NRA South West 106

Environmental Protection
Final Draft Report

EAST DEVON PUBLIC WATER SUPPLY STRATEGY AS ASSESSMENT OF THE HYDROLOGICAL IMPACT OF THE WIMBLEBALL PUMP STORAGE SCHEME AT KEY SITES ON THE RIVER EXE

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CONTENTS

LIST OF ABBREVIATIONS

ADF	Average Daily Flow
ExeSim	Computer model used by SWWSL to assess the impact of the pumped storage scheme
Km	Kilometres
Ml	Mega Litres
Ml/d	Mega Litres per day
cumecs	Cubic Metres per second
NRA (SW)	National Rivers Authority (South West)
Q	Discharge
SWWSL	South West Water Services Limited

Summary

SWWSL applied for a licence to abstract water from the River Exe at Exebridge for pump storage of Wimbleball Reservoir. As part of the determination of this application NRA SW undertook an assessment of the potential hydrological impact of the scheme at key sites on the River Exe between Exebridge and St. James Weir, the tidal limit.

The assessment considered the impact of the scheme in relation to both the natural and existing situation. The results are presented as hydrographs and flow duration curves and are described in terms of percentage changes in flow or exceedence statistics (Q50 and Q95).

Downstream of Exebridge the flows in the River Exe from January to March 1976 inclusive would be reduced by about 13% due to the abstraction. Further downstream the impact would be reduced, although downstream of Northbridge flows would be reduced by about 12% due to the increased abstraction of unsupported river water. There would, as a result of the scheme, be positive changes in the Q95 flow in comparison to the existing situation and negative changes in the Q50.

The leat abstractions, particulary those at Thorverton and Pynes have the potential to create significant deprived reaches in the main river. Although the increased release of water for public water supply under the pump storage scheme would lead to increased summer flows in these deprived reaches, particularly at Oakfordbridge and Highleigh, the impact of the scheme is small relative to the potential impact of the leat abstractions.

This assessment has broadly confirmed the results of SWWSL study. Differences between the statistics presented by SWWSL and the NRA generally reflect the use of different assumptions in the modelling exercise.

It is recommended that the impact of the pumped storage scheme should be reassessed following further development of the scheme operating rules in the Operational Management Strategy.

It is also recommended that data is collected at the leat abstractions to define the actual flow split between the river and the leat to enable the actual impact of the leat abstractions to be quantified.

2.0 Licence Conditions and Operating assumptions

2.1 Pump Storage Scheme: Exebridge

The operating rules proposed by SWWSL in their supporting documentation Hydrological Results Scenario 3 Appendix A9 (RP-PLA-1981AO-037(01)) are listed below. These rules were used by SWWSL in the ExeSim model and have been adopted by the NRA in assessing the potential hydrological impact of the scheme.

Abstraction at Exebridge only if the following reservoir storage volumes are not exceeded - Nov 6396 Ml, Dec 14924 Ml, Jan 14924 Ml, Feb 18122 Ml, Mar 20254 Ml, Apr 21320 Ml (full), May 21320 Ml (full).

Abstraction at Exebridge during the period November to May only.

No abstraction if Q<100 Ml/d at Exebridge. Abstraction not to reduce flow below 100 Ml/d.

Abstraction at Exebridge only if flow is less than 1400 Ml/d

Minimum rate of abstraction of 10 Ml/d

Maximum abstraction of 150 Ml/d

50% Take rule at Exebridge

Daily decision making

These rules are not exactly the same as those that were finally licensed by the NRA. However the rules are realistic and using these made auditing SWWSL supporting documentation more straight forward.

2.2 Selection of Key Sites

The sites used in this assessment include the proposed pumping site at Exebridge, the public water supply abstraction at Northbridge, the large licensed non public water supply abstractions from the River Exe at Highleigh Mill, Oakfordbridge, Heathcoats-Tiverton, Thorverton leat and Pynes leat, and the tidal limit (see Figure 1). Exebridge and Northbridge were chosen for their proximity to the key public water supply abstractions. The non public water supply abstractions were selected as the sites most likely to be affected by any change in the flow regime. The tidal limit was selected because of the NRAs interest in flows to the estuary.

SWWSL also considered Exebridge, up and downstream of Highleigh Mill and Oakfordbridge Fish Farms, up and downstream of the Northbridge abstraction and the tidal limit.

Table 1a: Authorised abstraction quantities for other large licensed abstractions.

Licence No.	Approx. Location	NGR	Daily rate	Annual rate	No. days/year at max. daily rate
02/1906	Heathcoats Tiverton	SS 949 138	600295 m^3 600 Ml	54545455 m^3 54545 Ml	90
02/1927	Thorverton leat	SS 935 019	247259 m^3 247 Ml	76236818 m^3 76236 Ml	308
02/1923	Pynes	SX 917 962	873930 m^3 873 Ml	159060000 m^3 159060 Ml	18

The annual authorised volumes prevent abstraction at the maximum daily rate for 365 days. At Heathcoats abstraction the maximum daily rate is limited to 90 days, at Thorverton its limited to 308 days and at Pynes it is limited to 18 days.

In order to assess the potential impact of the pump storage scheme on the licensed abstractions at Heathcoats-Tiverton, Thorverton leat and Pynes leat an assumption had to be made regarding the pattern of abstraction at each site over the 1975-76 design drought.

In the absence of returns data the patterns shown in Table 1b were applied to distribute the abstraction over each year in the design drought sequence.

Table 1b: Abstraction periods for other large licensed abstractions.

Site	May-Aug 123 days	Sept-April 242 days
Heathcoats Tiverton	74.7 Ml (0.865 cumecs)	187.5 Ml (2.170 cumecs)
Thorverton leat	104.4 Ml (1.211 cumecs)	261.9 Ml (3.032 cumecs)
Pynes	217.9 Ml (2.528 cumecs)	546.5 Ml (6.325 cumecs)

The pattern used at each site is composed of two rates. A higher rate from

3.2 Existing Flows

The existing situation represents an estimate of what flows would be if the current Wimbleball system were operated with 1991 demands. These demands are listed below:

Maundown 23.66 Ml/d
Allers 21.11 Ml/d
Pynes 35.0 Ml/d

Monthly demand patterns agreed at the Exe Hydrology sub-group, and presented in the Demand Patterns Appendix A7 (RP-PLA-1981AO-035(01)), have been applied to the data to represent seasonal demand variations.

The existing flow at each site has been calculated in a Lotus 123 spreadsheet using the appropriate equation from the list in Appendix 3. The Public Water Supply Release (PWS in Appendix 4), Bolham Abstraction (Supply Allers in Appendix 4) and Northbridge Abstraction (Supply Pynes in Appendix 4) are all taken from SWWSL Case U ExeSim output reproduced in Appendix 4 of this report. Other assumptions used in the calculation include:

* constant compensation release of 9.1 Ml/d
* no Exe - Taw transfer
* Transmission losses allowed for in the public water supply release carry on through the system.
* Partial releases and daily decision making.
* Tiverton STW Return equal to 3.44 Ml/d
* Wimbleball reservoir inflow equal to Stoodleigh naturalised flow * 0.059

These assumptions are not exactly the same as those used by SWWSL. Nevertheless, the information presented in this report is broadly comparable to that produced by SWWSL and presented in Hydrological Results Scenario 3 Appendix A9 (RP-PLA-1981AO-037(01)).

3.3 Pumped Storage Flows

The pumped storage flows represent an estimate of the flow that would occur if the proposed scheme were implemented and run at 2021 demand, subject to the reservoir not failing during the 1975-76 design drought. The demands are listed below.

Maundown 31.82 Ml/d
Allers 27.39 Ml/d
Pynes 65.5 Ml/d

The demand patterns used in the analysis of the existing situation have also been applied. The proposed operating rules described in Section 2.1 of this

4.12 Upstream and downstream of Highleigh Mill Fish Farm

Figure 3 presents flows for Highleigh Mill Fish Farm immediately upstream of the abstraction. The impact of the increased augmentation releases for public water supply have increased the pumped storage scenario flows above the existing and natural hydrographs in the summer months. In the winter, especially from January to March 1976 inclusive pumping at Exebridge to top up the reservoir would reduce the flow at Highleigh. At times the hydrograph representing the pumped storage scenario is 150 Ml/d (1.740 cumecs) (the proposed maximum pumping rate) below the existing hydrograph. However, as Highleigh Mill is about 2 Km downstream from Exebridge and below the River Brockey the impact of the Exebridge abstraction is less at Highleigh Mill than at Exebridge itself. On average from January to March inclusive flow immediately upstream of Highleigh Mill would be 12 % lower than the existing flow due to the proposed scheme. Conversely in July 1976 flow at Highleigh would be 49 % higher than the existing flow.

Figure 4 compares the existing flow immediately upstream of the abstraction at Highleigh Mill with the flow between the abstraction and discharge points. During the summer months the abstraction of 73.4 Ml/d (0.850 cumecs) significantly reduces flow in the river below the abstraction point. Indeed, in 1976 the abstraction would completely dry the reach immediately downstream for 18 days.

Figure 5 compares the pumped storage scenario flow immediately upstream of the abstraction with the flow between the abstraction and discharge points. Whilst the abstraction for the fish farm significantly reduces flow in the river immediately below the abstraction point there is flow in the deprived reach throughout the 1975/76 summer and it is similar to that which would occur under natural conditions (See Figure 3).

4.13 Upstream and downstream of Oakfordbridge Fish Farm

Figure 6 presents flows for Oakfordbridge Fish Farm immediately upstream of the abstraction. The impact of the increased augmentation releases for public water supply have increased the pumped storage scenario flows above the existing and natural hydrographs in the summer months. In the winter, especially from January to March 1976 inclusive pumping at Exebridge to top up the reservoir would reduce the flow at Oakfordbridge. However, as Oakfordbridge, like Highleigh Mill, is below the River Brockey the impact of the Exebridge abstraction is less at Oakfordbridge than at Exebridge itself. On average from January to March inclusive flow immediately upstream of Oakfordbridge would be 12 % lower than the existing flow due to the proposed scheme. Conversely, in July 1976 flow at Oakfordbridge would be 48 % higher than the existing flow.

Figure 7 compares the existing flow immediately upstream of the abstraction at Oakfordbridge with the flow between the abstraction and discharge points. During the summer months the abstraction of 104 Ml/d (1.206 cumecs)

4.15 Upstream and downstream of Thorverton Leat

Figure 12 presents flows for Thorverton immediately upstream of the leat abstraction. The pumped storage scenario flows are higher than the existing and natural hydrographs in the summer months due to the increased augmentation releases. However as about 30% of the water released for augmentation is abstracted at Bolham and relatively little returns via Tiverton STW both the existing and pumped storage flows are nearer the natural hydrograph at Thorverton than at Oakfordbridge or Highleigh. As Thorverton is downstream of Tiverton STW it benefits from the STW effluent return.

Pumping at Exebridge to top up the reservoir and increased unsupported abstraction at Bolham would reduce the flow upstream of Thorverton in the winter, particularly from January to March 1976 inclusive. On average over this period flow immediately upstream of Thorverton would be 9 % lower than the existing flow due to the proposed scheme. Conversely in July 1976 the pump storage flow at Thorverton would be 32 % higher than the existing flow.

Figure 13 compares the existing flow immediately upstream of the leat abstraction at Thorverton with the flow between the abstraction and discharge points. The 104.4 Ml/d (1.211 cumecs) abstraction during the summer months (May-Aug) significantly reduces flow in the river below the abstraction point. The deprived reach would be dry for 22 days in 1975 and 57 days in 1976. Because of the increased abstraction in the winter (261.9 Ml/d) (3.038 cumecs), beginning in September, the reach immediately below the abstraction would be dry in September and November 1975 and September 1976. Flow would also be significantly depleted during October, November and December 1975 and much of 1976.

Figure 14 compares the pumped storage scenario flow immediately upstream of the abstraction with the flow between the abstraction and discharge points. Whilst the abstraction for the leat still significantly reduces flow in the river immediately below the abstraction point there would, as a result of the increased augmentation release, be flow in the deprived reach throughout the May to August summer period. This flow would be similar to that which would occur under natural conditions. However, during September 1975 and September 1976 the leat would still be dry due to the larger winter abstraction (261.9 Ml/d) (3.038 cumecs). Thus, despite there being more water at Thorverton than at Heathcoats, the size of the abstraction is such that the river immediately below the abstraction at Thorverton would be dry for longer than at Heathcoats.

4.16 Downstream of Northbridge

Figure 15 presents flows for Northbridge immediately downstream of the abstraction. The increased augmentation releases for public water supply in the summer have virtually no impact on flow immediately downstream of Northbridge. The water remaining downstream of the Bolham abstraction is depleted during the remaining winter months in 1975 and 1976.

Figure 18 compares the pumped storage scenario flow immediately upstream of the abstraction with the flow between the abstraction and discharge points. The abstraction for the leat significantly reduces flow in the river immediately below the abstraction. As Pynes is downstream of Northbridge it does not enjoy the full benefit of the increased augmentation release under the pumped storage scenario. Consequently, the pumped storage flow is virtually the same as the existing flow in the summer and the deprived stretch would be dry for 294 days. In the event of the abstraction at Exebridge and increased abstraction of unsupported river water at Bolham and Northbridge the deprived reach would be dry for longer under the pump storage scenario than under the existing conditions.

For much of the design drought sequence there would be insufficient water in the river to meet in full the authorised quantities on the Pynes licence. In reality full authorised quantities are not abstracted at Pynes and the available flow is probably split fairly evenly between the leat and the river.

4.18 St James Weir - Tidal Limit

Figure 19 presents flows for the tidal limit at St James Weir. The increased augmentation releases for public water supply in the summer have virtually no impact on flow at the tidal limit. The augmentation releases have been abstracted at Bolham and Northbridge. The pumped storage scenario hydrograph does however plot slightly above the existing situation hydrograph. In the Case U and Scenario 3 output from ExeSim, 10% of the augmentation release is considered to meet transmission losses. In the NRA simulation this transmission loss is left to pass through the system. Consequently, more transmission loss water is left in the river below Northbridge following the increased augmentation release in Scenario 3.

The abstraction at Exebridge and increased abstraction of river water at Bolham and Northbridge, when flow at Thorverton is above the prescribed level, would reduce flow during the winter. Consequently the pumped storage hydrograph plots below the existing hydrograph. From January to March 1976 inclusive the pumped storage flow at St James Weir would be 8 % lower than the existing flow. However the impact of the abstraction at Exebridge and increased unsupported abstraction at Bolham and Northbridge would be reduced at the tidal limit due to the contributions of the Rivers Culm and Creedy.

releases for public water supply compensate for the impact of the fish farm abstraction and about the same amount of water is left in the deprived reach under the pumped storage scenario as under natural conditions. Under natural conditions there are neither abstractions or discharges and all the flow is considered to be contained within the main channel.

4.23 Upstream and downstream of Oakfordbridge Fish Farm

Figure 23 presents flow duration curves for 1975-76 immediately upstream of Oakfordbridge Fish Farm for the natural, existing and pumped scenarios. The impact of the abstraction at Exebridge on the flow upstream of Oakfordbridge is very similar to its impact upstream of Highleigh. The abstraction at Exebridge under the pump storage scenario would cause some reduction in flow throughout the range Q10 to Q60. The largest difference between the pumped storage and existing flow duration curve would occur at approximately Q50. The 1975-76 Q50 would decrease from 4.409 cumecs to 3.800 cumecs. At the low flow end of the flow duration curve increased releases for public water supply would result in an increase in the Q95 flow from 1.034 cumecs to 1.532 cumecs. At exceedence percentiles less than Q60 the existing and pumped storage flow duration curves plot below the natural flow duration curve. At exceedence percentiles greater than Q60 the existing and pumped storage flow duration curves plot above the natural curve.

The flow duration curves for the natural, existing and pumped storage scenarios immediately downstream of the fish farm abstraction are shown in Figure 24. Both the existing and the pumped storage curves have been shifted down by 1.206 cumecs (104 Ml/d) due to the fish farm abstraction. Under the existing situation the river immediately below the abstraction would be dry for 83 days or 11 % of the time in 1975-76. The Q95 would be equivalent to 0 cumecs. Under the pumped storage scenario there would be flow in the deprived reach throughout 1975-76 and the Q95 would be equivalent to 0.360 cumecs. The position of the natural flow duration curve is unchanged.

The differences between the pumped storage and existing curves reflects the impact of the Exebridge abstraction. Again the largest difference occurs at approximately Q50.

At low flows the increased releases for public water supply compensate, in part, for the impact of the fish farm abstraction.

4.24 Upstream and downstream of Heathcoats-Tiverton Leat Abstraction

Figure 25 presents flow duration curves for 1975-76 immediately upstream of Heathcoats leat abstraction for the natural, existing and pumped scenarios. The impact of the abstraction at Exebridge on the flow upstream of Heathcoats is still evident throughout the range Q10 to Q60. The largest difference between the pumped storage and existing flow duration curve would again occur at approximately Q50. The 1975-76 Q50 would decrease from 5.445

due to the abstraction of 1.211 cumecs (104.4 Ml/d) between May to August inclusive and 3.032 cumecs (261.9 Ml/d) between September to April inclusive. Under the existing situation the river immediately below the abstraction would be dry for 79 days or 11 % of the time in 1975-76. The Q95 would be equivalent to 0 cumecs. Under the pumped storage scenario there would not be flow in the deprived reach throughout 1975-76. It would be dry for 42 days or 6% of the time, 37 days or 5% less than under the existing situation. However the Q95 would still be equivalent to 0 cumecs. The position of the natural flow duration curve is unchanged.

The differences between the pumped storage and existing curves reflects the impact of the Exebridge abstraction and the net affect of the abstraction at Bolham. Again the largest difference occurs at approximately Q50. The increased releases for public water supply at low flows do not compensate for the impact of the leat abstraction. The pumped storage flow duration curve in Figure 28 plots well below the curve representing the natural situation.

4.26 Downstream of Northbridge

Figure 29 presents flow duration curves for the two year design drought 1975-76 for Northbridge, immediately downstream of the abstraction. From a comparison of the curves it is clear that the abstraction at Exebridge would have relatively little impact on the flow at Northbridge. Between about Q10 and Q60 there would be some reduction in flow due to the abstraction at Exebridge and the increased abstraction of river water at Bolham and Northbridge. The increased abstraction of river water causes the sag between the existing and the pumped storage curves between about Q40 and Q60. The 1975-76 Q50 flow would decrease from about 5.652 cumecs to 4.623 cumecs. At the low flow end of the flow duration curve the proposed scheme would lead to a small increase in flow compared to the existing situation. The reasons for this are outlined in Section 4.16 of this report.

4.27 Upstream and downstream of Pynes leat

Figure 30 presents flow duration curves for 1975-76 immediately upstream of Pynes leat abstraction for the natural, existing and pumped scenarios. The impact of the abstractions at Exebridge, Bolham and Northbridge on the flow upstream of Pynes Leat is evident throughout the range Q10 to Q60. The difference between the pumped storage and existing flow duration curve is greatest in the range Q40 to Q60. The 1975-76 Q50 would decrease from 7.240 cumecs to 6.236 cumecs. At the low flow end of the flow duration curve increased releases for public water supply would, as discussed in Section 4.16 result in a relatively small increase in the Q95 flow from 0.924 cumecs to 0.973 cumecs. At exceedence percentiles less than Q60 the existing and pumped storage flow duration curves plot below the natural flow duration curve. At exceedence percentiles greater than Q60 the pumped storage flow duration curves plot just above the existing curve.

Table 2 which is contained in the back of this report contains a list of natural, existing and pump storage Scenario 3 1975-76 Q95 and Q50 statistics for all the key sites considered in the NRA SW simulation. The zeros in the existing Q95 column indicate that the river would be dry for at least 36 days during 1975-76 (5% of the time). There would under the pumped scenario at Q95 conditions be flow in the deprived reaches at Oakfordbridge and Heathcoats where there would not be under the existing situation. However there still would not be flow in the deprived reaches at Thorverton Leat and Pynes Leat.

These statistics are based on an assessment which uses maximum possible authorised abstraction volumes at the key leat abstractions. As such it illustrates potential impact; in reality more water is likely to be left in the main river and less in the leat. However, without gauged data for the river and leat at each site actual impacts, existing and pumped, are difficult to quantify.

The differences between the Q95 and Q50 flows for both the natural and the existing situation and the pumped storage Scenario 3 for the sites assessed by NRA SW are shown as percentages in Table 3 at the back of this report. This table only includes the sites upstream of the leat abstractions at Highleigh Mill, Oakfordbridge, Heathcoats, Thorverton and Pynes. It would be meaningless to consider percentage differences in flow statistics, particularly Q95, below the abstraction, when currently under existing conditions many of the deprived reaches would be dry for significant periods during 1975-76. The hatched boxes highlight sites where a statistic (Q95 in this case) would increase as a result of pump storage. In contrast the dotted shading highlights those sites where the statistic would decrease as a result of pump storage. At all 8 listed sites the Q95 would increase as a result of pump storage (in comparison to the existing (2) situation). At sites in the upper catchment such as Exebridge there would almost be a 50% increase in the 1975-76 Q95. In contrast there would be a decrease in Q50 (in comparison to the existing situation) at all 8 sites of between 18 and 11%.

SWWSL considered the hydrological impacts of the scheme in terms of the natural and existing situation at a range of sites including downstream of the abstraction at Exebridge, up and downstream of Highleigh Mill and Oakfordbridge Fish Farms, up and downstream of the Northbridge abstraction and the tidal limit.

Their results were presented in a series of hydrographs and flow duration curves. The percentage change in certain key statistics such as Q50 and Q95 between the existing situation and the pumped storage Scenario 3 were also summarised for some sites in tabular form.

The percentage changes in the 1975-76 Q95 and Q50 flow between the existing and pumped storage scenario as calculated by SWWSL and NRA SW downstream of the Exebridge abstraction and downstream of the Northbridge abstraction are compared below:

7.0 References

Watson Hawksley (1993) - Wimbleball Pumped Storage Scheme Water Resources Appendix A3 Flow Naturalisation (RP-PLA-1981A0-030 to 033(01)).

Watson Hawksley (1993) - Wimbleball Pumped Storage Scheme Water Resources Appendix A7 Demand Patterns (RP-PLA-1981A0-035(01)).

Watson Hawksley (1993) - Wimbleball Pumped Storage Scheme Water Resources Appendix A9 Hydrological Results Scenario 3 (RP-PLA-1981A0-037(01)).

Figure 1: Sites on the River Exe considered in the hydrological impact assessment of Wimbleball Pump Storage Proposal

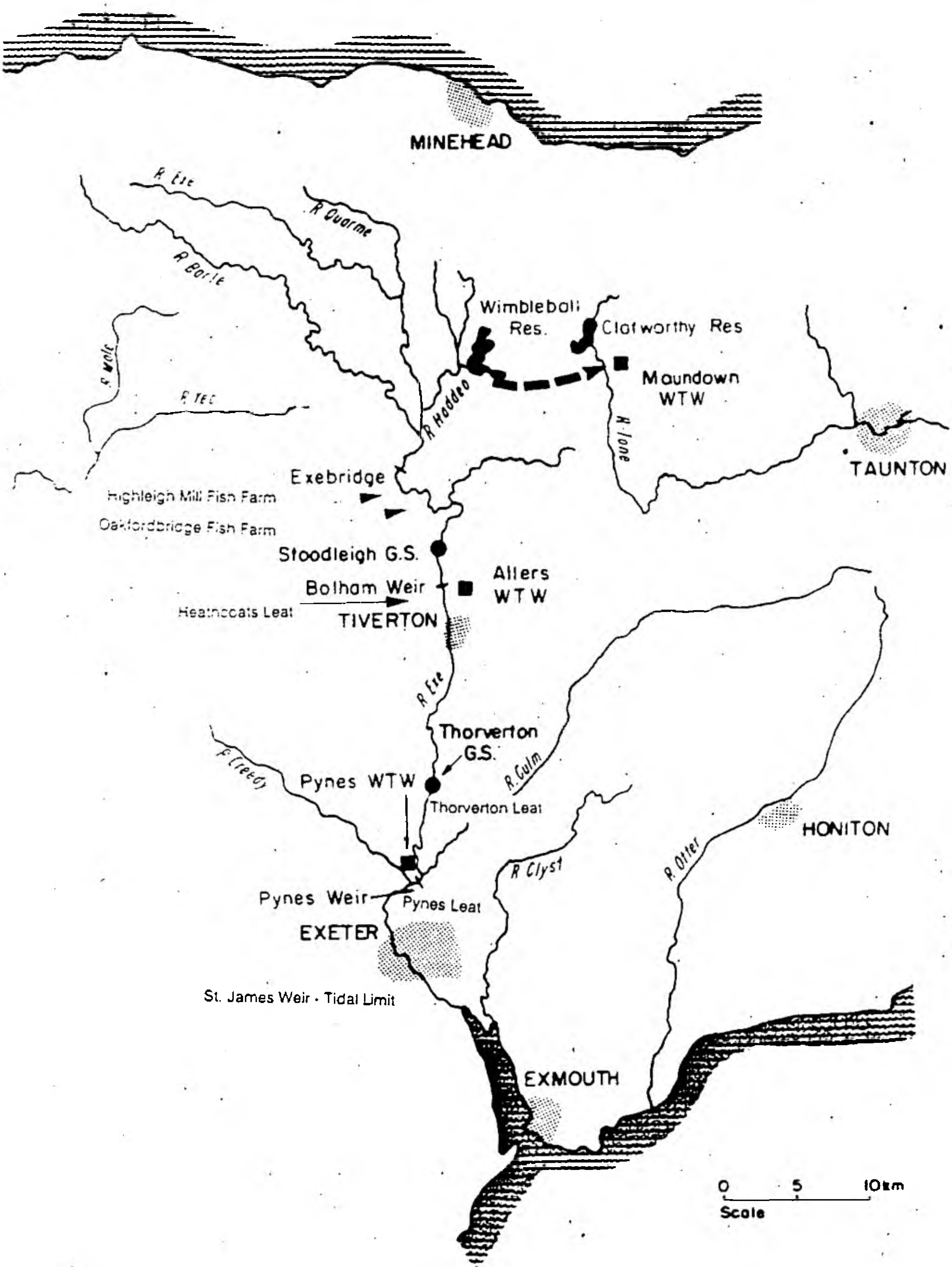


Figure 2b: Hydrographs Downstream of Exebridge for Natural, Existing and Pumped Scenarios in 1976

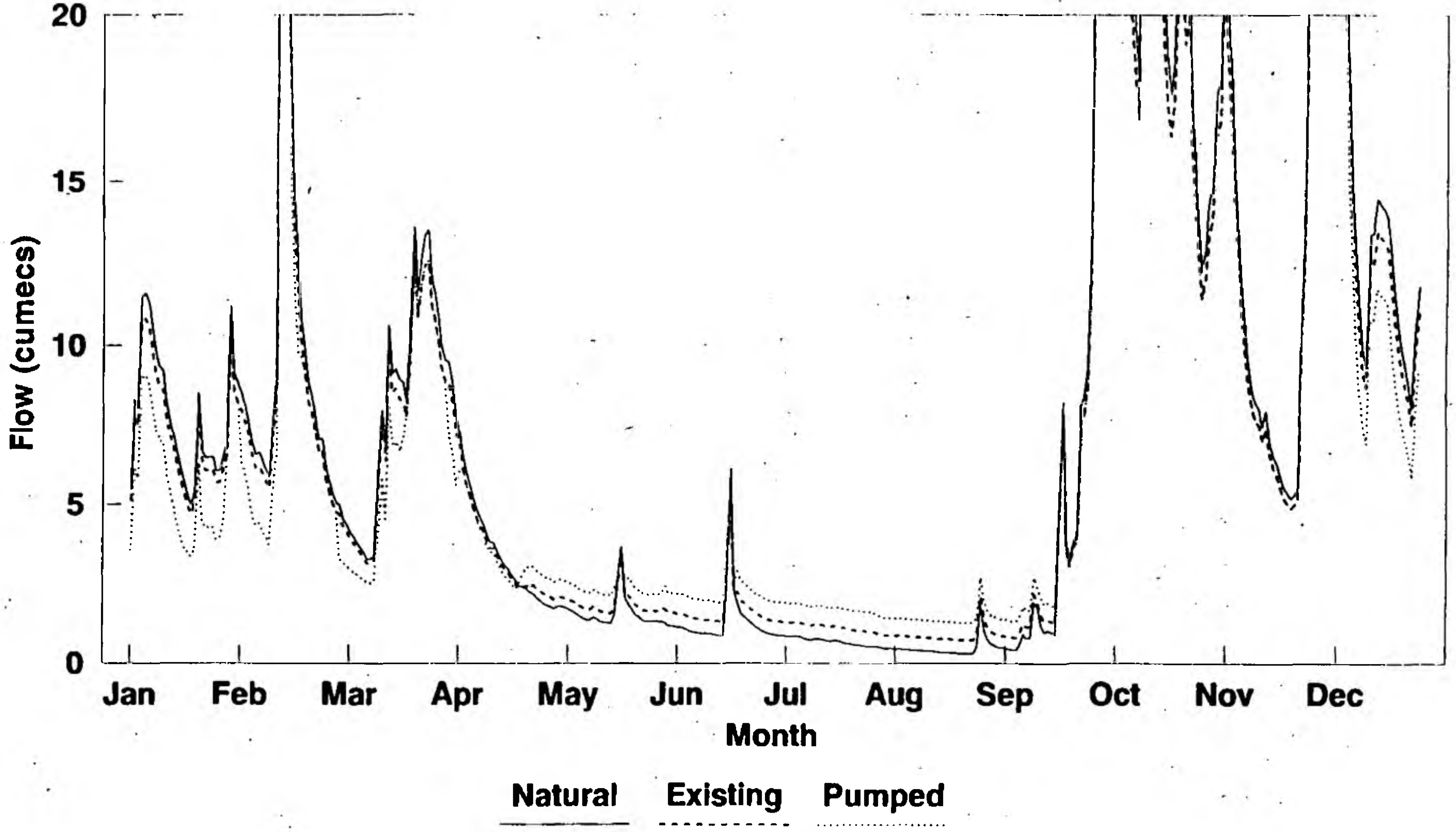


Figure 3b: Hydrographs Upstream of Highleigh Mill Fish Farm Abstraction for Natural, Existing and Pumped Scenarios in 1976

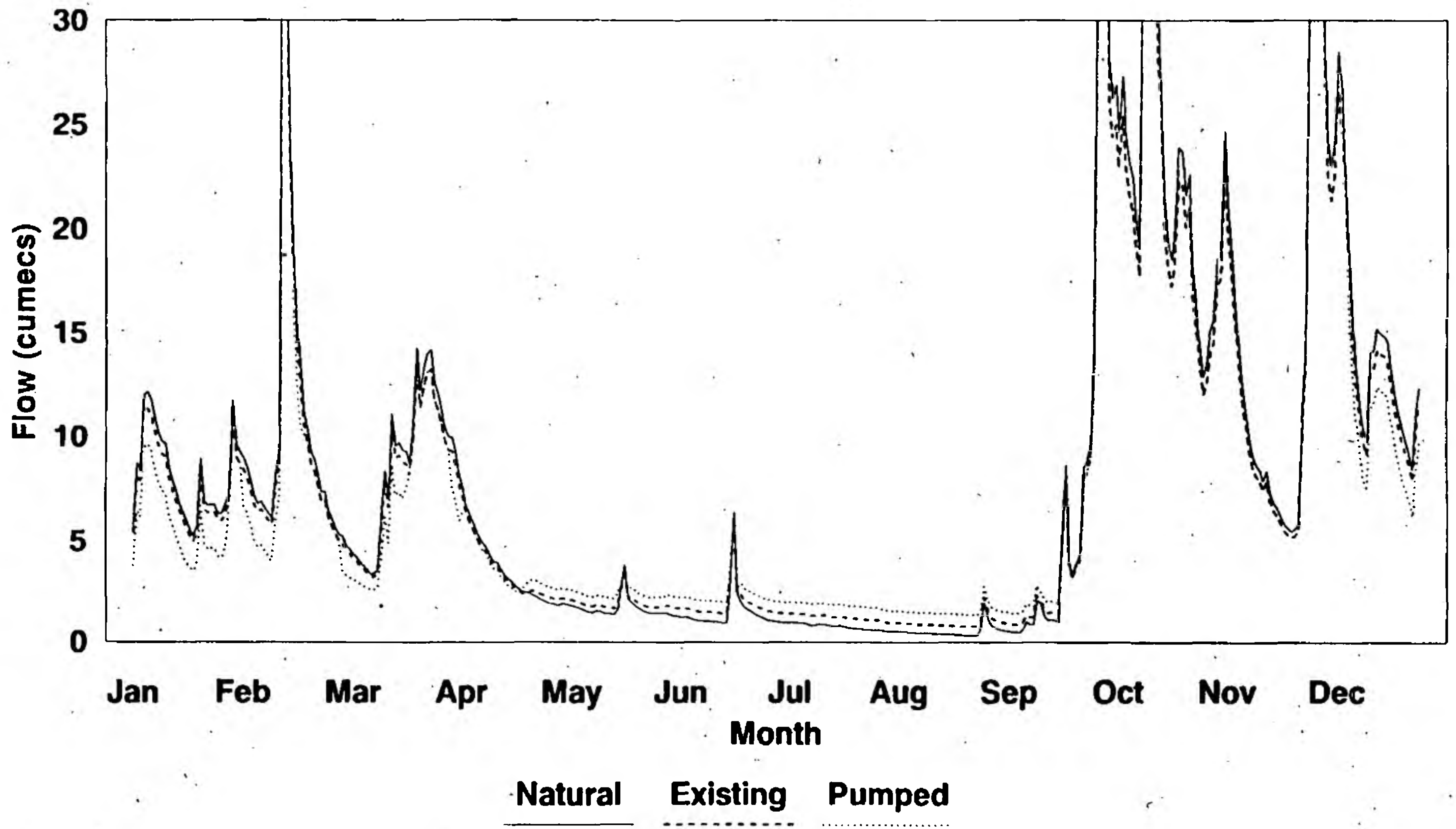


Figure 4b: Hydrographs Upstream and Downstream of Highleigh Mill Fish Farm Abstraction for the Existing Situation in 1976

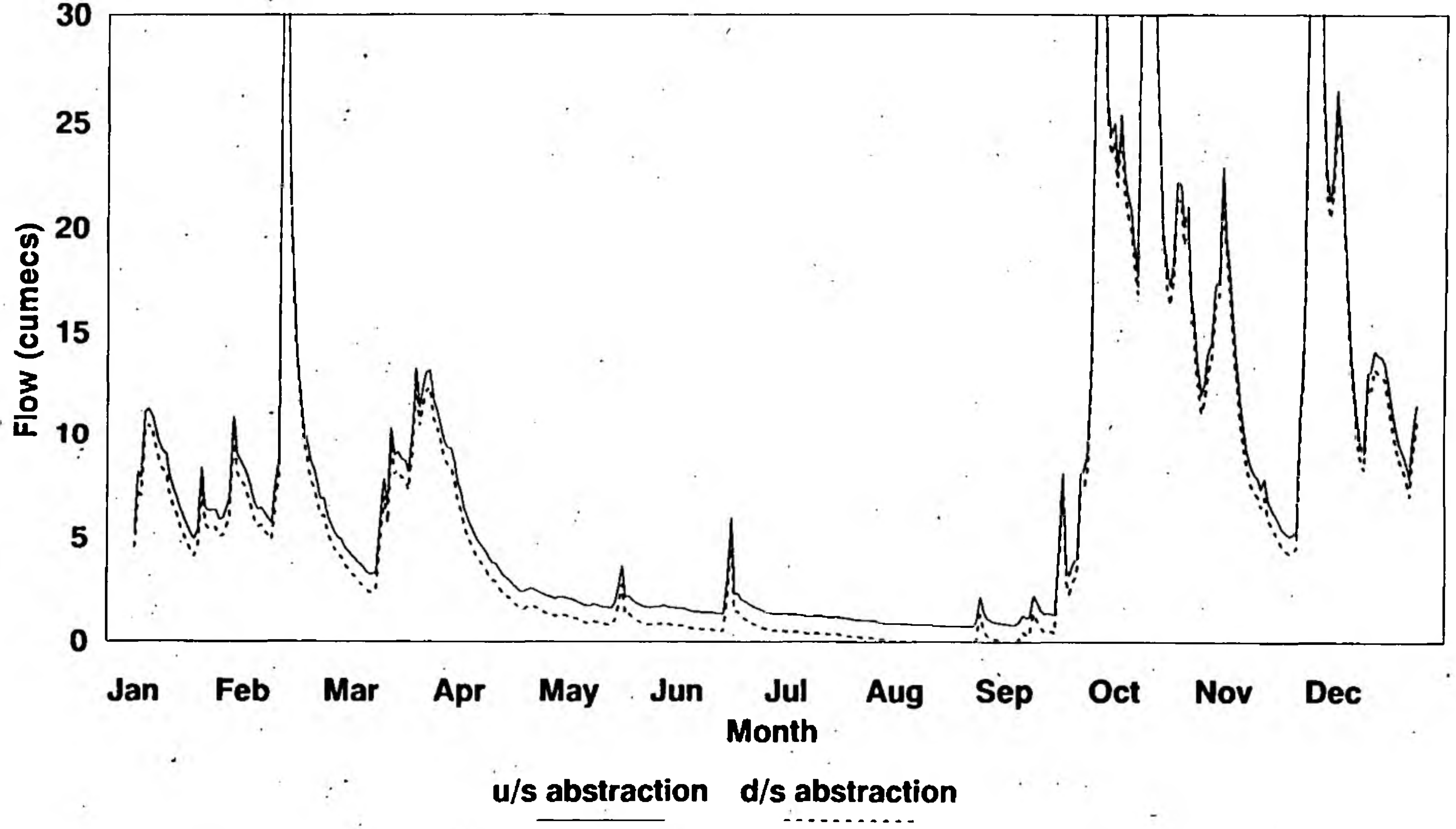


Figure 5b: Hydrographs Upstream and Downstream of Highleigh Mill Fish Farm Abstraction for the Pumped Storage Scenario in 1976

