | 1.287 | 20.846 | 4.55 | 25.396 | 6.204 |
| 03-APR-76 | 31.60 | 1.287 | 20.846 | 4.55 | 25.396 | 6.204 |
| 04-APR-76 | 31.60 | 1.287 | 20.846 | 4.55 | 25.396 | 6.204 |
| 05-APR-76 | 31.60 | 1.287 | 20.846 | 4.55 | 25.396 | 6.204 |
| 06-APR-76 | 17.13 | 1.287 | 20.846 | 4.55 | 25.396 | -8.266 |
| 07-APR-76 | 17.13 | 1.176 | 19.049 | 4.55 | 23.599 | -6.469 |
| 08-APR-76 | 17.13 | 1.176 | 19.049 | 4.55 | 23.599 | -6.469 |
| 09-APR-76 | 17.13 | 1.176 | 19.049 | 4.55 | 23.599 | -6.469 |
| 10-APR-76 | 17.13 | 1.176 | 19.049 | 4.55 | 23.599 | -6.469 |
| 11-APR-76 | 17.13 | 1.176 | 19.049 | 4.55 | 23.599 | -6.469 |
| 12-APR-76 | 17.13 | 1.176 | 19.049 | 4.55 | 23.599 | -6.469 |
| 13-APR-76 | 21.51 | 1.176 | 19.049 | 4.55 | 23.599 | -2.089 |
| 14-APR-76 | 21.51 | 1.061 | 17.189 | 4.55 | 21.739 | -0.229 |
| 15-APR-76 | 21.51 | 1.061 | 17.189 | 4.55 | 21.739 | -0.229 |
| 16-APR-76 | 21.51 | 1.061 | 17.189 | 4.55 | 21.739 | -0.229 |
| 17-APR-76 | 21.51 | 1.061 | 17.189 | 4.55 | 21.739 | -0.229 |
| 18-APR-76 | 21.51 | 1.061 | 17.189 | 4.55 | 21.739 | -0.229 |
| 19-APR-76 | 21.51 | 1.061 | 17.189 | 4.55 | 21.739 | -0.229 |
| 20-APR-76 | 21.24 | 1.061 | 17.189 | 4.55 | 21.739 | -0.499 |
| 21-APR-76 | 21.24 | 1.068 | 17.298 | 4.55 | 21.848 | -0.608 |
| 22-APR-76 | 21.24 | 1.068 | 17.298 | 4.55 | 21.848 | -0.608 |
| 23-APR-76 | 21.24 | 1.068 | 17.298 | 4.55 | 21.848 | -0.608 |
| 24-APR-76 | 21.24 | 1.068 | 17.298 | 4.55 | 21.848 | -0.608 |
| 25-APR-76 | 21.24 | 1.068 | 17.298 | 4.55 | 21.848 | -0.608 |
| 26-APR-76 | 21.24 | 1.068 | 17.298 | 4.55 | 21.848 | -0.608 |
| 27-APR-76 | 13.39 | 1.068 | 17.298 | 4.55 | 21.848 | -8.458 |
| 28-APR-76 | 13.39 | 1.028 | 16.658 | 4.55 | 21.208 | -7.818 |
| 29-APR-76 | 13.39 | 1.028 | 16.658 | 4.55 | 21.208 | -7.818 |
| 30-APR-76 | 13.39 | 1.028 | 16.658 | 4.55 | 21.208 | -7.818 |
| 01-MAY-76 | 13.39 | 1.028 | 16.658 | 4.55 | 21.208 | -7.818 |
| 02-MAY-76 | 13.39 | 1.028 | 16.658 | 4.55 | 21.208 | -7.818 |
| 03-MAY-76 | 13.39 | 1.028 | 16.658 | 4.55 | 21.208 | -7.818 |
| 04-MAY-76 | 2.71 | 1.028 | 16.658 | 4.55 | 21.208 | -18.498 |
| 05-MAY-76 | 2.71 | 1.088 | 17.632 | 4.55 | 22.182 | -19.472 |
| 06-MAY-76 | 2.71 | 1.088 | 17.632 | 4.55 | 22.182 | -19.472 |
| 07-MAY-76 | 2.71 | 1.088 | 17.632 | 4.55 | 22.182 | -19.472 |
| 08-MAY-76 | 2.71 | 1.088 | 17.632 | 4.55 | 22.182 | -19.472 |
| 09-MAY-76 | 2.71 | 1.088 | 17.632 | 4.55 | 22.182 | -19.472 |
| 10-MAY-76 | 2.71 | 1.088 | 17.632 | 4.55 | 22.182 | -19.472 |
| 11-MAY-76 | 6.49 | 1.088 | 17.632 | 4.55 | 22.182 | -15.692 |
| 12-MAY-76 | 6.49 | 1.184 | 19.185 | 4.55 | 23.735 | -17.245 |
| 13-MAY-76 | 6.49 | 1.184 | 19.185 | 4.55 | 23.735 | -17.245 |
| 14-MAY-76 | 6.49 | 1.184 | 19.185 | 4.55 | 23.735 | -17.245 |
| 15-MAY-76 | 6.49 | 1.184 | 19.185 | 4.55 | 23.735 | -17.245 |
| 16-MAY-76 | 6.49 | 1.184 | 19.185 | 4.55 | 23.735 | -17.245 |
| 17-MAY-76 | 6.49 | 1.184 | 19.185 | 4.55 | 23.735 | -17.245 |
| 18-MAY-76 | 7.79 | 1.184 | 19.185 | 4.55 | 23.735 | -15.945 |
| 19-MAY-76 | 7.79 | 1.178 | 19.089 | 4.55 | 23.639 | -15.849 |
| 20-MAY-76 | 7.79 | 1.178 | 19.089 | 4.55 | 23.639 | -15.849 |
| 21-MAY-76 | 7.79 | 1.178 | 19.089 | 4.55 | 23.639 | -15.849 |
| 22-MAY-76 | 7.79 | 1.178 | 19.089 | 4.55 | 23.639 | -15.849 |

3657.47
3683.29
3709.10
3714.88
3721.08
3727.28
3733.49
3739.69
3745.90
3752.10
3743.83
3737.36
3730.90
3724.43
3717.96
3711.49
3705.02
3702.93
3702.70
3702.47
3702.24
3702.02
3701.79
3701.56
3701.06
3700.45
3699.84
3699.23
3698.62
3698.02
3697.41
3688.95
3681.13
3673.31
3665.49
3657.68
3649.86
3642.04
3623.54
3604.07
3584.60
3565.13
3545.65
3526.18
3506.71
3491.02
3473.77
3456.53
3439.28
3422.04
3404.79
3387.55
3371.61
3355.76
3339.91
3324.06
3308.21

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|-----------|------|-------|--------|------|--------|---------|---------|
| 19-JUL-76 | 0.11 | 1.160 | 18.797 | 4.55 | 23.347 | -23.237 | 1963.81 |
| 20-JUL-76 | 0.11 | 1.160 | 18.797 | 4.55 | 23.347 | -23.237 | 1940.58 |
| 21-JUL-76 | 0.11 | 1.152 | 18.660 | 4.55 | 23.210 | -23.100 | 1917.48 |
| 22-JUL-76 | 0.11 | 1.152 | 18.660 | 4.55 | 23.210 | -23.100 | 1894.38 |
| 23-JUL-76 | 0.11 | 1.152 | 18.660 | 4.55 | 23.210 | -23.100 | 1871.27 |
| 24-JUL-76 | 0.11 | 1.152 | 18.660 | 4.55 | 23.210 | -23.100 | 1848.17 |
| 25-JUL-76 | 0.11 | 1.152 | 18.660 | 4.55 | 23.210 | -23.100 | 1825.07 |
| 26-JUL-76 | 0.11 | 1.152 | 18.660 | 4.55 | 23.210 | -23.100 | 1801.97 |
| 27-JUL-76 | 0.11 | 1.152 | 18.660 | 4.55 | 23.210 | -23.100 | 1778.87 |
| 28-JUL-76 | 0.11 | 0.787 | 12.742 | 4.55 | 17.292 | -17.182 | 1761.69 |
| 29-JUL-76 | 0.11 | 0.787 | 12.742 | 4.55 | 17.292 | -17.182 | 1744.51 |
| 30-JUL-76 | 0.11 | 0.787 | 12.742 | 4.55 | 17.292 | -17.182 | 1727.33 |
| 31-JUL-76 | 0.11 | 0.787 | 12.742 | 4.55 | 17.292 | -17.182 | 1710.14 |
| 01-AUG-76 | 0.11 | 0.787 | 12.742 | 4.55 | 17.292 | -17.182 | 1692.96 |
| 02-AUG-76 | 0.11 | 0.787 | 12.742 | 4.55 | 17.292 | -17.182 | 1675.78 |
| 03-AUG-76 | 0.11 | 0.787 | 12.742 | 4.55 | 17.292 | -17.182 | 1658.60 |
| 04-AUG-76 | 0.11 | 0.763 | 12.354 | 4.55 | 16.904 | -16.794 | 1641.80 |
| 05-AUG-76 | 0.11 | 0.763 | 12.354 | 4.55 | 16.904 | -16.794 | 1625.01 |
| 06-AUG-76 | 0.11 | 0.763 | 12.354 | 4.55 | 16.904 | -16.794 | 1608.22 |
| 07-AUG-76 | 0.11 | 0.763 | 12.354 | 4.55 | 16.904 | -16.794 | 1591.42 |
| 08-AUG-76 | 0.11 | 0.763 | 12.354 | 4.55 | 16.904 | -16.794 | 1574.63 |
| 09-AUG-76 | 0.11 | 0.763 | 12.354 | 4.55 | 16.904 | -16.794 | 1557.83 |
| 10-AUG-76 | 0.11 | 0.763 | 12.354 | 4.55 | 16.904 | -16.794 | 1541.04 |
| 11-AUG-76 | 0.11 | 0.636 | 10.304 | 4.55 | 14.854 | -14.744 | 1526.30 |
| 12-AUG-76 | 0.11 | 0.636 | 10.304 | 4.55 | 14.854 | -14.744 | 1511.55 |
| 13-AUG-76 | 0.11 | 0.636 | 10.304 | 4.55 | 14.854 | -14.744 | 1496.81 |
| 14-AUG-76 | 0.11 | 0.636 | 10.304 | 4.55 | 14.854 | -14.744 | 1482.06 |
| 15-AUG-76 | 0.11 | 0.636 | 10.304 | 4.55 | 14.854 | -14.744 | 1467.32 |
| 16-AUG-76 | 0.11 | 0.636 | 10.304 | 4.55 | 14.854 | -14.744 | 1452.58 |
| 17-AUG-76 | 0.11 | 0.636 | 10.304 | 4.55 | 14.854 | -14.744 | 1437.83 |
| 18-AUG-76 | 0.11 | 0.571 | 9.255 | 4.55 | 13.805 | -13.695 | 1424.14 |
| 19-AUG-76 | 0.11 | 0.571 | 9.255 | 4.55 | 13.805 | -13.695 | 1410.44 |
| 20-AUG-76 | 0.11 | 0.571 | 9.255 | 4.55 | 13.805 | -13.695 | 1396.75 |
| 21-AUG-76 | 0.11 | 0.571 | 9.255 | 4.55 | 13.805 | -13.695 | 1383.05 |
| 22-AUG-76 | 0.11 | 0.571 | 9.255 | 4.55 | 13.805 | -13.695 | 1369.36 |
| 23-AUG-76 | 0.11 | 0.571 | 9.255 | 4.55 | 13.805 | -13.695 | 1355.66 |
| 24-AUG-76 | 0.11 | 0.571 | 9.255 | 4.55 | 13.805 | -13.695 | 1341.97 |
| 25-AUG-76 | 0.11 | 0.528 | 8.554 | 4.55 | 13.104 | -12.994 | 1328.97 |
| 26-AUG-76 | 0.11 | 0.528 | 8.554 | 4.55 | 13.104 | -12.994 | 1315.98 |
| 27-AUG-76 | 0.11 | 0.528 | 8.554 | 4.55 | 13.104 | -12.994 | 1302.98 |
| 28-AUG-76 | 0.11 | 0.528 | 8.554 | 4.55 | 13.104 | -12.994 | 1289.99 |
| 29-AUG-76 | 0.11 | 0.528 | 8.554 | 4.55 | 13.104 | -12.994 | 1277.00 |
| 30-AUG-76 | 0.11 | 0.528 | 8.554 | 4.55 | 13.104 | -12.994 | 1264.00 |
| 31-AUG-76 | 3.09 | 0.528 | 8.554 | 4.55 | 13.104 | -10.014 | 1253.99 |
| 01-SEP-76 | 3.09 | 0.563 | 9.126 | 4.55 | 13.676 | -10.586 | 1243.40 |
| 02-SEP-76 | 3.09 | 0.563 | 9.126 | 4.55 | 13.676 | -10.586 | 1232.82 |
| 03-SEP-76 | 3.09 | 0.563 | 9.126 | 4.55 | 13.676 | -10.586 | 1222.23 |
| 04-SEP-76 | 3.09 | 0.563 | 9.126 | 4.55 | 13.676 | -10.586 | 1211.64 |
| 05-SEP-76 | 3.09 | 0.563 | 9.126 | 4.55 | 13.676 | -10.586 | 1201.06 |
| 06-SEP-76 | 3.09 | 0.563 | 9.126 | 4.55 | 13.676 | -10.586 | 1190.47 |
| 07-SEP-76 | 1.51 | 0.563 | 9.126 | 4.55 | 13.676 | -12.166 | 1178.31 |
| 08-SEP-76 | 1.51 | 0.485 | 7.852 | 4.55 | 12.402 | -10.892 | 1167.42 |
| 09-SEP-76 | 1.51 | 0.485 | 7.852 | 4.55 | 12.402 | -10.892 | 1156.52 |
| 10-SEP-76 | 1.51 | 0.485 | 7.852 | 4.55 | 12.402 | -10.892 | 1145.63 |
| 11-SEP-76 | 1.51 | 0.485 | 7.852 | 4.55 | 12.402 | -10.892 | 1134.74 |
| 12-SEP-76 | 1.51 | 0.485 | 7.852 | 4.55 | 12.402 | -10.892 | 1123.85 |
| 13-SEP-76 | 1.51 | 0.485 | 7.852 | 4.55 | 12.402 | -10.892 | 1112.95 |