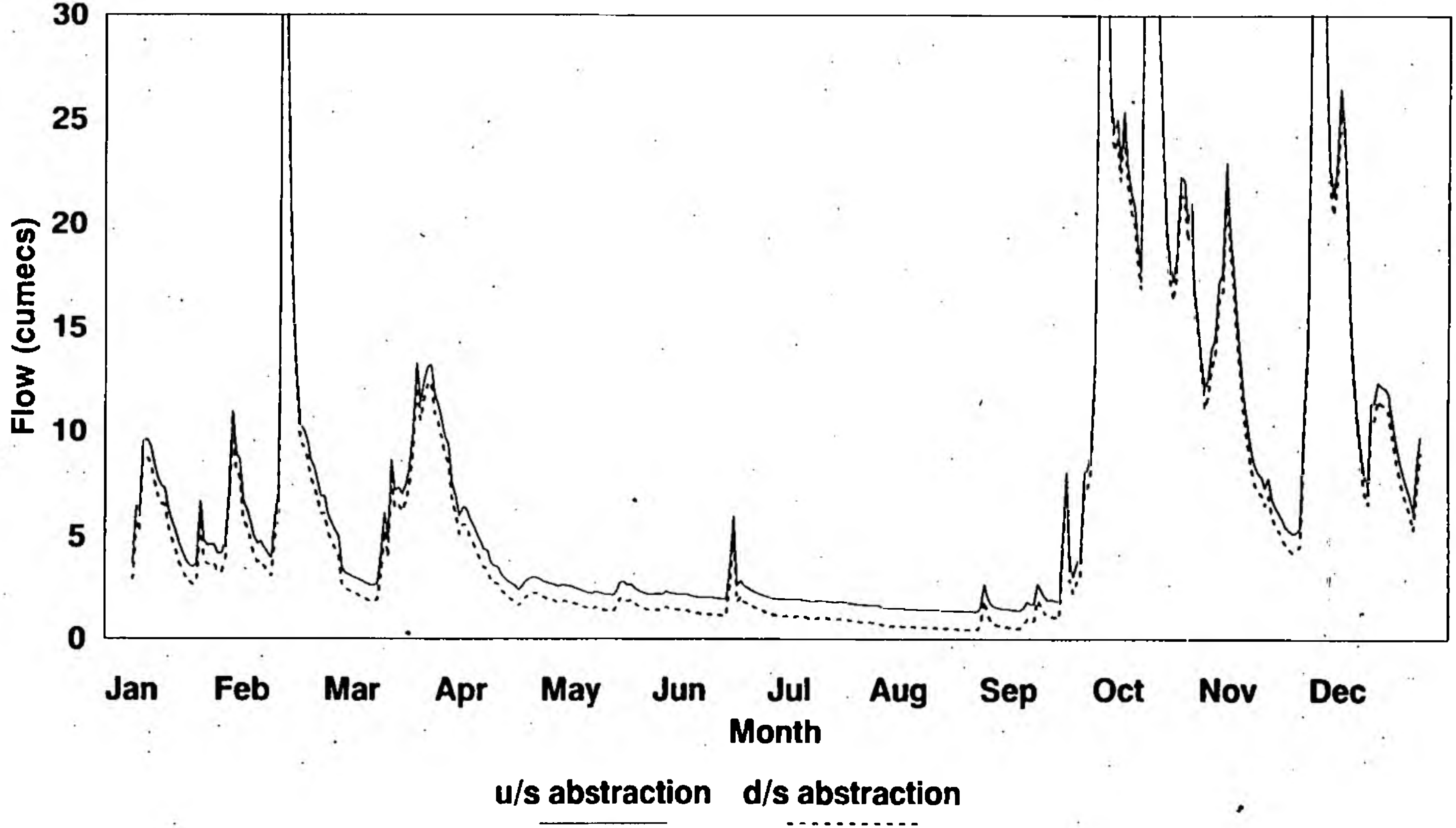


Figure 6b: Hydrographs Upstream of Oakfordbridge Fish Farm Abstraction for Natural, Existing and Pumped Scenarios in 1976

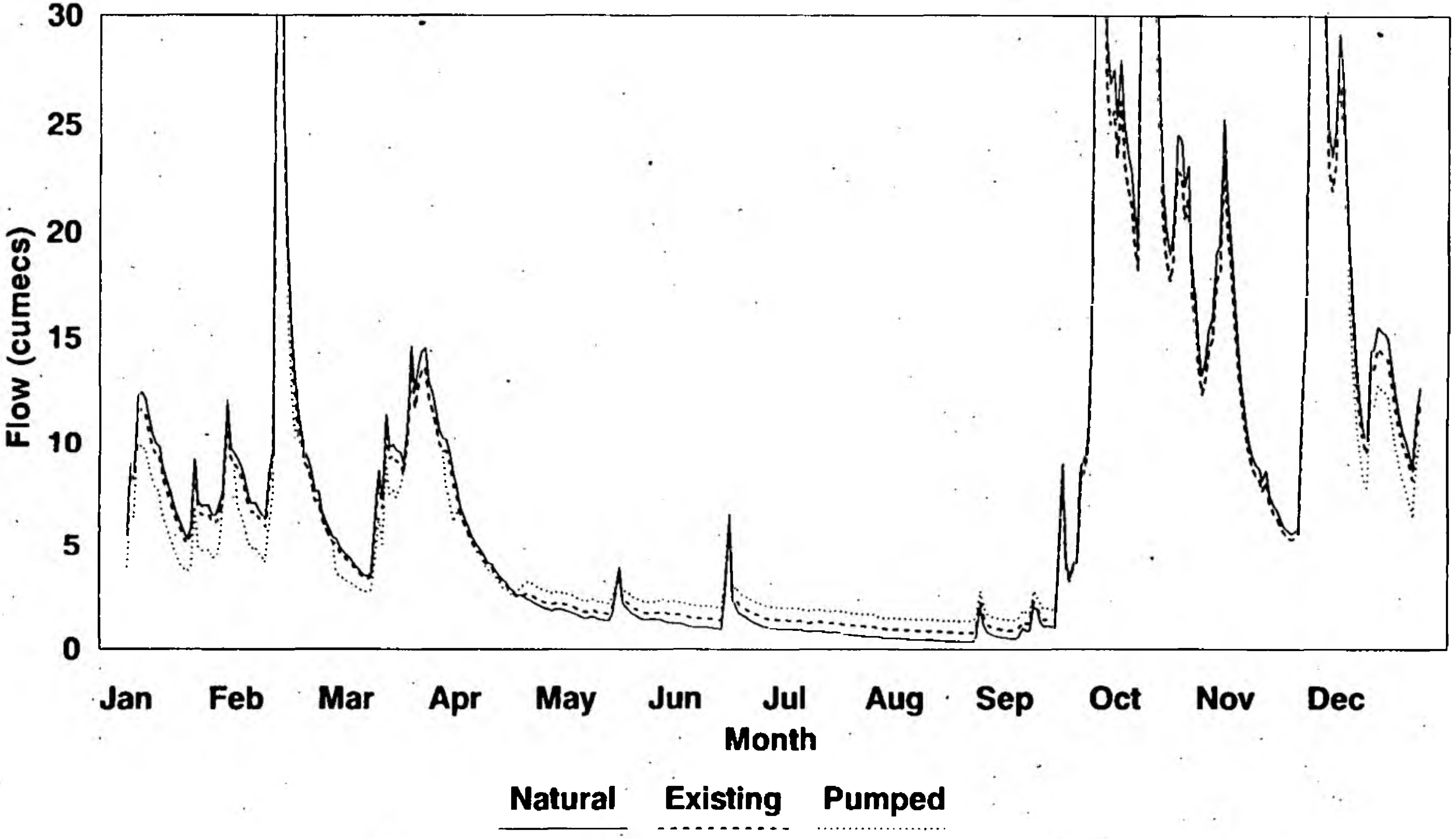


Figure 7b: Hydrographs Upstream and Downstream of Oakfordbridge Fish Farm Abstraction for the Existing Situation in 1976

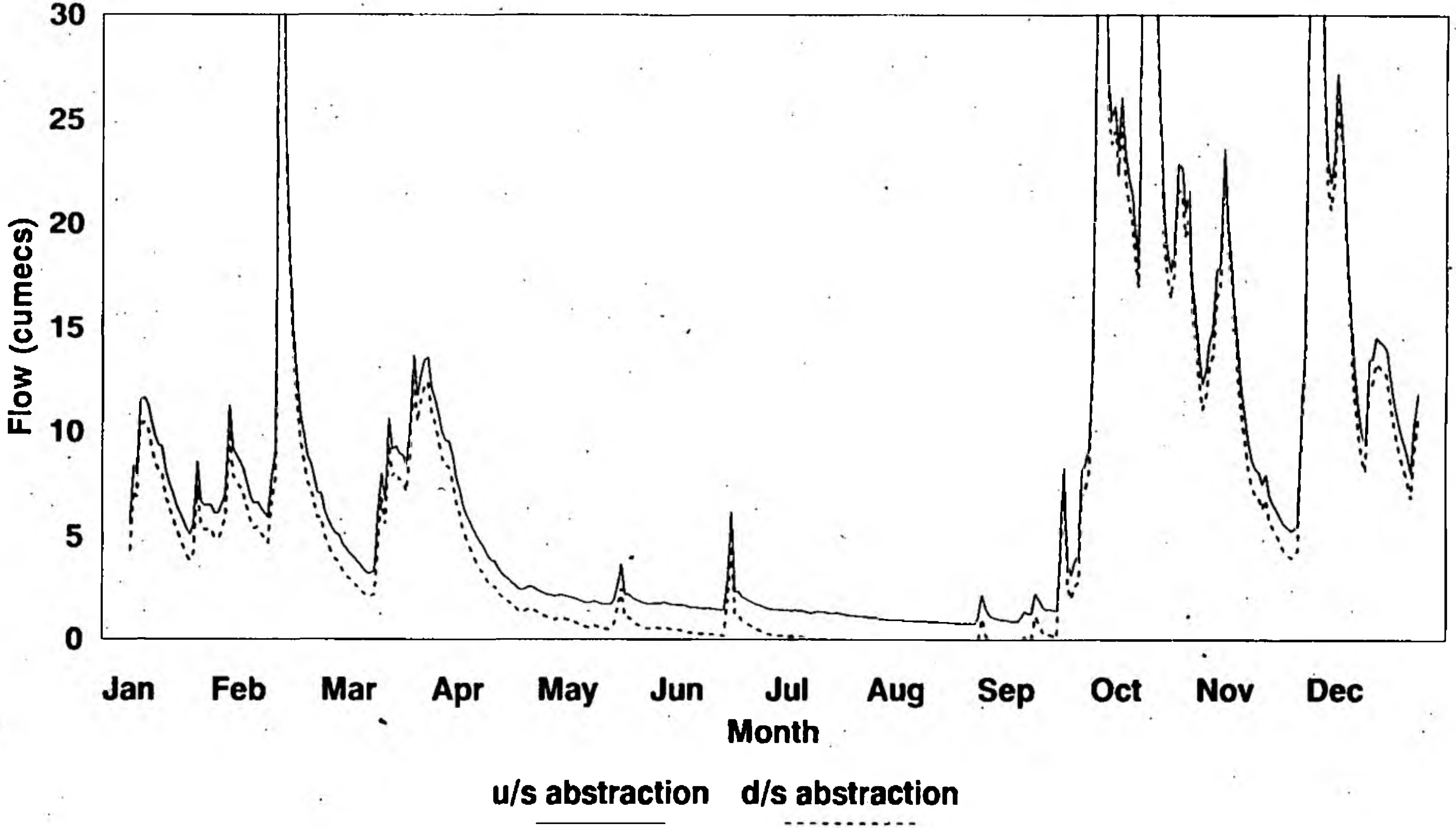


Figure 8b: Hydrographs Upstream and Downstream of Oakfordbridge Fish Farm Abstraction for the Pumped Storage Scenario in 1976

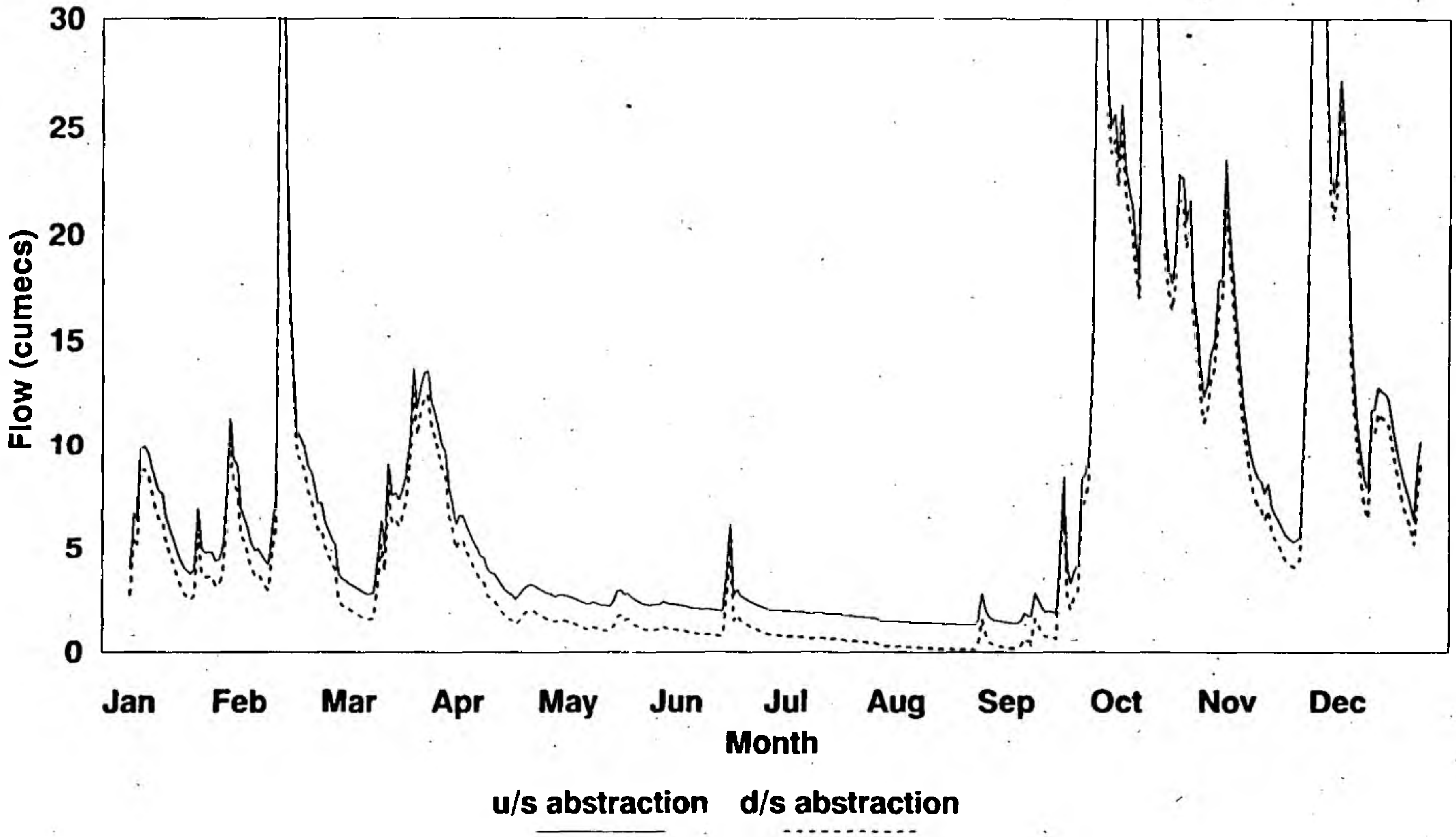


Figure 9b: Hydrographs Upstream of Heathcoats Leat abstraction for Natural, Existing and Pumped Storage Scenarios in 1976

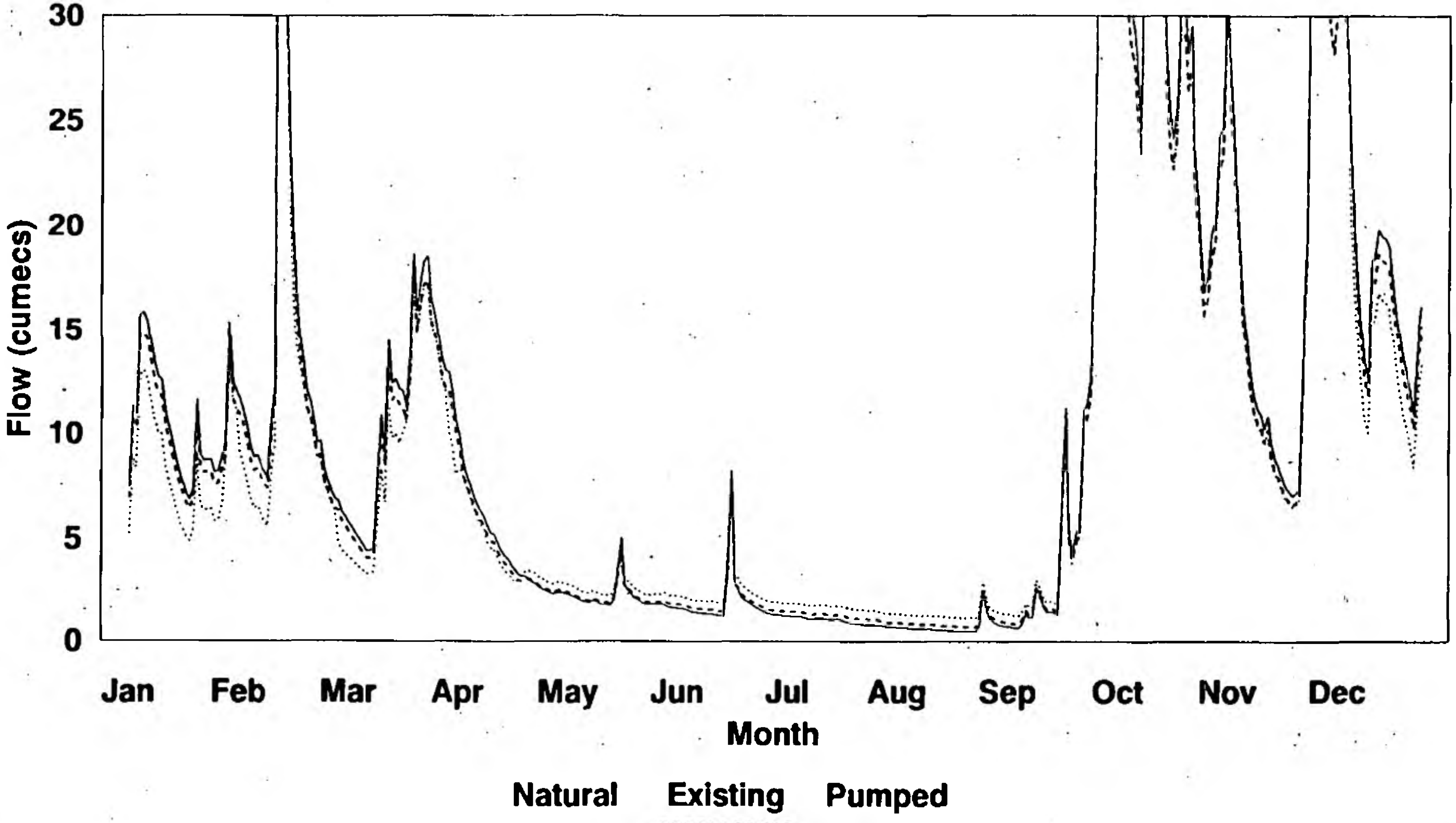


Figure 10b: Hydrographs Upstream and Downstream of Heathcoats Leat Abstraction for the Existing Situation in 1976

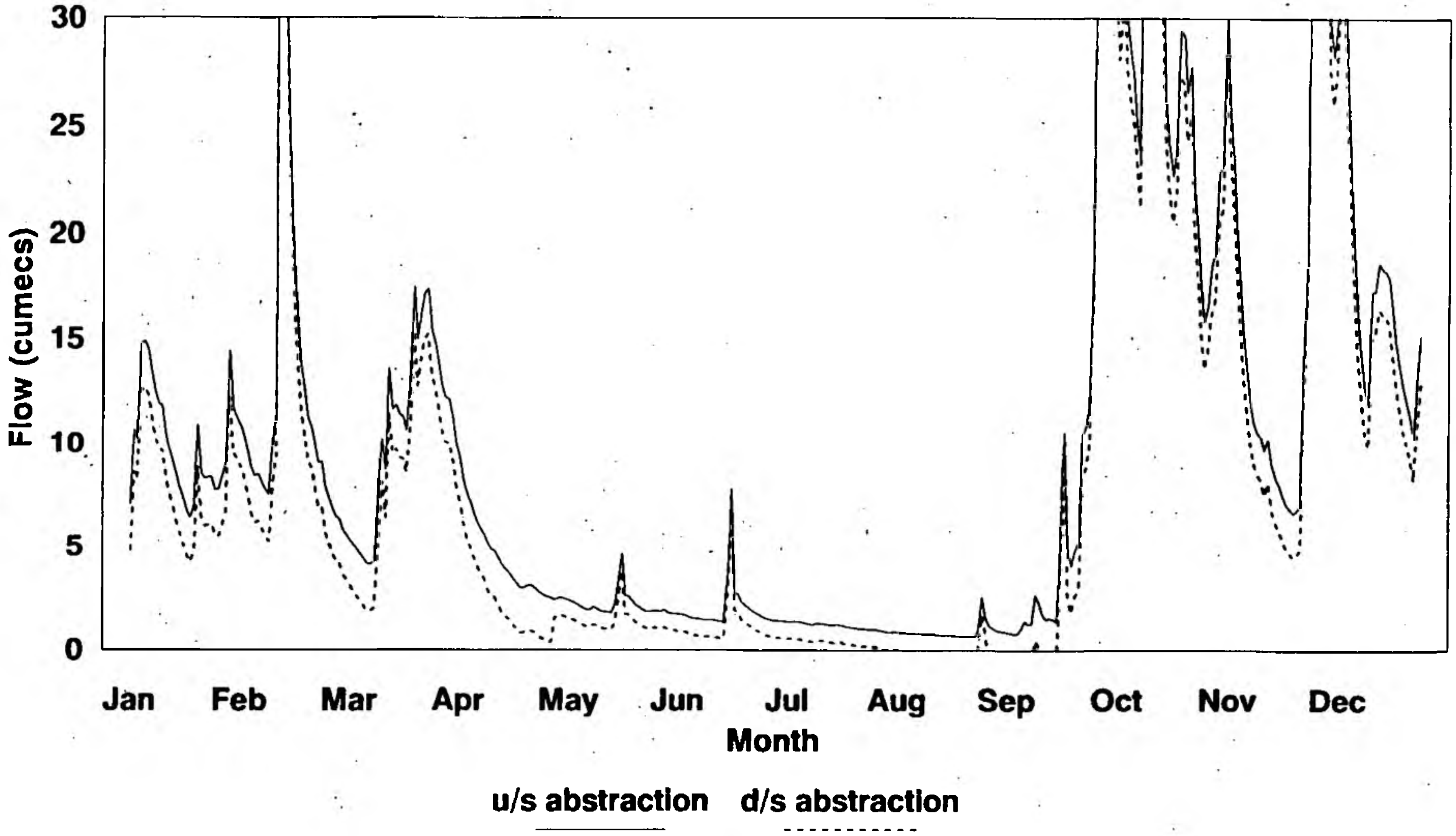


Figure 11b: Hydrographs Upstream and Downstream of Heathcoats Leat Abstraction for the Pumped Storage Scenario in 1976

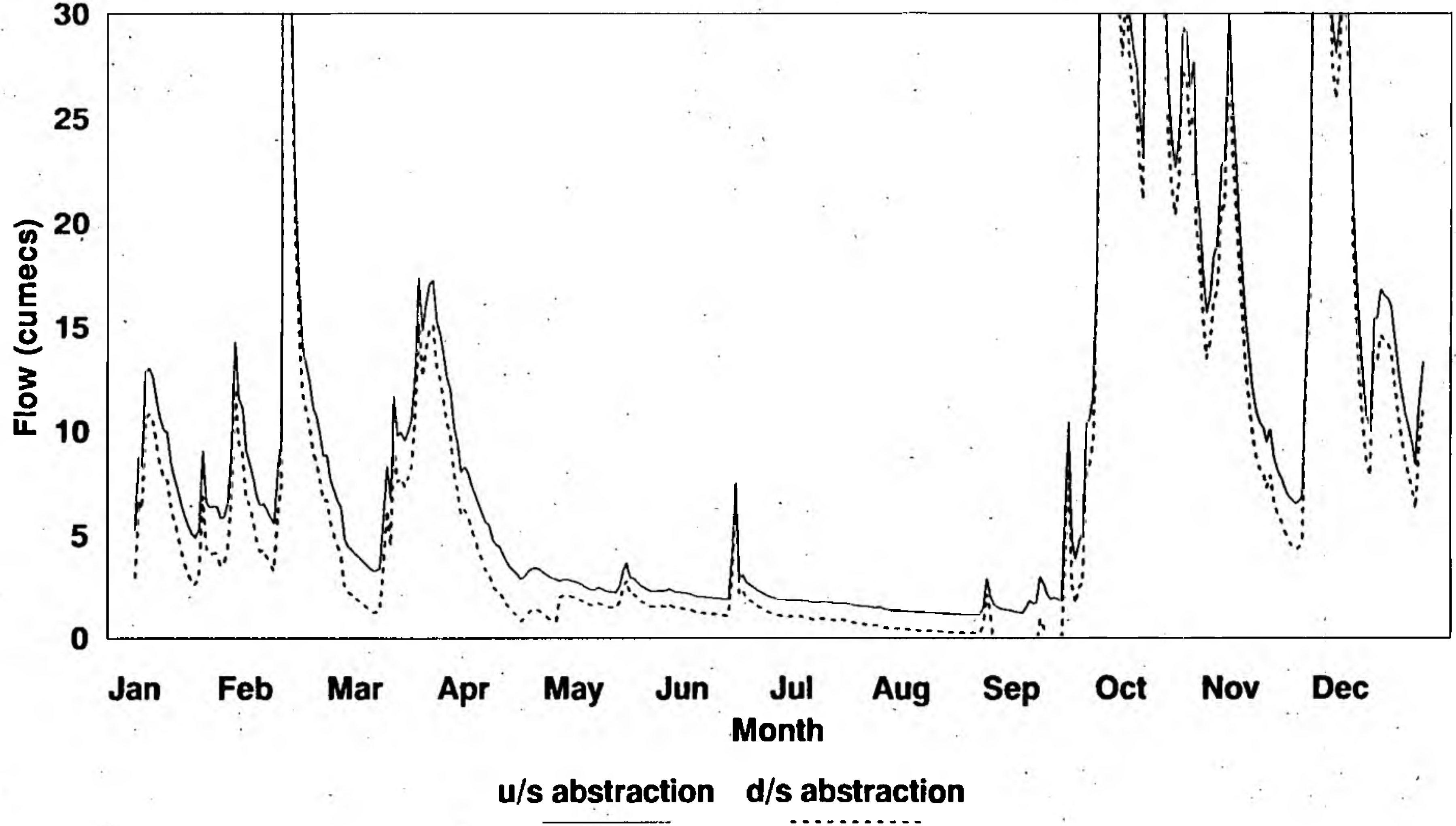


Figure 12b: Hydrographs Upstream of Thorverton Leat Abstraction for Natural, Existing and Pumped Storage Scenarios in 1976

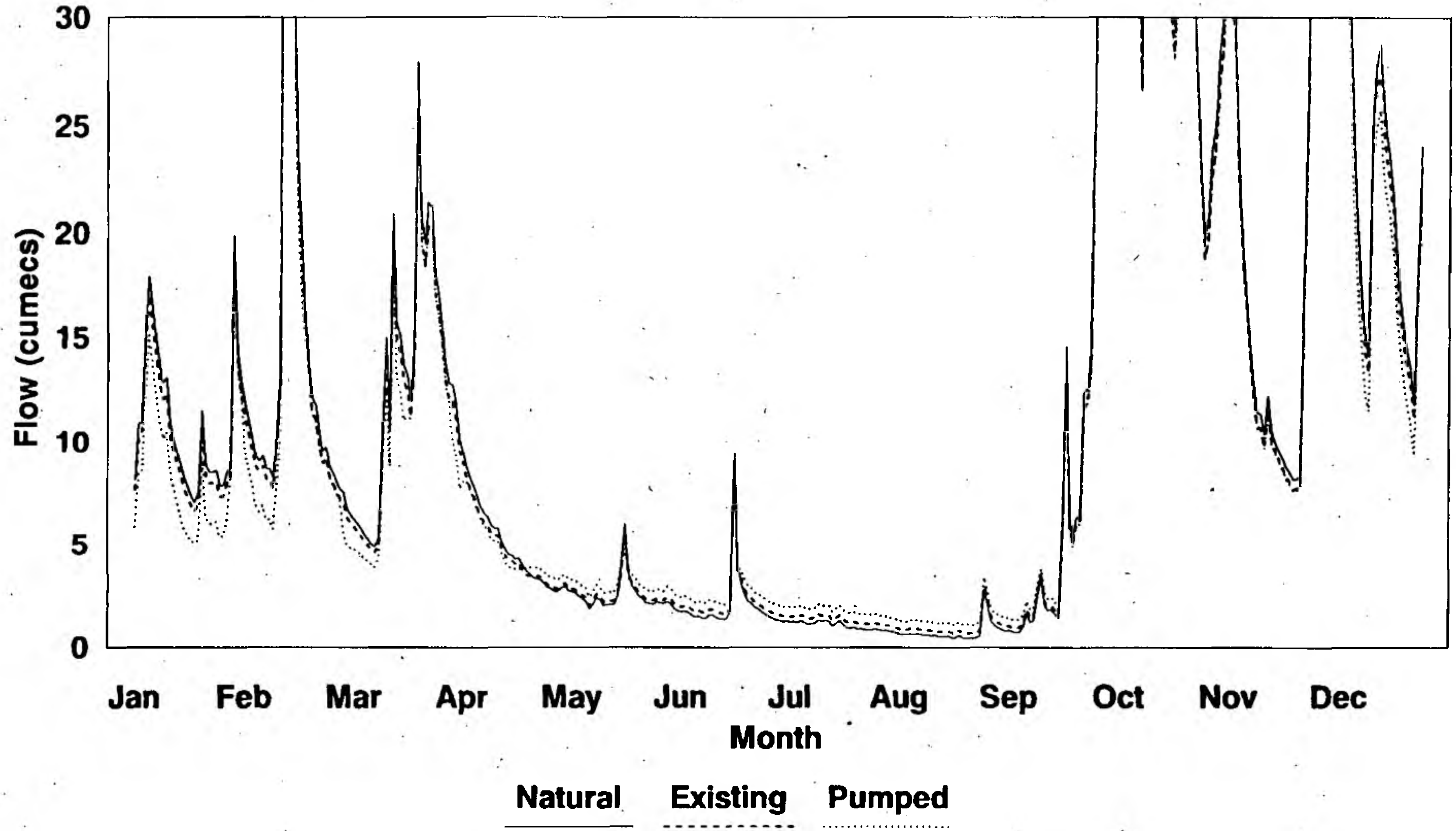


Figure 13a: Hydrographs Upstream and Downstream of Thorverton Leat Abstraction for the Existing Situation in 1975

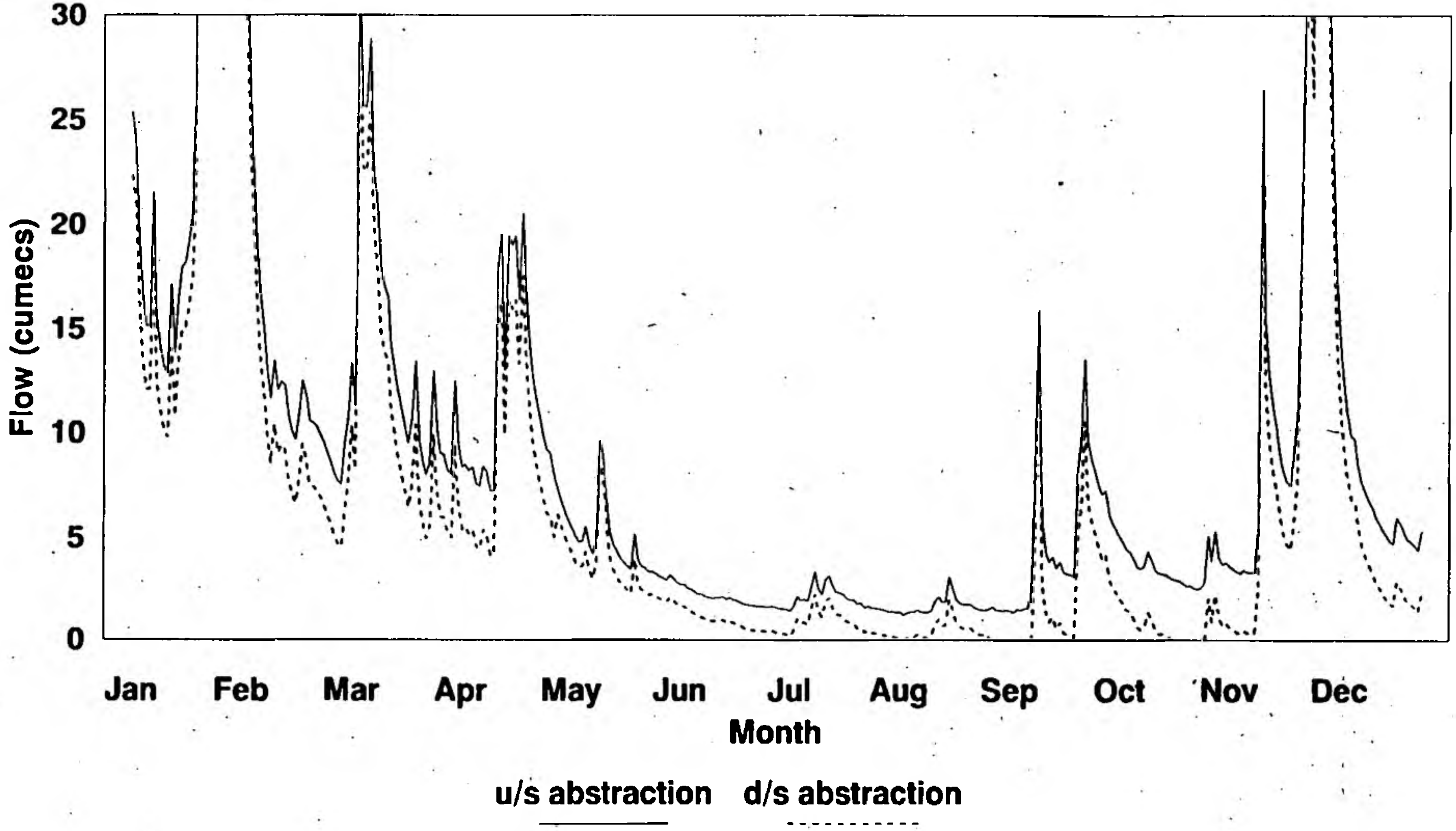


Figure 13a: Hydrographs Upstream and Downstream of Thorverton Leat Abstraction for the Existing Situation in 1975

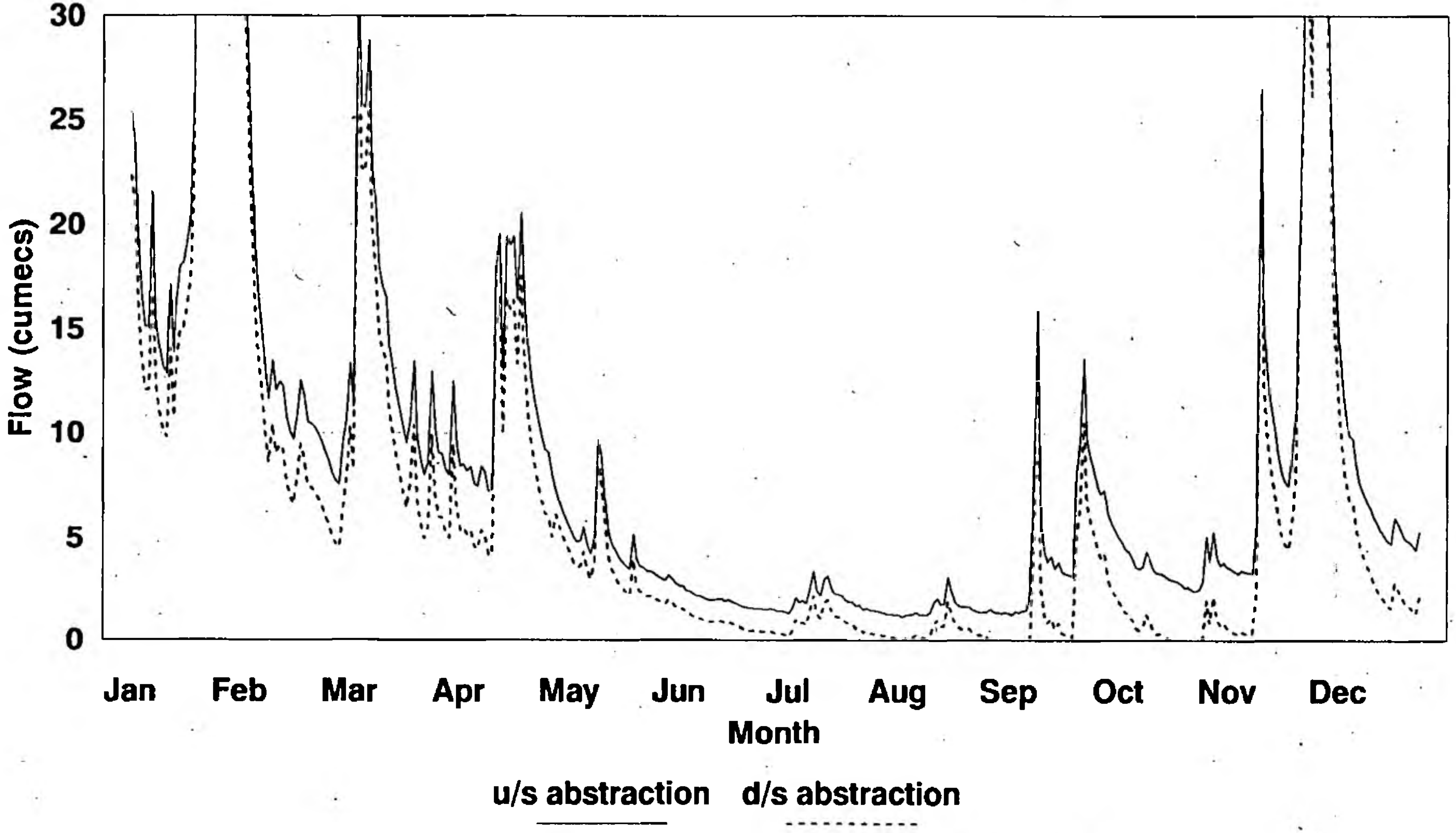


Figure 13b: Hydrographs Upstream and Downstream of Thorverton Leat Abstraction for the Existing Situation in 1976

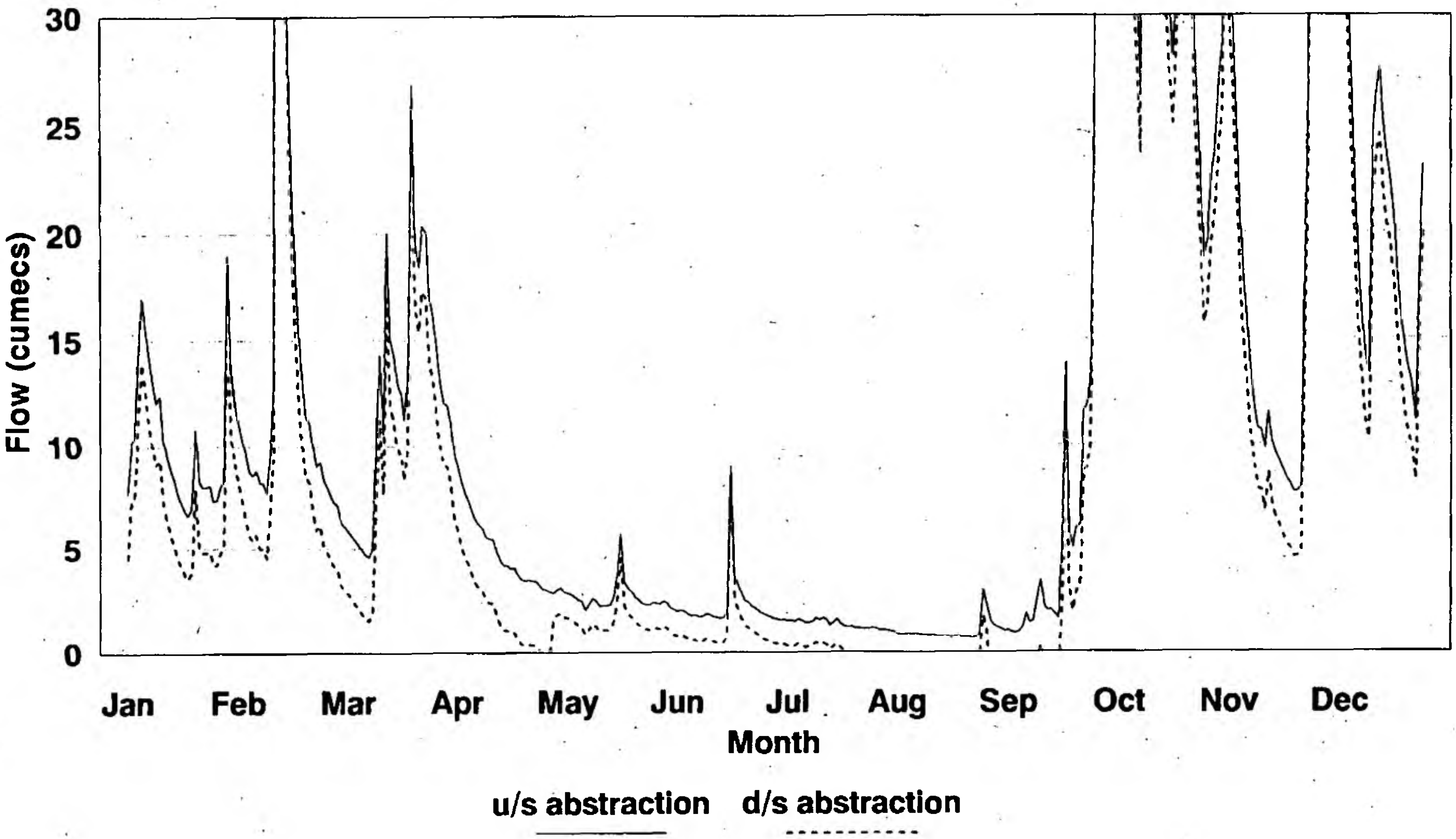


Figure 14a: Hydrographs Upstream and Downstream of Thorverton Leat Abstraction for the Pumped Storage Scenario in 1975

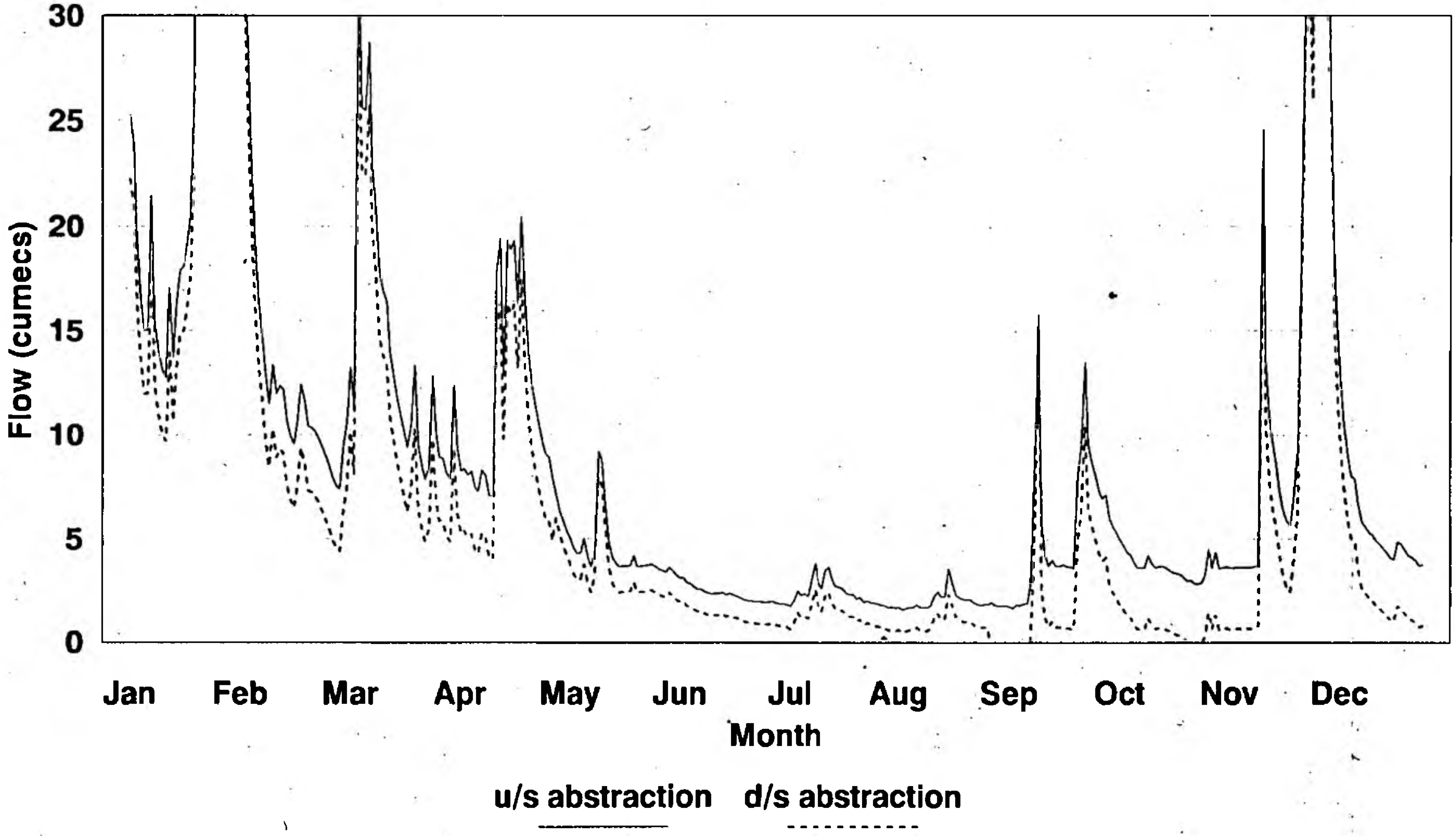


Figure 14b: Hydrographs Upstream and Downstream of Thorverton Leat Abstraction for the Pumped Storage Scenario in 1976

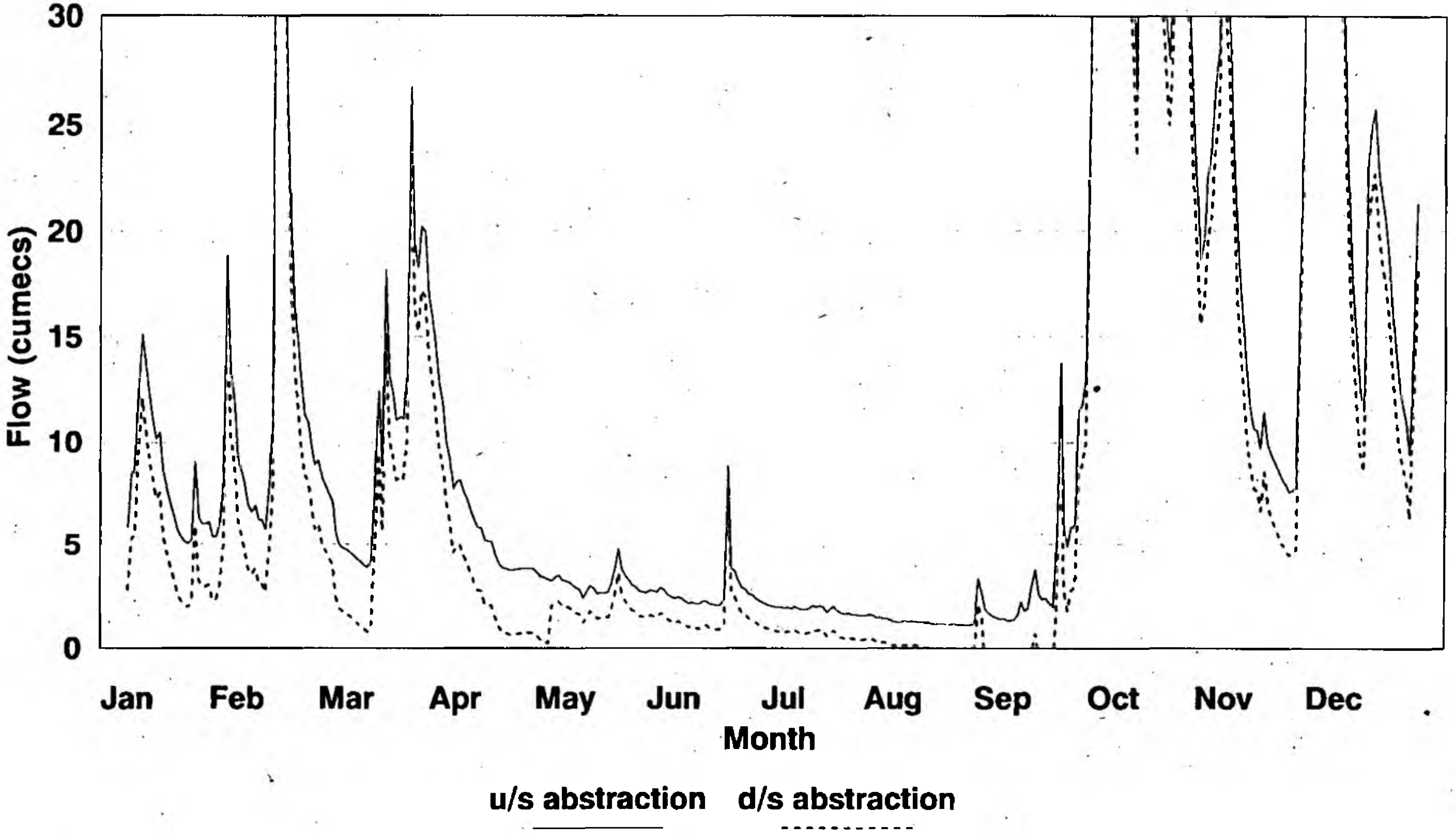


Figure 15a: Hydrographs Downstream of Northbridge for Natural, Existing and Pumped Storage Scenarios in 1975

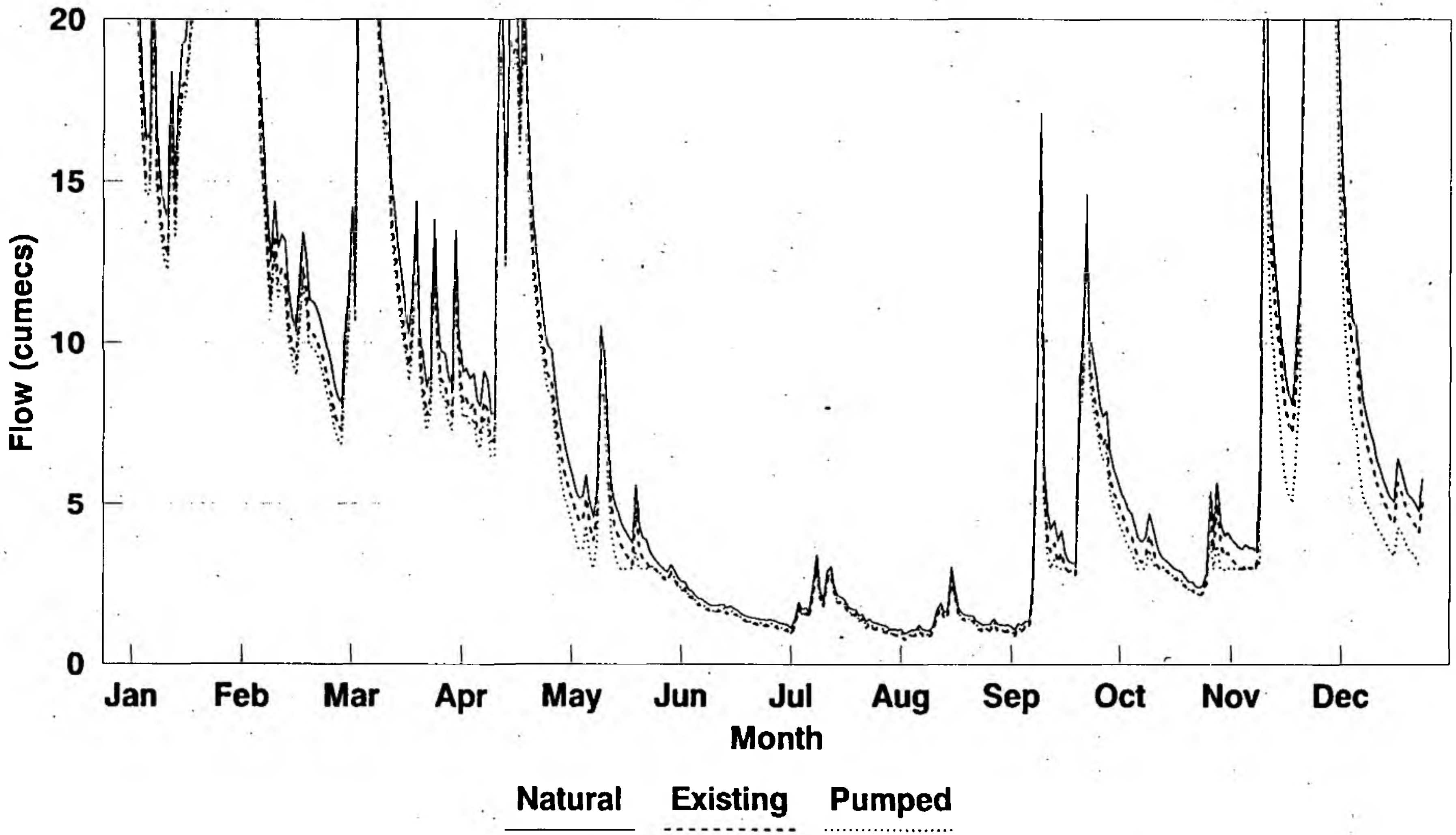


Figure 15b: Hydrographs Downstream of Northbridge for Natural, Existing and Pumped Storage Scenarios in 1976

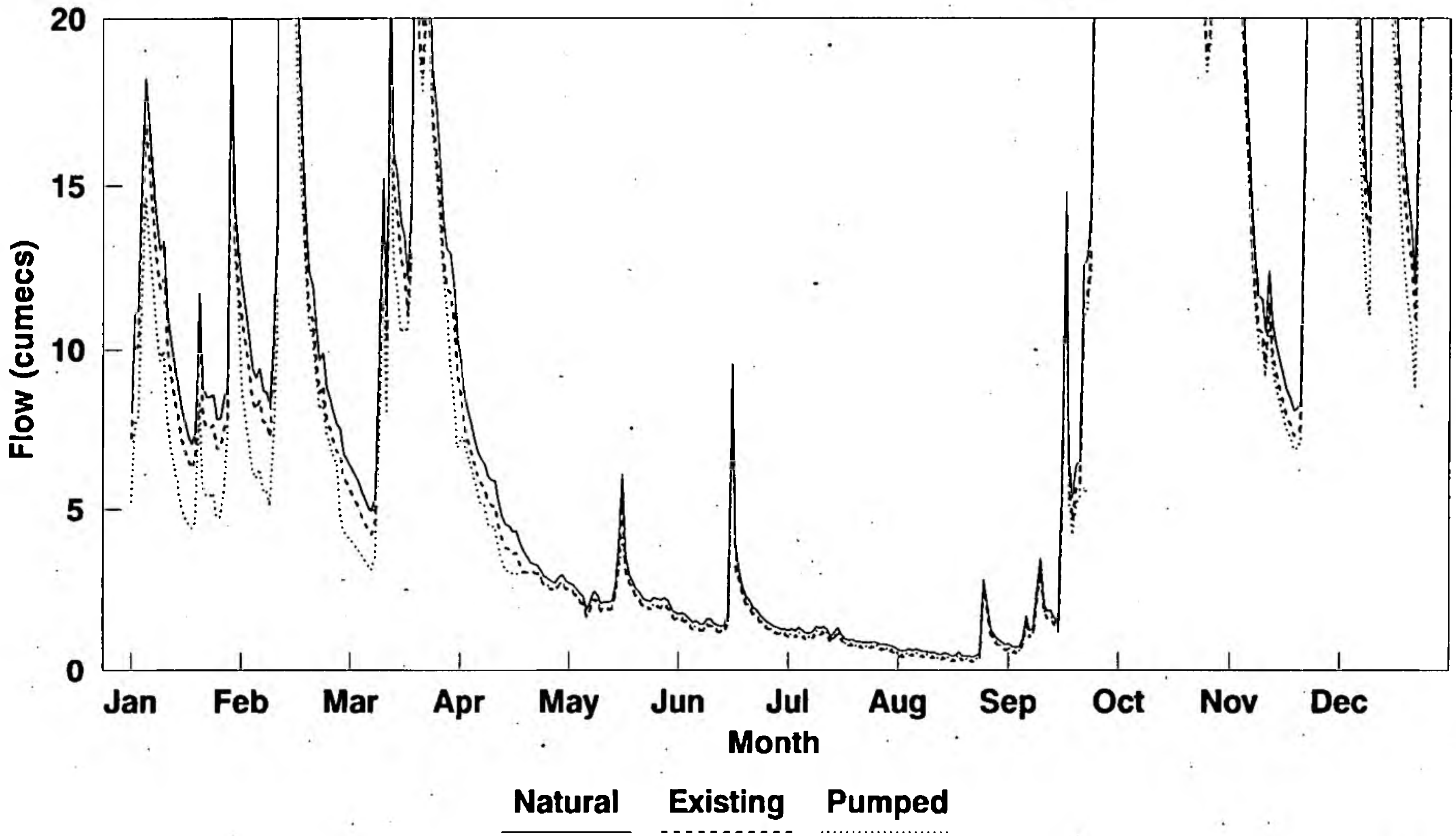


Figure 16a: Hydrographs Upstream of Pynes Leat Abstraction for Natural, Existing and Pumped Storage Scenarios in 1975

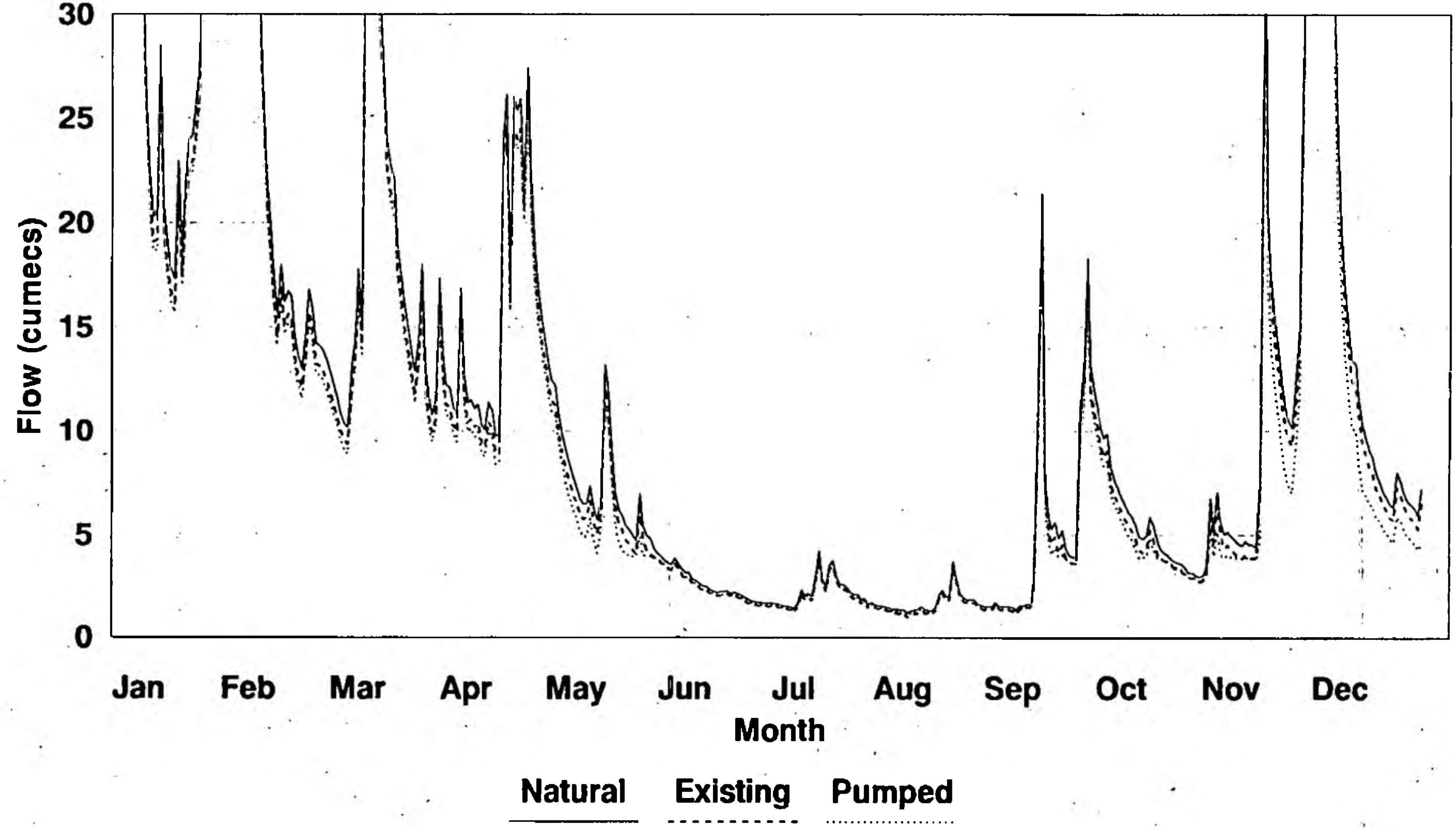


Figure 16b: Hydrographs Upstream of Pynes Leat Abstraction for Natural, Existing and Pumped Storage Scenarios in 1976

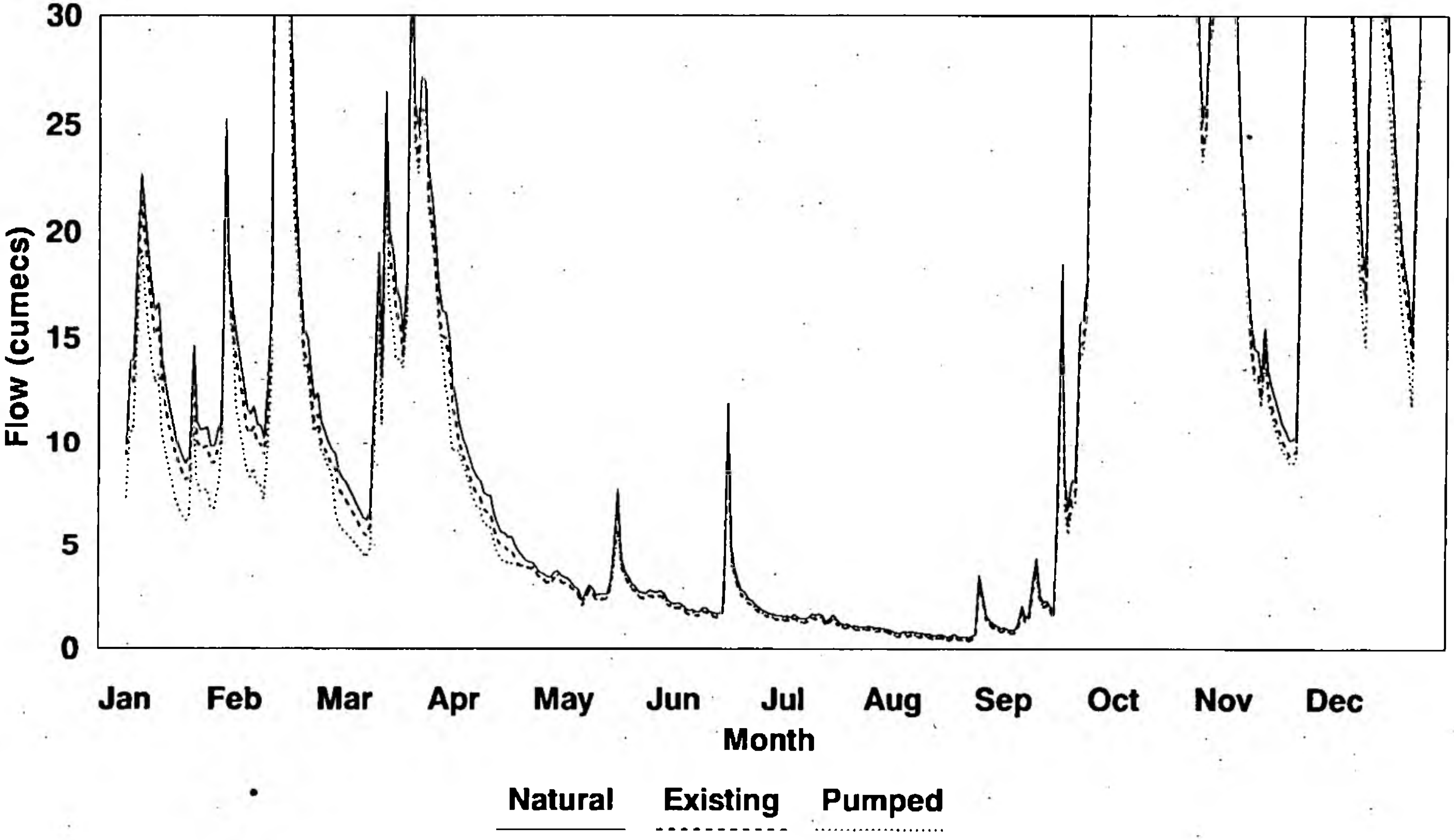


Figure 17a: Hydrographs Upstream and Downstream of Pynes Leat Abstraction for the Existing Situation in 1975

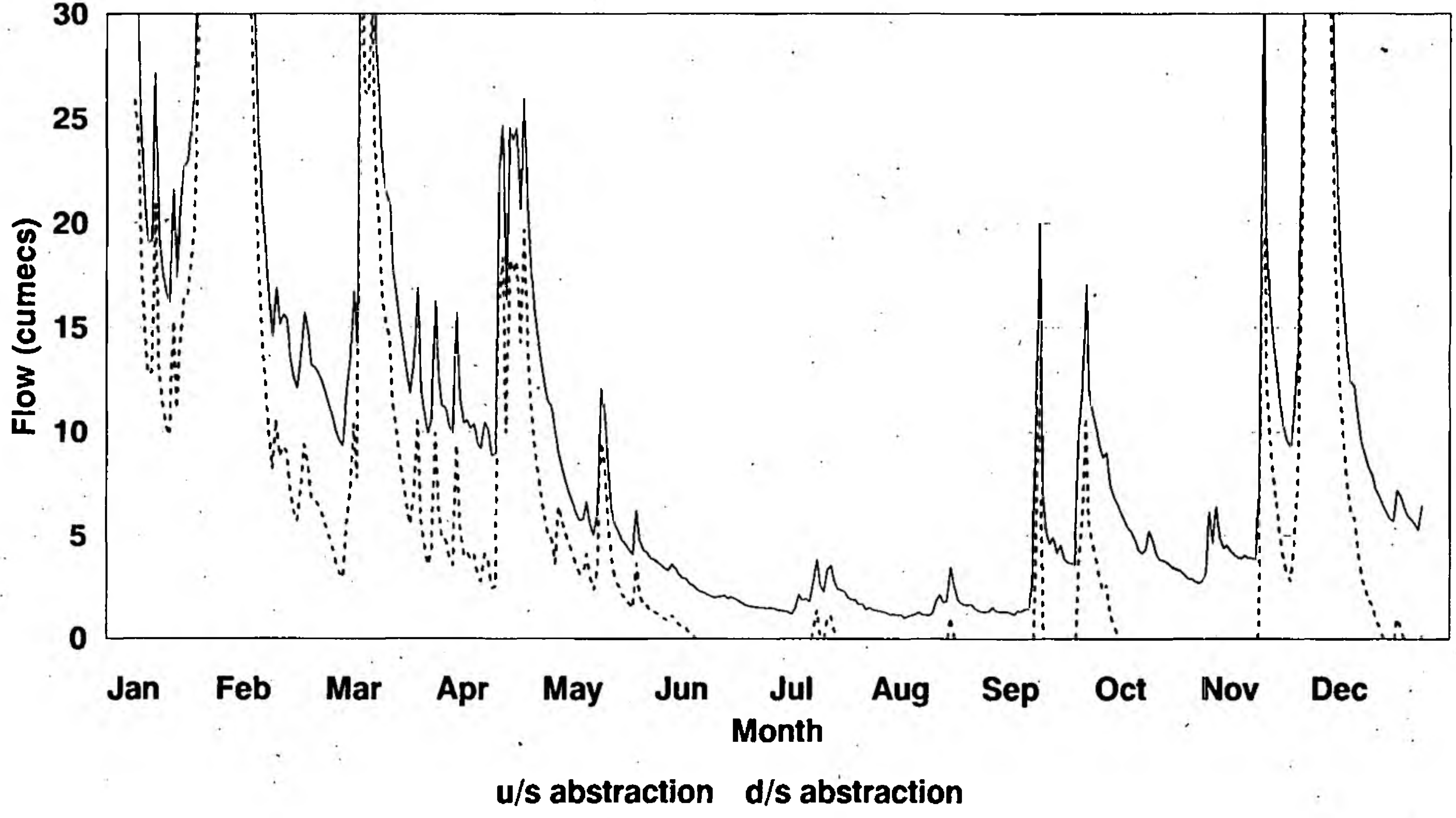


Figure 17b: Hydrographs Upstream and Downstream of Pynes Leat Abstraction for the Existing Situation in 1976

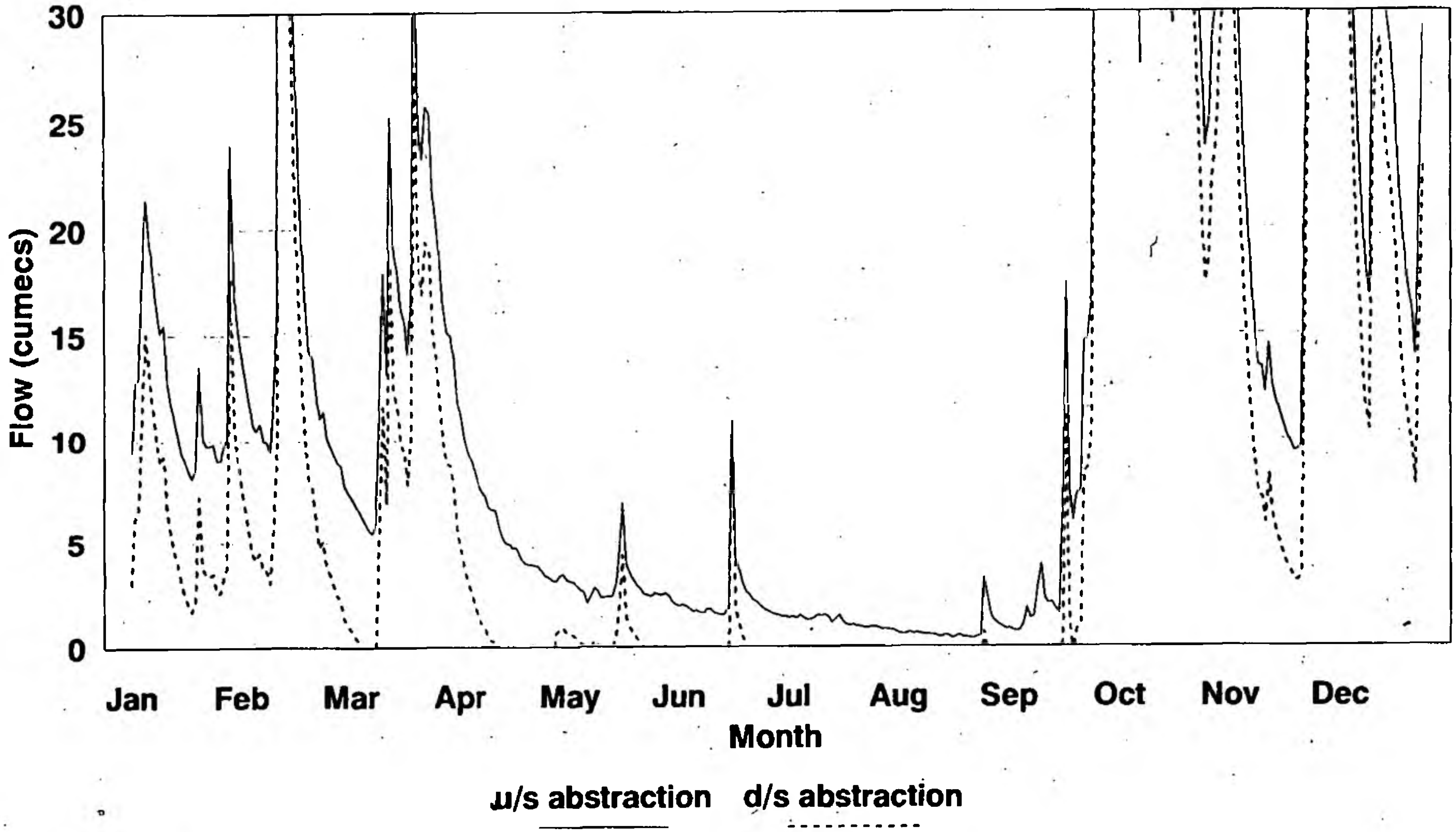


Figure 18a: Hydrographs Upstream and Downstream of Pynes Leat Abstraction for the Pumped Storage Scenario in 1975

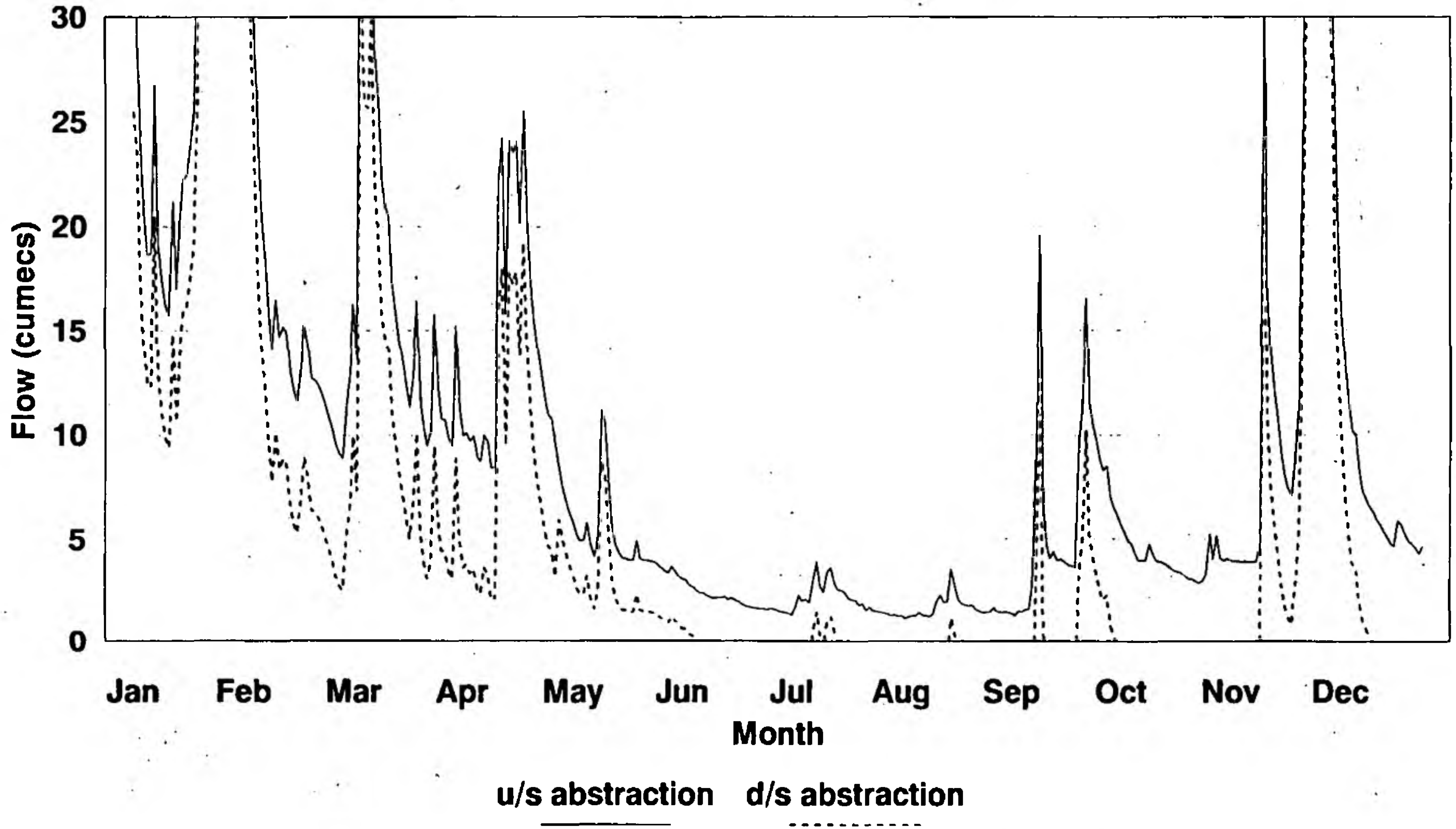


Figure 18b: Hydrographs Upstream and Downstream of Pynes Leat Abstraction for the Pumped Storage Scenario in 1976