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|-----------|--------|-------|--------|------|--------|---------|
| 10-NOV-76 | 54.03 | 1.210 | 19.607 | 4.55 | 24.157 | 29.873 |
| 11-NOV-76 | 54.03 | 1.210 | 19.607 | 4.55 | 24.157 | 29.873 |
| 12-NOV-76 | 54.03 | 1.210 | 19.607 | 4.55 | 24.157 | 29.873 |
| 13-NOV-76 | 54.03 | 1.210 | 19.607 | 4.55 | 24.157 | 29.873 |
| 14-NOV-76 | 54.03 | 1.210 | 19.607 | 4.55 | 24.157 | 29.873 |
| 15-NOV-76 | 54.03 | 1.210 | 19.607 | 4.55 | 24.157 | 29.873 |
| 16-NOV-76 | 24.97 | 1.210 | 19.607 | 4.55 | 24.157 | 0.813 |
| 17-NOV-76 | 24.97 | 1.383 | 22.399 | 4.55 | 26.949 | -1.979 |
| 18-NOV-76 | 24.97 | 1.383 | 22.399 | 4.55 | 26.949 | -1.979 |
| 19-NOV-76 | 24.97 | 1.383 | 22.399 | 4.55 | 26.949 | -1.979 |
| 20-NOV-76 | 24.97 | 1.383 | 22.399 | 4.55 | 26.949 | -1.979 |
| 21-NOV-76 | 24.97 | 1.383 | 22.399 | 4.55 | 26.949 | -1.979 |
| 22-NOV-76 | 24.97 | 1.383 | 22.399 | 4.55 | 26.949 | -1.979 |
| 23-NOV-76 | 28.84 | 1.383 | 22.399 | 4.55 | 26.949 | 1.891 |
| 24-NOV-76 | 28.84 | 1.373 | 22.243 | 4.55 | 26.793 | 2.047 |
| 25-NOV-76 | 28.84 | 1.373 | 22.243 | 4.55 | 26.793 | 2.047 |
| 26-NOV-76 | 28.84 | 1.373 | 22.243 | 4.55 | 26.793 | 2.047 |
| 27-NOV-76 | 28.84 | 1.373 | 22.243 | 4.55 | 26.793 | 2.047 |
| 28-NOV-76 | 28.84 | 1.373 | 22.243 | 4.55 | 26.793 | 2.047 |
| 29-NOV-76 | 28.84 | 1.373 | 22.243 | 4.55 | 26.793 | 2.047 |
| 30-NOV-76 | 149.10 | 1.373 | 22.243 | 4.55 | 26.793 | 122.307 |
| 01-DEC-76 | 149.10 | 1.376 | 22.290 | 4.55 | 26.840 | 122.260 |
| 02-DEC-76 | 149.10 | 1.376 | 22.290 | 4.55 | 26.840 | 122.260 |
| 03-DEC-76 | 149.10 | 1.376 | 22.290 | 4.55 | 26.840 | 122.260 |
| 04-DEC-76 | 149.10 | 1.376 | 22.290 | 4.55 | 26.840 | 122.260 |
| 05-DEC-76 | 149.10 | 1.376 | 22.290 | 4.55 | 26.840 | 122.260 |
| 06-DEC-76 | 149.10 | 1.376 | 22.290 | 4.55 | 26.840 | 122.260 |
| 07-DEC-76 | 97.80 | 1.376 | 22.290 | 4.55 | 26.840 | 70.960 |
| 08-DEC-76 | 97.80 | 1.413 | 22.883 | 4.55 | 27.433 | 70.367 |
| 09-DEC-76 | 97.80 | 1.413 | 22.883 | 4.55 | 27.433 | 70.367 |
| 10-DEC-76 | 97.80 | 1.413 | 22.883 | 4.55 | 27.433 | 70.367 |
| 11-DEC-76 | 97.80 | 1.413 | 22.883 | 4.55 | 27.433 | 70.367 |
| 12-DEC-76 | 97.80 | 1.413 | 22.883 | 4.55 | 27.433 | 70.367 |
| 13-DEC-76 | 97.80 | 1.413 | 22.883 | 4.55 | 27.433 | 70.367 |
| 14-DEC-76 | 51.36 | 1.413 | 22.883 | 4.55 | 27.433 | 23.927 |
| 15-DEC-76 | 51.36 | 1.353 | 21.923 | 4.55 | 26.473 | 24.887 |
| 16-DEC-76 | 51.36 | 1.353 | 21.923 | 4.55 | 26.473 | 24.887 |
| 17-DEC-76 | 51.36 | 1.353 | 21.923 | 4.55 | 26.473 | 24.887 |
| 18-DEC-76 | 51.36 | 1.353 | 21.923 | 4.55 | 26.473 | 24.887 |
| 19-DEC-76 | 51.36 | 1.353 | 21.923 | 4.55 | 26.473 | 24.887 |
| 20-DEC-76 | 51.36 | 1.353 | 21.923 | 4.55 | 26.473 | 24.887 |
| 21-DEC-76 | 57.94 | 1.353 | 21.923 | 4.55 | 26.473 | 31.467 |
| 22-DEC-76 | 57.94 | 1.341 | 21.732 | 4.55 | 26.282 | 31.658 |
| 23-DEC-76 | 57.94 | 1.341 | 21.732 | 4.55 | 26.282 | 31.658 |
| 24-DEC-76 | 57.94 | 1.341 | 21.732 | 4.55 | 26.282 | 31.658 |
| 25-DEC-76 | 57.94 | 1.341 | 21.732 | 4.55 | 26.282 | 31.658 |
| 26-DEC-76 | 57.94 | 1.341 | 21.732 | 4.55 | 26.282 | 31.658 |
| 27-DEC-76 | 57.94 | 1.341 | 21.732 | 4.55 | 26.282 | 31.658 |
| 28-DEC-76 | 53.74 | 1.341 | 21.732 | 4.55 | 26.282 | 27.458 |
| 29-DEC-76 | 53.74 | 1.283 | 20.785 | 4.55 | 25.335 | 28.405 |
| 30-DEC-76 | 53.74 | 1.283 | 20.785 | 4.55 | 25.335 | 28.405 |
| 31-DEC-76 | 53.74 | 1.283 | 20.785 | 4.55 | 25.335 | 28.405 |

21604.6

Wessex Water inflows - some have been averaged over a number of weeks to remove the negatives. The weekly values have been converted to daily values