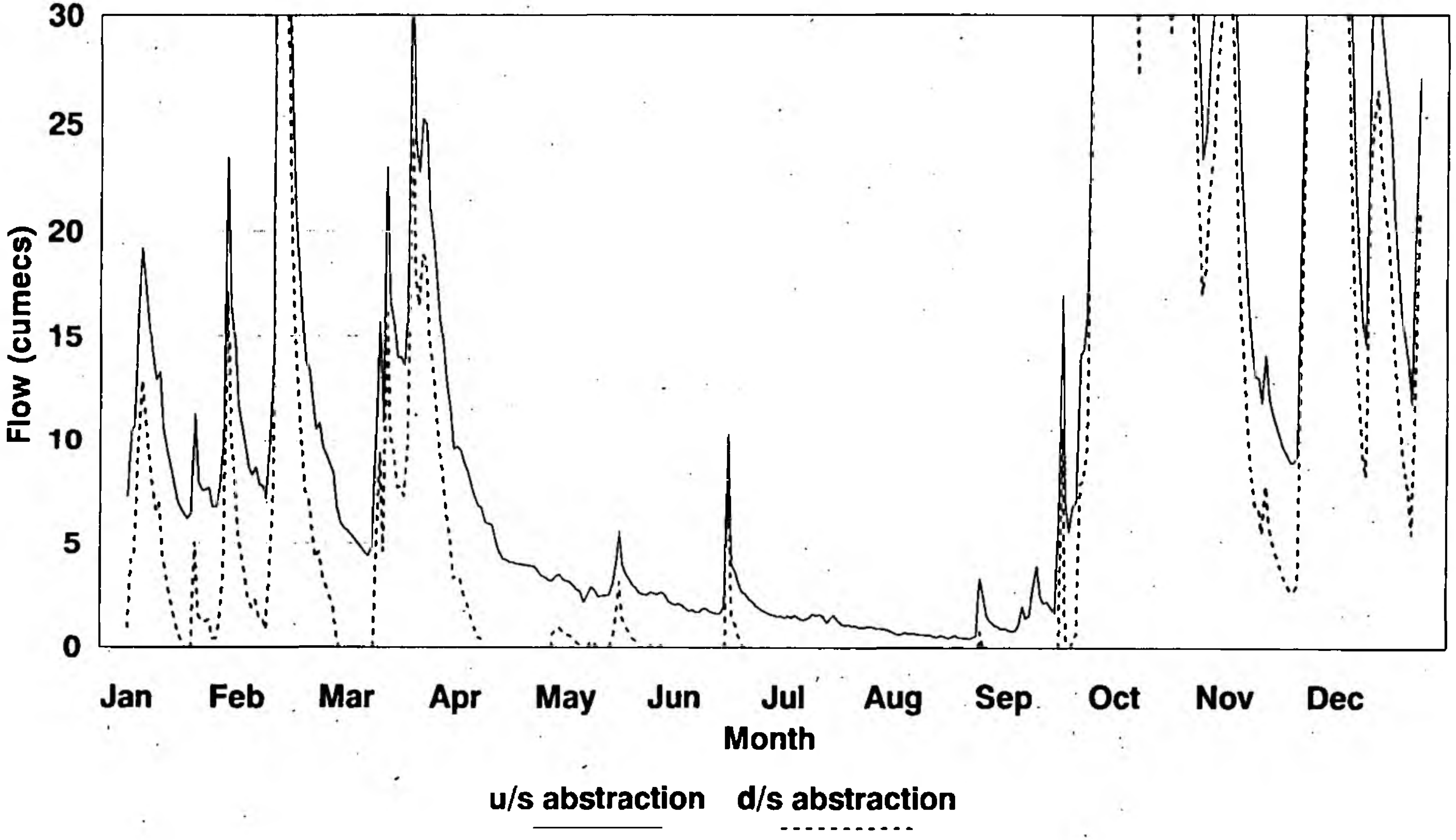


Figure 19a: Hydrographs Upstream of St James Weir - Tidal Limit for the Natural, Existing and Pumped Storage Scenarios in 1975

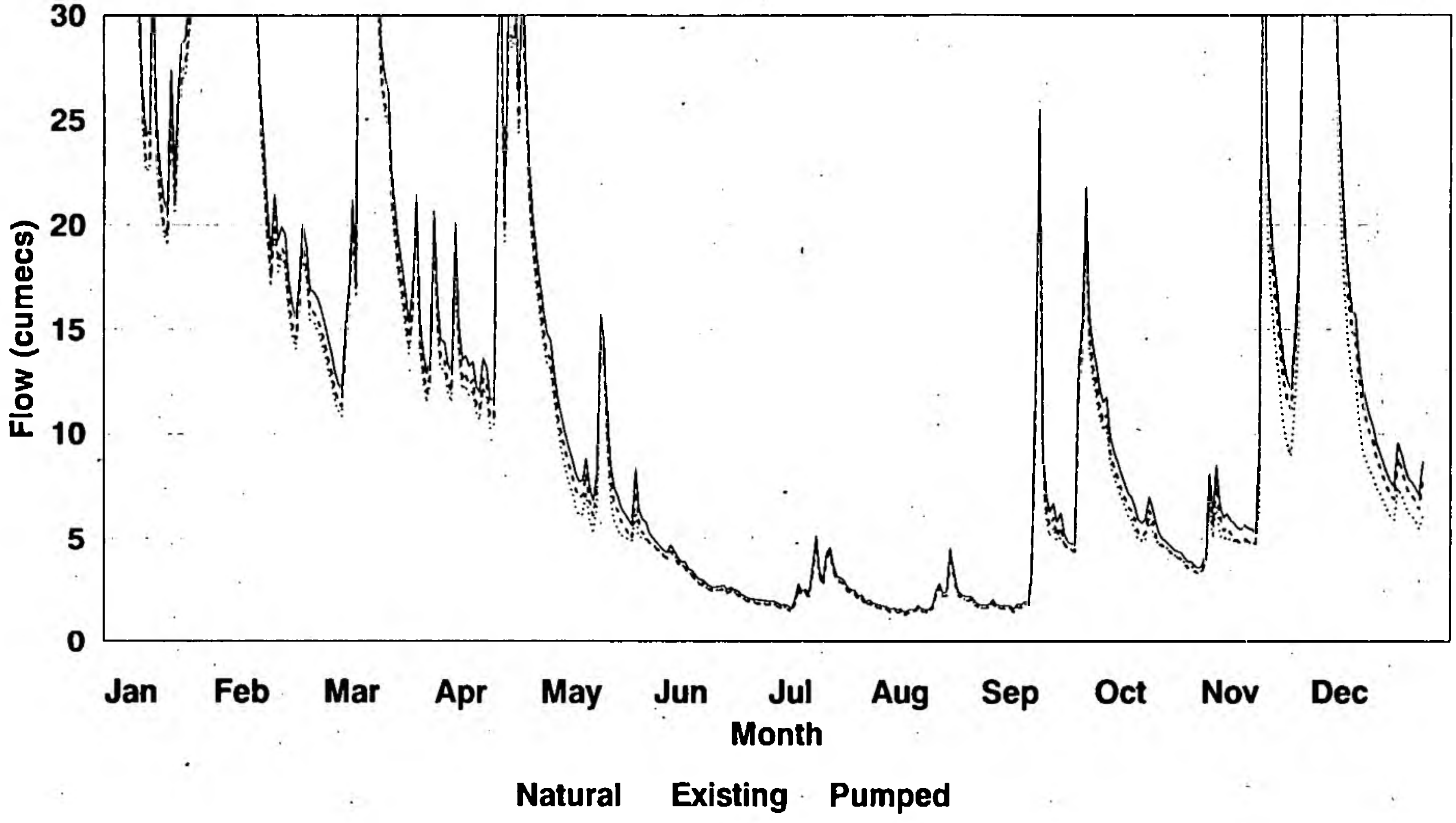


Figure 19b: Hydrographs Upstream of St James Weir - Tidal Limit for the Natural, Existing and Pumped Storage Scenarios in 1976

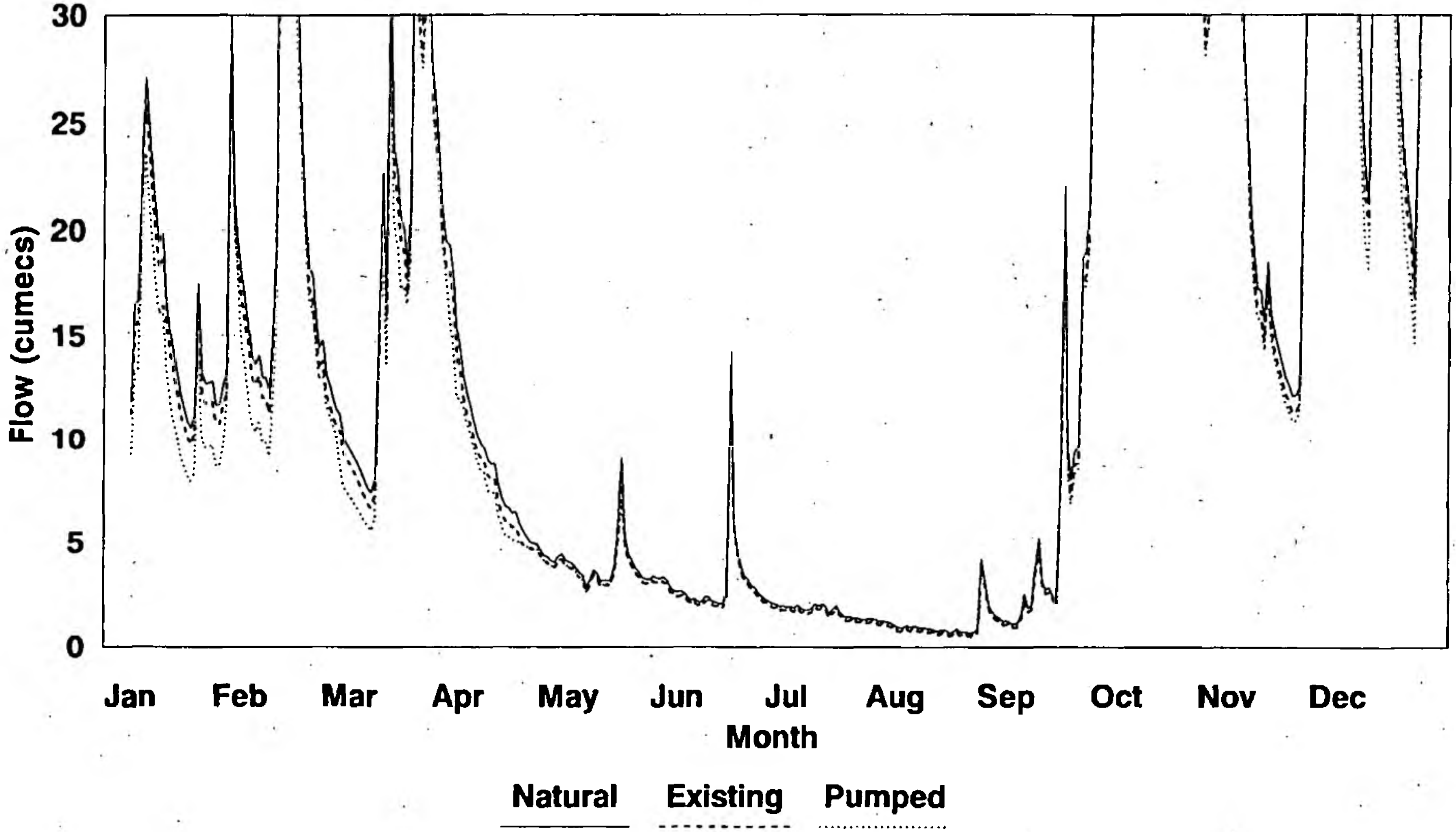


Figure 20: Natural, Existing and Pumped Scenario Flow Duration Curves Downstream of Exebridge for 1975/76

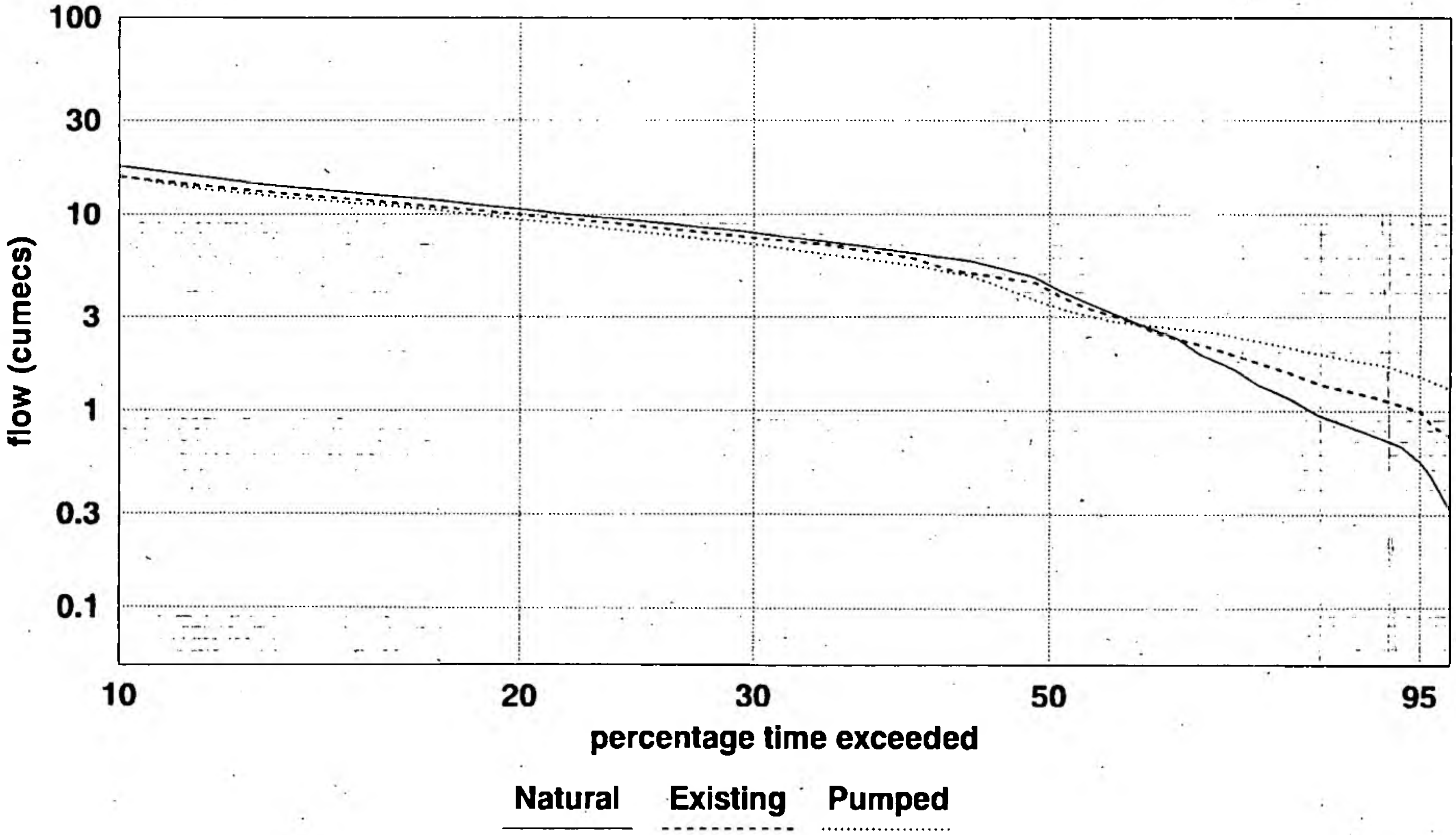


Figure 21: Natural, Existing and Pumped Scenario Flow Duration Curves Upstream of Highleigh Mill Fish Farm Abstraction for 1975/76

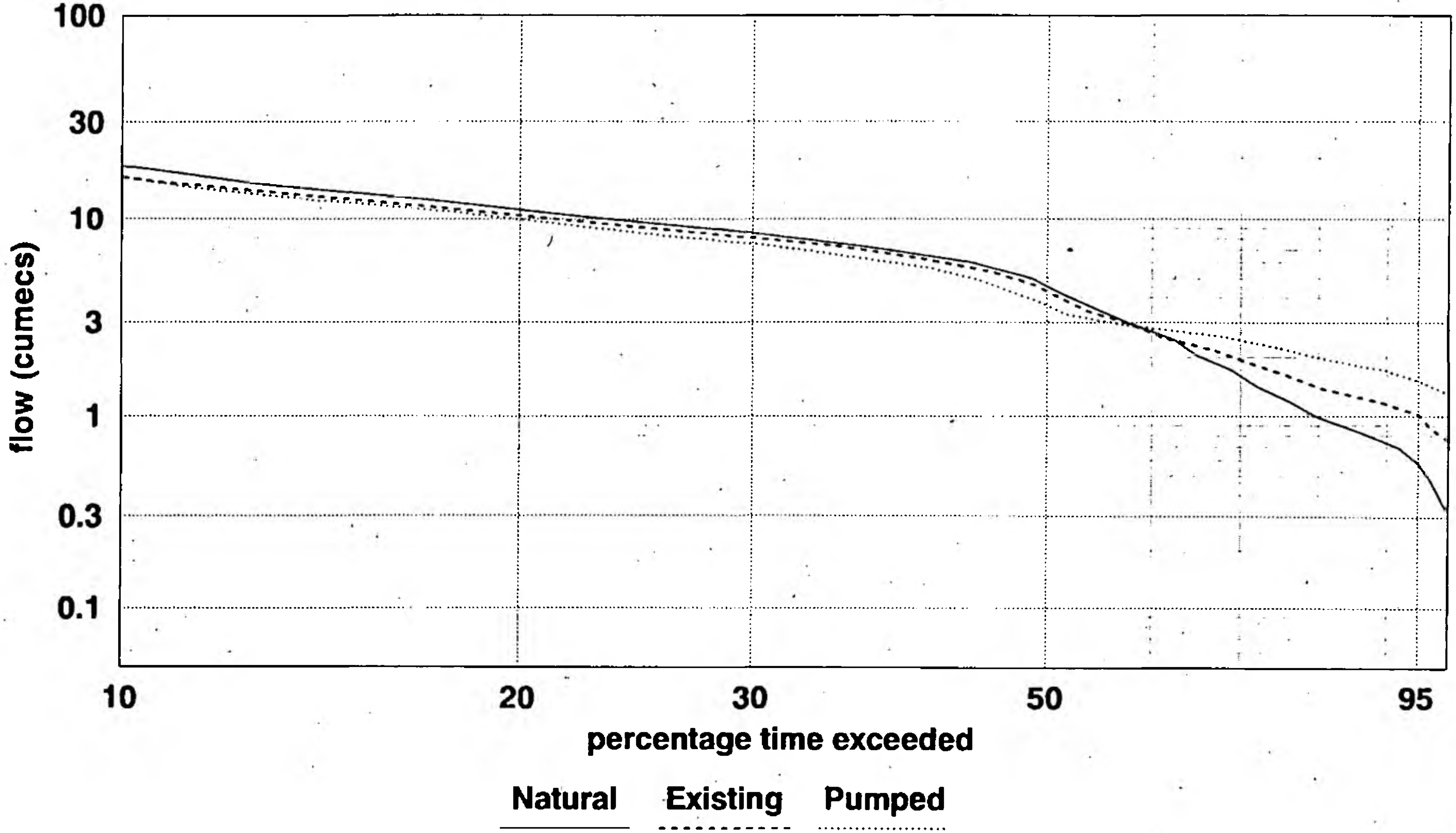


Figure 22: Natural, Existing and Pumped Scenario Flow Duration Curves Downstream of Highleigh Mill Fish Farm Abstraction for 1975/76

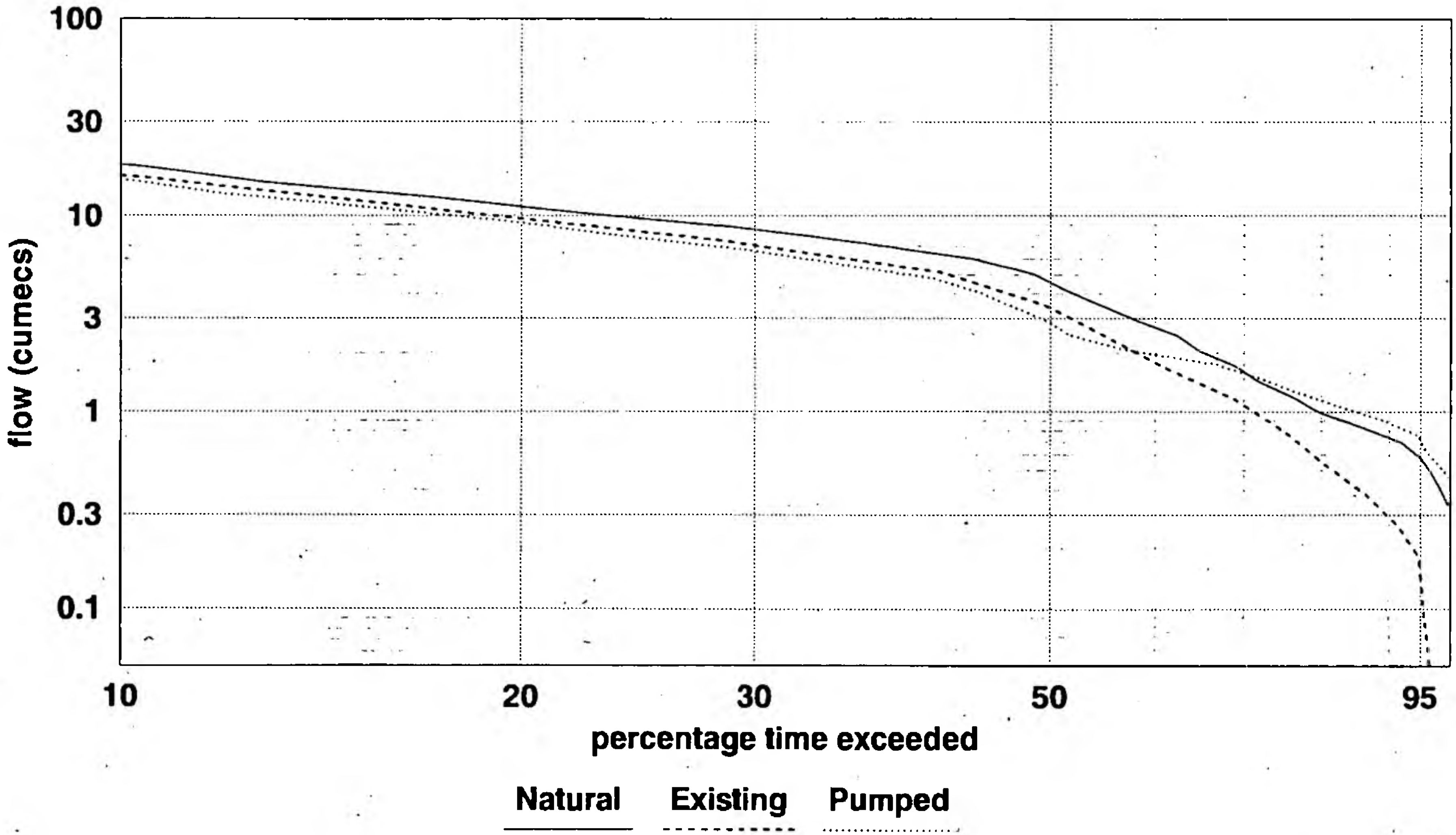


Figure 23: Natural, Existing and Pumped Scenario Flow Duration Curves Upstream of Oakfordbridge Fish Farm Abstraction for 1975/76

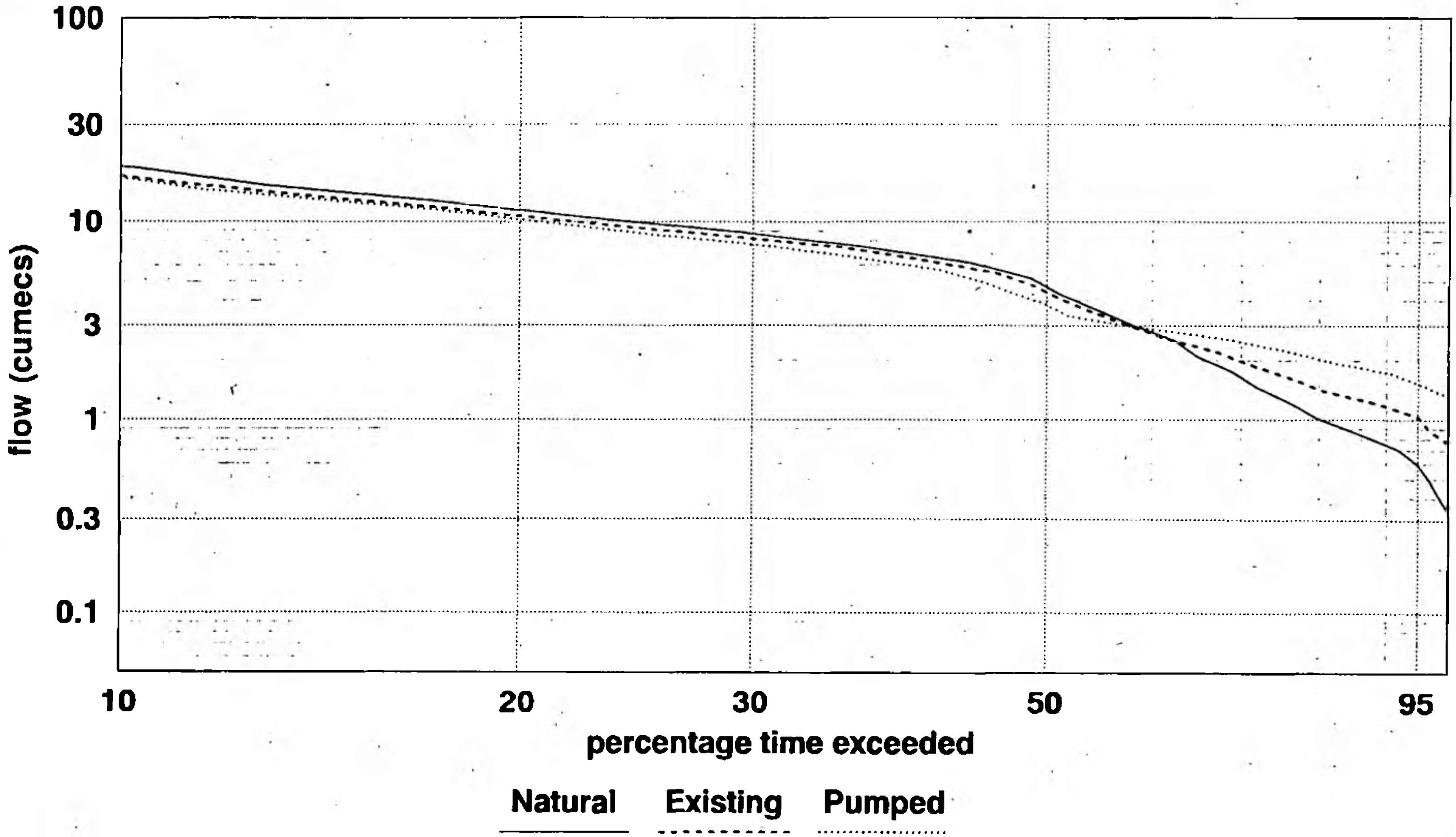


Figure 24: Natural, Existing and Pumped Scenario Flow Duration Curves Downstream of Oakfordbridge Fish Farm Abstraction for 1975/76

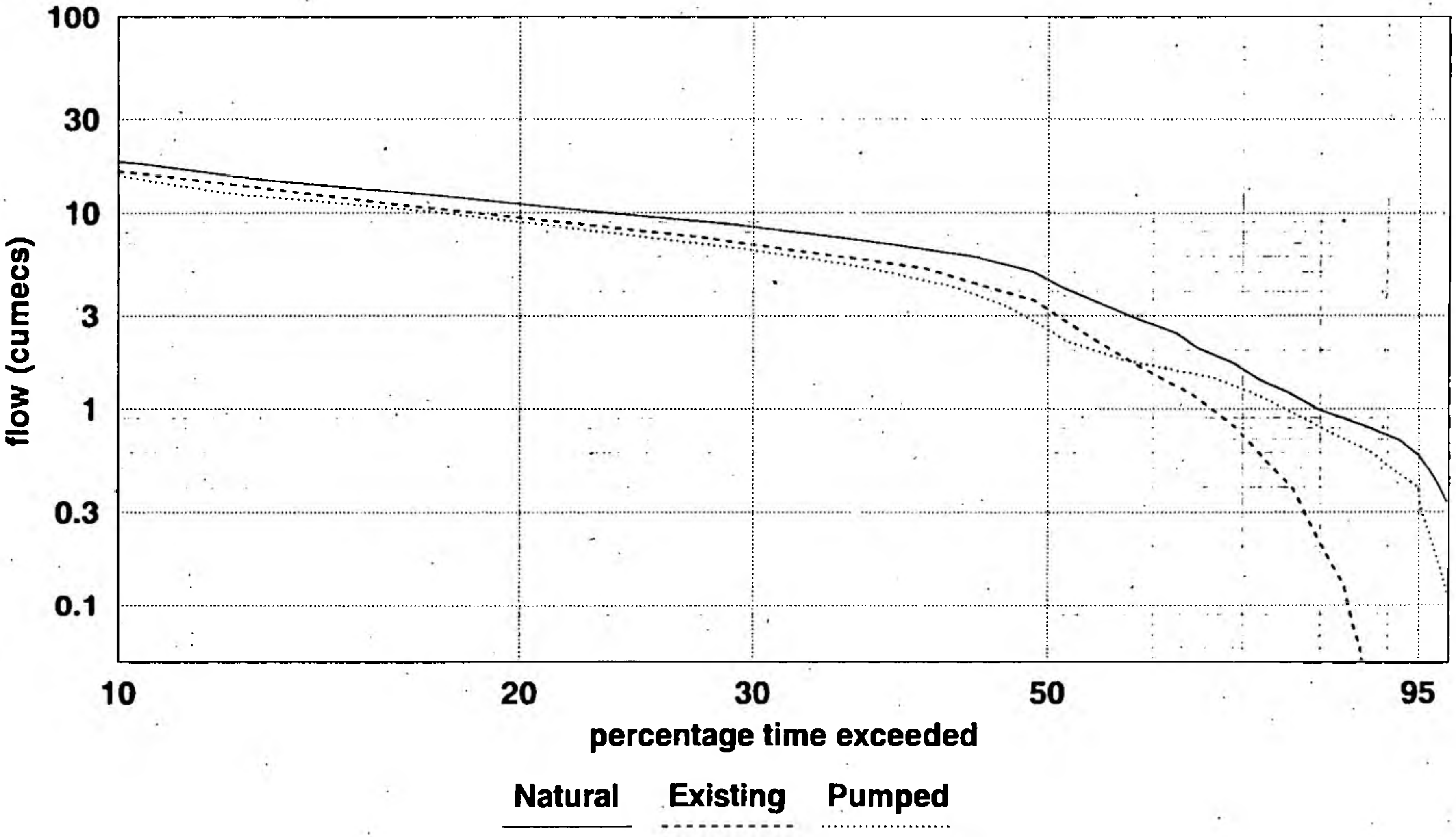


Figure 25: Natural, Existing and Pumped Scenario Flow Duration Curves Upstream of Heathcoats-Tiverton Leat Abstraction for 1975/76

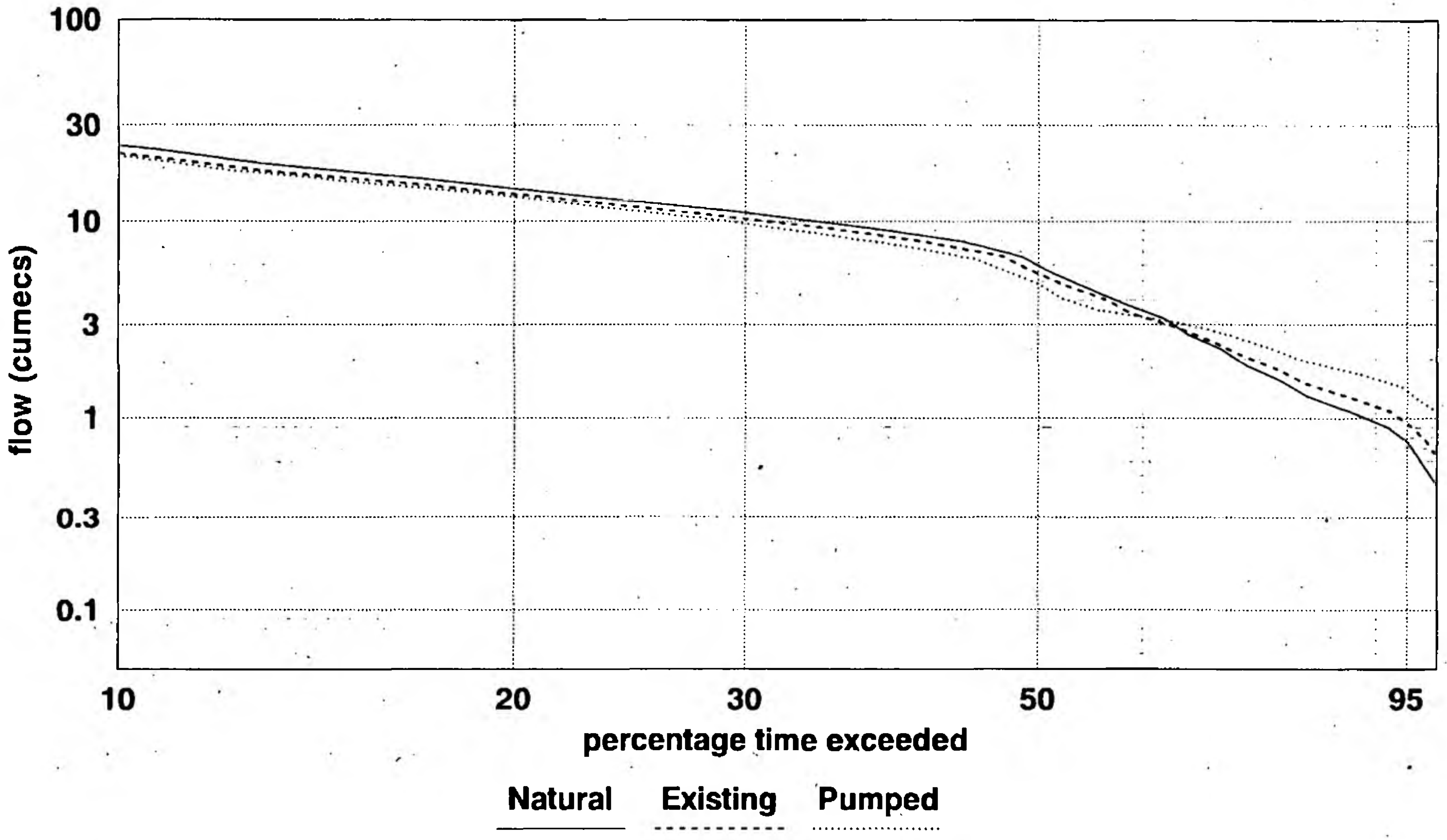


Figure 26: Natural, Existing and Pumped Scenario Flow Duration Curves Downstream of Heathcoats-Tiverton Leat Abstraction for 1975/76

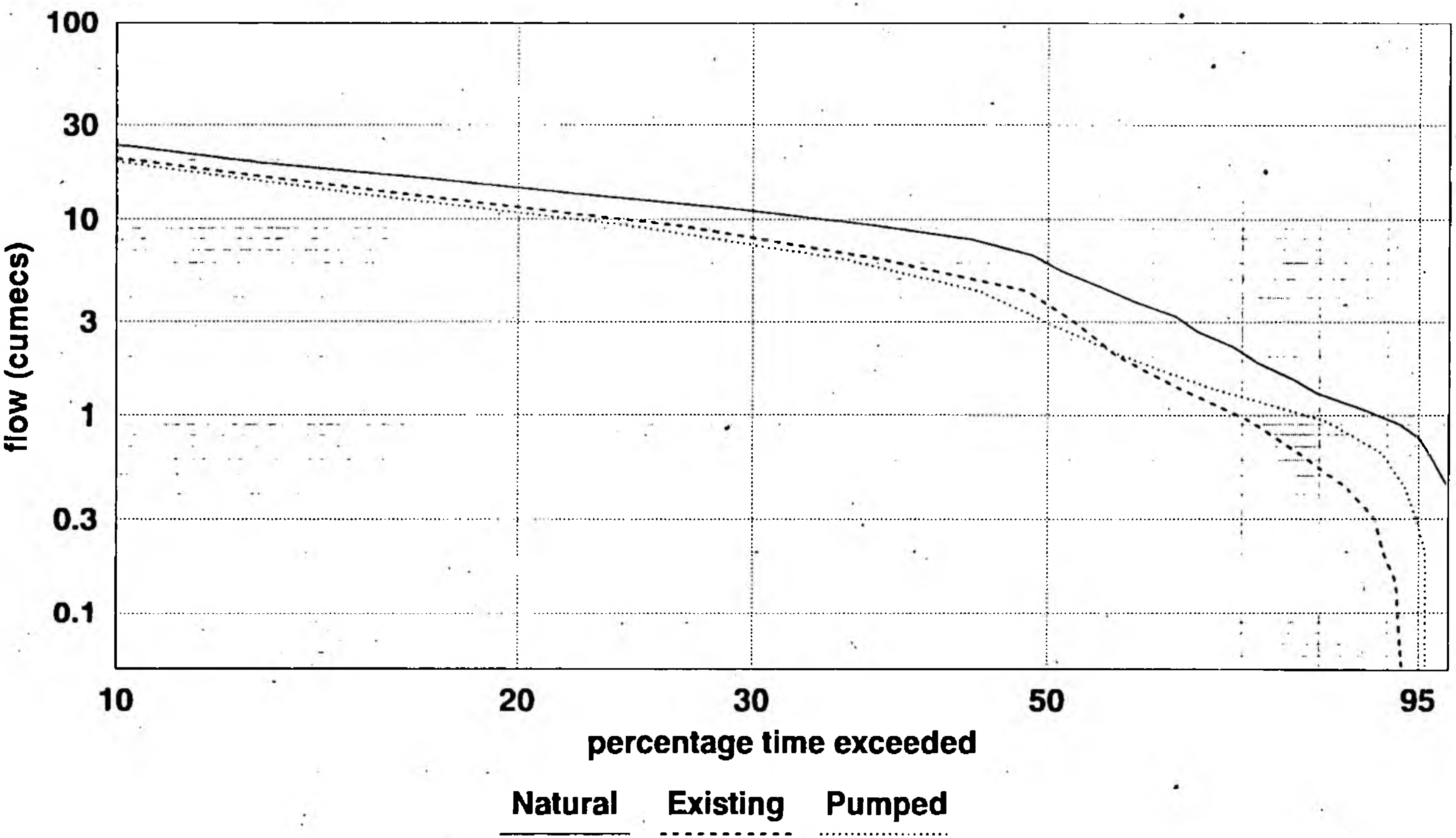


Figure 27: Natural, Existing and Pumped Scenario Flow Duration Curves Upstream of Thorverton Leat Abstraction for 1975/76

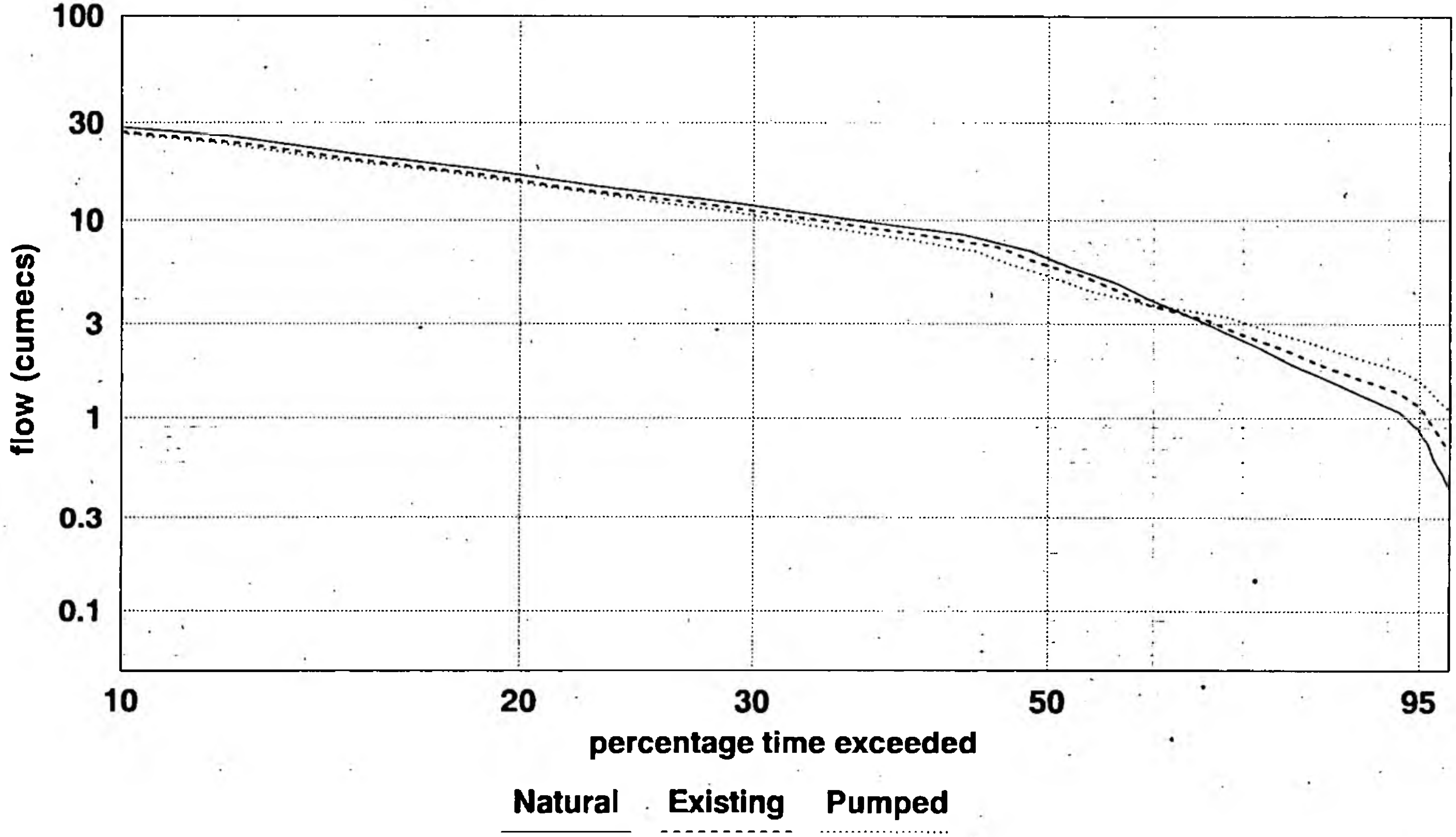


Figure 28: Natural, Existing and Pumped Scenario Flow Duration Curves Downstream of Thorverton Leat Abstraction for 1975/76

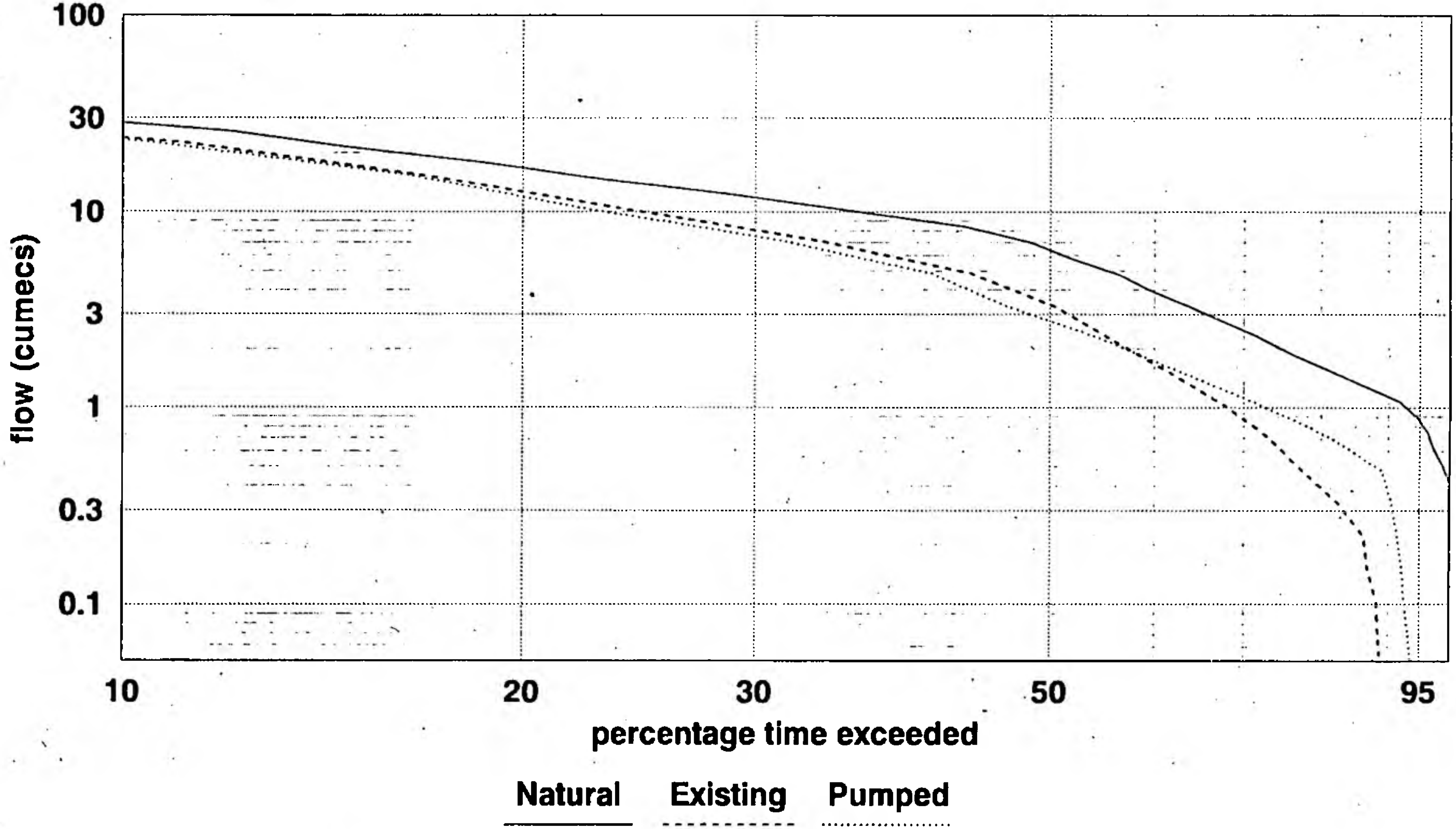


Figure 29: Natural, Existing and Pumped Scenario Flow Duration Curves Downstream of Northbridge for 1975/76

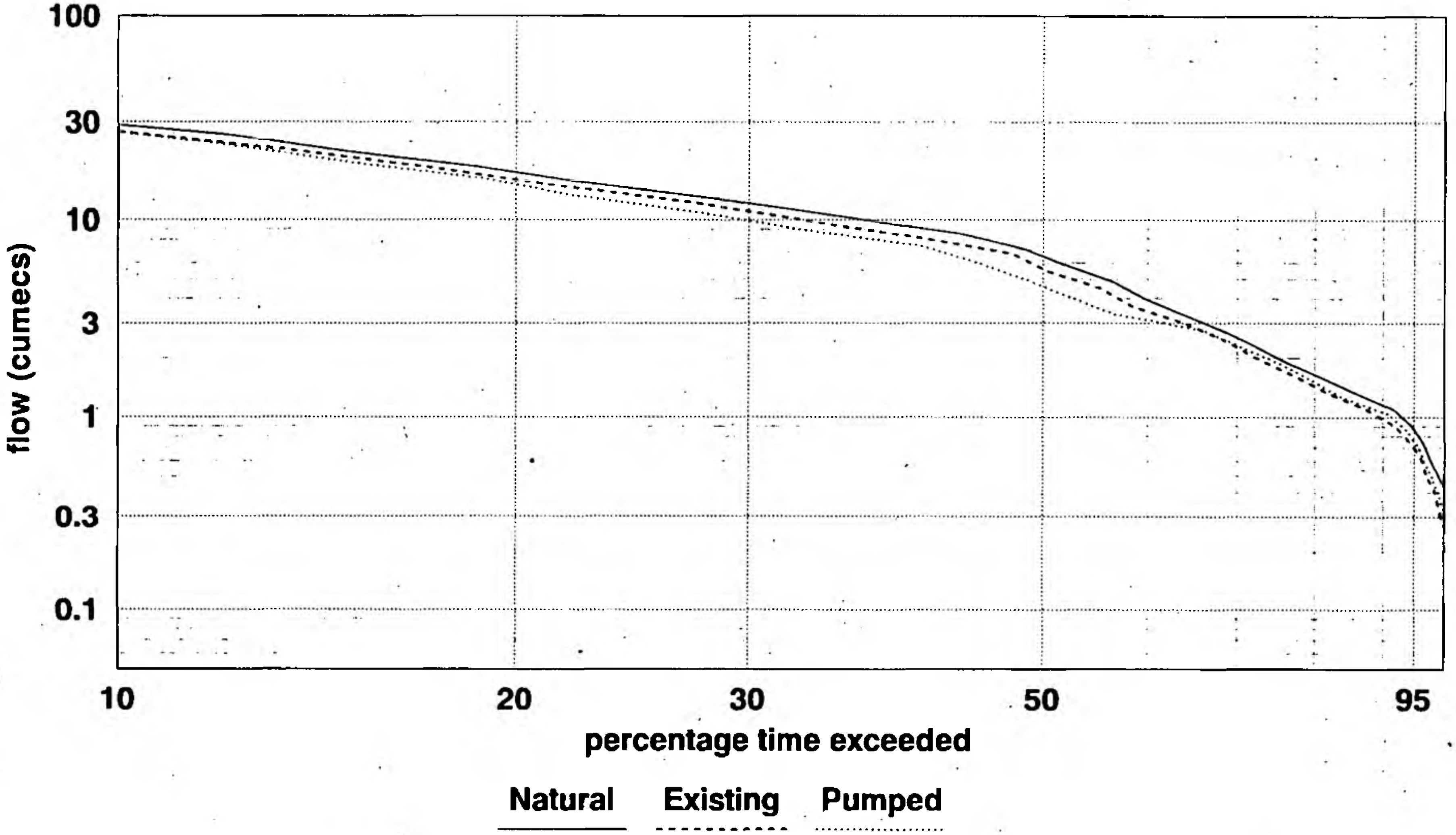


Figure 30: Natural, Existing and Pumped Scenario Flow Duration Curves Upstream of Pynes Leat Abstraction for 1975/76

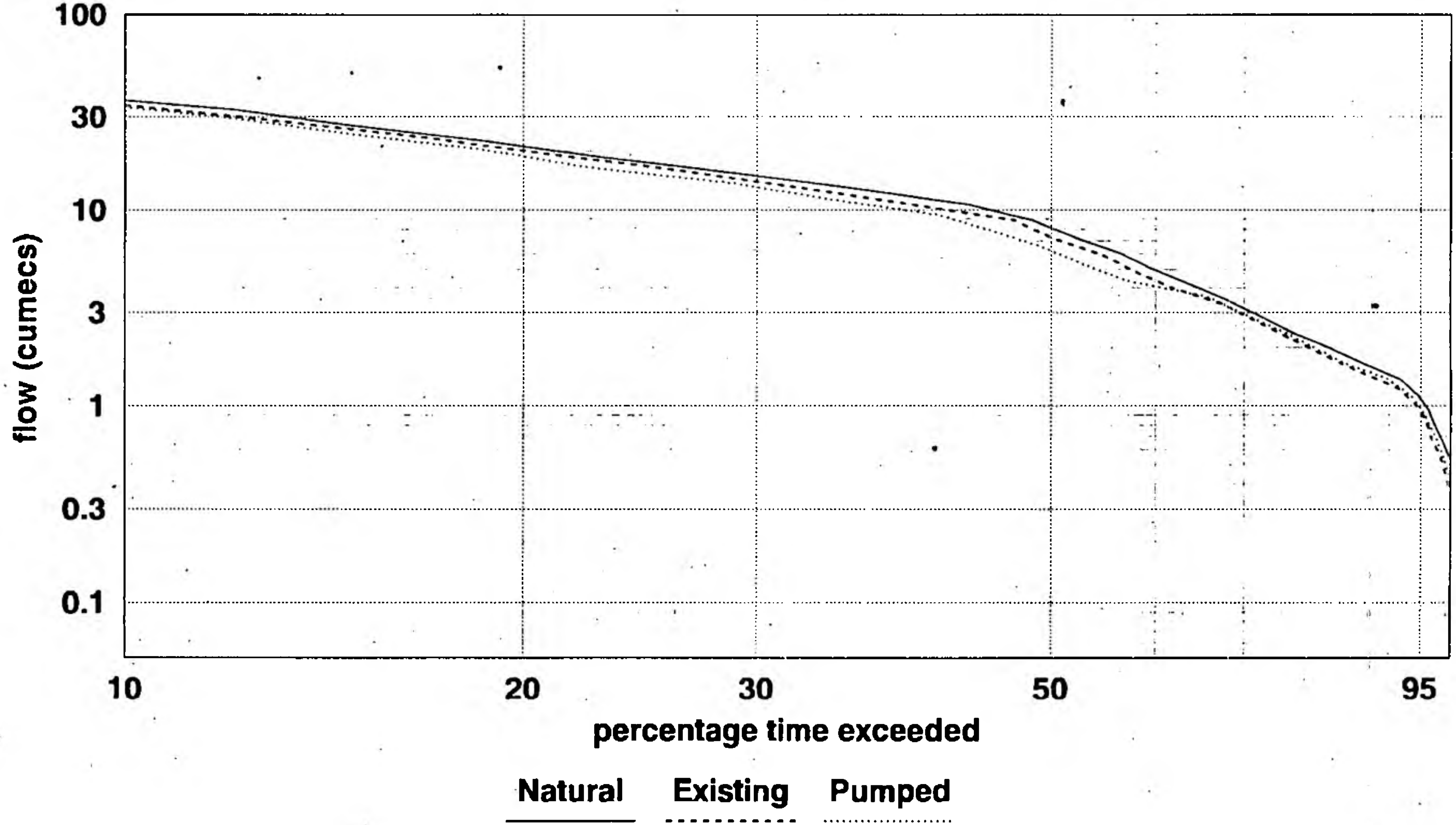


Figure 31: Natural, Existing and Pumped Scenario Flow Duration Curves Downstream of Pynes Leat Abstraction for 1975/76

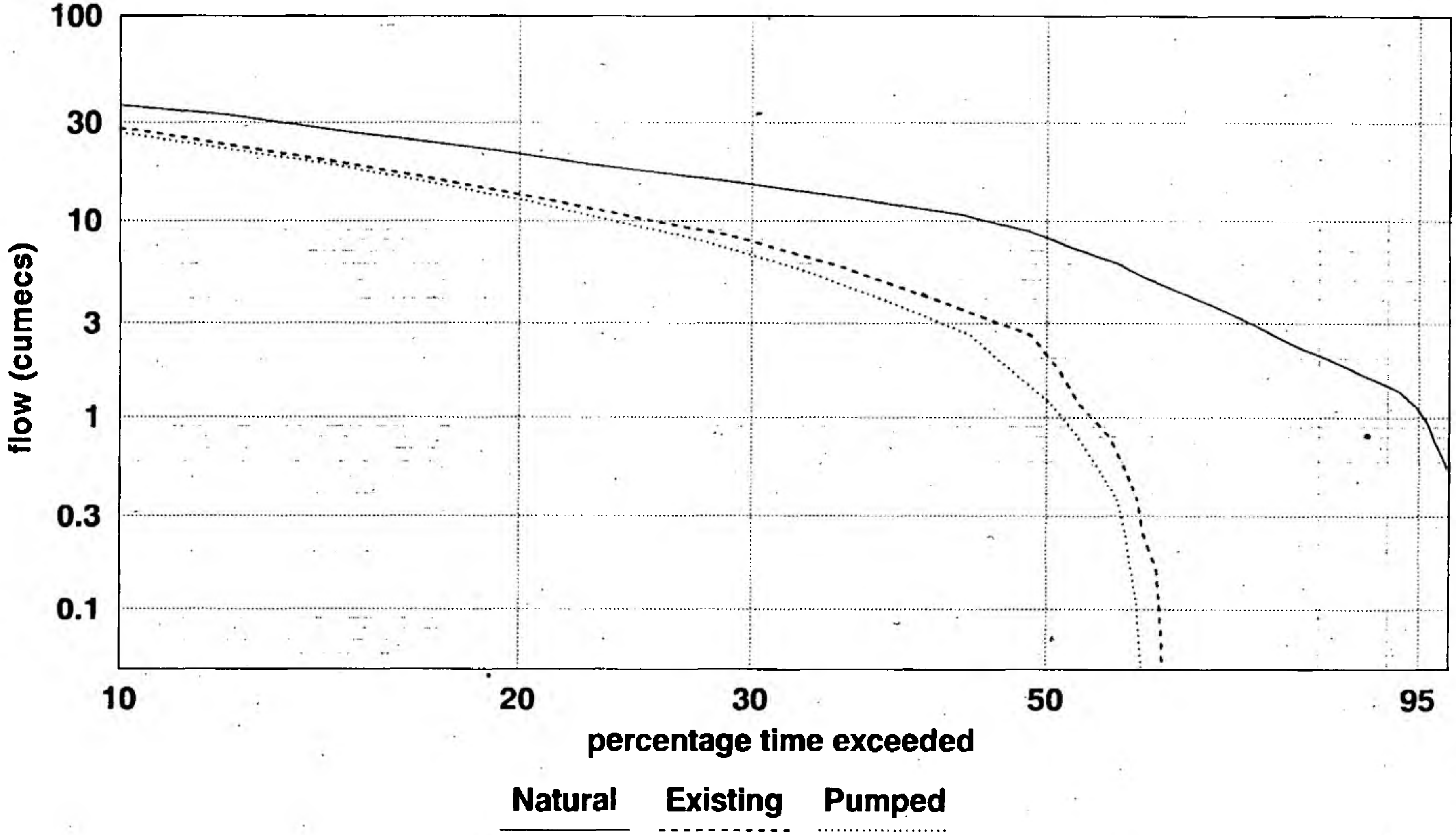


Figure 32: Natural, Existing and Pumped Scenario Flow Duration Curves Upstream of St James Weir - Tidal Limit for 1975/76

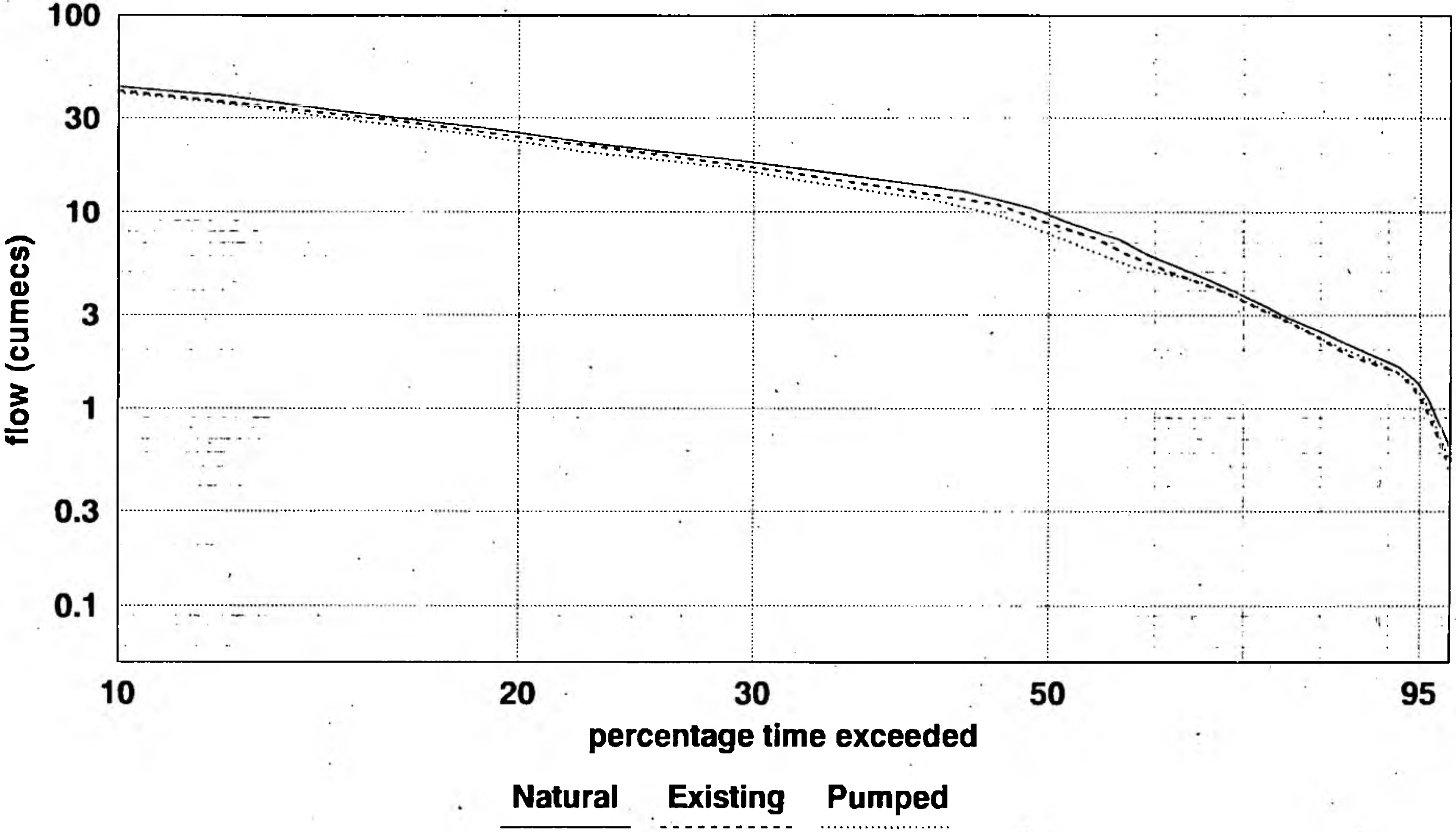
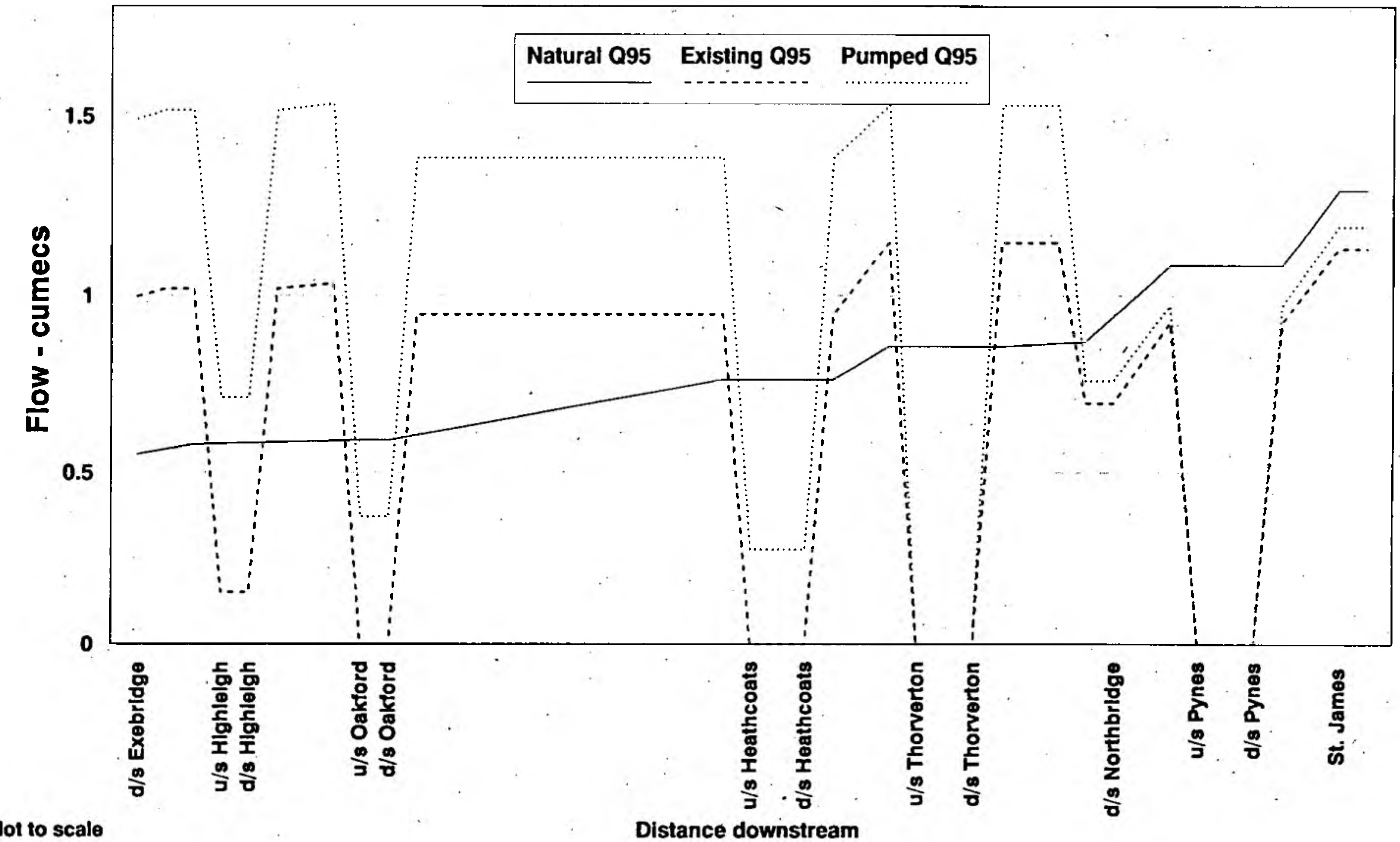


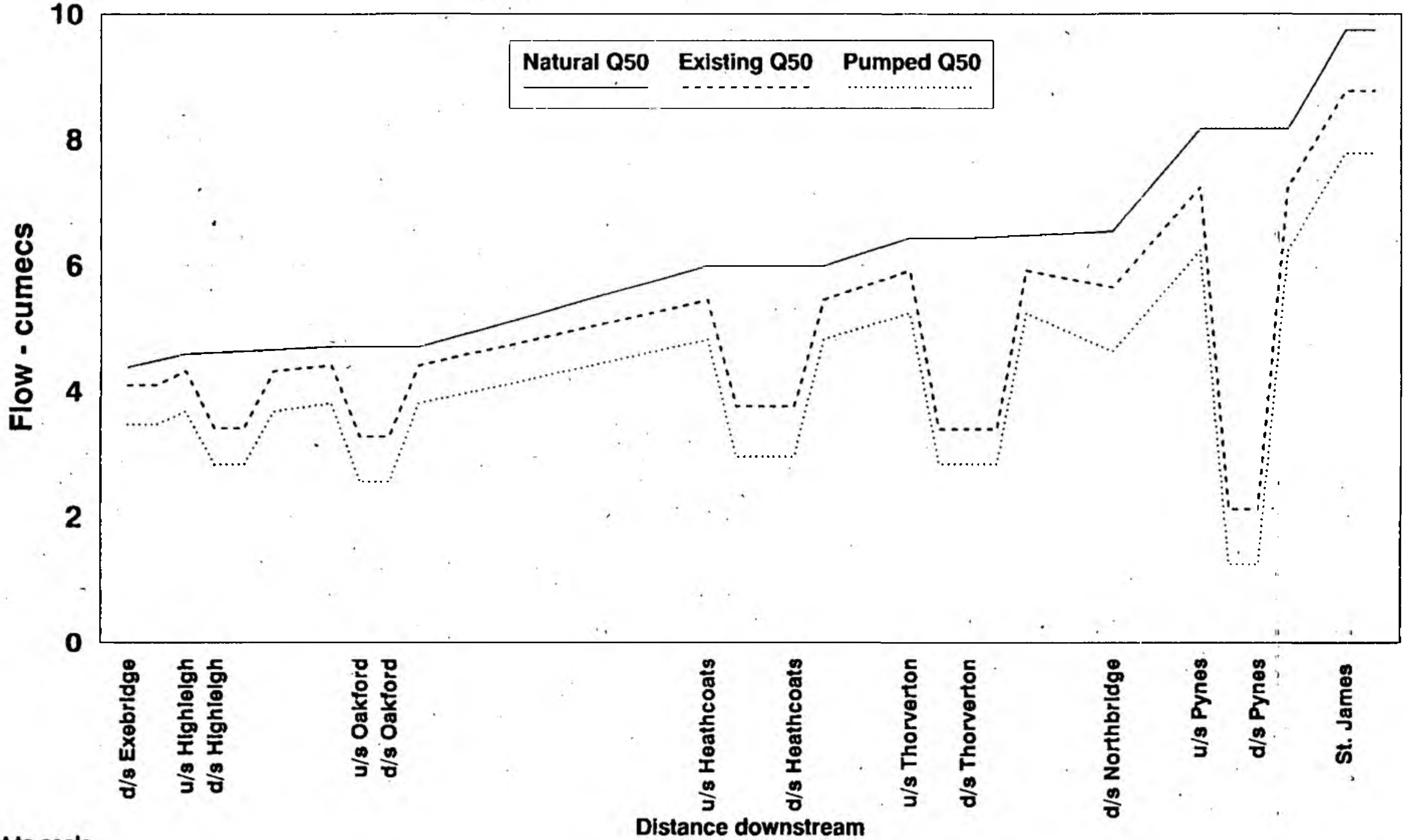
Figure 33: Schematic representation of Flow Accretion Profiles for the River Exe at Q95 conditions under the natural, existing and pumped storage scenarios.



Not to scale

Thorverton leat not currently in use.

Figure 34: Schematic representation of Flow Accretion Profiles for the River Exe at Q50 conditions under the natural, existing and pumped storage scenarios.



Not to scale

Thorverton leat not currently in use.

Table 2: Natural, Existing and Pumped Scenario Q95 and Q50 flow statistics at key sites on the River Exe

Site	Natural		Existing		Pumped	
	Q95	Q50	Q95	Q50	Q95	Q50
Downstream of Exebridge	0.551	4.381	0.999	4.091	1.491	3.467
Upstream of Highleigh Mill	0.578	4.589	1.021	4.314	1.516	3.670
Downstream of Highleigh Mill	0.578	4.589	0.146	3.410	0.710	2.837
Upstream of Oakfordbridge	0.591	4.700	1.034	4.409	1.532	3.800
Downstream of Oakfordbridge	0.591	4.700	0.000	3.276	0.360	2.561
Upstream of Heathcoats	0.761	5.992	0.946	5.445	1.385	4.821
Downstream of Heathcoats	0.761	5.992	0.000	3.752	0.271	2.955
Upstream of Thorverton Leat	0.856	6.434	1.151	5.924	1.530	5.240
Downstream of Thorverton Leat	0.856	6.434	0.000	3.389	0.000	2.844
Downstream of Northbridge	0.869	6.541	0.694	5.652	0.759	4.623
Upstream of Pynes Leat	1.085	8.166	0.924	7.240	0.973	6.236
Downstream of Pynes Leat	1.085	8.166	0.000	2.112	0.000	1.233
Upstream of St. James Weir	1.295	9.741	1.133	8.770	1.195	7.787

Table 3: Percentage differences between the Pumped Storage Scenario Q95 and Q50 and the Natural (1) and Existing (2) Q95 and Q50 statistics.

Site	Q95 (1)	Q95 (2)	Q50 (1)	Q50 (2)
Downstream of Exebridge	+171	+49	-21	-15
Upstream of Highleigh Mill	+161	+49	-20	-15
Upstream of Oakfordbridge	+159	+48	-19	-14
Upstream of Heathcoats	+82	+46	-20	-12
Upstream of Thorverton Leat	+79	+33	-19	-12
Downstream of Northbridge	-13	+9	-29	-18
Upstream of Pynes Leat	-10	+5	-24	-14
Upstream of St. James Weir	-8	+6	-20	-11

Appendix 1: Theoretical ADFs at gauging stations and sites of interest on the River Exe with ratios of ADF at the site to the nearest gauging station.

Site	ADF (cumecs)	Grid Reference	Gauging Station	Ratio
Stoodleigh gauging station	12.673	SS 944 172		
Thorverton gauging station	15.618	SS 931 007		
Exebridge	9.706	SS 932 245	Stoodleigh	0.766
Highleigh Mill Fish Farm	10.159	SS 920 228	Stoodleigh	0.802
Oakfordbridge Fish Farm	10.423	SS 939 228	Stoodleigh	0.822
Tiverton at Heathcoats	13.285	SS 954 129	Stoodleigh	1.048
Upstream of Thorverton leat	15.488	SS 936 024	Thorverton	0.992
Northbridge	15.760	SX 931 971	Thorverton	1.009
Upstream of Pynes leat	19.671	SX 921 963	Thorverton	1.260
St James Weir Tidal Limit	23.473	SX 930 910	Thorverton	1.503

Appendix 2 : Naturalisation equations for Stoodleigh and Thorverton gauging stations.

Stoodleigh gauging station.

1. 1/5/56 - 31/12/61

   Stoodleigh naturalised flow = Thorverton naturalised flow * Ratio of theoretical ADFs.

2. 1/1/62 - 8/1/78

   Stoodleigh naturalised flow = Stoodleigh gauged flow.

3. 9/1/78 - 13/6/85

   Stoodleigh naturalised flow = Stoodleigh gauged flow + Wessex abstraction + change in storage of Wimbleball.

4. 14/6/85 onwards

   Stoodleigh naturalised flow = Stoodleigh gauged flow + Exe-Taw transfer + Wessex abstraction + Change in storage of Wimbleball.

Thorverton gauging station.

5. 1/5/56 - 9/1/78

   Thorverton naturalised flow = Thorverton gauged flow + Bolham abstraction - Tiverton STW return.

6. 10/1/78 - 14/6/85

   Thorverton naturalised flow = Thorverton gauged flow + Wessex abstraction for previous day + Bolham abstraction- Tiverton STW return + Change in storage of Wimbleball for previous day.

7. 15/6/85 onwards

   Thorverton naturalised flow = Thorverton gauged flow + Exe-Taw transfer + Wessex abstraction for previous day + Bolham abstraction - Tiverton STW return + Change in storage of Wimbleball for previous day.

Appendix 3: Equations used to produce existing and pumped storage flows at sites on the River Exe.

1. Downstream of Exebridge

Existing flow = Natural flow - Wimbleball inflow + PWS release + Compensation release.

Pumped Storage flow = Natural flow - Wimbleball inflow + PWS release- Pumping abstraction + Compensation release.

2. Upstream of Highleigh Fish Farm

Existing flow = Natural flow - Wimbleball inflow + PWS release + Compensation release.

Pumped Storage flow = Natural flow - Wimbleball inflow + PWS release- Pumping abstraction + Compensation release.

3. Upstream of Oakfordbridge Fish Farm

Existing flow = Natural flow - Wimbleball inflow + PWS release + Compensation release.

Pumped Storage flow = Natural flow - Wimbleball inflow + PWS release- Pumping abstraction + Compensation release.