APPENDIX 7

CASE 5: Clatworthy Reservoir
1990

| Date | Inflow (cumecs) | Inflow (ML/d) | 1990 Abstraction | Ratio to Average | Increased Abstraction 20.05 ML/d | C.R (ML/d) | Outflow (ML/d) | Storage change |
|-----------|--------------------|------------------|---------------------|---------------------|--|---------------|-------------------|-------------------|
| 01-JAN-75 | 0.889 | 76.810 | 25.5 | 1.425 | 28.563 | 4.55 | 33.113 | 43.697 |
| 02-JAN-75 | 0.751 | 64.886 | 26.39 | 1.474 | 29.560 | 4.55 | 34.110 | 30.777 |
| 03-JAN-75 | 0.628 | 54.259 | 26.39 | 1.474 | 29.560 | 4.55 | 34.110 | 20.149 |
| 04-JAN-75 | 0.536 | 46.310 | 26.39 | 1.474 | 29.560 | 4.55 | 34.110 | 12.201 |
| 05-JAN-75 | 0.472 | 40.781 | 26.39 | 1.474 | 29.560 | 4.55 | 34.110 | 6.671 |
| 06-JAN-75 | 0.441 | 38.102 | 26.39 | 1.474 | 29.560 | 4.55 | 34.110 | 3.993 |
| 07-JAN-75 | 0.402 | 34.733 | 26.39 | 1.474 | 29.560 | 4.55 | 34.110 | 0.623 |
| 08-JAN-75 | 0.370 | 31.968 | 26.39 | 1.474 | 29.560 | 4.55 | 34.110 | -2.142 |
| 09-JAN-75 | 0.340 | 29.376 | 32.4 | 1.810 | 36.292 | 4.55 | 40.842 | -11.466 |
| 10-JAN-75 | 0.317 | 27.389 | 32.4 | 1.810 | 36.292 | 4.55 | 40.842 | -13.453 |
| 11-JAN-75 | 0.308 | 26.611 | 32.4 | 1.810 | 36.292 | 4.55 | 40.842 | -14.230 |
| 12-JAN-75 | 0.356 | 30.758 | 32.4 | 1.810 | 36.292 | 4.55 | 40.842 | -10.083 |
| 13-JAN-75 | 0.324 | 27.994 | 32.4 | 1.810 | 36.292 | 4.55 | 40.842 | -12.848 |
| 14-JAN-75 | 0.393 | 33.955 | 32.4 | 1.810 | 36.292 | 4.55 | 40.842 | -6.886 |
| 15-JAN-75 | 0.418 | 36.115 | 32.4 | 1.810 | 36.292 | 4.55 | 40.842 | -4.726 |
| 16-JAN-75 | 0.421 | 36.374 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | -3.459 |
| 17-JAN-75 | 0.504 | 43.546 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | 3.712 |
| 18-JAN-75 | 0.536 | 46.310 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | 6.477 |
| 19-JAN-75 | 1.119 | 96.682 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | 56.848 |
| 20-JAN-75 | 1.202 | 103.853 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | 64.019 |
| 21-JAN-75 | 1.383 | 119.491 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | 79.658 |
| 22-JAN-75 | 2.653 | 229.219 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | 189.386 |
| 23-JAN-75 | 2.168 | 187.315 | 31.7 | 1.771 | 35.508 | 4.55 | 40.058 | 147.258 |
| 24-JAN-75 | 1.705 | 147.312 | 31.7 | 1.771 | 35.508 | 4.55 | 40.058 | 107.254 |
| 25-JAN-75 | 1.554 | 134.266 | 31.7 | 1.771 | 35.508 | 4.55 | 40.058 | 94.208 |
| 26-JAN-75 | 1.537 | 132.797 | 31.7 | 1.771 | 35.508 | 4.55 | 40.058 | 92.739 |
| 27-JAN-75 | 1.313 | 113.443 | 31.7 | 1.771 | 35.508 | 4.55 | 40.058 | 73.386 |
| 28-JAN-75 | 2.211 | 191.030 | 31.7 | 1.771 | 35.508 | 4.55 | 40.058 | 150.973 |
| 29-JAN-75 | 1.823 | 157.507 | 31.7 | 1.771 | 35.508 | 4.55 | 40.058 | 117.450 |
| 30-JAN-75 | 1.678 | 144.979 | 32.7 | 1.827 | 36.628 | 4.55 | 41.178 | 103.802 |
| 31-JAN-75 | 1.606 | 138.758 | 32.7 | 1.827 | 36.628 | 4.55 | 41.178 | 97.581 |
| 01-FEB-75 | 1.412 | 121.997 | 32.7 | 1.827 | 36.628 | 4.55 | 41.178 | 80.819 |
| 02-FEB-75 | 1.149 | 99.274 | 32.7 | 1.827 | 36.628 | 4.55 | 41.178 | 58.096 |
| 03-FEB-75 | 0.938 | 81.043 | 32.7 | 1.827 | 36.628 | 4.55 | 41.178 | 39.866 |
| 04-FEB-75 | 0.769 | 66.442 | 32.7 | 1.827 | 36.628 | 4.55 | 41.178 | 25.264 |
| 05-FEB-75 | 0.643 | 55.555 | 32.7 | 1.827 | 36.628 | 4.55 | 41.178 | 14.378 |
| 06-FEB-75 | 0.565 | 48.816 | 32.9 | 1.838 | 36.852 | 4.55 | 41.402 | 7.414 |
| 07-FEB-75 | 0.487 | 42.077 | 32.9 | 1.838 | 36.852 | 4.55 | 41.402 | 0.675 |
| 08-FEB-75 | 0.420 | 36.288 | 32.9 | 1.838 | 36.852 | 4.55 | 41.402 | -5.114 |
| 09-FEB-75 | 0.360 | 31.104 | 32.9 | 1.838 | 36.852 | 4.55 | 41.402 | -10.298 |
| 10-FEB-75 | 0.373 | 32.227 | 32.9 | 1.838 | 36.852 | 4.55 | 41.402 | -9.174 |
| 11-FEB-75 | 0.330 | 28.512 | 32.9 | 1.838 | 36.852 | 4.55 | 41.402 | -12.890 |
| 12-FEB-75 | 0.316 | 27.302 | 32.9 | 1.838 | 36.852 | 4.55 | 41.402 | -14.099 |
| 13-FEB-75 | 0.292 | 25.229 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | -14.605 |
| 14-FEB-75 | 0.278 | 24.019 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | -15.814 |
| 15-FEB-75 | 0.266 | 22.982 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | -16.851 |
| 16-FEB-75 | 0.266 | 22.982 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | -16.851 |
| 17-FEB-75 | 0.306 | 26.438 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | -13.395 |
| 18-FEB-75 | 0.366 | 31.622 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | -8.211 |
| 19-FEB-75 | 0.323 | 27.907 | 31.5 | 1.760 | 35.284 | 4.55 | 39.834 | -11.926 |
| 20-FEB-75 | 0.329 | 28.426 | 28.5 | 1.592 | 31.923 | 4.55 | 36.473 | -8.048 |
| 21-FEB-75 | 0.330 | 28.512 | 28.5 | 1.592 | 31.923 | 4.55 | 36.473 | -7.961 |

Storage

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5267.37
5255.45
5247.40
5239.44

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|-----------|-------|--------|------|-------|
| 20-APR-75 | 0.489 | 42.250 | 19.1 | 1.067 |
| 21-APR-75 | 0.516 | 44.582 | 19.1 | 1.067 |
| 22-APR-75 | 0.470 | 40.608 | 19.1 | 1.067 |
| 23-APR-75 | 0.429 | 37.066 | 19.1 | 1.067 |
| 24-APR-75 | 0.388 | 33.523 | 19.9 | 1.112 |
| 25-APR-75 | 0.360 | 31.104 | 19.9 | 1.112 |
| 26-APR-75 | 0.329 | 28.426 | 19.9 | 1.112 |
| 27-APR-75 | 0.303 | 26.179 | 19.9 | 1.112 |
| 28-APR-75 | 0.282 | 24.365 | 19.9 | 1.112 |
| 29-APR-75 | 0.267 | 23.069 | 19.9 | 1.112 |
| 30-APR-75 | 0.245 | 21.168 | 19.9 | 1.112 |
| 01-MAY-75 | 0.235 | 20.304 | 23.7 | 1.324 |
| 02-MAY-75 | 0.218 | 18.835 | 23.7 | 1.324 |
| 03-MAY-75 | 0.200 | 17.280 | 23.7 | 1.324 |
| 04-MAY-75 | 0.187 | 16.157 | 23.7 | 1.324 |
| 05-MAY-75 | 0.172 | 14.861 | 23.7 | 1.324 |
| 06-MAY-75 | 0.153 | 13.219 | 23.7 | 1.324 |
| 07-MAY-75 | 0.150 | 12.960 | 23.7 | 1.324 |
| 08-MAY-75 | 0.157 | 13.565 | 15.3 | 0.855 |
| 09-MAY-75 | 0.156 | 13.478 | 15.3 | 0.855 |
| 10-MAY-75 | 0.150 | 12.960 | 15.3 | 0.855 |
| 11-MAY-75 | 0.134 | 11.578 | 15.3 | 0.855 |
| 12-MAY-75 | 0.155 | 13.392 | 15.3 | 0.855 |
| 13-MAY-75 | 0.160 | 13.824 | 15.3 | 0.855 |
| 14-MAY-75 | 0.149 | 12.874 | 15.3 | 0.855 |
| 15-MAY-75 | 0.136 | 11.750 | 8.8 | 0.492 |
| 16-MAY-75 | 0.122 | 10.541 | 8.8 | 0.492 |
| 17-MAY-75 | 0.114 | 9.850 | 8.8 | 0.492 |
| 18-MAY-75 | 0.106 | 9.158 | 8.8 | 0.492 |
| 19-MAY-75 | 0.100 | 8.640 | 8.8 | 0.492 |
| 20-MAY-75 | 0.089 | 7.690 | 8.8 | 0.492 |
| 21-MAY-75 | 0.084 | 7.258 | 8.8 | 0.492 |
| 22-MAY-75 | 0.089 | 7.690 | 12.8 | 0.715 |
| 23-MAY-75 | 0.107 | 9.245 | 12.8 | 0.715 |
| 24-MAY-75 | 0.091 | 7.862 | 12.8 | 0.715 |
| 25-MAY-75 | 0.090 | 7.776 | 12.8 | 0.715 |
| 26-MAY-75 | 0.085 | 7.344 | 12.8 | 0.715 |
| 27-MAY-75 | 0.073 | 6.307 | 12.8 | 0.715 |
| 28-MAY-75 | 0.071 | 6.134 | 12.8 | 0.715 |
| 29-MAY-75 | 0.073 | 6.307 | 6.7 | 0.374 |
| 30-MAY-75 | 0.072 | 6.221 | 6.7 | 0.374 |
| 31-MAY-75 | 0.067 | 5.789 | 6.7 | 0.374 |
| 01-JUN-75 | 0.065 | 5.616 | 6.7 | 0.374 |
| 02-JUN-75 | 0.071 | 6.134 | 6.7 | 0.374 |
| 03-JUN-75 | 0.066 | 5.702 | 6.7 | 0.374 |
| 04-JUN-75 | 0.064 | 5.530 | 6.7 | 0.374 |
| 05-JUN-75 | 0.062 | 5.357 | 3.9 | 0.218 |
| 06-JUN-75 | 0.056 | 4.838 | 3.9 | 0.218 |
| 07-JUN-75 | 0.052 | 4.493 | 3.9 | 0.218 |
| 08-JUN-75 | 0.051 | 4.406 | 3.9 | 0.218 |
| 09-JUN-75 | 0.050 | 4.320 | 3.9 | 0.218 |
| 10-JUN-75 | 0.049 | 4.234 | 3.9 | 0.218 |
| 11-JUN-75 | 0.045 | 3.888 | 3.9 | 0.218 |
| 12-JUN-75 | 0.042 | 3.629 | 7.4 | 0.413 |
| 13-JUN-75 | 0.039 | 3.370 | 7.4 | 0.413 |
| 14-JUN-75 | 0.037 | 3.197 | 7.4 | 0.413 |
| 15-JUN-75 | 0.036 | 3.110 | 7.4 | 0.413 |