4. Tiverton - upstream of Heathcoats abstraction.

Existing flow = Natural flow - Wimbleball inflow + PWS release - Bolham abstraction + Compensation release.

Pumped Storage flow = Natural flow - Wimbleball inflow + PWS release- Pumping abstraction - Bolham abstraction + Compensation release.

5. Upstream of Thorverton leat

Existing flow = Natural flow - Wimbleball inflow + PWS release - Bolham abstraction + Tiverton return + Compensation release.

Pumped Storage flow = Natural flow - Wimbleball inflow + PWS release- Pumping abstraction - Bolham abstraction + Tiverton return + Compensation release.

6. **Downstream of Northbridge**

Existing flow = Natural flow - Wimbleball inflow + PWS release - Bolham abstraction - Northbridge abstraction + Tiverton return + Compensation release.

Pumped Storage flow = Natural flow - Wimbleball inflow + PWS release- Pumping abstraction - Bolham abstraction - Northbridge abstraction + Tiverton return + Compensation release.

7. **Upstream of Pynes leat**

Existing flow = Natural flow - Wimbleball inflow + PWS release - Bolham abstraction - Northbridge abstraction + Tiverton return + Compensation release.

Pumped Storage flow = Natural flow - Wimbleball inflow + PWS release- Pumping abstraction - Bolham abstraction - Northbridge abstraction + Tiverton return + Compensation release.

8. **St. James Weir - Tidal Limit**

Existing flow = Natural flow - Wimbleball inflow + PWS release - Bolham abstraction - Northbridge abstraction + Tiverton return + Compensation release.

Pumped Storage flow = Natural flow - Wimbleball inflow + PWS release- Pumping abstraction - Bolham abstraction - Northbridge abstraction + Tiverton return + Compensation release.

Appendix 4: SWWSL ExeSim Case U Output

OUTPUT FROM WIMBLEBALL LAKE COMPUTER SIMULATION MODEL

PARAMETER INPUT FILE: WPARDEVU.DAT
DATE OF PROGRAM RUN : 15.02.1993

Daily details
WIMBLEBALL LAKE FLOWS

DY	MO	YR	STORAGE	TOTAL RELEASE	PWS RELEASE	FTS RELEASE	OTHER LEAKAGE	EVAPOR-ATION	INFLOW	RAIN-FALL	SPILL	TOTAL FLOW	PUMP	AV.FLOW EXEBR.	AV.FLOW THORV.	SUPPLY ALLERS	SUPPLY PYNES	SUPPLY MAUND.	SUPPLY TAWTR.
1	1	1975	21320.	.819	.000	8.281	2.947	.540	119.232	2.933	87.080	96.180	.00	.00	2215.43	15.651	32.900	22.497	.000
2	1	1975	21320.	.819	.000	8.281	2.947	.540	100.224	2.465	67.605	76.705	.00	.00	1898.35	15.651	32.900	22.497	.000
3	1	1975	21320.	.819	.000	8.281	2.947	.540	83.808	2.061	50.785	59.885	.00	.00	1480.83	15.651	32.900	22.497	.000
4	1	1975	21320.	.819	.000	8.281	2.947	.540	74.304	1.828	41.047	50.147	.00	.00	1221.46	15.651	32.900	22.497	.000
5	1	1975	21320.	.819	.000	8.281	2.947	.540	69.120	1.700	35.736	44.836	.00	.00	1077.03	15.651	32.900	22.497	.000
6	1	1975	21320.	.819	.000	8.281	2.947	.540	87.264	2.146	54.326	63.426	.00	.00	1073.90	15.651	32.900	22.497	.000
7	1	1975	21320.	.819	.000	8.281	2.947	.540	79.488	1.955	46.359	55.459	.00	.00	1646.00	15.651	32.900	22.497	.000
8	1	1975	21320.	.819	.000	8.281	2.947	.540	68.256	1.679	34.852	43.952	.00	.00	1112.73	15.651	32.900	22.497	.000
9	1	1975	21320.	.819	.000	8.281	2.947	.540	63.936	1.573	30.424	39.524	.00	.00	984.59	15.651	32.900	22.497	.000
10	1	1975	21320.	.819	.000	8.281	2.947	.540	61.344	1.509	27.770	36.870	.00	.00	899.68	15.651	32.900	22.497	.000
11	1	1975	21320.	.819	.000	8.281	2.947	.540	59.616	1.466	25.998	35.098	.00	.00	865.53	15.651	32.900	22.497	.000
12	1	1975	21320.	.819	.000	8.281	2.947	.540	79.488	1.955	46.359	55.459	.00	.00	1232.91	15.651	32.900	22.497	.000
13	1	1975	21320.	.819	.000	8.281	2.947	.540	63.072	1.551	29.539	38.639	.00	.00	969.02	15.651	32.900	22.497	.000
14	1	1975	21320.	.819	.000	8.281	2.947	.540	71.712	1.764	38.393	47.493	.00	.00	1170.54	15.651	32.900	22.497	.000
15	1	1975	21320.	.819	.000	8.281	2.947	.540	73.440	1.806	40.162	49.262	.00	.00	1321.67	15.651	32.900	22.497	.000
16	1	1975	21320.	.819	.000	8.281	2.947	.540	72.576	1.785	39.277	48.377	.00	.00	1338.55	15.651	32.900	22.497	.000
17	1	1975	21320.	.819	.000	8.281	2.947	.540	80.352	1.976	47.244	56.344	.00	.00	1439.42	15.651	32.900	22.497	.000
18	1	1975	21320.	.819	.000	8.281	2.947	.540	77.760	1.913	44.588	53.688	.00	.00	1552.74	15.651	32.900	22.497	.000
19	1	1975	21320.	.819	.000	8.281	2.947	.540	146.880	3.613	115.408	124.508	.00	.00	2017.02	15.651	32.900	22.497	.000
20	1	1975	21320.	.819	.000	8.281	2.947	.540	232.416	5.716	203.049	212.149	.00	.00	5188.83	15.651	32.900	22.497	.000
21	1	1975	21320.	.819	.000	8.281	2.947	.540	196.128	4.824	165.867	174.967	.00	.00	3605.46	15.651	32.900	22.497	.000
22	1	1975	21320.	.819	.000	8.281	2.947	.540	451.872	11.114	427.902	437.002	.00	.00	8194.91	15.651	32.900	22.497	.000
23	1	1975	21320.	.819	.000	8.281	2.947	.540	292.032	7.183	264.131	273.231	.00	.00	5469.13	15.651	32.900	22.497	.000
24	1	1975	21320.	.819	.000	8.281	2.947	.540	215.136	5.291	185.344	194.444	.00	.00	3841.63	15.651	32.900	22.497	.000
25	1	1975	21320.	.819	.000	8.281	2.947	.540	231.552	5.695	202.162	211.262	.00	.00	4164.71	15.651	32.900	22.497	.000
26	1	1975	21320.	.819	.000	8.281	2.947	.540	193.536	4.760	163.213	172.313	.00	.00	3567.65	15.651	32.900	22.497	.000
27	1	1975	21320.	.819	.000	8.281	2.947	.540	209.088	5.143	179.146	188.246	.00	.00	4017.86	15.651	32.900	22.497	.000
28	1	1975	21320.	.819	.000	8.281	2.947	.540	398.304	9.796	373.016	382.116	.00	.00	7978.08	15.651	32.900	22.497	.000
29	1	1975	21320.	.819	.000	8.281	2.947	.540	260.928	6.418	232.262	241.362	.00	.00	5100.45	15.651	32.900	22.497	.000
30	1	1975	21320.	.819	.000	8.281	2.947	.540	225.504	5.546	195.967	205.067	.00	.00	4284.79	15.651	32.900	22.497	.000
31	1	1975	21320.	.819	.000	8.281	2.947	.540	254.880	6.269	226.064	235.164	.00	.00	4808.72	15.651	32.900	22.497	.000
1	2	1975	21320.	.819	.000	8.281	2.947	.960	179.712	4.420	147.832	156.932	.00	.00	3436.93	15.984	33.600	23.292	.000
2	2	1975	21320.	.819	.000	8.281	2.947	.960	145.152	3.570	112.422	121.522	.00	.00	2848.20	15.984	33.600	23.292	.000
3	2	1975	21320.	.819	.000	8.281	2.947	.960	117.504	2.890	84.094	93.194	.00	.00	2344.24	15.984	33.600	23.292	.000
4	2	1975	21320.	.819	.000	8.281	2.947	.960	96.768	2.380	62.848	71.948	.00	.00	1852.19	15.984	33.600	23.292	.000
5	2	1975	21320.	.819	.000	8.281	2.947	.960	82.080	2.019	47.799	56.899	.00	.00	1468.74	15.984	33.600	23.292	.000
6	2	1975	21320.	.819	.000	8.281	2.947	.960	72.576	1.785	38.061	47.161	.00	.00	1205.07	15.984	33.600	23.292	.000
7	2	1975	21320.	.819	.000	8.281	2.947	.960	66.528	1.636	31.865	40.965	.00	.00	1055.43	15.984	33.600	23.292	.000
8	2	1975	21320.	.819	.000	8.281	2.947	.960	60.480	1.488	25.668	34.768	.00	.00	891.74	15.984	33.600	23.292	.000
9	2	1975	21320.	.819	.000	8.281	2.947	.960	54.432	1.339	19.471	28.571	.00	.00	756.00	15.984	33.600	23.292	.000
10	2	1975	21320.	.819	.000	8.281	2.947	.960	56.160	1.381	21.242	30.342	.00	.00	909.91	15.984	33.600	23.292	.000
11	2	1975	21320.	.819	.000	8.281	2.947	.960	52.704	1.296	17.701	26.801	.00	.00	790.97	15.984	33.600	23.292	.000
12	2	1975	21320.	.819	.000	8.281	2.947	.960	53.568	1.318	18.586	27.686	.00	.00	822.14	15.984	33.600	23.292	.000
13	2	1975	21320.	.819	.000	8.281	2.947	.960	53.568	1.318	18.586	27.686	.00	.00	806.98	15.984	33.600	23.292	.000
14	2	1975	21320.	.819	.000	8.281	2.947	.960	48.384	1.190	13.275	22.375	.00	.00	681.95	15.984	33.600	23.292	.000
15	2	1975	21320.	.819	.000	8.281	2.947	.960	44.064	1.084	8.848	17.948	.00	.00	609.35	15.984	33.600	23.292	.000
16	2	1975	21320.	.819	.000	8.281	2.947	.960	42.336	1.041	7.078	16.178	.00	.00	569.44	15.984	33.600	23.292	.000
17	2	1975	21320.	.819	.000	8.281	2.947	.960	50.976	1.254	15.930	25.030	.00	.00	679.80	15.984	33.600	23.292	.000
18	2	1975	21320.	.819	.000	8.281	2.947	.960	56.160	1.381	21.242	30.342	.00	.00	824.97	15.984	33.600	23.292	.000
19	2	1975	21320.	.819	.000	8.281	2.947	.960	51.840	1.275	16.816	25.916	.00	.00	768.61	15.984	33.600	23.292	.000

20	2	1975	21320.	.819	.000	8.281	2.947	.960	50.112	1.233	15.045	24.145	.00	.00	654.11	15.984	33.600	23.292	.000
21	2	1975	21320.	.819	.000	8.281	2.947	.960	50.112	1.233	15.045	24.145	.00	.00	645.40	15.984	33.600	23.292	.000
22	2	1975	21320.	.819	.000	8.281	2.947	.960	49.248	1.211	14.160	23.260	.00	.00	630.41	15.984	33.600	23.292	.000
23	2	1975	21320.	.819	.000	8.281	2.947	.960	48.384	1.190	13.275	22.375	.00	.00	601.75	15.984	33.600	23.292	.000
24	2	1975	21320.	.819	.000	8.281	2.947	.960	44.928	1.105	9.734	18.834	.00	.00	564.23	15.984	33.600	23.292	.000
25	2	1975	21320.	.819	.000	8.281	2.947	.960	42.336	1.041	7.078	16.178	.00	.00	519.75	15.984	33.600	23.292	.000
26	2	1975	21320.	.819	.000	8.281	2.947	.960	38.880	.956	3.537	12.637	.00	.00	477.80	15.984	33.600	23.292	.000
27	2	1975	21320.	.819	.000	8.281	2.947	.960	37.152	.914	1.766	10.866	.00	.00	429.60	15.984	33.600	23.292	.000
28	2	1975	21320.	.819	.000	8.281	2.947	.960	35.424	.871	.000	9.100	.00	.00	393.46	15.984	33.600	23.292	.000
1	3	1975	21315.	.820	.000	8.280	2.947	1.965	33.696	.829	.000	9.100	.00	.00	376.77	15.984	33.600	25.679	.000
2	3	1975	21314.	.820	.000	8.280	2.947	1.965	38.016	.935	.000	9.100	.00	.00	551.75	15.984	33.600	25.679	.000
3	3	1975	21320.	.819	.000	8.281	2.947	1.965	44.064	1.084	.000	9.100	.00	.00	659.97	15.984	33.600	25.679	.000
4	3	1975	21320.	.819	.000	8.281	2.947	1.965	51.840	1.275	12.971	22.071	.00	.00	878.64	15.984	33.600	25.679	.000
5	3	1975	21320.	.819	.000	8.281	2.947	1.965	43.200	1.063	4.572	13.672	.00	.00	715.92	15.984	33.600	25.679	.000
6	3	1975	21320.	.819	.000	8.281	2.947	1.965	130.464	3.209	93.982	103.082	.00	.00	2565.95	15.984	33.600	25.679	.000
7	3	1975	21320.	.819	.000	8.281	2.947	1.965	95.040	2.338	57.686	66.786	.00	.00	2054.46	15.984	33.600	25.679	.000
8	3	1975	21320.	.819	.000	8.281	2.947	1.965	108.000	2.656	70.965	80.065	.00	.00	2003.03	15.984	33.600	25.679	.000
9	3	1975	21320.	.819	.000	8.281	2.947	1.965	103.680	2.550	66.539	75.639	.00	.00	2302.48	15.984	33.600	25.679	.000
10	3	1975	21320.	.819	.000	8.281	2.947	1.965	92.448	2.274	55.031	64.131	.00	.00	1780.29	15.984	33.600	25.679	.000
11	3	1975	21320.	.819	.000	8.281	2.947	1.965	85.536	2.104	47.949	57.049	.00	.00	1590.79	15.984	33.600	25.679	.000
12	3	1975	21320.	.819	.000	8.281	2.947	1.965	76.896	1.891	39.096	48.196	.00	.00	1326.85	15.984	33.600	25.679	.000
13	3	1975	21320.	.819	.000	8.281	2.947	1.965	74.304	1.828	36.441	45.541	.00	.00	1235.83	15.984	33.600	25.679	.000
14	3	1975	21320.	.819	.000	8.281	2.947	1.965	70.848	1.743	32.900	42.000	.00	.00	1190.66	15.984	33.600	25.679	.000
15	3	1975	21320.	.819	.000	8.281	2.947	1.965	63.936	1.573	25.818	34.918	.00	.00	983.67	15.984	33.600	25.679	.000
16	3	1975	21320.	.819	.000	8.281	2.947	1.965	60.480	1.488	22.277	31.377	.00	.00	878.12	15.984	33.600	25.679	.000
17	3	1975	21320.	.819	.000	8.281	2.947	1.965	57.888	1.424	19.621	28.721	.00	.00	779.71	15.984	33.600	25.679	.000
18	3	1975	21320.	.819	.000	8.281	2.947	1.965	54.432	1.339	16.080	25.180	.00	.00	706.18	15.984	33.600	25.679	.000
19	3	1975	21320.	.819	.000	8.281	2.947	1.965	51.840	1.275	13.424	22.524	.00	.00	625.59	15.984	33.600	25.679	.000
20	3	1975	21320.	.819	.000	8.281	2.947	1.965	48.384	1.190	9.883	18.983	.00	.00	558.73	15.984	33.600	25.679	.000
21	3	1975	21320.	.819	.000	8.281	2.947	1.965	53.568	1.318	15.195	24.295	.00	.00	651.45	15.984	33.600	25.679	.000
22	3	1975	21320.	.819	.000	8.281	2.947	1.965	57.888	1.424	19.621	28.721	.00	.00	903.37	15.984	33.600	25.679	.000
23	3	1975	21320.	.819	.000	8.281	2.947	1.965	45.792	1.126	7.227	16.327	.00	.00	578.25	15.984	33.600	25.679	.000
24	3	1975	21320.	.819	.000	8.281	2.947	1.965	40.608	.999	1.916	11.016	.00	.00	477.73	15.984	33.600	25.679	.000
25	3	1975	21318.	.819	.000	8.281	2.947	1.965	37.152	.914	.000	9.100	.00	.00	417.87	15.984	33.600	25.679	.000
26	3	1975	21319.	.819	.000	8.281	2.947	1.965	38.880	.956	.000	9.100	.00	.00	465.27	15.984	33.600	25.679	.000
27	3	1975	21320.	.819	.000	8.281	2.947	1.965	54.432	1.339	14.600	23.700	.00	.00	846.36	15.984	33.600	25.679	.000
28	3	1975	21320.	.819	.000	8.281	2.947	1.965	46.656	1.148	8.113	17.213	.00	.00	618.15	15.984	33.600	25.679	.000
29	3	1975	21320.	.819	.000	8.281	2.947	1.965	41.472	1.020	2.801	11.901	.00	.00	514.27	15.984	33.600	25.679	.000
30	3	1975	21320.	.819	.000	8.281	2.947	1.965	40.608	.999	1.916	11.016	.00	.00	505.27	15.984	33.600	25.679	.000
31	3	1975	21320.	.819	.000	8.281	2.947	1.965	38.880	.956	.145	9.245	.00	.00	443.46	15.984	33.600	25.679	.000
1	4	1975	21319.	.819	.000	8.281	2.947	3.525	38.016	.935	.000	9.100	.00	.00	417.77	16.483	34.650	24.088	.000
2	4	1975	21320.	.819	.000	8.281	2.947	3.525	62.208	1.530	23.369	32.469	.00	.00	807.41	16.483	34.650	24.088	.000
3	4	1975	21320.	.819	.000	8.281	2.947	3.525	46.656	1.148	8.143	17.243	.00	.00	561.98	16.483	34.650	24.088	.000
4	4	1975	21320.	.819	.000	8.281	2.947	3.525	42.336	1.041	3.717	12.817	.00	.00	458.31	16.483	34.650	24.088	.000
5	4	1975	21320.	.819	.000	8.281	2.947	3.525	41.472	1.020	2.832	11.932	.00	.00	464.89	16.483	34.650	24.088	.000
6	4	1975	21320.	.819	.000	8.281	2.947	3.525	40.608	.999	1.947	11.047	.00	.00	436.77	16.483	34.650	24.088	.000
7	4	1975	21320.	.819	.000	8.281	2.947	3.525	39.744	.978	1.061	10.161	.00	.00	450.54	16.483	34.650	24.088	.000
8	4	1975	21318.	.819	.000	8.281	2.947	3.525	36.288	.893	.000	9.100	.00	.00	383.17	16.483	34.650	24.088	.000
9	4	1975	21314.	.820	.000	8.280	2.947	3.525	35.424	.871	.000	9.100	.00	.00	368.63	16.483	34.650	24.088	.000
10	4	1975	21319.	.819	.000	8.281	2.947	3.524	43.200	1.062	.000	9.100	.00	.00	452.61	16.483	34.650	24.088	.000
11	4	1975	21320.	.819	.000	8.281	2.947	3.525	40.608	.999	.707	9.807	.00	.00	430.64	16.483	34.650	24.088	.000
12	4	1975	21317.	.820	.000	8.280	2.947	3.525	35.424	.871	.000	9.100	.00	.00	346.88	16.483	34.650	24.088	.000
13	4	1975	21313.	.820	.000	8.280	2.947	3.525	35.424	.871	.000	9.100	.00	.00	351.59	16.483	34.650	24.088	.000
14	4	1975	21320.	.819	.000	8.281	2.947	3.524	82.080	2.018	37.711	46.811	.00	.00	1275.22	16.483	34.650	24.088	.000
15	4	1975	21320.	.819	.000	8.281	2.947	3.525	87.264	2.146	49.750	58.850	.00	.00	1455.89	16.483	34.650	24.088	.000
16	4	1975	21320.	.819	.000	8.281	2.947	3.525	62.208	1.530	24.078	33.178	.00	.00	898.38	16.483	34.650	24.088	.000
17	4	1975	21320.	.819	.000	8.281	2.947	3.525	84.672	2.083	47.094	56.194	.00	.00	1435.91	16.483	34.650	24.088	.000
18	4	1975	21320.	.819	.000	8.281	2.947	3.525	80.352	1.976	42.668	51.768	.00	.00	1419.72	16.483	34.650	24.088	.000
19	4	1975	21320.	.819	.000	8.281	2.947	3.525	82.080	2.019	44.439	53.539	.00	.00	1452.04	16.483	34.650	24.088	.000
20	4	1975	21320.	.819	.000	8.281	2.947	3.525	73.440	1.886	35.586	44.686	.00	.00	1187.23	16.483	34.650	24.088	.000

21	4	1975	21320.	.819	.000	8.281	2.947	3.525	88.992	2.189	51.521	60.621	.00	.00	1544.42	16.483	34.650	24.088	.000
22	4	1975	21320.	.819	.000	8.281	2.947	3.525	73.440	1.806	35.586	44.686	.00	.00	1204.94	16.483	34.650	24.088	.000
23	4	1975	21320.	.819	.000	8.281	2.947	3.525	65.664	1.615	27.619	36.719	.00	.00	977.13	16.483	34.650	24.088	.000
24	4	1975	21320.	.819	.000	8.281	2.947	3.525	59.616	1.466	21.422	30.522	.00	.00	847.10	16.483	34.650	24.088	.000
25	4	1975	21320.	.819	.000	8.281	2.947	3.525	56.160	1.381	17.881	26.981	.00	.00	749.33	16.483	34.650	24.088	.000
26	4	1975	21320.	.819	.000	8.281	2.947	3.525	51.840	1.275	13.455	22.555	.00	.00	666.54	16.483	34.650	24.088	.000
27	4	1975	21320.	.819	.000	8.281	2.947	3.525	47.520	1.169	9.029	18.129	.00	.00	585.69	16.483	34.650	24.088	.000
28	4	1975	21320.	.819	.000	8.281	2.947	3.525	44.064	1.084	5.488	14.588	.00	.00	530.89	16.483	34.650	24.088	.000
29	4	1975	21320.	.819	.000	8.281	2.947	3.525	44.064	1.084	5.488	14.588	.00	.00	511.48	16.483	34.650	24.088	.000
30	4	1975	21320.	.819	.000	8.281	2.947	3.525	39.744	.978	1.061	10.161	.00	.00	427.74	16.483	34.650	24.088	.000
1	5	1975	21300.	.824	.000	8.276	2.945	4.785	33.696	.829	.000	9.100	.00	.00	354.98	17.482	36.750	37.898	.000
2	5	1975	21277.	.830	.000	8.270	2.942	4.782	31.104	.765	.000	9.100	.00	.00	304.75	17.482	36.750	37.898	.000
3	5	1975	21251.	.837	.000	8.263	2.938	4.779	28.512	.700	.000	9.100	.00	.00	260.95	17.482	36.750	37.898	.000
4	5	1975	21225.	.844	.000	8.256	2.935	4.776	27.648	.679	.000	9.100	.00	.00	222.68	17.482	36.750	37.898	.000
5	5	1975	21196.	.851	.000	8.249	2.931	4.773	25.056	.615	.000	9.100	.00	.00	196.70	17.482	36.750	37.898	.000
6	5	1975	21165.	.860	.000	8.240	2.926	4.769	23.328	.572	.000	9.100	.00	.00	158.60	17.482	36.750	37.898	.000
7	5	1975	21134.	.868	.000	8.232	2.922	4.765	22.464	.550	.000	9.100	.00	.00	134.65	17.482	36.750	37.898	.000
8	5	1975	21102.	.876	.000	8.224	2.918	4.761	22.464	.550	.000	9.100	.00	.00	139.09	17.482	36.750	37.898	.000
9	5	1975	21071.	.885	.000	8.215	2.913	4.757	23.328	.570	.000	9.100	.00	.00	197.54	17.482	36.750	37.898	.000
10	5	1975	21038.	.893	.000	8.207	2.909	4.753	20.736	.507	.000	9.100	.00	.00	124.27	17.482	36.750	37.898	.000
11	5	1975	21003.	.903	.000	8.197	2.904	4.749	19.008	.464	.000	9.100	.00	.00	85.50	17.482	36.750	37.898	.000
12	5	1975	20971.	.911	.000	8.189	2.899	4.744	22.464	.548	.000	9.100	.00	.00	157.49	17.482	36.750	37.898	.000
13	5	1975	20971.	.911	.000	8.189	2.899	4.740	53.568	1.305	.000	9.100	.00	.00	561.36	17.482	36.750	37.898	.000
14	5	1975	20961.	.914	.000	8.186	2.898	4.740	43.200	1.053	.000	9.100	.00	.00	498.15	17.482	36.750	37.898	.000
15	5	1975	20936.	.920	.000	8.180	2.895	4.739	29.376	.716	.000	9.100	.00	.00	322.47	17.482	36.750	37.898	.000
16	5	1975	20905.	.929	.000	8.171	2.890	4.736	22.464	.547	.000	9.100	.00	.00	178.22	17.482	36.750	37.898	.000
17	5	1975	20871.	.937	.000	8.163	2.886	4.732	20.736	.504	.000	9.100	.00	.00	121.24	17.482	36.750	37.898	.000
18	5	1975	20836.	.947	.000	8.153	2.881	4.727	19.008	.462	.000	9.100	.00	.00	98.37	17.482	36.750	37.898	.000
19	5	1975	20799.	.956	.000	8.144	2.876	4.723	17.280	.419	.000	9.100	.00	.00	70.40	17.482	36.750	37.898	.000
20	5	1975	20761.	.966	.000	8.134	2.870	4.718	16.416	.398	.000	9.100	.00	.00	55.55	17.482	36.750	37.898	.000
21	5	1975	20723.	.977	.000	8.123	2.865	4.713	15.552	.377	.000	9.100	.00	.00	38.53	17.482	36.750	37.898	.000
22	5	1975	20684.	.987	.000	8.113	2.860	4.708	15.552	.376	.000	9.100	.00	.00	22.89	17.482	36.750	37.898	.000
23	5	1975	20655.	.994	.000	8.106	2.856	4.703	25.056	.606	.000	9.100	.00	.00	168.56	17.482	36.750	37.898	.000
24	5	1975	20618.	1.004	.000	8.096	2.851	4.700	17.280	.417	.000	9.100	.00	.00	67.81	17.482	36.750	37.898	.000
25	5	1975	20581.	1.014	.000	8.086	2.845	4.695	16.416	.396	.000	9.100	.00	.00	37.42	17.482	36.750	37.898	.000
26	5	1975	20542.	1.024	.000	8.076	2.840	4.690	15.552	.375	.000	9.100	.00	.00	30.59	17.482	36.750	37.898	.000
27	5	1975	20489.	13.809	12.770	8.062	2.833	4.685	13.824	.333	.000	21.870	.00	.00	.80	17.482	36.750	37.898	.000
28	5	1975	20418.	30.291	29.234	8.043	2.823	4.678	12.960	.312	.000	38.334	.00	.00	-14.02	17.482	36.750	37.898	.000
29	5	1975	20347.	31.160	30.084	8.024	2.813	4.669	12.960	.311	.000	39.184	.00	.00	-25.13	17.482	36.750	37.898	.000
30	5	1975	20276.	31.179	30.084	8.005	2.803	4.660	12.960	.310	.000	39.184	.00	.00	-33.98	17.482	36.750	37.898	.000
31	5	1975	20204.	31.198	30.084	7.986	2.793	4.651	12.096	.289	.000	39.184	.00	.00	-42.48	17.482	36.750	37.898	.000
1	6	1975	20127.	32.366	31.232	7.966	2.783	5.515	11.232	.268	.000	40.332	.00	.00	-50.10	17.816	37.450	39.489	.000
2	6	1975	20051.	32.386	31.232	7.946	2.772	5.503	12.096	.288	.000	40.332	.00	.00	-30.26	17.816	37.450	39.489	.000
3	6	1975	19975.	32.406	31.232	7.926	2.762	5.492	11.232	.267	.000	40.332	.00	.00	-45.43	17.816	37.450	39.489	.000
4	6	1975	19897.	32.427	31.232	7.905	2.751	5.480	10.368	.246	.000	40.332	.00	.00	-60.58	17.816	37.450	39.489	.000
5	6	1975	19820.	32.447	31.232	7.885	2.740	5.468	10.368	.245	.000	40.332	.00	.00	-72.11	17.816	37.450	39.489	.000
6	6	1975	19742.	32.468	31.232	7.864	2.729	5.456	9.504	.224	.000	40.332	.00	.00	-72.29	17.816	37.450	39.489	.000
7	6	1975	19663.	32.489	31.232	7.843	2.719	5.445	8.640	.204	.000	40.332	.00	.00	-90.66	17.816	37.450	39.489	.000
8	6	1975	19583.	32.510	31.232	7.822	2.708	5.432	8.640	.203	.000	40.332	.00	.00	-95.03	17.816	37.450	39.489	.000
9	6	1975	19504.	32.530	31.232	7.801	2.697	5.420	8.640	.203	.000	40.332	.00	.00	-106.38	17.816	37.450	39.489	.000
10	6	1975	19424.	32.552	31.232	7.780	2.686	5.408	7.776	.182	.000	40.332	.00	.00	-116.28	17.816	37.450	39.489	.000
11	6	1975	19345.	32.573	31.232	7.759	2.675	5.396	7.776	.182	.000	40.332	.00	.00	-117.06	17.816	37.450	39.489	.000
12	6	1975	19265.	32.594	31.232	7.738	2.664	5.384	7.776	.181	.000	40.332	.00	.00	-126.99	17.816	37.450	39.489	.000
13	6	1975	19184.	32.615	31.232	7.716	2.652	5.372	6.912	.161	.000	40.332	.00	.00	-131.55	17.816	37.450	39.489	.000
14	6	1975	19103.	32.637	31.232	7.695	2.641	5.359	6.912	.160	.000	40.332	.00	.00	-136.45	17.816	37.450	39.489	.000
15	6	1975	19022.	32.658	31.232	7.674	2.630	5.347	6.912	.160	.000	40.332	.00	.00	-134.38	17.816	37.450	39.489	.000
16	6	1975	18941.	32.680	31.232	7.652	2.619	5.335	6.048	.140	.000	40.332	.00	.00	-133.33	17.816	37.450	39.489	.000
17	6	1975	18859.	32.701	31.232	7.631	2.607	5.322	6.048	.139	.000	40.332	.00	.00	-138.49	17.816	37.450	39.489	.000
18	6	1975	18778.	32.723	31.232	7.609	2.596	5.310	6.048	.139	.000	40.332	.00	.00	-140.91	17.816	37.450	39.489	.000
19	6	1975	18696.	32.744	31.232	7.587	2.585	5.298	6.048	.139	.000	40.332	.00	.00	-135.33	17.816	37.450	39.489	.000

Total outflow oth. bodys Evap

20618.0 -1004 - 3096 - 2351 - 4700

17390 + 417 = 20619

inflow rainfall

20	6	1975	18615.	32.766	31.232	7.566	2.574	5.285	6.048	.138	.000	40.332	.00	.00	-142.33	17.816	37.450	39.489	.000
21	6	1975	18533.	32.787	31.232	7.544	2.562	5.273	6.048	.138	.000	40.332	.00	.00	-147.34	17.816	37.450	39.489	.000
22	6	1975	18451.	32.809	31.232	7.523	2.551	5.260	5.184	.118	.000	40.332	.00	.00	-156.58	17.816	37.450	39.489	.000
23	6	1975	18369.	32.831	31.232	7.501	2.540	5.248	5.184	.118	.000	40.332	.00	.00	-162.24	17.816	37.450	39.489	.000
24	6	1975	18286.	32.853	31.232	7.479	2.528	5.235	5.184	.117	.000	40.332	.00	.00	-167.09	17.816	37.450	39.489	.000
25	6	1975	18204.	32.874	31.232	7.457	2.517	5.223	5.184	.117	.000	40.332	.00	.00	-170.21	17.816	37.450	39.489	.000
26	6	1975	18122.	32.896	31.232	7.436	2.505	5.210	5.184	.117	.000	40.332	.00	.00	-171.68	17.816	37.450	39.489	.000
27	6	1975	18040.	32.918	31.232	7.414	2.494	5.198	5.184	.117	.000	40.332	.00	.00	-173.98	17.816	37.450	39.489	.000
28	6	1975	17957.	32.940	31.232	7.392	2.483	5.185	5.184	.116	.000	40.332	.00	.00	-174.02	17.816	37.450	39.489	.000
29	6	1975	17875.	32.961	31.232	7.370	2.471	5.173	5.184	.116	.000	40.332	.00	.00	-176.51	17.816	37.450	39.489	.000
30	6	1975	17793.	32.983	31.232	7.349	2.460	5.160	5.184	.116	.000	40.332	.00	.00	-175.42	17.816	37.450	39.489	.000
1	7	1975	17703.	35.876	34.101	7.325	2.448	5.148	5.184	.115	.000	43.201	.00	.00	-176.55	18.648	39.200	44.516	.000
2	7	1975	17613.	35.900	34.101	7.301	2.435	5.134	5.184	.115	.000	43.201	.00	.00	-182.25	18.648	39.200	44.516	.000
3	7	1975	17523.	35.924	34.101	7.277	2.423	5.120	5.184	.115	.000	43.201	.00	.00	-187.25	18.648	39.200	44.516	.000
4	7	1975	17433.	35.948	34.101	7.254	2.410	5.106	5.184	.115	.000	43.201	.00	.00	-188.26	18.648	39.200	44.516	.000
5	7	1975	17343.	35.971	34.101	7.230	2.398	5.093	5.184	.114	.000	43.201	.00	.00	-189.95	18.648	39.200	44.516	.000
6	7	1975	17252.	35.995	34.101	7.206	2.385	5.079	4.320	.095	.000	43.201	.00	.00	-199.86	18.648	39.200	44.516	.000
7	7	1975	17163.	36.019	34.101	7.182	2.373	5.065	5.184	.114	.000	43.201	.00	.00	-174.85	18.648	39.200	44.516	.000
8	7	1975	17075.	36.042	34.101	7.159	2.361	5.052	6.912	.151	.000	43.201	.00	.00	-127.28	18.648	39.200	44.516	.000
9	7	1975	16986.	36.066	34.101	7.135	2.348	5.038	6.048	.132	.000	43.201	.00	.00	-147.99	18.648	39.200	44.516	.000
10	7	1975	16897.	36.089	34.101	7.112	2.336	5.025	6.048	.131	.000	43.201	.00	.00	-142.01	18.648	39.200	44.516	.000
11	7	1975	16808.	36.113	34.101	7.088	2.324	5.011	6.048	.131	.000	43.201	.00	.00	-153.13	18.648	39.200	44.516	.000
12	7	1975	16722.	36.136	34.101	7.065	2.312	4.997	8.640	.187	.000	43.201	.00	.00	-83.57	18.648	39.200	44.516	.000
13	7	1975	16650.	25.666	23.613	7.047	2.302	4.984	12.960	.279	.000	32.713	.00	.00	-6.51	18.648	39.200	44.516	.000
14	7	1975	16564.	36.177	34.101	7.024	2.290	4.974	8.640	.186	.000	43.201	.00	.00	-93.88	18.648	39.200	44.516	.000
15	7	1975	16478.	36.200	34.101	7.001	2.278	4.963	8.640	.185	.000	43.201	.00	.00	-119.92	18.648	39.200	44.516	.000
16	7	1975	16393.	36.223	34.101	6.978	2.266	4.951	9.504	.204	.000	43.201	.00	.00	-47.93	18.648	39.200	44.516	.000
17	7	1975	16308.	36.245	34.101	6.956	2.255	4.939	9.504	.203	.000	43.201	.00	.00	-34.11	18.648	39.200	44.516	.000
18	7	1975	16222.	36.268	34.101	6.933	2.243	4.927	8.640	.184	.000	43.201	.00	.00	-78.91	18.648	39.200	44.516	.000
19	7	1975	16135.	36.291	34.101	6.910	2.231	4.916	7.776	.165	.000	43.201	.00	.00	-108.92	18.648	39.200	44.516	.000
20	7	1975	16048.	36.314	34.101	6.887	2.219	4.904	7.776	.165	.000	43.201	.00	.00	-111.60	18.648	39.200	44.516	.000
21	7	1975	15961.	36.337	34.101	6.864	2.207	4.892	7.776	.165	.000	43.201	.00	.00	-118.84	18.648	39.200	44.516	.000
22	7	1975	15873.	36.360	34.101	6.841	2.195	4.880	6.912	.146	.000	43.201	.00	.00	-138.93	18.648	39.200	44.516	.000
23	7	1975	15785.	36.383	34.101	6.818	2.182	4.868	6.912	.146	.000	43.201	.00	.00	-145.88	18.648	39.200	44.516	.000
24	7	1975	15698.	36.406	34.101	6.795	2.170	4.856	6.912	.145	.000	43.201	.00	.00	-146.61	18.648	39.200	44.516	.000
25	7	1975	15609.	36.430	34.101	6.771	2.158	4.844	6.048	.127	.000	43.201	.00	.00	-164.57	18.648	39.200	44.516	.000
26	7	1975	15520.	36.454	34.101	6.748	2.146	4.832	5.184	.108	.000	43.201	.00	.00	-159.74	18.648	39.200	44.516	.000
27	7	1975	15430.	36.477	34.101	6.724	2.133	4.820	5.184	.108	.000	43.201	.00	.00	-181.89	18.648	39.200	44.516	.000
28	7	1975	15341.	36.501	34.101	6.700	2.121	4.808	5.184	.108	.000	43.201	.00	.00	-173.96	18.648	39.200	44.516	.000
29	7	1975	15252.	36.524	34.101	6.677	2.109	4.795	5.184	.108	.000	43.201	.00	.00	-183.54	18.648	39.200	44.516	.000
30	7	1975	15162.	36.548	34.101	6.653	2.096	4.783	4.320	.089	.000	43.201	.00	.00	-186.08	18.648	39.200	44.516	.000
31	7	1975	15071.	36.572	34.101	6.629	2.084	4.771	4.320	.089	.000	43.201	.00	.00	-188.71	18.648	39.200	44.516	.000
1	8	1975	14984.	34.300	31.806	6.606	2.072	3.792	4.320	.089	.000	40.906	.00	.00	-198.85	17.982	37.800	45.312	.000
2	8	1975	14896.	34.323	31.806	6.583	2.060	3.782	4.320	.089	.000	40.906	.00	.00	-193.79	17.982	37.800	45.312	.000
3	8	1975	14808.	34.346	31.806	6.560	2.047	3.773	4.320	.088	.000	40.906	.00	.00	-202.01	17.982	37.800	45.312	.000
4	8	1975	14721.	34.369	31.806	6.536	2.035	3.763	4.320	.088	.000	40.906	.00	.00	-198.88	17.982	37.800	45.312	.000
5	8	1975	14633.	34.392	31.806	6.513	2.023	3.754	4.320	.088	.000	40.906	.00	.00	-203.26	17.982	37.800	45.312	.000
6	8	1975	14546.	34.416	31.806	6.490	2.011	3.744	4.320	.088	.000	40.906	.00	.00	-201.11	17.982	37.800	45.312	.000
7	8	1975	14458.	34.439	31.806	6.467	1.999	3.734	4.320	.088	.000	40.906	.00	.00	-212.62	17.982	37.800	45.312	.000
8	8	1975	14371.	34.462	31.806	6.444	1.987	3.725	4.320	.087	.000	40.906	.00	.00	-205.78	17.982	37.800	45.312	.000
9	8	1975	14283.	34.485	31.806	6.421	1.975	3.715	4.320	.087	.000	40.906	.00	.00	-201.97	17.982	37.800	45.312	.000
10	8	1975	14196.	34.508	31.806	6.397	1.963	3.706	4.320	.087	.000	40.906	.00	.00	-201.68	17.982	37.800	45.312	.000
11	8	1975	14108.	34.531	31.806	6.374	1.951	3.696	4.320	.087	.000	40.906	.00	.00	-189.75	17.982	37.800	45.312	.000
12	8	1975	14021.	34.554	31.806	6.351	1.939	3.687	4.320	.086	.000	40.906	.00	.00	-201.13	17.982	37.800	45.312	.000
13	8	1975	13932.	34.578	31.806	6.328	1.926	3.677	3.456	.069	.000	40.906	.00	.00	-201.70	17.982	37.800	45.312	.000
14	8	1975	13844.	34.601	31.806	6.305	1.914	3.668	3.456	.069	.000	40.906	.00	.00	-204.36	17.982	37.800	45.312	.000
15	8	1975	13757.	34.624	31.806	6.281	1.902	3.658	4.320	.086	.000	40.906	.00	.00	-198.13	17.982	37.800	45.312	.000
16	8	1975	13672.	34.647	31.806	6.259	1.890	3.648	6.912	.137	.000	40.906	.00	.00	-148.07	17.982	37.800	45.312	.000
17	8	1975	13587.	34.669	31.806	6.236	1.878	3.639	6.048	.120	.000	40.906	.00	.00	-127.60	17.982	37.800	45.312	.000
18	8	1975	13501.	34.692	31.806	6.214	1.867	3.630	6.048	.119	.000	48.906	.00	.00	-153.52	17.982	37.800	45.312	.000

Total leakage = Compensation flow

19	8	1975	13416.	34.714	31.806	6.191	1.855	3.621	6.912	.136	.000	40.906	.00	.00	-151.64	17.982	37.800	45.312	.000
20	8	1975	13337.	34.723	31.806	6.182	1.844	3.611	12.096	.237	.000	40.906	.00	.00	-37.87	17.982	37.800	45.312	.000
21	8	1975	13254.	34.753	31.806	6.153	1.833	3.603	8.640	.169	.000	40.906	.00	.00	-93.27	17.982	37.800	45.312	.000
22	8	1975	13170.	34.784	31.806	6.122	1.821	3.594	6.912	.135	.000	40.906	.00	.00	-144.38	17.982	37.800	45.312	.000
23	8	1975	13084.	34.814	31.806	6.091	1.809	3.585	6.048	.118	.000	40.906	.00	.00	-158.11	17.982	37.800	45.312	.000
24	8	1975	12999.	34.845	31.806	6.060	1.797	3.576	6.048	.117	.000	40.906	.00	.00	-164.39	17.982	37.800	45.312	.000
25	8	1975	12913.	34.876	31.806	6.029	1.785	3.568	6.048	.117	.000	40.906	.00	.00	-164.50	17.982	37.800	45.312	.000
26	8	1975	12827.	34.907	31.806	5.998	1.773	3.559	5.184	.100	.000	40.906	.00	.00	-163.76	17.982	37.800	45.312	.000
27	8	1975	12741.	34.938	31.806	5.967	1.762	3.550	5.184	.100	.000	40.906	.00	.00	-179.35	17.982	37.800	45.312	.000
28	8	1975	12655.	34.970	31.806	5.936	1.750	3.541	5.184	.100	.000	40.906	.00	.00	-186.68	17.982	37.800	45.312	.000
29	8	1975	12568.	35.001	31.806	5.905	1.738	3.532	5.184	.099	.000	40.906	.00	.00	-190.77	17.982	37.800	45.312	.000
30	8	1975	12481.	35.032	31.806	5.873	1.726	3.523	4.320	.083	.000	40.906	.00	.00	-189.71	17.982	37.800	45.312	.000
31	8	1975	12394.	35.064	31.806	5.842	1.714	3.514	4.320	.082	.000	40.906	.00	.00	-188.84	17.982	37.800	45.312	.000
1	9	1975	12315.	32.223	28.936	5.813	1.703	2.275	5.184	.099	.000	38.036	.00	.00	-172.39	17.149	36.050	42.352	.000
2	9	1975	12235.	32.252	28.936	5.785	1.692	2.270	4.320	.082	.000	38.036	.00	.00	-186.66	17.149	36.050	42.352	.000
3	9	1975	12155.	32.280	28.936	5.756	1.681	2.264	4.320	.082	.000	38.036	.00	.00	-190.06	17.149	36.050	42.352	.000
4	9	1975	12075.	32.309	28.936	5.727	1.670	2.259	4.320	.082	.000	38.036	.00	.00	-190.82	17.149	36.050	42.352	.000
5	9	1975	11996.	32.338	28.936	5.698	1.658	2.254	4.320	.081	.000	38.036	.00	.00	-190.09	17.149	36.050	42.352	.000
6	9	1975	11916.	32.367	28.936	5.669	1.647	2.248	4.320	.081	.000	38.036	.00	.00	-193.34	17.149	36.050	42.352	.000
7	9	1975	11836.	32.396	28.936	5.640	1.636	2.243	4.320	.081	.000	38.036	.00	.00	-201.66	17.149	36.050	42.352	.000
8	9	1975	11756.	32.425	28.936	5.611	1.625	2.238	4.320	.081	.000	38.036	.00	.00	-185.97	17.149	36.050	42.352	.000
9	9	1975	11676.	32.454	28.936	5.583	1.614	2.232	4.320	.081	.000	38.036	.00	.00	-189.27	17.149	36.050	42.352	.000
10	9	1975	11597.	32.482	28.936	5.554	1.603	2.227	5.184	.097	.000	38.036	.00	.00	-179.76	17.149	36.050	42.352	.000
11	9	1975	11518.	32.511	28.936	5.526	1.592	2.222	5.184	.096	.000	38.036	.00	.00	-180.11	17.149	36.050	42.352	.000
12	9	1975	11445.	32.537	28.936	5.499	1.582	2.217	10.368	.192	.000	38.036	.00	.00	-94.11	17.149	36.050	42.352	.000
13	9	1975	11434.	3.605	.000	5.495	1.581	2.212	44.064	.815	.000	9.100	.00	.00	406.54	17.149	36.050	42.352	.000
14	9	1975	11456.	3.597	.000	5.503	1.584	2.211	75.168	1.390	.000	9.100	.00	.00	1102.67	17.149	36.050	42.352	.000
15	9	1975	11429.	3.607	.000	5.493	1.580	2.212	28.512	.528	.000	9.100	.00	.00	223.78	17.149	36.050	42.352	.000
16	9	1975	11396.	3.619	.000	5.481	1.576	2.211	21.600	.399	.000	9.100	.00	.00	95.73	17.149	36.050	42.352	.000
17	9	1975	11360.	3.632	.000	5.468	1.571	2.209	19.008	.351	.000	9.100	.00	.00	55.74	17.149	36.050	42.352	.000
18	9	1975	11325.	3.644	.000	5.456	1.566	2.206	19.872	.367	.000	9.100	.00	.00	77.58	17.149	36.050	42.352	.000
19	9	1975	11288.	3.658	.000	5.442	1.561	2.204	17.280	.319	.000	9.100	.00	.00	27.12	17.149	36.050	42.352	.000
20	9	1975	11251.	3.671	.000	5.429	1.556	2.201	18.144	.334	.000	9.100	.00	.00	53.54	17.149	36.050	42.352	.000
21	9	1975	11195.	20.134	16.443	5.409	1.548	2.199	15.552	.286	.000	25.543	.00	.00	-3.21	17.149	36.050	42.352	.000
22	9	1975	11126.	32.652	28.936	5.384	1.538	2.195	14.688	.270	.000	38.036	.00	.00	-26.01	17.149	36.050	42.352	.000
23	9	1975	11056.	32.678	28.936	5.359	1.529	2.191	13.824	.253	.000	38.036	.00	.00	-26.51	17.149	36.050	42.352	.000
24	9	1975	10986.	32.703	28.936	5.333	1.519	2.187	13.824	.253	.000	38.036	.00	.00	-31.84	17.149	36.050	42.352	.000
25	9	1975	10986.	3.767	.000	5.333	1.519	2.182	54.432	.994	.000	9.100	.00	.00	422.37	17.149	36.050	42.352	.000
26	9	1975	10984.	3.768	.000	5.332	1.519	2.182	51.840	.946	.000	9.100	.00	.00	548.99	17.149	36.050	42.352	.000
27	9	1975	10995.	3.764	.000	5.336	1.520	2.182	64.800	1.183	.000	9.100	.00	.00	901.04	17.149	36.050	42.352	.000
28	9	1975	10994.	3.764	.000	5.336	1.520	2.183	53.568	.978	.000	9.100	.00	.00	559.27	17.149	36.050	42.352	.000
29	9	1975	10989.	3.766	.000	5.334	1.519	2.183	49.248	.899	.000	9.100	.00	.00	485.47	17.149	36.050	42.352	.000
30	9	1975	10980.	3.769	.000	5.331	1.518	2.183	44.928	.820	.000	9.100	.00	.00	434.37	17.149	36.050	42.352	.000
1	10	1975	10973.	3.771	.000	5.329	1.517	1.035	38.016	.694	.000	9.100	.00	.00	370.64	15.651	32.900	33.570	.000
2	10	1975	10967.	3.773	.000	5.327	1.516	1.035	38.880	.710	.000	9.100	.00	.00	335.79	15.651	32.900	33.570	.000
3	10	1975	10960.	3.776	.000	5.324	1.515	1.035	37.152	.678	.000	9.100	.00	.00	353.13	15.651	32.900	33.570	.000
4	10	1975	10947.	3.781	.000	5.319	1.514	1.035	31.968	.583	.000	9.100	.00	.00	249.41	15.651	32.900	33.570	.000
5	10	1975	10931.	3.787	.000	5.313	1.511	1.034	28.512	.520	.000	9.100	.00	.00	212.36	15.651	32.900	33.570	.000
6	10	1975	10913.	3.793	.000	5.307	1.509	1.034	26.784	.488	.000	9.100	.00	.00	186.07	15.651	32.900	33.570	.000
7	10	1975	10894.	3.800	.000	5.300	1.506	1.033	25.056	.457	.000	9.100	.00	.00	158.97	15.651	32.900	33.570	.000
8	10	1975	10871.	3.808	.000	5.292	1.503	1.033	22.464	.409	.000	9.100	.00	.00	134.88	15.651	32.900	33.570	.000
9	10	1975	10848.	3.817	.000	5.283	1.500	1.032	21.600	.393	.000	9.100	.00	.00	106.27	15.651	32.900	33.570	.000
10	10	1975	10825.	3.825	.000	5.275	1.497	1.032	21.600	.393	.000	9.100	.00	.00	94.88	15.651	32.900	33.570	.000
11	10	1975	10800.	3.834	.000	5.266	1.493	1.031	19.872	.361	.000	9.100	.00	.00	66.13	15.651	32.900	33.570	.000
12	10	1975	10773.	3.844	.000	5.256	1.489	1.030	18.144	.330	.000	9.100	.00	.00	35.06	15.651	32.900	33.570	.000
13	10	1975	10746.	3.854	.000	5.246	1.486	1.029	17.280	.314	.000	9.100	.00	.00	25.02	15.651	32.900	33.570	.000
14	10	1975	10719.	3.863	.000	5.237	1.482	1.029	18.144	.329	.000	9.100	.00	.00	36.93	15.651	32.900	33.570	.000
15	10	1975	10695.	3.872	.000	5.228	1.479	1.028	20.736	.376	.000	9.100	.00	.00	95.83	15.651	32.900	33.570	.000
16	10	1975	10668.	3.882	.000	5.218	1.475	1.027	18.144	.329	.000	9.100	.00	.00	64.29	15.651	32.900	33.570	.000
17	10	1975	10640.	3.892	.000	5.208	1.471	1.026	16.416	.297	.000	9.100	.00	.00	22.90	15.651	32.900	33.570	.000

18	10	1975	10599.	15.545	11.638	5.193	1.466	1.026	15.552	.281	.000	20.738	.00	.00	-2.03	15.651	32.900	33.510	.000
19	10	1975	10545.	27.697	23.771	5.174	1.458	1.024	14.688	.265	.000	32.871	.00	.00	-14.99	15.651	32.900	33.510	.000
20	10	1975	10490.	27.717	23.771	5.154	1.450	1.023	13.824	.249	.000	32.871	.00	.00	-21.29	15.651	32.900	33.510	.000
21	10	1975	10434.	27.737	23.771	5.134	1.443	1.021	12.960	.233	.000	32.871	.00	.00	-30.75	15.651	32.900	33.570	.000
22	10	1975	10378.	27.757	23.771	5.114	1.435	1.020	12.960	.233	.000	32.871	.00	.00	-39.79	15.651	32.900	33.570	.000
23	10	1975	10323.	27.777	23.771	5.094	1.427	1.018	12.960	.233	.000	32.871	.00	.00	-43.24	15.651	32.900	33.570	.000
24	10	1975	10266.	27.798	23.771	5.073	1.419	1.016	12.096	.217	.000	32.871	.00	.00	-47.23	15.651	32.900	33.570	.000
25	10	1975	10210.	27.818	23.771	5.053	1.412	1.015	12.096	.216	.000	32.871	.00	.00	-58.82	15.651	32.900	33.570	.000
26	10	1975	10152.	27.839	23.771	5.032	1.404	1.013	11.232	.201	.000	32.871	.00	.00	-70.93	15.651	32.900	33.570	.000
27	10	1975	10095.	27.860	23.771	5.011	1.396	1.011	11.232	.200	.000	32.871	.00	.00	-70.16	15.651	32.900	33.570	.000
28	10	1975	10036.	27.881	23.771	4.990	1.388	1.010	10.368	.185	.000	32.871	.00	.00	-79.71	15.651	32.900	33.570	.000
29	10	1975	9978.	27.902	23.771	4.969	1.380	1.008	10.368	.184	.000	32.871	.00	.00	-85.03	15.651	32.900	33.570	.000
30	10	1975	9920.	27.923	23.771	4.948	1.372	1.006	10.368	.184	.000	32.871	.00	.00	-78.98	15.651	32.900	33.570	.000
31	10	1975	9863.	27.943	23.771	4.928	1.364	1.005	12.096	.214	.000	32.871	.00	.00	-50.37	15.651	32.900	33.570	.000
1	11	1975	9848.	4.178	.000	4.922	1.362	.458	19.872	.351	.000	9.100	.00	.00	159.27	15.651	32.900	24.310	.000
2	11	1975	9829.	4.185	.000	4.915	1.359	.453	15.552	.275	.000	9.100	.00	.00	56.68	15.651	32.900	24.310	.000
3	11	1975	9819.	4.188	.000	4.912	1.358	.453	25.056	.443	.000	9.100	.00	.00	177.67	15.651	32.900	24.310	.000
4	11	1975	9803.	4.194	.000	4.906	1.355	.452	18.144	.320	.000	9.100	.00	.00	72.74	15.651	32.900	24.310	.000
5	11	1975	9785.	4.201	.000	4.899	1.353	.452	17.280	.305	.000	9.100	.00	.00	41.36	15.651	32.900	24.310	.000
6	11	1975	9767.	4.207	.000	4.893	1.350	.452	17.280	.305	.000	9.100	.00	.00	51.44	15.651	32.900	24.310	.000
7	11	1975	9750.	4.213	.000	4.887	1.348	.452	17.280	.305	.000	9.100	.00	.00	33.54	15.651	32.900	24.310	.000
8	11	1975	9731.	4.220	.000	4.880	1.345	.452	16.416	.289	.000	9.100	.00	.00	24.35	15.651	32.900	24.310	.000
9	11	1975	9713.	4.227	.000	4.873	1.343	.451	16.416	.289	.000	9.100	.00	.00	13.11	15.651	32.900	24.310	.000
10	11	1975	9694.	4.233	.000	4.867	1.340	.451	16.416	.289	.000	9.100	.00	.00	9.03	15.651	32.900	24.310	.000
11	11	1975	9676.	4.240	.000	4.860	1.338	.451	16.416	.289	.000	9.100	.00	.00	20.47	15.651	32.900	24.310	.000
12	11	1975	9657.	4.247	.000	4.853	1.335	.451	16.416	.289	.000	9.100	.00	.00	11.98	15.651	32.900	24.310	.000
13	11	1975	9638.	4.254	.000	4.846	1.333	.450	15.552	.273	.000	9.100	.00	.00	11.87	15.651	32.900	24.310	.000
14	11	1975	9611.	12.176	7.913	4.836	1.329	.450	15.552	.273	.000	17.013	.00	.00	1.32	15.651	32.900	24.310	.000
15	11	1975	9614.	4.262	.000	4.838	1.329	.450	38.016	.667	.000	9.100	.00	.00	212.26	15.651	32.900	24.310	.000
16	11	1975	9699.	4.231	.000	4.869	1.341	.450	118.368	2.078	.000	9.100	.00	.00	2021.39	15.651	32.900	24.310	.000
17	11	1975	9739.	4.217	.000	4.883	1.346	.451	73.440	1.293	.000	9.100	.00	.00	1058.99	15.651	32.900	24.310	.000
18	11	1975	9770.	4.206	.000	4.894	1.351	.451	65.664	1.157	.000	9.100	.00	.00	838.28	15.651	32.900	24.310	.000
19	11	1975	9796.	4.197	.000	4.903	1.354	.452	59.616	1.052	.000	9.100	.00	.00	712.13	15.651	32.900	24.310	.000
20	11	1975	9817.	4.189	.000	4.911	1.357	.452	55.296	.976	.000	9.100	.00	.00	619.53	15.651	32.900	24.310	.000
21	11	1975	9834.	4.183	.000	4.917	1.360	.452	50.976	.900	.000	9.100	.00	.00	506.40	15.651	32.900	24.310	.000
22	11	1975	9846.	4.179	.000	4.921	1.361	.453	46.656	.824	.000	9.100	.00	.00	437.11	15.651	32.900	24.310	.000
23	11	1975	9855.	4.175	.000	4.925	1.362	.453	43.200	.764	.000	9.100	.00	.00	391.24	15.651	32.900	24.310	.000
24	11	1975	9861.	4.173	.000	4.927	1.363	.453	40.608	.718	.000	9.100	.00	.00	368.70	15.651	32.900	24.310	.000
25	11	1975	9877.	4.167	.000	4.933	1.366	.453	50.976	.901	.000	9.100	.00	.00	502.11	15.651	32.900	24.310	.000
26	11	1975	9901.	4.159	.000	4.941	1.369	.453	57.888	1.024	.000	9.100	.00	.00	683.19	15.651	32.900	24.310	.000
27	11	1975	9969.	4.134	.000	4.966	1.378	.453	101.088	1.790	.000	9.100	.00	.00	1487.37	15.651	32.900	24.310	.000
28	11	1975	10085.	4.092	.000	5.008	1.394	.454	149.472	2.651	.000	9.100	.00	.00	2476.65	15.651	32.900	24.310	.000
29	11	1975	10209.	4.047	.000	5.053	1.412	.456	156.384	2.783	.000	9.100	.00	.00	2739.94	15.651	32.900	24.310	.000
30	11	1975	10309.	4.011	.000	5.089	1.425	.458	132.192	2.361	.000	9.100	.00	.00	2259.35	15.651	32.900	24.310	.000
1	12	1975	10691.	3.873	.000	5.227	1.478	.208	404.352	7.243	.000	9.100	.00	.00	6017.59	15.318	32.200	18.837	.000
2	12	1975	11045.	3.745	.000	5.355	1.527	.210	377.568	6.837	.000	9.100	.00	.00	7115.18	15.318	32.200	18.837	.000
3	12	1975	11266.	3.666	.000	5.434	1.558	.212	265.376	4.487	.000	9.100	.00	.00	4143.15	15.318	32.200	18.837	.000
4	12	1975	11412.	3.613	.000	5.487	1.578	.213	172.800	3.180	.000	9.100	.00	.00	2848.00	15.318	32.200	18.837	.000
5	12	1975	11513.	3.576	.000	5.524	1.592	.214	128.736	2.380	.000	9.100	.00	.00	2130.76	15.318	32.200	18.837	.000
6	12	1975	11587.	3.550	.000	5.550	1.602	.215	101.952	1.890	.000	9.100	.00	.00	1581.85	15.318	32.200	18.837	.000
7	12	1975	11644.	3.529	.000	5.571	1.610	.215	84.672	1.573	.000	9.100	.00	.00	1233.58	15.318	32.200	18.837	.000
8	12	1975	11688.	3.513	.000	5.587	1.616	.216	72.576	1.351	.000	9.100	.00	.00	981.13	15.318	32.200	18.837	.000
9	12	1975	11722.	3.501	.000	5.599	1.621	.216	63.072	1.176	.000	9.100	.00	.00	799.13	15.318	32.200	18.837	.000
10	12	1975	11750.	3.491	.000	5.609	1.625	.216	56.160	1.048	.000	9.100	.00	.00	667.97	15.318	32.200	18.837	.000
11	12	1975	11773.	3.483	.000	5.617	1.628	.216	51.840	.968	.000	9.100	.00	.00	578.80	15.318	32.200	18.837	.000
12	12	1975	11795.	3.475	.000	5.625	1.631	.217	50.976	.953	.000	9.100	.00	.00	565.55	15.318	32.200	18.837	.000
13	12	1975	11809.	3.469	.000	5.631	1.633	.217	43.200	.808	.000	9.100	.00	.00	462.06	15.318	32.200	18.837	.000
14	12	1975	11818.	3.466	.000	5.634	1.634	.217	38.016	.711	.000	9.100	.00	.0C	383.63	15.318	32.200	18.837	.000
15	12	1975	11824.	3.464	.000	5.636	1.635	.217	35.424	.663	.000	9.100	.00	.00	343.54	15.318	32.200	18.837	.000
16	12	1975	11827.	3.463	.000	5.637	1.635	.217	31.968	.598	.000	9.100	.00	.00	304.65	15.318	32.200	18.837	.000

17	12	1975	11828.	3.463	.000	5.637	1.635	.217	30.240	.566	.000	9.100	.00	.00	278.72	15.318	32.200	18.837	.000
18	12	1975	11826.	3.463	.000	5.637	1.635	.217	26.784	.501	.000	9.100	.00	.00	237.83	15.318	32.200	18.837	.000
19	12	1975	11821.	3.465	.000	5.635	1.634	.217	25.056	.469	.000	9.100	.00	.00	213.45	15.318	32.200	18.837	.000
20	12	1975	11815.	3.467	.000	5.633	1.634	.217	23.328	.437	.000	9.100	.00	.00	182.64	15.318	32.200	18.837	.000
21	12	1975	11808.	3.470	.000	5.630	1.633	.217	22.464	.420	.000	9.100	.00	.00	157.94	15.318	32.200	18.837	.000
22	12	1975	11801.	3.472	.000	5.628	1.632	.217	21.600	.404	.000	9.100	.00	.00	137.82	15.318	32.200	18.837	.000
23	12	1975	11793.	3.475	.000	5.625	1.630	.217	21.600	.404	.000	9.100	.00	.00	126.44	15.318	32.200	18.837	.000
24	12	1975	11791.	3.476	.000	5.624	1.630	.217	27.648	.517	.000	9.100	.00	.00	237.78	15.318	32.200	18.837	.000
25	12	1975	11787.	3.477	.000	5.623	1.630	.217	25.056	.468	.000	9.100	.00	.00	212.34	15.318	32.200	18.837	.000
26	12	1975	11781.	3.480	.000	5.620	1.629	.217	23.328	.436	.000	9.100	.00	.00	173.41	15.318	32.200	18.837	.000
27	12	1975	11773.	3.482	.000	5.618	1.628	.217	21.600	.404	.000	9.100	.00	.00	147.69	15.318	32.200	18.837	.000
28	12	1975	11765.	3.485	.000	5.615	1.627	.217	21.600	.404	.000	9.100	.00	.00	136.49	15.318	32.200	18.837	.000
29	12	1975	11757.	3.488	.000	5.612	1.625	.216	20.736	.387	.000	9.100	.00	.00	121.07	15.318	32.200	18.837	.000
30	12	1975	11748.	3.491	.000	5.609	1.624	.216	20.736	.387	.000	9.100	.00	.00	100.00	15.318	32.200	18.837	.000
31	12	1975	11753.	3.490	.000	5.610	1.625	.216	33.696	.629	.000	9.100	.00	.00	179.74	15.318	32.200	18.837	.000
1	1	1976	11756.	3.489	.000	5.611	1.625	.410	36.288	.678	.000	9.100	.00	.00	376.63	16.317	34.300	22.497	.000
2	1	1976	11779.	3.480	.000	5.620	1.629	.410	55.296	1.033	.000	9.100	.00	.00	605.54	16.317	34.300	22.497	.000
3	1	1976	11800.	3.473	.000	5.627	1.631	.410	53.568	1.001	.000	9.100	.00	.00	621.00	16.317	34.300	22.497	.000
4	1	1976	11843.	3.457	.000	5.643	1.637	.411	76.032	1.422	.000	9.100	.00	.00	952.73	16.317	34.300	22.497	.000
5	1	1976	11888.	3.441	.000	5.659	1.644	.411	76.896	1.440	.000	9.100	.00	.00	1196.11	16.317	34.300	22.497	.000
6	1	1976	11931.	3.425	.000	5.675	1.650	.412	75.168	1.409	.000	9.100	.00	.00	1070.90	16.317	34.300	22.497	.000
7	1	1976	11969.	3.412	.000	5.688	1.655	.412	69.984	1.314	.000	9.100	.00	.00	960.14	16.317	34.300	22.497	.000
8	1	1976	12001.	3.400	.000	5.700	1.659	.413	64.800	1.218	.000	9.100	.00	.00	849.76	16.317	34.300	22.497	.000
9	1	1976	12031.	3.389	.000	5.711	1.663	.413	62.208	1.170	.000	9.100	.00	.00	768.16	16.317	34.300	22.497	.000
10	1	1976	12058.	3.379	.000	5.721	1.667	.413	61.344	1.155	.000	9.100	.00	.00	792.96	16.317	34.300	22.497	.000
11	1	1976	12081.	3.371	.000	5.729	1.670	.414	54.432	1.026	.000	9.100	.00	.00	614.59	16.317	34.300	22.497	.000
12	1	1976	12099.	3.365	.000	5.735	1.673	.414	50.112	.945	.000	9.100	.00	.00	539.40	16.317	34.300	22.497	.000
13	1	1976	12113.	3.360	.000	5.740	1.675	.414	46.656	.880	.000	9.100	.00	.00	479.67	16.317	34.300	22.497	.000
14	1	1976	12123.	3.356	.000	5.744	1.676	.414	43.200	.815	.000	9.100	.00	.00	436.69	16.317	34.300	22.497	.000
15	1	1976	12131.	3.353	.000	5.747	1.677	.415	40.608	.767	.000	9.100	.00	.00	378.32	16.317	34.300	22.497	.000
16	1	1976	12135.	3.352	.000	5.748	1.678	.415	37.152	.702	.000	9.100	.00	.00	343.13	16.317	34.300	22.497	.000
17	1	1976	12136.	3.351	.800	5.749	1.678	.415	34.560	.653	.000	9.100	.00	.00	309.27	16.317	34.300	22.497	.000
18	1	1976	12136.	3.351	.800	5.749	1.678	.415	32.832	.620	.000	9.100	.00	.00	289.14	16.317	34.300	22.497	.000
19	1	1976	12139.	3.350	.000	5.750	1.678	.415	36.288	.685	.000	9.100	.00	.00	319.93	16.317	34.300	22.497	.000
20	1	1976	12164.	3.341	.000	5.759	1.682	.415	57.024	1.077	.000	9.100	.00	.00	660.65	16.317	34.300	22.497	.000
21	1	1976	12175.	3.337	.000	5.763	1.683	.415	44.064	.833	.000	9.100	.00	.00	430.07	16.317	34.300	22.497	.000
22	1	1976	12184.	3.334	.000	5.766	1.685	.415	42.336	.801	.000	9.100	.00	.00	403.61	16.317	34.300	22.497	.000
23	1	1976	12195.	3.330	.000	5.770	1.686	.415	43.200	.817	.000	9.100	.00	.00	403.55	16.317	34.300	22.497	.000
24	1	1976	12205.	3.326	.000	5.774	1.687	.415	43.200	.817	.000	9.100	.00	.00	410.21	16.317	34.300	22.497	.000
25	1	1976	12212.	3.324	.000	5.776	1.688	.416	39.744	.752	.000	9.100	.00	.00	348.66	16.317	34.300	22.497	.000
26	1	1976	12219.	3.321	.000	5.779	1.689	.416	39.744	.752	.000	9.100	.00	.00	349.39	16.317	34.300	22.497	.000
27	1	1976	12229.	3.318	.000	5.782	1.691	.416	43.200	.818	.000	9.100	.00	.00	404.36	16.317	34.300	22.497	.000
28	1	1976	12243.	3.313	.000	5.787	1.693	.416	46.656	.884	.000	9.100	.00	.00	425.87	16.317	34.300	22.497	.000
29	1	1976	12285.	3.298	.000	5.802	1.698	.416	74.304	1.408	.000	9.100	.00	.00	1369.58	16.317	34.300	22.497	.000
30	1	1976	12313.	3.288	.000	5.812	1.702	.417	60.480	1.147	.000	9.100	.00	.00	894.18	16.317	34.300	22.497	.000
31	1	1976	12339.	3.278	.000	5.822	1.706	.417	58.752	1.116	.000	9.100	.00	.00	772.72	16.317	34.300	22.497	.000
1	2	1976	12362.	3.270	.000	5.830	1.709	.742	57.024	1.084	.000	9.100	.00	.00	687.35	16.816	35.350	23.292	.000
2	2	1976	12383.	3.262	.000	5.838	1.712	.742	54.432	1.035	.000	9.100	.00	.00	628.63	16.816	35.350	23.292	.000
3	2	1976	12400.	3.256	.000	5.844	1.714	.743	50.976	.970	.000	9.100	.00	.00	557.96	16.816	35.350	23.292	.000
4	2	1976	12412.	3.252	.000	5.848	1.716	.743	45.792	.872	.000	9.100	.00	.00	477.28	16.816	35.350	23.292	.000
5	2	1976	12421.	3.248	.000	5.852	1.717	.743	43.200	.823	.008	9.100	.00	.00	452.60	16.816	35.350	23.292	.000
6	2	1976	12431.	3.245	.800	5.855	1.719	.743	44.064	.839	.000	9.100	.00	.00	477.07	16.816	35.350	23.292	.000
7	2	1976	12438.	3.242	.000	5.858	1.720	.744	41.472	.790	.000	9.100	.00	.00	419.88	16.816	35.350	23.292	.000
8	2	1976	12444.	3.240	.000	5.860	1.720	.744	39.744	.757	.000	9.100	.00	.00	420.38	16.816	35.350	23.292	.000
9	2	1976	12449.	3.238	.000	5.862	1.721	.744	38.880	.741	.008	9.100	.00	.00	379.23	16.816	35.350	23.292	.000
10	2	1976	12467.	3.232	.000	5.868	1.724	.744	51.840	.988	.000	9.100	.00	.00	559.04	16.816	35.350	23.292	.000
11	2	1976	12493.	3.223	.000	5.877	1.727	.744	59.616	1.137	.000	9.100	.00	.00	864.83	16.816	35.350	23.292	.000
12	2	1976	12770.	3.122	.000	5.978	1.766	.745	306.720	5.854	.000	9.100	.00	.00	5199.38	16.816	35.350	23.292	.000
13	2	1976	12963.	3.053	.000	6.047	1.792	.751	223.776	4.306	.000	9.100	.00	.00	4320.86	16.816	35.350	23.292	.000
14	2	1976	13088.	3.008	.000	6.092	1.810	.755	156.384	3.026	.000	9.100	.00	.00	2903.46	16.816	35.350	23.292	.000