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|--------|------|--------|---------|---------|
| 21.394 | 4.55 | 25.944 | 16.305 | 5063.28 |
| 21.394 | 4.55 | 25.944 | 18.638 | 5081.92 |
| 21.394 | 4.55 | 25.944 | 14.664 | 5096.58 |
| 21.394 | 4.55 | 25.944 | 11.121 | 5107.71 |
| 22.290 | 4.55 | 26.840 | 6.683 | 5114.39 |
| 22.290 | 4.55 | 26.840 | 4.264 | 5118.65 |
| 22.290 | 4.55 | 26.840 | 1.585 | 5120.24 |
| 22.290 | 4.55 | 26.840 | -0.661 | 5119.58 |
| 22.290 | 4.55 | 26.840 | -2.475 | 5117.10 |
| 22.290 | 4.55 | 26.840 | -3.771 | 5113.33 |
| 22.290 | 4.55 | 26.840 | -5.672 | 5107.66 |
| 26.547 | 4.55 | 31.097 | -10.793 | 5096.87 |
| 26.547 | 4.55 | 31.097 | -12.261 | 5084.60 |
| 26.547 | 4.55 | 31.097 | -13.817 | 5070.79 |
| 26.547 | 4.55 | 31.097 | -14.940 | 5055.85 |
| 26.547 | 4.55 | 31.097 | -16.236 | 5039.61 |
| 26.547 | 4.55 | 31.097 | -17.877 | 5021.73 |
| 26.547 | 4.55 | 31.097 | -18.137 | 5003.60 |
| 17.138 | 4.55 | 21.688 | -8.123 | 4995.47 |
| 17.138 | 4.55 | 21.688 | -8.209 | 4987.27 |
| 17.138 | 4.55 | 21.688 | -8.728 | 4978.54 |
| 17.138 | 4.55 | 21.688 | -10.110 | 4968.43 |
| 17.138 | 4.55 | 21.688 | -8.296 | 4960.13 |
| 17.138 | 4.55 | 21.688 | -7.864 | 4952.27 |
| 17.138 | 4.55 | 21.688 | -8.814 | 4943.45 |
| 9.857 | 4.55 | 14.407 | -2.657 | 4940.80 |
| 9.857 | 4.55 | 14.407 | -3.866 | 4936.93 |
| 9.857 | 4.55 | 14.407 | -4.557 | 4932.37 |
| 9.857 | 4.55 | 14.407 | -5.249 | 4927.13 |
| 9.857 | 4.55 | 14.407 | -5.767 | 4921.36 |
| 9.857 | 4.55 | 14.407 | -6.717 | 4914.64 |
| 9.857 | 4.55 | 14.407 | -7.149 | 4907.49 |
| 14.337 | 4.55 | 18.887 | -11.198 | 4896.29 |
| 14.337 | 4.55 | 18.887 | -9.643 | 4886.65 |
| 14.337 | 4.55 | 18.887 | -11.025 | 4875.63 |
| 14.337 | 4.55 | 18.887 | -11.111 | 4864.51 |
| 14.337 | 4.55 | 18.887 | -11.543 | 4852.97 |
| 14.337 | 4.55 | 18.887 | -12.580 | 4840.39 |
| 14.337 | 4.55 | 18.887 | -12.753 | 4827.64 |
| 7.505 | 4.55 | 12.055 | -5.748 | 4821.89 |
| 7.505 | 4.55 | 12.055 | -5.834 | 4816.06 |
| 7.505 | 4.55 | 12.055 | -6.266 | 4809.79 |
| 7.505 | 4.55 | 12.055 | -6.439 | 4803.35 |
| 7.505 | 4.55 | 12.055 | -5.920 | 4797.43 |
| 7.505 | 4.55 | 12.055 | -6.352 | 4791.08 |
| 7.505 | 4.55 | 12.055 | -6.525 | 4784.55 |
| 4.368 | 4.55 | 8.918 | -3.562 | 4780.99 |
| 4.368 | 4.55 | 8.918 | -4.080 | 4776.91 |
| 4.368 | 4.55 | 8.918 | -4.426 | 4772.49 |
| 4.368 | 4.55 | 8.918 | -4.512 | 4767.97 |
| 4.368 | 4.55 | 8.918 | -4.598 | 4763.38 |
| 4.368 | 4.55 | 8.918 | -4.685 | 4758.69 |
| 4.368 | 4.55 | 8.918 | -5.030 | 4753.66 |
| 8.289 | 4.55 | 12.839 | -9.210 | 4744.45 |
| 8.289 | 4.55 | 12.839 | -9.469 | 4734.98 |
| 8.289 | 4.55 | 12.839 | -9.642 | 4725.34 |
| 8.289 | 4.55 | 12.839 | -9.728 | 4715.61 |

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|-----------|-------|--------|------|-------|
| 12-AUG-75 | 0.016 | 1.382 | 10.4 | 0.581 |
| 13-AUG-75 | 0.016 | 1.382 | 10.4 | 0.581 |
| 14-AUG-75 | 0.016 | 1.382 | 7.2 | 0.402 |
| 15-AUG-75 | 0.026 | 2.246 | 7.2 | 0.402 |
| 16-AUG-75 | 0.028 | 2.419 | 7.2 | 0.402 |
| 17-AUG-75 | 0.031 | 2.678 | 7.2 | 0.402 |
| 18-AUG-75 | 0.027 | 2.333 | 7.2 | 0.402 |
| 19-AUG-75 | 0.032 | 2.765 | 7.2 | 0.402 |
| 20-AUG-75 | 0.036 | 3.110 | 7.2 | 0.402 |
| 21-AUG-75 | 0.028 | 2.419 | 4.1 | 0.229 |
| 22-AUG-75 | 0.026 | 2.246 | 4.1 | 0.229 |
| 23-AUG-75 | 0.024 | 2.074 | 4.1 | 0.229 |
| 24-AUG-75 | 0.023 | 1.987 | 4.1 | 0.229 |
| 25-AUG-75 | 0.021 | 1.814 | 4.1 | 0.229 |
| 26-AUG-75 | 0.019 | 1.642 | 4.1 | 0.229 |
| 27-AUG-75 | 0.017 | 1.469 | 4.1 | 0.229 |
| 28-AUG-75 | 0.017 | 1.469 | 4.6 | 0.257 |
| 29-AUG-75 | 0.016 | 1.382 | 4.6 | 0.257 |
| 30-AUG-75 | 0.016 | 1.382 | 4.6 | 0.257 |
| 31-AUG-75 | 0.016 | 1.382 | 4.6 | 0.257 |
| 01-SEP-75 | 0.016 | 1.382 | 4.6 | 0.257 |
| 02-SEP-75 | 0.016 | 1.382 | 4.6 | 0.257 |
| 03-SEP-75 | 0.016 | 1.382 | 4.6 | 0.257 |
| 04-SEP-75 | 0.016 | 1.382 | 4.4 | 0.246 |
| 05-SEP-75 | 0.016 | 1.382 | 4.4 | 0.246 |
| 06-SEP-75 | 0.015 | 1.296 | 4.4 | 0.246 |
| 07-SEP-75 | 0.016 | 1.382 | 4.4 | 0.246 |
| 08-SEP-75 | 0.016 | 1.382 | 4.4 | 0.246 |
| 09-SEP-75 | 0.018 | 1.555 | 4.4 | 0.246 |
| 10-SEP-75 | 0.017 | 1.469 | 4.4 | 0.246 |
| 11-SEP-75 | 0.022 | 1.901 | 7.7 | 0.430 |
| 12-SEP-75 | 0.041 | 3.542 | 7.7 | 0.430 |
| 13-SEP-75 | 0.563 | 48.643 | 7.7 | 0.430 |
| 14-SEP-75 | 0.182 | 15.725 | 7.7 | 0.430 |
| 15-SEP-75 | 0.085 | 7.344 | 7.7 | 0.430 |
| 16-SEP-75 | 0.062 | 5.357 | 7.7 | 0.430 |
| 17-SEP-75 | 0.056 | 4.838 | 7.7 | 0.430 |
| 18-SEP-75 | 0.058 | 5.011 | 8.6 | 0.480 |
| 19-SEP-75 | 0.051 | 4.406 | 8.6 | 0.480 |
| 20-SEP-75 | 0.050 | 4.320 | 8.6 | 0.480 |
| 21-SEP-75 | 0.046 | 3.974 | 8.6 | 0.480 |
| 22-SEP-75 | 0.043 | 3.715 | 8.6 | 0.480 |
| 23-SEP-75 | 0.042 | 3.629 | 8.6 | 0.480 |
| 24-SEP-75 | 0.044 | 3.802 | 8.6 | 0.480 |
| 25-SEP-75 | 0.237 | 20.477 | 9.6 | 0.536 |
| 26-SEP-75 | 0.192 | 16.589 | 9.6 | 0.536 |
| 27-SEP-75 | 0.265 | 22.896 | 9.6 | 0.536 |
| 28-SEP-75 | 0.200 | 17.280 | 9.6 | 0.536 |
| 29-SEP-75 | 0.197 | 17.021 | 9.6 | 0.536 |
| 30-SEP-75 | 0.192 | 16.589 | 9.6 | 0.536 |
| 01-OCT-75 | 0.165 | 14.256 | 9.6 | 0.536 |
| 02-OCT-75 | 0.178 | 15.379 | 8.9 | 0.497 |
| 03-OCT-75 | 0.159 | 13.738 | 8.9 | 0.497 |
| 04-OCT-75 | 0.155 | 13.392 | 8.9 | 0.497 |
| 05-OCT-75 | 0.145 | 12.528 | 8.9 | 0.497 |
| 06-OCT-75 | 0.142 | 12.269 | 8.9 | 0.497 |
| 07-OCT-75 | 0.137 | 11.837 | 8.9 | 0.497 |

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|--------|------|--------|---------|---------|
| 11.649 | 4.55 | 16.199 | -14.817 | 4153.46 |
| 11.649 | 4.55 | 16.199 | -14.817 | 4138.65 |
| 8.065 | 4.55 | 12.615 | -11.232 | 4127.41 |
| 8.065 | 4.55 | 12.615 | -10.368 | 4117.05 |
| 8.065 | 4.55 | 12.615 | -10.196 | 4106.85 |
| 8.065 | 4.55 | 12.615 | -9.936 | 4096.91 |
| 8.065 | 4.55 | 12.615 | -10.282 | 4086.63 |
| 8.065 | 4.55 | 12.615 | -9.850 | 4076.78 |
| 8.065 | 4.55 | 12.615 | -9.504 | 4067.28 |
| 4.592 | 4.55 | 9.142 | -6.723 | 4060.55 |
| 4.592 | 4.55 | 9.142 | -6.896 | 4053.66 |
| 4.592 | 4.55 | 9.142 | -7.069 | 4046.59 |
| 4.592 | 4.55 | 9.142 | -7.155 | 4039.43 |
| 4.592 | 4.55 | 9.142 | -7.328 | 4032.11 |
| 4.592 | 4.55 | 9.142 | -7.501 | 4024.61 |
| 4.592 | 4.55 | 9.142 | -7.674 | 4016.93 |
| 5.153 | 4.55 | 9.703 | -8.234 | 4008.70 |
| 5.153 | 4.55 | 9.703 | -8.320 | 4000.38 |
| 5.153 | 4.55 | 9.703 | -8.320 | 3992.06 |
| 5.153 | 4.55 | 9.703 | -8.320 | 3983.74 |
| 5.153 | 4.55 | 9.703 | -8.320 | 3975.42 |
| 5.153 | 4.55 | 9.703 | -8.320 | 3967.10 |
| 5.153 | 4.55 | 9.703 | -8.320 | 3958.78 |
| 4.928 | 4.55 | 9.478 | -8.096 | 3950.68 |
| 4.928 | 4.55 | 9.478 | -8.096 | 3942.59 |
| 4.928 | 4.55 | 9.478 | -8.182 | 3934.40 |
| 4.928 | 4.55 | 9.478 | -8.096 | 3926.31 |
| 4.928 | 4.55 | 9.478 | -8.096 | 3918.21 |
| 4.928 | 4.55 | 9.478 | -7.923 | 3910.29 |
| 4.928 | 4.55 | 9.478 | -8.010 | 3902.28 |
| 8.625 | 4.55 | 13.175 | -11.274 | 3891.00 |
| 8.625 | 4.55 | 13.175 | -9.632 | 3881.37 |
| 8.625 | 4.55 | 13.175 | 35.468 | 3916.84 |
| 8.625 | 4.55 | 13.175 | 2.550 | 3919.39 |
| 8.625 | 4.55 | 13.175 | -5.831 | 3913.56 |
| 8.625 | 4.55 | 13.175 | -7.818 | 3905.74 |
| 8.625 | 4.55 | 13.175 | -8.336 | 3897.40 |
| 9.633 | 4.55 | 14.183 | -9.172 | 3888.23 |
| 9.633 | 4.55 | 14.183 | -9.777 | 3878.46 |
| 9.633 | 4.55 | 14.183 | -9.863 | 3868.59 |
| 9.633 | 4.55 | 14.183 | -10.209 | 3858.38 |
| 9.633 | 4.55 | 14.183 | -10.468 | 3847.92 |
| 9.633 | 4.55 | 14.183 | -10.554 | 3837.36 |
| 9.633 | 4.55 | 14.183 | -10.381 | 3826.98 |
| 10.753 | 4.55 | 15.303 | 5.174 | 3832.15 |
| 10.753 | 4.55 | 15.303 | 1.286 | 3833.44 |
| 10.753 | 4.55 | 15.303 | 7.593 | 3841.03 |
| 10.753 | 4.55 | 15.303 | 1.977 | 3843.01 |
| 10.753 | 4.55 | 15.303 | 1.718 | 3844.73 |
| 10.753 | 4.55 | 15.303 | 1.286 | 3846.01 |
| 10.753 | 4.55 | 15.303 | -1.047 | 3844.97 |
| 9.969 | 4.55 | 14.519 | 0.860 | 3845.83 |
| 9.969 | 4.55 | 14.519 | -0.781 | 3845.05 |
| 9.969 | 4.55 | 14.519 | -1.127 | 3843.92 |
| 9.969 | 4.55 | 14.519 | -1.991 | 3841.93 |
| 9.969 | 4.55 | 14.519 | -2.250 | 3839.68 |
| 9.969 | 4.55 | 14.519 | -2.682 | 3836.99 |

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|-----------|-------|---------|-------|-------|
| 04-DEC-75 | 1.340 | 115.776 | 28.27 | 1.579 |
| 05-DEC-75 | 1.128 | 97.459 | 28.27 | 1.579 |
| 06-DEC-75 | 0.907 | 78.365 | 28.27 | 1.579 |
| 07-DEC-75 | 0.731 | 63.158 | 28.27 | 1.579 |
| 08-DEC-75 | 0.602 | 52.013 | 28.27 | 1.579 |
| 09-DEC-75 | 0.504 | 43.546 | 28.27 | 1.579 |
| 10-DEC-75 | 0.437 | 37.757 | 28.27 | 1.579 |
| 11-DEC-75 | 0.395 | 34.128 | 27.56 | 1.540 |
| 12-DEC-75 | 0.392 | 33.869 | 27.56 | 1.540 |
| 13-DEC-75 | 0.339 | 29.290 | 27.56 | 1.540 |
| 14-DEC-75 | 0.306 | 26.438 | 27.56 | 1.540 |
| 15-DEC-75 | 0.279 | 24.106 | 27.56 | 1.540 |
| 16-DEC-75 | 0.258 | 22.291 | 27.56 | 1.540 |
| 17-DEC-75 | 0.237 | 20.477 | 27.56 | 1.540 |
| 18-DEC-75 | 0.223 | 19.267 | 27.19 | 1.519 |
| 19-DEC-75 | 0.214 | 18.490 | 27.19 | 1.519 |
| 20-DEC-75 | 0.208 | 17.971 | 27.19 | 1.519 |
| 21-DEC-75 | 0.200 | 17.280 | 27.19 | 1.519 |
| 22-DEC-75 | 0.178 | 15.379 | 27.19 | 1.519 |
| 23-DEC-75 | 0.175 | 15.120 | 27.19 | 1.519 |
| 24-DEC-75 | 0.176 | 15.206 | 27.19 | 1.519 |
| 25-DEC-75 | 0.171 | 14.774 | 25.5 | 1.425 |
| 26-DEC-75 | 0.168 | 14.515 | 25.5 | 1.425 |
| 27-DEC-75 | 0.159 | 13.738 | 25.5 | 1.425 |
| 28-DEC-75 | 0.150 | 12.960 | 25.5 | 1.425 |
| 29-DEC-75 | 0.144 | 12.442 | 25.5 | 1.425 |
| 30-DEC-75 | 0.146 | 12.614 | 25.5 | 1.425 |
| 31-DEC-75 | 0.160 | 13.824 | 25.5 | 1.425 |
| 01-JAN-76 | 0.168 | 14.515 | 26.39 | 1.474 |
| 02-JAN-76 | 0.255 | 22.032 | 26.39 | 1.474 |
| 03-JAN-76 | 0.286 | 24.710 | 26.39 | 1.474 |
| 04-JAN-76 | 0.339 | 29.290 | 26.39 | 1.474 |
| 05-JAN-76 | 0.359 | 31.018 | 26.39 | 1.474 |
| 06-JAN-76 | 0.361 | 31.190 | 26.39 | 1.474 |
| 07-JAN-76 | 0.369 | 31.882 | 26.39 | 1.474 |
| 08-JAN-76 | 0.376 | 32.486 | 32.4 | 1.810 |
| 09-JAN-76 | 0.370 | 31.968 | 32.4 | 1.810 |
| 10-JAN-76 | 0.350 | 30.240 | 32.4 | 1.810 |
| 11-JAN-76 | 0.318 | 27.475 | 32.4 | 1.810 |
| 12-JAN-76 | 0.286 | 24.710 | 32.4 | 1.810 |
| 13-JAN-76 | 0.270 | 23.328 | 32.4 | 1.810 |
| 14-JAN-76 | 0.261 | 22.550 | 32.4 | 1.810 |
| 15-JAN-76 | 0.248 | 21.427 | 31.5 | 1.760 |
| 16-JAN-76 | 0.240 | 20.736 | 31.5 | 1.760 |
| 17-JAN-76 | 0.228 | 19.699 | 31.5 | 1.760 |
| 18-JAN-76 | 0.218 | 18.835 | 31.5 | 1.760 |
| 19-JAN-76 | 0.233 | 20.131 | 31.5 | 1.760 |
| 20-JAN-76 | 0.258 | 22.291 | 31.5 | 1.760 |
| 21-JAN-76 | 0.215 | 18.576 | 31.5 | 1.760 |
| 22-JAN-76 | 0.204 | 17.626 | 31.7 | 1.771 |
| 23-JAN-76 | 0.197 | 17.021 | 31.7 | 1.771 |
| 24-JAN-76 | 0.193 | 16.675 | 31.7 | 1.771 |
| 25-JAN-76 | 0.183 | 15.811 | 31.7 | 1.771 |
| 26-JAN-76 | 0.185 | 15.984 | 31.7 | 1.771 |
| 27-JAN-76 | 0.192 | 16.589 | 31.7 | 1.771 |
| 28-JAN-76 | 0.263 | 22.723 | 31.7 | 1.771 |
| 29-JAN-76 | 0.374 | 32.314 | 32.7 | 1.827 |

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|--------|------|--------|---------|---------|
| 31.666 | 4.55 | 36.216 | 79.560 | 3998.23 |
| 31.666 | 4.55 | 36.216 | 61.244 | 4059.48 |
| 31.666 | 4.55 | 36.216 | 42.149 | 4101.63 |
| 31.666 | 4.55 | 36.216 | 26.943 | 4128.57 |
| 31.666 | 4.55 | 36.216 | 15.797 | 4144.37 |
| 31.666 | 4.55 | 36.216 | 7.330 | 4151.70 |
| 31.666 | 4.55 | 36.216 | 1.541 | 4153.24 |
| 30.870 | 4.55 | 35.420 | -1.292 | 4151.94 |
| 30.870 | 4.55 | 35.420 | -1.551 | 4150.39 |
| 30.870 | 4.55 | 35.420 | -6.131 | 4144.26 |
| 30.870 | 4.55 | 35.420 | -8.982 | 4135.28 |
| 30.870 | 4.55 | 35.420 | -11.315 | 4123.97 |
| 30.870 | 4.55 | 35.420 | -13.129 | 4110.84 |
| 30.870 | 4.55 | 35.420 | -14.943 | 4095.89 |
| 30.456 | 4.55 | 35.006 | -15.739 | 4080.15 |
| 30.456 | 4.55 | 35.006 | -16.516 | 4063.64 |
| 30.456 | 4.55 | 35.006 | -17.035 | 4046.60 |
| 30.456 | 4.55 | 35.006 | -17.726 | 4028.88 |
| 30.456 | 4.55 | 35.006 | -19.627 | 4009.25 |
| 30.456 | 4.55 | 35.006 | -19.886 | 3989.37 |
| 30.456 | 4.55 | 35.006 | -19.799 | 3969.57 |
| 28.563 | 4.55 | 33.113 | -18.338 | 3951.23 |
| 28.563 | 4.55 | 33.113 | -18.598 | 3932.63 |
| 28.563 | 4.55 | 33.113 | -19.375 | 3913.25 |
| 28.563 | 4.55 | 33.113 | -20.153 | 3893.10 |
| 28.563 | 4.55 | 33.113 | -20.671 | 3872.43 |
| 28.563 | 4.55 | 33.113 | -20.498 | 3851.93 |
| 28.563 | 4.55 | 33.113 | -19.289 | 3832.64 |
| 29.560 | 4.55 | 34.110 | -19.595 | 3813.05 |
| 29.560 | 4.55 | 34.110 | -12.078 | 3800.97 |
| 29.560 | 4.55 | 34.110 | -9.399 | 3791.57 |
| 29.560 | 4.55 | 34.110 | -4.820 | 3786.75 |
| 29.560 | 4.55 | 34.110 | -3.092 | 3783.66 |
| 29.560 | 4.55 | 34.110 | -2.919 | 3780.74 |
| 29.560 | 4.55 | 34.110 | -2.228 | 3778.51 |
| 36.292 | 4.55 | 40.842 | -8.355 | 3770.16 |
| 36.292 | 4.55 | 40.842 | -8.874 | 3761.28 |
| 36.292 | 4.55 | 40.842 | -10.602 | 3750.68 |
| 36.292 | 4.55 | 40.842 | -13.366 | 3737.31 |
| 36.292 | 4.55 | 40.842 | -16.131 | 3721.18 |
| 36.292 | 4.55 | 40.842 | -17.514 | 3703.67 |
| 36.292 | 4.55 | 40.842 | -18.291 | 3685.38 |
| 35.284 | 4.55 | 39.834 | -18.406 | 3666.97 |
| 35.284 | 4.55 | 39.834 | -19.098 | 3647.87 |
| 35.284 | 4.55 | 39.834 | -20.134 | 3627.74 |
| 35.284 | 4.55 | 39.834 | -20.998 | 3606.74 |
| 35.284 | 4.55 | 39.834 | -19.702 | 3587.04 |
| 35.284 | 4.55 | 39.834 | -17.542 | 3569.50 |
| 35.284 | 4.55 | 39.834 | -21.258 | 3548.24 |
| 35.508 | 4.55 | 40.058 | -22.432 | 3525.81 |
| 35.508 | 4.55 | 40.058 | -23.037 | 3502.77 |
| 35.508 | 4.55 | 40.058 | -23.382 | 3479.39 |
| 35.508 | 4.55 | 40.058 | -24.246 | 3455.14 |
| 35.508 | 4.55 | 40.058 | -24.074 | 3431.07 |
| 35.508 | 4.55 | 40.058 | -23.469 | 3407.60 |
| 35.508 | 4.55 | 40.058 | -17.334 | 3390.27 |
| 36.628 | 4.55 | 41.178 | -8.864 | 3381.40 |

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|-----------|-------|--------|------|-------|
| 27-MAR-76 | 0.545 | 47.088 | 33.1 | 1.849 |
| 28-MAR-76 | 0.536 | 46.310 | 33.1 | 1.849 |
| 29-MAR-76 | 0.519 | 44.842 | 33.1 | 1.849 |
| 30-MAR-76 | 0.479 | 41.386 | 33.1 | 1.849 |
| 31-MAR-76 | 0.448 | 38.707 | 33.1 | 1.849 |
| 01-APR-76 | 0.449 | 38.794 | 25.7 | 1.436 |
| 02-APR-76 | 0.402 | 34.733 | 25.7 | 1.436 |
| 03-APR-76 | 0.358 | 30.931 | 25.7 | 1.436 |
| 04-APR-76 | 0.328 | 28.339 | 25.7 | 1.436 |
| 05-APR-76 | 0.298 | 25.747 | 25.7 | 1.436 |
| 06-APR-76 | 0.270 | 23.328 | 25.7 | 1.436 |
| 07-APR-76 | 0.252 | 21.773 | 25.7 | 1.436 |
| 08-APR-76 | 0.231 | 19.958 | 22.6 | 1.263 |
| 09-APR-76 | 0.217 | 18.749 | 22.6 | 1.263 |
| 10-APR-76 | 0.211 | 18.230 | 22.6 | 1.263 |
| 11-APR-76 | 0.202 | 17.453 | 22.6 | 1.263 |
| 12-APR-76 | 0.183 | 15.811 | 22.6 | 1.263 |
| 13-APR-76 | 0.183 | 15.811 | 22.6 | 1.263 |
| 14-APR-76 | 0.178 | 15.379 | 22.6 | 1.263 |
| 15-APR-76 | 0.162 | 13.997 | 19.1 | 1.067 |
| 16-APR-76 | 0.158 | 13.651 | 19.1 | 1.067 |
| 17-APR-76 | 0.146 | 12.614 | 19.1 | 1.067 |
| 18-APR-76 | 0.142 | 12.269 | 19.1 | 1.067 |
| 19-APR-76 | 0.136 | 11.750 | 19.1 | 1.067 |
| 20-APR-76 | 0.128 | 11.059 | 19.1 | 1.067 |
| 21-APR-76 | 0.123 | 10.627 | 19.1 | 1.067 |
| 22-APR-76 | 0.120 | 10.368 | 19.9 | 1.112 |
| 23-APR-76 | 0.114 | 9.850 | 19.9 | 1.112 |
| 24-APR-76 | 0.110 | 9.504 | 19.9 | 1.112 |
| 25-APR-76 | 0.107 | 9.245 | 19.9 | 1.112 |
| 26-APR-76 | 0.099 | 8.554 | 19.9 | 1.112 |
| 27-APR-76 | 0.097 | 8.381 | 19.9 | 1.112 |
| 28-APR-76 | 0.094 | 8.122 | 19.9 | 1.112 |
| 29-APR-76 | 0.091 | 7.862 | 23.7 | 1.324 |
| 30-APR-76 | 0.092 | 7.949 | 23.7 | 1.324 |
| 01-MAY-76 | 0.089 | 7.690 | 23.7 | 1.324 |
| 02-MAY-76 | 0.091 | 7.862 | 23.7 | 1.324 |
| 03-MAY-76 | 0.089 | 7.690 | 23.7 | 1.324 |
| 04-MAY-76 | 0.089 | 7.690 | 23.7 | 1.324 |
| 05-MAY-76 | 0.086 | 7.430 | 23.7 | 1.324 |
| 06-MAY-76 | 0.080 | 6.912 | 15.3 | 0.855 |
| 07-MAY-76 | 0.075 | 6.480 | 15.3 | 0.855 |
| 08-MAY-76 | 0.067 | 5.789 | 15.3 | 0.855 |
| 09-MAY-76 | 0.065 | 5.616 | 15.3 | 0.855 |
| 10-MAY-76 | 0.063 | 5.443 | 15.3 | 0.855 |
| 11-MAY-76 | 0.066 | 5.702 | 15.3 | 0.855 |
| 12-MAY-76 | 0.072 | 6.221 | 15.3 | 0.855 |
| 13-MAY-76 | 0.066 | 5.702 | 8.8 | 0.492 |
| 14-MAY-76 | 0.065 | 5.616 | 8.8 | 0.492 |
| 15-MAY-76 | 0.064 | 5.530 | 8.8 | 0.492 |
| 16-MAY-76 | 0.060 | 5.184 | 8.8 | 0.492 |
| 17-MAY-76 | 0.060 | 5.184 | 8.8 | 0.492 |
| 18-MAY-76 | 0.104 | 8.986 | 8.8 | 0.492 |
| 19-MAY-76 | 0.150 | 12.960 | 8.8 | 0.492 |
| 20-MAY-76 | 0.117 | 10.109 | 12.8 | 0.715 |
| 21-MAY-76 | 0.085 | 7.344 | 12.8 | 0.715 |
| 22-MAY-76 | 0.079 | 6.826 | 12.8 | 0.715 |

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|--------|------|--------|----------|---------|
| 37.076 | 4.55 | 41.626 | 5.462 | 2934.06 |
| 37.076 | 4.55 | 41.626 | 4.685 | 2938.75 |
| 37.076 | 4.55 | 41.626 | 3.216 | 2941.97 |
| 37.076 | 4.55 | 41.626 | -0.240 | 2941.72 |
| 37.076 | 4.55 | 41.626 | -2.918 | 2938.81 |
| 28.787 | 4.55 | 33.337 | 5.457 | 2944.26 |
| 28.787 | 4.55 | 33.337 | 1.396 | 2945.66 |
| 28.787 | 4.55 | 33.337 | -2.406 | 2943.25 |
| 28.787 | 4.55 | 33.337 | -4.998 | 2938.26 |
| 28.787 | 4.55 | 33.337 | -7.590 | 2930.67 |
| 28.787 | 4.55 | 33.337 | -10.009 | 2920.66 |
| 28.787 | 4.55 | 33.337 | -11.564 | 2909.09 |
| 25.315 | 4.55 | 29.865 | -9.906 | 2899.19 |
| 25.315 | 4.55 | 29.865 | -11.116 | 2888.07 |
| 25.315 | 4.55 | 29.865 | -11.634 | 2876.44 |
| 25.315 | 4.55 | 29.865 | -12.412 | 2864.03 |
| 25.315 | 4.55 | 29.865 | -14.053 | 2849.97 |
| 25.315 | 4.55 | 29.865 | -14.053 | 2835.92 |
| 25.315 | 4.55 | 29.865 | -14.485 | 2821.43 |
| 21.394 | 4.55 | 25.944 | -11.947 | 2809.49 |
| 21.394 | 4.55 | 25.944 | -12.293 | 2797.19 |
| 21.394 | 4.55 | 25.944 | -13.330 | 2783.86 |
| 21.394 | 4.55 | 25.944 | -13.675 | 2770.19 |
| 21.394 | 4.55 | 25.944 | -14.194 | 2755.99 |
| 21.394 | 4.55 | 25.944 | -14.885 | 2741.11 |
| 21.394 | 4.55 | 25.944 | -15.317 | 2725.79 |
| 22.290 | 4.55 | 26.840 | -16.472 | 2709.32 |
| 22.290 | 4.55 | 26.840 | -16.991 | 2692.33 |
| 22.290 | 4.55 | 26.840 | -17.336 | 2674.99 |
| 22.290 | 4.55 | 26.840 | -17.595 | 2657.40 |
| 22.290 | 4.55 | 26.840 | -18.287 | 2639.11 |
| 22.290 | 4.55 | 26.840 | -18.459 | 2620.65 |
| 22.290 | 4.55 | 26.840 | -18.719 | 2601.93 |
| 26.547 | 4.55 | 31.097 | --23.234 | 2578.70 |
| 26.547 | 4.55 | 31.097 | --23.148 | 2555.55 |
| 26.547 | 4.55 | 31.097 | --23.407 | 2532.14 |
| 26.547 | 4.55 | 31.097 | --23.234 | 2508.91 |
| 26.547 | 4.55 | 31.097 | --23.407 | 2485.50 |
| 26.547 | 4.55 | 31.097 | --23.407 | 2462.10 |
| 26.547 | 4.55 | 31.097 | --23.666 | 2438.43 |
| 17.138 | 4.55 | 21.688 | --14.776 | 2423.65 |
| 17.138 | 4.55 | 21.688 | -15.208 | 2408.45 |
| 17.138 | 4.55 | 21.688 | -15.899 | 2392.55 |
| 17.138 | 4.55 | 21.688 | -16.072 | 2376.48 |
| 17.138 | 4.55 | 21.688 | -16.245 | 2360.23 |
| 17.138 | 4.55 | 21.688 | -15.985 | 2344.25 |
| 17.138 | 4.55 | 21.688 | -15.467 | 2328.78 |
| 9.857 | 4.55 | 14.407 | -8.705 | 2320.07 |
| 9.857 | 4.55 | 14.407 | -8.791 | 2311.28 |
| 9.857 | 4.55 | 14.407 | -8.877 | 2302.41 |
| 9.857 | 4.55 | 14.407 | -9.223 | 2293.18 |
| 9.857 | 4.55 | 14.407 | -9.223 | 2283.96 |
| 9.857 | 4.55 | 14.407 | -5.421 | 2278.54 |
| 9.857 | 4.55 | 14.407 | -1.447 | 2277.09 |
| 14.337 | 4.55 | 18.887 | -8.779 | 2268.31 |
| 14.337 | 4.55 | 18.887 | -11.543 | 2256.77 |
| 14.337 | 4.55 | 18.887 | -12.062 | 2244.71 |

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|-----------|-------|-------|------|-------|
| 19-JUL-76 | 0.018 | 1.555 | 12.6 | 0.704 |
| 20-JUL-76 | 0.017 | 1.469 | 12.6 | 0.704 |
| 21-JUL-76 | 0.014 | 1.210 | 12.6 | 0.704 |
| 22-JUL-76 | 0.014 | 1.210 | 6.7 | 0.374 |
| 23-JUL-76 | 0.013 | 1.123 | 6.7 | 0.374 |
| 24-JUL-76 | 0.012 | 1.037 | 6.7 | 0.374 |
| 25-JUL-76 | 0.012 | 1.037 | 6.7 | 0.374 |
| 26-JUL-76 | 0.012 | 1.037 | 6.7 | 0.374 |
| 27-JUL-76 | 0.011 | 0.950 | 6.7 | 0.374 |
| 28-JUL-76 | 0.010 | 0.864 | 6.7 | 0.374 |
| 29-JUL-76 | 0.009 | 0.778 | 10.3 | 0.575 |
| 30-JUL-76 | 0.010 | 0.864 | 10.3 | 0.575 |
| 31-JUL-76 | 0.010 | 0.864 | 10.3 | 0.575 |
| 01-AUG-76 | 0.011 | 0.950 | 10.3 | 0.575 |
| 02-AUG-76 | 0.011 | 0.950 | 10.3 | 0.575 |
| 03-AUG-76 | 0.011 | 0.950 | 10.3 | 0.575 |
| 04-AUG-76 | 0.011 | 0.950 | 10.3 | 0.575 |
| 05-AUG-76 | 0.011 | 0.950 | 10.4 | 0.581 |
| 06-AUG-76 | 0.010 | 0.864 | 10.4 | 0.581 |
| 07-AUG-76 | 0.010 | 0.864 | 10.4 | 0.581 |
| 08-AUG-76 | 0.010 | 0.864 | 10.4 | 0.581 |
| 09-AUG-76 | 0.010 | 0.864 | 10.4 | 0.581 |
| 10-AUG-76 | 0.009 | 0.778 | 10.4 | 0.581 |
| 11-AUG-76 | 0.009 | 0.778 | 10.4 | 0.581 |
| 12-AUG-76 | 0.009 | 0.778 | 7.2 | 0.402 |
| 13-AUG-76 | 0.009 | 0.778 | 7.2 | 0.402 |
| 14-AUG-76 | 0.007 | 0.605 | 7.2 | 0.402 |
| 15-AUG-76 | 0.007 | 0.605 | 7.2 | 0.402 |
| 16-AUG-76 | 0.007 | 0.605 | 7.2 | 0.402 |
| 17-AUG-76 | 0.007 | 0.605 | 7.2 | 0.402 |
| 18-AUG-76 | 0.007 | 0.605 | 7.2 | 0.402 |
| 19-AUG-76 | 0.006 | 0.518 | 4.1 | 0.229 |
| 20-AUG-76 | 0.007 | 0.605 | 4.1 | 0.229 |
| 21-AUG-76 | 0.006 | 0.518 | 4.1 | 0.229 |
| 22-AUG-76 | 0.006 | 0.518 | 4.1 | 0.229 |
| 23-AUG-76 | 0.006 | 0.518 | 4.1 | 0.229 |
| 24-AUG-76 | 0.006 | 0.518 | 4.1 | 0.229 |
| 25-AUG-76 | 0.007 | 0.605 | 4.1 | 0.229 |
| 26-AUG-76 | 0.007 | 0.605 | 4.6 | 0.257 |
| 27-AUG-76 | 0.006 | 0.518 | 4.6 | 0.257 |
| 28-AUG-76 | 0.007 | 0.605 | 4.6 | 0.257 |
| 29-AUG-76 | 0.014 | 1.210 | 4.6 | 0.257 |
| 30-AUG-76 | 0.075 | 6.480 | 4.6 | 0.257 |
| 31-AUG-76 | 0.024 | 2.074 | 4.6 | 0.257 |
| 01-SEP-76 | 0.017 | 1.469 | 4.6 | 0.257 |
| 02-SEP-76 | 0.014 | 1.210 | 4.4 | 0.246 |
| 03-SEP-76 | 0.013 | 1.123 | 4.4 | 0.246 |
| 04-SEP-76 | 0.013 | 1.123 | 4.4 | 0.246 |
| 05-SEP-76 | 0.012 | 1.037 | 4.4 | 0.246 |
| 06-SEP-76 | 0.011 | 0.950 | 4.4 | 0.246 |
| 07-SEP-76 | 0.011 | 0.950 | 4.4 | 0.246 |
| 08-SEP-76 | 0.010 | 0.864 | 4.4 | 0.246 |
| 09-SEP-76 | 0.012 | 1.037 | 7.7 | 0.430 |
| 10-SEP-76 | 0.047 | 4.061 | 7.7 | 0.430 |
| 11-SEP-76 | 0.033 | 2.851 | 7.7 | 0.430 |
| 12-SEP-76 | 0.027 | 2.333 | 7.7 | 0.430 |
| 13-SEP-76 | 0.023 | 1.987 | 7.7 | 0.430 |

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|-------|------|--------|---------|---------|
| 4.113 | 4.55 | 18.663 | -17.108 | 1780.71 |
| 4.113 | 4.55 | 18.663 | -17.195 | 1763.51 |
| 4.113 | 4.55 | 18.663 | -17.454 | 1746.06 |
| 7.505 | 4.55 | 12.055 | -10.845 | 1735.21 |
| 7.505 | 4.55 | 12.055 | -10.932 | 1724.28 |
| 7.505 | 4.55 | 12.055 | -11.018 | 1713.26 |
| 7.505 | 4.55 | 12.055 | -11.018 | 1702.25 |
| 7.505 | 4.55 | 12.055 | -11.018 | 1691.23 |
| 7.505 | 4.55 | 12.055 | -11.104 | 1680.12 |
| 7.505 | 4.55 | 12.055 | -11.191 | 1668.93 |
| 1.537 | 4.55 | 16.087 | -15.310 | 1653.62 |
| 1.537 | 4.55 | 16.087 | -15.223 | 1638.40 |
| 1.537 | 4.55 | 16.087 | -15.223 | 1623.18 |
| 1.537 | 4.55 | 16.087 | -15.137 | 1608.04 |
| 1.537 | 4.55 | 16.087 | -15.137 | 1592.90 |
| 1.537 | 4.55 | 16.087 | -15.137 | 1577.77 |
| 1.537 | 4.55 | 16.087 | -15.137 | 1562.63 |
| 1.649 | 4.55 | 16.199 | -15.249 | 1547.38 |
| 1.649 | 4.55 | 16.199 | -15.335 | 1532.05 |
| 1.649 | 4.55 | 16.199 | -15.335 | 1516.71 |
| 1.649 | 4.55 | 16.199 | -15.335 | 1501.38 |
| 1.649 | 4.55 | 16.199 | -15.335 | 1486.04 |
| 1.649 | 4.55 | 16.199 | -15.422 | 1470.62 |
| 1.649 | 4.55 | 16.199 | -15.422 | 1455.20 |
| 8.065 | 4.55 | 12.615 | -11.837 | 1443.36 |
| 8.065 | 4.55 | 12.615 | -11.837 | 1431.52 |
| 8.065 | 4.55 | 12.615 | -12.010 | 1419.51 |
| 8.065 | 4.55 | 12.615 | -12.010 | 1407.50 |
| 8.065 | 4.55 | 12.615 | -12.010 | 1395.49 |
| 8.065 | 4.55 | 12.615 | -12.010 | 1383.48 |
| 8.065 | 4.55 | 12.615 | -12.010 | 1371.47 |
| 4.592 | 4.55 | 9.142 | -8.624 | 1362.85 |
| 4.592 | 4.55 | 9.142 | -8.538 | 1354.31 |
| 4.592 | 4.55 | 9.142 | -8.624 | 1345.69 |
| 4.592 | 4.55 | 9.142 | -8.624 | 1337.06 |
| 4.592 | 4.55 | 9.142 | -8.624 | 1328.44 |
| 4.592 | 4.55 | 9.142 | -8.624 | 1319.81 |
| 4.592 | 4.55 | 9.142 | -8.538 | 1311.28 |
| 5.153 | 4.55 | 9.703 | -9.098 | 1302.18 |
| 5.153 | 4.55 | 9.703 | -9.184 | 1293.00 |
| 5.153 | 4.55 | 9.703 | -9.098 | 1283.90 |
| 5.153 | 4.55 | 9.703 | -8.493 | 1275.40 |
| 5.153 | 4.55 | 9.703 | -3.223 | 1272.18 |
| 5.153 | 4.55 | 9.703 | -7.629 | 1264.55 |
| 5.153 | 4.55 | 9.703 | -8.234 | 1256.32 |
| 4.928 | 4.55 | 9.478 | -8.269 | 1248.05 |
| 4.928 | 4.55 | 9.478 | -8.355 | 1239.70 |
| 4.928 | 4.55 | 9.478 | -8.355 | 1231.34 |
| 4.928 | 4.55 | 9.478 | -8.442 | 1222.90 |
| 4.928 | 4.55 | 9.478 | -8.528 | 1214.37 |
| 4.928 | 4.55 | 9.478 | -8.528 | 1205.84 |
| 4.928 | 4.55 | 9.478 | -8.614 | 1197.23 |
| 8.625 | 4.55 | 13.175 | -12.138 | 1185.09 |
| 8.625 | 4.55 | 13.175 | -9.114 | 1175.98 |
| 8.625 | 4.55 | 13.175 | -10.324 | 1165.65 |
| 8.625 | 4.55 | 13.175 | -10.842 | 1154.81 |
| 8.625 | 4.55 | 13.175 | -11.188 | 1143.62 |

| | | | | |
|-----------|-------|---------|-------|-------|
| 10-NOV-76 | 0.668 | 57.715 | 20.1 | 1.123 |
| 11-NOV-76 | 0.577 | 49.853 | 20.7 | 1.156 |
| 12-NOV-76 | 0.508 | 43.891 | 20.7 | 1.156 |
| 13-NOV-76 | 0.453 | 39.139 | 20.7 | 1.156 |
| 14-NOV-76 | 0.416 | 35.942 | 20.7 | 1.156 |
| 15-NOV-76 | 0.401 | 34.646 | 20.7 | 1.156 |
| 16-NOV-76 | 0.389 | 33.610 | 20.7 | 1.156 |
| 17-NOV-76 | 0.380 | 32.832 | 20.7 | 1.156 |
| 18-NOV-76 | 0.388 | 33.523 | 22.2 | 1.240 |
| 19-NOV-76 | 0.339 | 29.290 | 22.2 | 1.240 |
| 20-NOV-76 | 0.317 | 27.389 | 22.2 | 1.240 |
| 21-NOV-76 | 0.302 | 26.093 | 22.2 | 1.240 |
| 22-NOV-76 | 0.283 | 24.451 | 22.2 | 1.240 |
| 23-NOV-76 | 0.273 | 23.587 | 22.2 | 1.240 |
| 24-NOV-76 | 0.267 | 23.069 | 22.2 | 1.240 |
| 25-NOV-76 | 0.261 | 22.550 | 26.9 | 1.503 |
| 26-NOV-76 | 0.256 | 22.118 | 26.9 | 1.503 |
| 27-NOV-76 | 0.251 | 21.686 | 26.9 | 1.503 |
| 28-NOV-76 | 0.463 | 40.003 | 26.9 | 1.503 |
| 29-NOV-76 | 0.491 | 42.422 | 26.9 | 1.503 |
| 30-NOV-76 | 1.640 | 141.696 | 26.9 | 1.503 |
| 01-DEC-76 | 2.234 | 193.018 | 26.9 | 1.503 |
| 02-DEC-76 | 2.146 | 185.414 | 28.27 | 1.579 |
| 03-DEC-76 | 1.684 | 145.498 | 28.27 | 1.579 |
| 04-DEC-76 | 1.254 | 108.346 | 28.27 | 1.579 |
| 05-DEC-76 | 1.126 | 97.286 | 28.27 | 1.579 |
| 06-DEC-76 | 0.990 | 85.536 | 28.27 | 1.579 |
| 07-DEC-76 | 1.064 | 91.930 | 28.27 | 1.579 |
| 08-DEC-76 | 1.138 | 98.323 | 28.27 | 1.579 |
| 09-DEC-76 | 1.144 | 98.842 | 27.56 | 1.540 |
| 10-DEC-76 | 1.049 | 90.634 | 27.56 | 1.540 |
| 11-DEC-76 | 0.912 | 78.797 | 27.56 | 1.540 |
| 12-DEC-76 | 0.771 | 66.614 | 27.56 | 1.540 |
| 13-DEC-76 | 0.662 | 57.197 | 27.56 | 1.540 |
| 14-DEC-76 | 0.568 | 49.075 | 27.56 | 1.540 |
| 15-DEC-76 | 0.502 | 43.373 | 27.56 | 1.540 |
| 16-DEC-76 | 0.476 | 41.126 | 27.19 | 1.519 |
| 17-DEC-76 | 0.648 | 55.987 | 27.19 | 1.519 |
| 18-DEC-76 | 0.595 | 51.408 | 27.19 | 1.519 |
| 19-DEC-76 | 0.665 | 57.456 | 27.19 | 1.519 |
| 20-DEC-76 | 0.755 | 65.232 | 27.19 | 1.519 |
| 21-DEC-76 | 0.766 | 66.182 | 27.19 | 1.519 |
| 22-DEC-76 | 0.724 | 62.554 | 27.19 | 1.519 |
| 23-DEC-76 | 0.650 | 56.160 | 25.5 | 1.425 |
| 24-DEC-76 | 0.582 | 50.285 | 25.5 | 1.425 |
| 25-DEC-76 | 0.537 | 46.397 | 25.5 | 1.425 |
| 26-DEC-76 | 0.500 | 43.200 | 25.5 | 1.425 |
| 27-DEC-76 | 0.477 | 41.213 | 25.5 | 1.425 |
| 28-DEC-76 | 0.438 | 37.843 | 25.5 | 1.425 |
| 29-DEC-76 | 0.414 | 35.770 | 25.5 | 1.425 |
| 30-DEC-76 | 0.533 | 46.051 | 26.39 | 1.474 |
| 31-DEC-76 | 0.533 | 46.051 | 26.39 | 1.474 |

Average Abs 17.8993

| | | | | |
|--------|------|--------|---------|---------|
| 22.514 | 4.55 | 27.064 | 30.651 | 4967.30 |
| 23.186 | 4.55 | 27.736 | 22.116 | 4989.42 |
| 23.186 | 4.55 | 27.736 | 16.155 | 5005.57 |
| 23.186 | 4.55 | 27.736 | 11.403 | 5016.97 |
| 23.186 | 4.55 | 27.736 | 8.206 | 5025.18 |
| 23.186 | 4.55 | 27.736 | 6.910 | 5032.09 |
| 23.186 | 4.55 | 27.736 | 5.873 | 5037.96 |
| 23.186 | 4.55 | 27.736 | 5.096 | 5043.06 |
| 24.866 | 4.55 | 29.416 | 4.107 | 5047.17 |
| 24.866 | 4.55 | 29.416 | -0.127 | 5047.04 |
| 24.866 | 4.55 | 29.416 | -2.028 | 5045.01 |
| 24.866 | 4.55 | 29.416 | -3.324 | 5041.69 |
| 24.866 | 4.55 | 29.416 | -4.965 | 5036.72 |
| 24.866 | 4.55 | 29.416 | -5.829 | 5030.89 |
| 24.866 | 4.55 | 29.416 | -6.348 | 5024.54 |
| 30.131 | 4.55 | 34.681 | -12.131 | 5012.41 |
| 30.131 | 4.55 | 34.681 | -12.563 | 4999.85 |
| 30.131 | 4.55 | 34.681 | -12.995 | 4986.86 |
| 30.131 | 4.55 | 34.681 | 5.322 | 4992.18 |
| 30.131 | 4.55 | 34.681 | 7.741 | 4999.92 |
| 30.131 | 4.55 | 34.681 | 107.015 | 5106.94 |
| 30.131 | 4.55 | 34.681 | 158.337 | 5265.27 |
| 31.666 | 4.55 | 36.216 | 149.199 | 5404.00 |
| 31.666 | 4.55 | 36.216 | 109.282 | 5404.00 |
| 31.666 | 4.55 | 36.216 | 72.130 | 5404.00 |
| 31.666 | 4.55 | 36.216 | 61.071 | 5404.00 |
| 31.666 | 4.55 | 36.216 | 49.320 | 5404.00 |
| 31.666 | 4.55 | 36.216 | 55.714 | 5404.00 |
| 31.666 | 4.55 | 36.216 | 62.108 | 5404.00 |
| 30.870 | 4.55 | 35.420 | 63.421 | 5404.00 |
| 30.870 | 4.55 | 35.420 | 55.213 | 5404.00 |
| 30.870 | 4.55 | 35.420 | 43.377 | 5404.00 |
| 30.870 | 4.55 | 35.420 | 31.194 | 5404.00 |
| 30.870 | 4.55 | 35.420 | 21.777 | 5404.00 |
| 30.870 | 4.55 | 35.420 | 13.655 | 5404.00 |
| 30.870 | 4.55 | 35.420 | 7.953 | 5404.00 |
| 30.456 | 4.55 | 35.006 | 6.121 | 5404.00 |
| 30.456 | 4.55 | 35.006 | 20.981 | 5404.00 |
| 30.456 | 4.55 | 35.006 | 16.402 | 5404.00 |
| 30.456 | 4.55 | 35.006 | 22.450 | 5404.00 |
| 30.456 | 4.55 | 35.006 | 30.226 | 5404.00 |
| 30.456 | 4.55 | 35.006 | 31.177 | 5404.00 |
| 30.456 | 4.55 | 35.006 | 27.548 | 5404.00 |
| 28.563 | 4.55 | 33.113 | 23.047 | 5404.00 |
| 28.563 | 4.55 | 33.113 | 17.172 | 5404.00 |
| 28.563 | 4.55 | 33.113 | 13.284 | 5404.00 |
| 28.563 | 4.55 | 33.113 | 10.087 | 5404.00 |
| 28.563 | 4.55 | 33.113 | 8.100 | 5404.00 |
| 28.563 | 4.55 | 33.113 | 4.730 | 5404.00 |
| 28.563 | 4.55 | 33.113 | 2.657 | 5404.00 |
| 29.560 | 4.55 | 34.110 | 11.941 | 5404.00 |
| 29.560 | 4.55 | 34.110 | 11.941 | 5404.00 |