14 6 1976	10221.	39.292	35.249	5.057	1.413	4.140	6.048	.108	.000	44.349	.00	.00	-157.65	18.981	39.900	39.489	.000
15 6 1976	10138.	39.322	35.249	5.027	1.402	4.130	6.048	.108	.000	44.349	.00	.00	-168.64	18.981	39.900	39.489	.000
16 6 1976	10055.	39.352	35.249	4.997	1.390	4.120	6.048	.108	.000	44.349	.00	.00	-172.22	18.981	39.900	39.489	.000
17 6 1976	9972.	39.382	35.249	4.967	1.379	4.110	6.048	.108	.000	44.349	.00	.00	-175.72	18.981	39.900	39.489	.000
18 6 1976	9889.	39.412	35.249	4.937	1.367	4.101	6.048	.107	.000	44.349	.00	.00	-172.85	18.981	39.900	39.489	.000
19 6 1976	9817.	39.438	35.249	4.911	1.357	4.091	17.280	.306	.000	44.349	.00	.00	-150.29	18.981	39.900	39.489	.000
20 6 1976	9804.	4.194	.000	4.906	1.356	4.082	40.608	.717	.000	9.100	.00	.00	489.33	18.981	39.900	39.489	.000
21 6 1976	9766.	4.207	.000	4.893	1.350	4.081	15.552	.275	.000	9.100	.00	.00	34.71	18.981	39.900	39.489	.000
22 6 1976	9689.	39.484	35.249	4.865	1.340	4.076	12.096	.213	.000	44.349	.00	.00	-37.34	18.981	39.900	39.489	.000
23 6 1976	9610.	39.512	35.249	4.836	1.329	4.067	10.368	.182	.000	44.349	.00	.00	-74.88	18.981	39.900	39.489	.000
24 6 1976	9532.	39.541	35.249	4.808	1.318	4.058	10.368	.182	.000	44.349	.00	.00	-103.72	18.981	39.900	39.489	.000
25 6 1976	9452.	39.570	35.249	4.779	1.307	4.049	9.504	.166	.000	44.349	.00	.00	-111.69	18.981	39.900	39.489	.000
26 6 1976	9372.	39.599	35.249	4.750	1.296	4.039	8.640	.151	.000	44.349	.00	.00	-129.56	18.981	39.900	39.489	.000
27 6 1976	9291.	39.628	35.249	4.721	1.285	4.030	7.776	.136	.000	44.349	.00	.00	-134.73	18.981	39.900	39.489	.000
28 6 1976	9209.	39.657	35.249	4.692	1.273	4.020	7.776	.135	.000	44.349	.00	.00	-149.31	18.981	39.900	39.489	.000
29 6 1976	9127.	39.687	35.249	4.662	1.262	4.011	6.912	.120	.000	44.349	.00	.00	-156.77	18.981	39.900	39.489	.000
30 6 1976	9045.	39.717	35.249	4.632	1.251	4.001	6.912	.120	.000	44.349	.00	.00	-164.73	18.981	39.900	39.489	.000
1 7 1976	8958.	38.600	34.101	4.601	1.239	3.966	6.048	.104	.000	43.201	.00	.00	-169.67	18.648	39.200	44.516	.000
2 7 1976	8872.	38.632	34.101	4.570	1.227	3.919	6.048	.103	.000	43.201	.00	.00	-176.22	18.648	39.200	44.516	.000
3 7 1976	8785.	38.663	34.101	4.538	1.215	3.871	6.048	.101	.000	43.201	.00	.00	-178.05	18.648	39.200	44.516	.000
4 7 1976	8698.	38.694	34.101	4.507	1.203	3.824	6.048	.100	.000	43.201	.00	.00	-183.04	18.648	39.200	44.516	.000
5 7 1976	8612.	38.725	34.101	4.476	1.191	3.777	6.048	.099	.000	43.201	.00	.00	-181.31	18.648	39.200	44.516	.000
6 7 1976	8525.	38.757	34.101	4.445	1.179	3.729	6.048	.098	.000	43.201	.00	.00	-186.03	18.648	39.200	44.516	.000
7 7 1976	8439.	38.788	34.101	4.413	1.167	3.682	6.048	.096	.000	43.201	.00	.00	-182.45	18.648	39.200	44.516	.000
8 7 1976	8353.	38.819	34.101	4.382	1.155	3.635	6.048	.095	.000	43.201	.00	.00	-187.56	18.648	39.200	44.516	.000
9 7 1976	8266.	38.850	34.101	4.351	1.143	3.588	6.048	.094	.000	43.201	.00	.00	-178.10	18.648	39.200	44.516	.000
10 7 1976	8179.	38.882	34.101	4.319	1.131	3.540	5.184	.079	.000	43.201	.00	.00	-186.88	18.648	39.200	44.516	.000
11 7 1976	8092.	38.913	34.101	4.288	1.119	3.493	5.184	.078	.000	43.201	.00	.00	-193.09	18.648	39.200	44.516	.000
12 7 1976	8005.	38.945	34.101	4.257	1.107	3.445	5.184	.077	.000	43.201	.00	.00	-191.97	18.648	39.200	44.516	.000
13 7 1976	7918.	38.976	34.101	4.225	1.095	3.401	5.184	.076	.000	43.201	.00	.00	-187.08	18.648	39.200	44.516	.000
14 7 1976	7831.	39.007	34.101	4.194	1.083	3.366	5.184	.075	.000	43.201	.00	.00	-175.22	18.648	39.200	44.516	.000
15 7 1976	7744.	39.039	34.101	4.162	1.071	3.331	5.184	.075	.000	43.201	.00	.00	-180.41	18.648	39.200	44.516	.000
16 7 1976	7658.	39.070	34.101	4.131	1.059	3.295	5.184	.074	.000	43.201	.00	.00	-175.56	18.648	39.200	44.516	.000
17 7 1976	7571.	39.101	34.101	4.100	1.047	3.260	5.184	.073	.000	43.201	.00	.00	-182.05	18.648	39.200	44.516	.000
18 7 1976	7484.	39.133	34.101	4.068	1.035	3.225	5.184	.072	.000	43.201	.00	.00	-202.03	18.648	39.200	44.516	.000
19 7 1976	7397.	39.164	34.101	4.037	1.023	3.190	5.184	.072	.000	43.201	.00	.00	-189.71	18.648	39.200	44.516	.000
20 7 1976	7311.	39.195	34.101	4.006	1.011	3.154	5.184	.071	.000	43.201	.00	.00	-178.52	18.648	39.200	44.516	.000
21 7 1976	7224.	39.227	34.101	3.975	.999	3.119	5.184	.070	.000	43.201	.00	.00	-196.15	18.648	39.200	44.516	.000
22 7 1976	7137.	39.258	34.101	3.943	.987	3.084	4.320	.058	.000	43.201	.00	.00	-208.18	18.648	39.200	44.516	.000
23 7 1976	7049.	39.290	34.101	3.911	.975	3.049	4.320	.057	.000	43.201	.00	.00	-210.62	18.648	39.200	44.516	.000
24 7 1976	6962.	39.321	34.101	3.880	.963	3.013	4.320	.056	.000	43.201	.00	.00	-208.74	18.648	39.200	44.516	.000
25 7 1976	6875.	39.353	34.101	3.848	.951	2.978	4.320	.056	.000	43.201	.00	.00	-214.75	18.648	39.200	44.516	.000
26 7 1976	6788.	39.384	34.101	3.817	.938	2.942	4.320	.055	.000	43.201	.00	.00	-213.51	18.648	39.200	44.516	.000
27 7 1976	6700.	39.416	34.101	3.785	.926	2.907	3.456	.043	.000	43.201	.00	.00	-216.87	18.648	39.200	44.516	.000
28 7 1976	6612.	39.448	34.101	3.753	.914	2.871	3.456	.043	.000	43.201	.00	.00	-217.19	18.648	39.200	44.516	.000
29 7 1976	6524.	39.480	34.101	3.721	.902	2.835	3.456	.042	.000	43.201	.00	.00	-216.25	18.648	39.200	44.516	.000
30 7 1976	6436.	39.511	34.101	3.690	.890	2.800	3.456	.042	.000	43.201	.00	.00	-214.85	18.648	39.200	44.516	.000
31 7 1976	6348.	39.543	34.101	3.658	.878	2.764	3.456	.041	.000	43.201	.00	.00	-216.03	18.648	39.200	44.516	.000
1 8 1976	6264.	34.982	29.510	3.628	.866	2.177	3.456	.041	.000	38.610	.00	.00	-220.65	17.316	36.400	45.312	.000
2 8 1976	6181.	35.012	29.510	3.598	.855	2.153	3.456	.040	.000	38.610	.00	.00	-218.78	17.316	36.400	45.312	.000
3 8 1976	6098.	35.042	29.510	3.568	.843	2.129	3.456	.040	.000	38.610	.00	.00	-221.97	17.316	36.400	45.312	.000
4 8 1976	6014.	35.073	29.510	3.537	.832	2.106	3.456	.040	.000	38.610	.00	.00	-223.06	17.316	36.400	45.312	.000
5 8 1976	5931.	35.103	29.510	3.507	.820	2.082	3.456	.039	.000	38.610	.00	.00	-228.24	17.316	36.400	45.312	.000
6 8 1976	5848.	35.133	29.510	3.477	.808	2.058	3.456	.039	.000	38.610	.00	.00	-234.92	17.316	36.400	45.312	.000
7 8 1976	5764.	35.163	29.510	3.447	.797	2.035	3.456	.038	.000	38.610	.00	.00	-237.97	17.316	36.400	45.312	.000
8 8 1976	5681.	35.193	29.510	3.417	.785	2.011	3.456	.038	.000	38.610	.00	.00	-237.39	17.316	36.400	45.312	.000
9 8 1976	5597.	35.223	29.510	3.387	.774	1.987	2.592	.028	.000	38.610	.00	.00	-232.14	17.316	36.400	45.312	.000
10 8 1976	5513.	35.254	29.510	3.356	.762	1.964	2.592	.028	.000	38.610	.00	.00	-236.13	17.316	36.400	45.312	.000
11 8 1976	5429.	35.284	29.510	3.326	.751	1.940	2.592	.027	.000	38.610	.00	.00	-232.58	17.316	36.400	45.312	.000
12 8 1976	5345.	35.314	29.510	3.296	.739	1.916	2.592	.027	.000	38.610	.00	.00	-236.20	17.316	36.400	45.312	.000

13 8 1976	5261.	35.345	29.510	3.265	.727	1.892	2.592	.027	.000	38.610	.00	.00	-238.44	17.316	36.400	45.312	.000
14 8 1976	5177.	35.375	29.510	3.235	.716	1.868	2.592	.026	.000	38.610	.00	.00	-237.96	17.316	36.400	45.312	.000
15 8 1976	5093.	35.405	29.510	3.205	.704	1.844	2.592	.026	.000	38.610	.00	.00	-240.51	17.316	36.400	45.312	.000
16 8 1976	5010.	35.435	29.510	3.175	.693	1.821	2.592	.026	.000	38.610	.00	.00	-240.03	17.316	36.400	45.312	.000
17 8 1976	4926.	35.466	29.510	3.144	.681	1.797	2.592	.025	.000	38.610	.00	.00	-245.80	17.316	36.400	45.312	.000
18 8 1976	4842.	35.496	29.510	3.114	.669	1.773	2.592	.025	.000	38.610	.00	.00	-246.34	17.316	36.400	45.312	.000
19 8 1976	4758.	35.526	29.510	3.084	.658	1.749	2.592	.025	.000	38.610	.00	.00	-242.48	17.316	36.400	45.312	.000
20 8 1976	4675.	35.556	29.510	3.054	.646	1.726	2.592	.024	.000	38.610	.00	.00	-243.93	17.316	36.400	45.312	.000
21 8 1976	4591.	35.587	29.510	3.023	.635	1.702	2.592	.024	.000	38.610	.00	.00	-251.58	17.316	36.400	45.312	.000
22 8 1976	4507.	35.617	29.510	2.993	.623	1.678	2.592	.024	.000	38.610	.00	.00	-247.97	17.316	36.400	45.312	.000
23 8 1976	4424.	35.647	29.510	2.963	.612	1.653	2.592	.023	.000	38.610	.00	.00	-239.77	17.316	36.400	45.312	.000
24 8 1976	4340.	35.677	29.510	2.933	.600	1.629	2.592	.023	.000	38.610	.00	.00	-248.81	17.316	36.400	45.312	.000
25 8 1976	4256.	35.708	29.510	2.902	.588	1.604	1.728	.015	.000	38.610	.00	.00	-248.87	17.316	36.400	45.312	.000
26 8 1976	4172.	35.738	29.510	2.872	.577	1.579	2.592	.022	.000	38.610	.00	.00	-250.01	17.316	36.400	45.312	.000
27 8 1976	4088.	35.768	29.510	2.842	.565	1.555	1.728	.015	.000	38.610	.00	.00	-252.33	17.316	36.400	45.312	.000
28 8 1976	4004.	35.799	29.510	2.811	.554	1.530	1.728	.014	.000	38.610	.00	.00	-247.48	17.316	36.400	45.312	.000
29 8 1976	3921.	35.828	29.510	2.782	.542	1.505	3.456	.028	.000	38.610	.00	.00	-241.72	17.316	36.400	45.312	.000
30 8 1976	3848.	35.855	29.510	2.755	.532	1.481	12.096	.097	.000	38.610	.00	.00	-57.63	17.316	36.400	45.312	.000
31 8 1976	3769.	35.884	29.510	2.726	.521	1.459	6.912	.055	.000	38.610	.00	.00	-116.87	17.316	36.400	45.312	.000
1 9 1976	3695.	32.467	26.067	2.700	.511	.932	5.184	.040	.000	35.167	.00	.00	-179.06	16.317	34.300	42.352	.000
2 9 1976	3620.	32.494	26.067	2.673	.501	.918	4.320	.033	.000	35.167	.00	.00	-194.51	16.317	34.300	42.352	.000
3 9 1976	3546.	32.521	26.067	2.646	.490	.904	4.320	.033	.000	35.167	.00	.00	-205.47	16.317	34.300	42.352	.000
4 9 1976	3470.	32.548	26.067	2.619	.480	.889	3.456	.026	.000	35.167	.00	.00	-211.84	16.317	34.300	42.352	.000
5 9 1976	3395.	32.575	26.067	2.591	.469	.875	3.456	.025	.000	35.167	.00	.00	-220.25	16.317	34.300	42.352	.000
6 9 1976	3320.	32.602	26.067	2.564	.459	.860	3.456	.025	.000	35.167	.00	.00	-217.69	16.317	34.300	42.352	.000
7 9 1976	3244.	32.630	26.067	2.537	.449	.846	3.456	.024	.000	35.167	.00	.00	-223.97	16.317	34.300	42.352	.000
8 9 1976	3168.	32.657	26.067	2.509	.438	.832	2.592	.018	.000	35.167	.00	.00	-227.13	16.317	34.300	42.352	.000
9 9 1976	3092.	32.685	26.067	2.482	.428	.818	2.592	.018	.000	35.167	.00	.00	-224.98	16.317	34.300	42.352	.000
10 9 1976	3018.	32.712	26.067	2.455	.417	.804	4.320	.029	.000	35.167	.00	.00	-203.10	16.317	34.300	42.352	.000
11 9 1976	2945.	32.738	26.067	2.429	.407	.790	6.048	.040	.000	35.167	.00	.00	-148.04	16.317	34.300	42.352	.000
12 9 1976	2872.	32.764	26.067	2.402	.397	.777	5.184	.034	.000	35.167	.00	.00	-185.13	16.317	34.300	42.352	.000
13 9 1976	2798.	32.791	26.067	2.376	.387	.763	5.184	.033	.000	35.167	.00	.00	-176.80	16.317	34.300	42.352	.000
14 9 1976	2733.	32.815	26.067	2.352	.378	.750	12.960	.081	.000	35.167	.00	.00	-85.49	16.317	34.300	42.352	.000
15 9 1976	2681.	17.495	10.729	2.333	.371	.737	11.232	.069	.000	19.829	.00	.00	.19	16.317	34.300	42.352	.000
16 9 1976	2610.	32.859	26.067	2.308	.361	.728	7.776	.047	.000	35.167	.00	.00	-117.66	16.317	34.300	42.352	.000
17 9 1976	2538.	32.885	26.067	2.282	.351	.715	6.912	.041	.000	35.167	.00	.00	-136.08	16.317	34.300	42.352	.000
18 9 1976	2466.	32.911	26.067	2.256	.341	.701	6.912	.041	.000	35.167	.00	.00	-133.01	16.317	34.300	42.352	.000
19 9 1976	2395.	32.937	26.067	2.230	.331	.688	6.912	.040	.000	35.167	.00	.00	-151.80	16.317	34.300	42.352	.000
20 9 1976	2322.	32.963	26.067	2.204	.321	.676	6.048	.034	.000	35.167	.00	.00	-169.49	16.317	34.300	42.352	.000
21 9 1976	2304.	6.903	.000	2.197	.319	.664	33.696	.187	.000	9.100	.00	.00	191.92	16.317	34.300	42.352	.000
22 9 1976	2307.	6.902	.000	2.198	.319	.661	55.296	.308	.000	9.100	.08	.08	927.19	16.317	34.300	42.352	.000
23 9 1976	2281.	6.911	.000	2.189	.315	.661	25.920	.143	.000	9.100	.00	.00	247.54	16.317	34.308	42.352	.000
24 9 1976	2249.	6.922	.000	2.178	.311	.657	20.736	.114	.000	9.100	.00	.00	151.57	16.317	34.300	42.352	.000
25 9 1976	2222.	6.932	.000	2.168	.307	.652	25.056	.137	.000	9.100	.00	.00	234.53	16.317	34.300	42.352	.000
26 9 1976	2196.	6.942	.000	2.158	.304	.647	26.784	.145	.000	9.100	.00	.00	248.25	16.317	34.300	42.352	.000
27 9 1976	2199.	6.941	.000	2.159	.304	.643	54.432	.293	.000	9.100	.00	.00	733.00	16.317	34.300	42.352	.000
28 9 1976	2202.	6.940	.000	2.160	.304	.644	55.296	.298	.000	9.100	.00	.00	748.38	16.317	34.300	42.352	.000
29 9 1976	2211.	6.936	.000	2.164	.306	.644	61.344	.331	.000	9.100	.00	.00	859.39	16.317	34.300	42.352	.000
30 9 1976	2255.	6.920	.000	2.180	.312	.646	95.904	.518	.000	9.100	.00	.00	1922.55	16.317	34.300	42.352	.000
1 10 1976	2482.	6.838	.000	2.262	.343	.310	268.704	1.468	.000	9.100	.00	.00	5784.41	14.818	31.150	33.570	.000
2 10 1976	2697.	6.761	.000	2.339	.373	.328	256.608	1.484	.000	9.100	.00	.00	4925.36	14.818	31.150	33.570	.000
3 10 1976	2894.	6.689	.000	2.411	.400	.347	239.328	1.463	.000	9.100	.00	.00	4202.17	14.818	31.150	33.570	.000
4 10 1976	3031.	6.640	.000	2.460	.419	.364	178.848	1.148	.000	9.100	.00	.00	3114.15	14.818	31.150	33.570	.000
5 10 1976	3155.	6.595	.000	2.505	.436	.376	166.752	1.106	.000	9.100	.00	.00	2830.20	14.818	31.150	33.570	.000
6 10 1976	3284.	6.549	.000	2.551	.456	.387	171.072	1.168	.000	9.100	.00	.00	2956.28	14.818	31.150	33.570	.000
7 10 1976	3398.	6.508	.000	2.592	.470	.398	156.384	1.099	.000	9.100	.00	.00	2769.41	14.818	31.150	33.570	.000
8 10 1976	3529.	6.460	.000	2.640	.488	.409	173.664	1.251	.000	9.100	.00	.00	3137.26	14.818	31.180	33.570	.000
9 10 1976	3641.	6.420	.000	2.680	.503	.420	154.656	1.146	.000	9.100	.00	.00	2842.08	14.818	31.150	33.570	.000
10 10 1976	3746.	6.382	.000	2.718	.518	.431	146.880	1.115	.000	9.100	.00	.00	2677.21	14.818	31.150	33.570	.000
11 10 1976	3845.	6.346	.000	2.754	.532	.440	141.696	1.099	.000	9.100	.00	.00	2706.92	14.818	31.150	33.570	.000

12 10 1976	3933.	6.314	.000	2.786	.544	.449	130.464	1.033	.000	9.100	.00	.00	2417.20	14.818	31.150	33.570	.000
13 10 1976	4011.	6.286	.000	2.814	.555	.457	120.960	.975	.000	9.100	.00	.00	2041.92	14.818	31.150	33.570	.000
14 10 1976	4378.	6.153	.000	2.947	.605	.464	407.898	3.337	.000	9.100	.00	.00	7171.53	14.818	31.150	33.570	.000
15 10 1976	4819.	5.994	.000	3.106	.666	.497	480.384	4.213	.000	9.100	.00	.00	9226.58	14.818	31.150	33.570	.000
16 10 1976	5067.	5.905	.000	3.195	.700	.537	288.576	2.731	.000	9.100	.00	.00	5050.75	14.818	31.150	33.570	.000
17 10 1976	5261.	5.835	.000	3.265	.727	.558	235.872	2.322	.000	9.100	.00	.00	4259.98	14.818	31.150	33.570	.000
18 10 1976	5411.	5.780	.000	3.320	.748	.575	192.672	1.954	.000	9.100	.00	.00	3685.85	14.818	31.150	33.570	.000
19 10 1976	5532.	5.737	.000	3.363	.765	.588	163.296	1.694	.000	9.100	.00	.00	3108.04	14.818	31.150	33.570	.000
20 10 1976	5625.	5.703	.000	3.397	.778	.599	135.648	1.433	.000	9.100	.00	.00	2630.60	14.818	31.150	33.570	.000
21 10 1976	5706.	5.674	.000	3.426	.789	.607	123.552	1.323	.000	9.100	.00	.00	2361.36	14.818	31.150	33.570	.000
22 10 1976	5781.	5.647	.000	3.453	.799	.614	117.504	1.272	.000	9.100	.00	.00	2168.97	14.818	31.150	33.570	.000
23 10 1976	5863.	5.617	.000	3.483	.811	.621	124.416	1.362	.000	9.100	.00	.00	2477.02	14.818	31.150	33.570	.000
24 10 1976	5972.	5.578	.000	3.522	.826	.628	152.064	1.683	.000	9.100	.00	.00	3230.55	14.818	31.150	33.570	.000
25 10 1976	6080.	5.539	.000	3.561	.841	.637	150.336	1.690	.000	9.100	.00	.00	3011.94	14.818	31.150	33.570	.000
26 10 1976	6175.	5.505	.000	3.595	.854	.647	137.376	1.567	.000	9.100	.00	.00	2635.34	14.818	31.150	33.570	.000
27 10 1976	6276.	5.468	.000	3.632	.868	.655	143.424	1.657	.000	9.100	.00	.00	2865.17	14.818	31.150	33.570	.000
28 10 1976	6348.	5.442	.000	3.658	.878	.664	114.912	1.345	.000	9.100	.00	.00	2256.82	14.818	31.150	33.570	.000
29 10 1976	6410.	5.419	.000	3.681	.886	.670	105.408	1.246	.000	9.100	.00	.00	1927.20	14.818	31.150	33.570	.000
30 10 1976	6459.	5.402	.000	3.698	.893	.676	91.584	1.091	.000	9.100	.00	.00	1629.66	14.818	31.150	33.570	.000
31 10 1976	6497.	5.388	.000	3.712	.898	.680	82.080	.985	.000	9.100	.00	.00	1353.58	14.818	31.150	33.570	.000
1 11 1976	6550.	5.369	.000	3.731	.906	.309	86.400	1.042	.000	9.100	.00	.00	1435.02	14.652	30.800	24.310	.000
2 11 1976	6612.	5.347	.000	3.753	.914	.311	95.040	1.156	.000	9.100	.00	.00	1690.42	14.652	30.800	24.310	.000
3 11 1976	6678.	5.323	.000	3.777	.923	.314	99.360	1.219	.000	9.100	.00	.00	1795.28	14.652	30.800	24.310	.000
4 11 1976	6762.	5.292	.000	3.808	.935	.317	117.504	1.455	.000	9.100	.00	.00	2066.66	14.652	30.800	24.310	.000
5 11 1976	6849.	5.261	.000	3.839	.947	.321	120.096	1.505	.000	9.100	.00	.00	2218.46	14.652	30.800	24.310	.000
6 11 1976	6973.	5.216	.000	3.884	.964	.325	156.384	1.983	.000	9.100	.00	.00	3120.52	14.652	30.800	24.310	.000
7 11 1976	7074.	5.180	.000	3.920	.978	.330	133.920	1.728	.000	9.100	.00	.00	2571.96	14.652	30.800	24.310	.000
8 11 1976	7162.	5.148	.000	3.952	.990	.335	121.824	1.593	.000	9.100	.00	.00	2302.89	14.652	30.800	24.310	.000
9 11 1976	7234.	5.122	.000	3.978	1.000	.339	105.408	1.395	.000	9.100	.00	.00	1894.03	14.652	30.800	24.310	.000
10 11 1976	7292.	5.101	.000	3.999	1.008	.342	90.720	1.212	.000	9.100	.00	.00	1526.95	14.652	30.800	24.310	.000
11 11 1976	7338.	5.084	.000	4.016	1.015	.345	80.352	1.082	.000	9.100	.00	.00	1296.85	14.652	30.800	24.310	.000
12 11 1976	7375.	5.071	.000	4.029	1.020	.347	70.848	.959	.000	9.100	.00	.00	1107.66	14.652	30.800	24.310	.000
13 11 1976	7404.	5.060	.000	4.040	1.024	.349	63.072	.858	.000	9.100	.00	.00	904.57	14.652	30.800	24.310	.000
14 11 1976	7427.	5.052	.000	4.048	1.027	.350	57.024	.779	.000	9.100	.00	.00	752.03	14.652	30.800	24.310	.000
15 11 1976	7448.	5.045	.000	4.055	1.030	.351	54.432	.746	.000	9.100	.00	.00	655.75	14.652	30.800	24.310	.000
16 11 1976	7467.	5.038	.000	4.062	1.032	.352	53.568	.736	.000	9.100	.00	.00	648.75	14.652	30.800	24.310	.000
17 11 1976	7483.	5.032	.000	4.068	1.035	.353	50.112	.690	.000	9.100	.00	.00	569.07	14.652	30.800	24.310	.000
18 11 1976	7502.	5.025	.000	4.075	1.037	.353	52.704	.727	.000	9.100	.00	.00	724.05	14.652	30.800	24.310	.000
19 11 1976	7514.	5.021	.000	4.079	1.039	.354	45.792	.633	.000	9.100	.00	.00	590.48	14.652	30.800	24.310	.000
20 11 1976	7523.	5.018	.000	4.082	1.040	.355	43.200	.598	.000	9.100	.00	.00	538.15	14.652	30.800	24.310	.000
21 11 1976	7530.	5.015	.000	4.085	1.041	.355	41.472	.575	.000	9.100	.00	.00	499.60	14.652	30.800	24.310	.000
22 11 1976	7534.	5.013	.000	4.087	1.042	.356	38.880	.540	.000	9.100	.00	.00	467.44	14.652	30.800	24.310	.000
23 11 1976	7536.	5.013	.000	4.087	1.042	.356	36.288	.504	.000	9.100	.00	.00	429.89	14.652	30.800	24.310	.000
24 11 1976	7537.	5.012	.000	4.088	1.042	.356	35.424	.492	.000	9.100	.00	.00	409.07	14.652	30.800	24.310	.000
25 11 1976	7538.	5.012	.000	4.088	1.042	.356	34.560	.480	.000	9.100	.00	.00	378.41	14.652	30.800	24.310	.000
26 11 1976	7539.	5.012	.000	4.088	1.042	.356	35.424	.492	.000	9.100	.00	.00	382.58	14.652	30.800	24.310	.000
27 11 1976	7541.	5.011	.000	4.089	1.043	.356	36.288	.504	.000	9.100	.00	.00	402.22	14.652	30.800	24.310	.000
28 11 1976	7580.	4.997	.000	4.103	1.048	.356	73.440	1.021	.000	9.100	.00	.00	1238.43	14.652	30.800	24.310	.000
29 11 1976	7645.	4.973	.000	4.127	1.057	.358	98.496	1.376	.000	9.100	.00	.00	2037.52	14.652	30.800	24.310	.000
30 11 1976	7883.	4.887	.000	4.213	1.090	.361	268.704	3.784	.000	9.100	.00	.00	6142.49	14.652	30.800	24.310	.000
1 12 1976	8219.	4.766	.000	4.334	1.136	.168	360.288	5.224	.000	9.100	.00	.00	7247.64	15.151	31.850	18.837	.000
2 12 1976	8544.	4.649	.000	4.451	1.181	.176	349.056	5.308	.000	9.100	.00	.00	6782.15	15.151	31.850	18.837	.000
3 12 1976	8778.	4.564	.000	4.536	1.214	.185	258.336	4.127	.000	9.100	.00	.00	4505.35	15.151	31.850	18.837	.000
4 12 1976	8936.	4.507	.000	4.593	1.236	.191	184.896	3.056	.000	9.100	.00	.00	3171.51	15.151	31.850	18.837	.000
5 12 1976	9063.	4.461	.000	4.639	1.253	.196	153.792	2.599	.000	9.100	.00	.00	2691.29	15.151	31.850	18.837	.000
6 12 1976	9182.	4.418	.000	4.682	1.270	.199	146.016	2.512	.000	9.100	.00	.00	2669.74	15.151	31.850	18.837	.000
7 12 1976	9309.	4.372	.000	4.728	1.287	.201	153.792	2.667	.000	9.100	.00	.00	2757.99	15.151	31.850	18.837	.000
8 12 1976	9464.	4.316	.000	4.784	1.309	.202	181.440	3.158	.000	9.100	.00	.00	3126.96	15.151	31.850	18.837	.000
9 12 1976	9606.	4.265	.000	4.835	1.328	.203	167.616	2.930	.000	9.100	.00	.00	2863.13	15.151	31.850	18.837	.000
10 12 1976	9720.	4.224	.000	4.876	1.344	.203	141.696	2.487	.000	9.100	.00	.00	2492.70	15.151	31.850	18.837	.000

11	12	1976	9810.	4.191	.000	4.909	1.356	.204	117.504	2.070	.000	9.100	.00	.00	2065.82	15.151	31.850	18.837	.000
12	12	1976	9881.	4.166	.000	4.934	1.366	.205	98.496	1.739	.000	9.100	.00	.00	1642.98	15.151	31.850	18.837	.000
13	12	1976	9939.	4.145	.000	4.955	1.374	.205	85.536	1.514	.000	9.100	.00	.00	1377.08	15.151	31.850	18.837	.000
14	12	1976	9985.	4.128	.000	4.972	1.380	.205	74.304	1.317	.000	9.100	.00	.00	1146.59	15.151	31.850	18.837	.000
15	12	1976	10022.	4.115	.000	4.985	1.386	.206	65.664	1.165	.000	9.100	.00	.00	959.02	15.151	31.850	18.837	.000
16	12	1976	10056.	4.103	.000	4.997	1.390	.206	62.208	1.105	.000	9.100	.00	.00	880.15	15.151	31.850	18.837	.000
17	12	1976	10117.	4.081	.000	5.019	1.399	.206	88.992	1.583	.000	9.100	.00	.00	1875.53	15.151	31.850	18.837	.000
18	12	1976	10179.	4.058	.000	5.042	1.407	.206	89.856	1.601	.000	9.100	.00	.00	2054.82	15.151	31.850	18.837	.000
19	12	1976	10248.	4.033	.000	5.067	1.417	.207	96.768	1.727	.000	9.100	.00	.00	2122.38	15.151	31.850	18.837	.000
20	12	1976	10315.	4.009	.000	5.091	1.426	.207	95.040	1.699	.000	9.100	.00	.00	1894.01	15.151	31.850	18.837	.000
21	12	1976	10381.	3.985	.000	5.115	1.435	.208	94.176	1.687	.000	9.100	.00	.00	1757.85	15.151	31.850	18.837	.000
22	12	1976	10446.	3.962	.000	5.138	1.444	.208	92.448	1.659	.000	9.100	.00	.00	1679.89	15.151	31.850	18.837	.000
23	12	1976	10502.	3.941	.000	5.159	1.452	.208	84.672	1.523	.000	9.100	.00	.08	1538.03	15.151	31.850	18.837	.000
24	12	1976	10551.	3.924	.000	5.176	1.459	.209	76.896	1.385	.000	9.100	.00	.00	1296.17	15.151	31.850	18.837	.000
25	12	1976	10593.	3.909	.000	5.191	1.465	.209	70.848	1.278	.000	9.100	.00	.00	1122.85	15.151	31.850	18.837	.000
26	12	1976	10631.	3.895	.000	5.205	1.470	.209	65.664	1.186	.000	9.100	.00	.00	987.04	15.151	31.850	18.837	.000
27	12	1976	10665.	3.883	.000	5.217	1.475	.209	63.072	1.140	.000	9.100	.00	.00	905.81	15.151	31.850	18.837	.000
28	12	1976	10695.	3.872	.000	5.228	1.479	.210	58.752	1.063	.000	9.100	.00	.00	833.67	15.151	31.850	18.837	.000
29	12	1976	10720.	3.863	.000	5.237	1.482	.210	53.568	.970	.000	9.100	.00	.00	688.06	15.151	31.850	18.837	.000
30	12	1976	10761.	3.848	.000	5.252	1.488	.210	69.120	1.253	.000	9.100	.00	.00	1255.40	15.151	31.850	18.837	.000
31	12	1976	10811.	3.830	.000	5.270	1.495	.210	78.624	1.426	.000	9.100	.00	.00	1732.64	15.151	31.850	18.837	.000
1	1	1977	10876.	3.806	.000	5.294	1.504	.399	96.768	1.758	.000	9.100	.00	.00	2277.98	16.084	33.810	22.497	.000
2	1	1977	10933.	3.786	.000	5.314	1.512	.400	88.128	1.604	.000	9.100	.00	.00	1743.27	16.084	33.810	22.497	.000
3	1	1977	10985.	3.767	.000	5.333	1.519	.400	83.808	1.528	.000	9.100	.00	.00	1530.44	16.084	33.810	22.497	.000
4	1	1977	11033.	3.750	.000	5.350	1.525	.401	80.352	1.467	.000	9.100	.00	.00	1409.78	16.084	33.810	22.497	.000
5	1	1977	11085.	3.731	.000	5.369	1.533	.401	83.808	1.532	.000	9.100	.00	.00	1461.48	16.084	33.810	22.497	.000
6	1	1977	11128.	3.716	.000	5.384	1.538	.402	75.168	1.376	.000	9.100	.00	.00	1208.65	16.084	33.810	22.497	.000
7	1	1977	11164.	3.703	.000	5.397	1.543	.402	68.256	1.251	.000	9.100	.00	.00	1013.48	16.084	33.810	22.497	.000
8	1	1977	11195.	3.691	.000	5.409	1.548	.403	63.936	1.173	.000	9.100	.00	.00	919.30	16.084	33.810	22.497	.000
9	1	1977	11233.	3.678	.000	5.422	1.553	.403	69.984	1.285	.000	9.100	.00	.00	1123.39	16.084	33.810	22.497	.000
10	1	1977	11270.	3.664	.000	5.436	1.558	.404	69.120	1.271	.000	9.100	.00	.00	1107.60	16.084	33.810	22.497	.000
11	1	1977	11300.	3.653	.000	5.447	1.562	.404	63.072	1.161	.000	9.100	.00	.00	946.67	16.084	33.810	22.497	.000
12	1	1977	11327.	3.644	.000	5.456	1.566	.404	58.752	1.082	.000	9.100	.00	.00	828.00	16.084	33.810	22.497	.000
13	1	1977	11378.	3.625	.000	5.475	1.573	.405	83.808	1.545	.000	9.100	.00	.00	2305.45	16.084	33.810	22.497	.000
14	1	1977	11487.	3.586	.000	5.514	1.588	.405	139.968	2.585	.000	9.100	.00	.00	3379.05	16.084	33.810	22.497	.000
15	1	1977	11601.	3.545	.000	5.555	1.604	.407	144.288	2.673	.000	9.100	.00	.00	3243.04	16.084	33.810	22.497	.000
16	1	1977	11705.	3.507	.000	5.593	1.618	.408	135.648	2.522	.000	9.100	.00	.00	2700.21	16.084	33.810	22.497	.000
17	1	1977	11804.	3.471	.000	5.629	1.632	.409	129.600	2.417	.000	9.100	.00	.00	2565.74	16.084	33.810	22.497	.000
18	1	1977	11894.	3.439	.000	5.661	1.644	.411	121.824	2.278	.000	9.100	.00	.00	2423.41	16.084	33.810	22.497	.000
19	1	1977	11980.	3.408	.000	5.692	1.656	.412	117.504	2.204	.000	9.100	.00	.00	2242.97	16.084	33.810	22.497	.000
20	1	1977	12097.	3.365	.000	5.735	1.673	.413	147.744	2.778	.000	9.100	.00	.00	2667.65	16.084	33.810	22.497	.000
21	1	1977	12211.	3.324	.000	5.776	1.688	.414	145.152	2.739	.000	9.100	.00	.00	2768.09	16.084	33.810	22.497	.000
22	1	1977	12335.	3.279	.000	5.821	1.705	.416	154.656	2.928	.000	9.100	.00	.00	2994.93	16.084	33.810	22.497	.000
23	1	1977	12446.	3.239	.000	5.861	1.721	.417	141.696	2.692	.000	9.100	.00	.00	2870.36	16.084	33.810	22.497	.000
24	1	1977	12548.	3.203	.000	5.897	1.735	.418	133.056	2.536	.000	9.100	.00	.00	2567.67	16.084	33.810	22.497	.000
25	1	1977	12692.	3.151	.000	5.949	1.755	.420	174.528	3.337	.000	9.100	.00	.00	3127.40	16.084	33.810	22.497	.000
26	1	1977	12850.	3.094	.000	6.006	1.777	.422	188.352	3.616	.000	9.100	.00	.00	3447.21	16.084	33.810	22.497	.000
27	1	1977	13108.	3.000	.000	6.100	1.812	.423	286.848	5.532	.000	9.100	.00	.00	5234.54	16.084	33.810	22.497	.000
28	1	1977	13415.	2.909	.000	6.191	1.855	.427	334.368	6.497	.000	9.100	.00	.00	6269.87	16.084	33.810	22.497	.000
29	1	1977	13635.	2.851	.000	6.249	1.885	.430	248.832	4.879	.000	9.100	.00	.00	4348.89	16.084	33.810	22.497	.000
30	1	1977	13784.	2.811	.000	6.289	1.906	.433	179.712	3.547	.000	9.100	.00	.00	3152.03	16.084	33.810	22.497	.000
31	1	1977	13893.	2.782	.000	6.318	1.921	.435	139.968	2.775	.000	9.100	.00	.00	2534.68	16.084	33.810	22.497	.000
1	2	1977	13974.	2.761	.000	6.339	1.932	.776	114.048	2.268	.000	9.100	.00	.00	2042.77	15.884	33.390	23.292	.000
2	2	1977	14054.	2.740	.000	6.360	1.943	.778	112.320	2.239	.000	9.100	.00	.00	2231.30	15.884	33.390	23.292	.000
3	2	1977	14194.	2.703	.000	6.397	1.962	.780	171.936	3.436	.000	9.100	.00	.00	3290.40	15.884	33.390	23.292	.000
4	2	1977	14316.	2.671	.000	6.429	1.979	.783	153.792	3.086	.000	9.100	.00	.00	2961.50	15.884	33.390	23.292	.000
5	2	1977	14457.	2.633	.000	6.467	1.999	.786	172.800	3.480	.000	9.100	.00	.00	3332.93	15.884	33.390	23.292	.000
6	2	1977	14636.	2.586	.000	6.514	2.024	.789	209.952	4.246	.000	9.100	.00	.00	3421.14	15.884	33.390	23.292	.000
7	2	1977	14796.	2.544	.000	6.556	2.046	.793	190.944	3.882	.000	9.100	.00	.00	3310.13	15.884	33.390	23.292	.000
8	2	1977	14928.	2.509	.000	6.591	2.064	.797	164.160	3.353	.000	9.100	.00	.00	2886.13	15.884	33.390	23.292	.000

9	2	1977	15089.	2.466	.000	6.634	2.086	.800	192.672	3.950	.000	9.100	.00	.00	3630.99	15.884	33.390	23.292	.000
10	2	1977	15288.	2.414	.000	6.686	2.114	.804	229.824	4.734	.000	9.100	.00	.00	4545.70	15.884	33.390	23.292	.000
11	2	1977	15460.	2.368	.000	6.732	2.138	.809	203.040	4.206	.000	9.100	.00	.00	3727.75	15.884	33.390	23.292	.000
12	2	1977	15595.	2.332	.000	6.768	2.156	.813	166.752	3.471	.000	9.100	.00	.00	3063.68	15.884	33.390	23.292	.000
13	2	1977	15697.	2.306	.000	6.794	2.170	.816	133.920	2.798	.000	9.100	.00	.00	2522.61	15.884	33.390	23.292	.000
14	2	1977	15777.	2.284	.000	6.816	2.181	.818	113.184	2.372	.000	9.100	.00	.00	2085.32	15.884	33.390	23.292	.000
15	2	1977	15856.	2.264	.000	6.836	2.192	.820	112.320	2.359	.000	9.100	.00	.00	2118.95	15.884	33.390	23.292	.000
16	2	1977	15921.	2.246	.000	6.854	2.201	.822	98.496	2.073	.000	9.100	.00	.00	1831.33	15.884	33.390	23.292	.000
17	2	1977	15992.	2.227	.000	6.873	2.211	.823	104.544	2.208	.000	9.100	.00	.00	1932.63	15.884	33.390	23.292	.000
18	2	1977	16148.	2.186	.000	6.914	2.233	.825	186.624	3.944	.000	9.100	.00	.00	3355.51	15.884	33.390	23.292	.000
19	2	1977	16319.	2.141	.000	6.959	2.256	.828	205.040	4.309	.000	9.100	.00	.00	3606.28	15.884	33.390	23.292	.000
20	2	1977	16520.	2.088	.000	7.012	2.284	.832	231.552	4.938	.000	9.100	.00	.00	4724.40	15.884	33.390	23.292	.000
21	2	1977	16711.	2.037	.000	7.063	2.310	.837	221.184	4.743	.000	9.100	.00	.00	4570.31	15.884	33.390	23.292	.000
22	2	1977	16934.	1.979	.000	7.121	2.341	.841	253.152	5.457	.000	9.100	.00	.00	5763.22	15.884	33.390	23.292	.000
23	2	1977	17127.	1.927	.000	7.173	2.368	.847	223.776	4.857	.000	9.100	.00	.00	4529.18	15.884	33.390	23.292	.000
24	2	1977	17292.	1.884	.000	7.216	2.391	.862	196.128	4.282	.000	9.100	.00	.00	3659.56	15.884	33.390	23.292	.000
25	2	1977	17420.	1.850	.000	7.250	2.409	.856	160.704	3.526	.000	9.100	.00	.00	3200.32	15.884	33.390	23.292	.000
26	2	1977	17516.	1.825	.000	7.275	2.422	.860	128.736	2.835	.000	9.100	.00	.00	2587.23	15.884	33.390	23.292	.000
27	2	1977	17593.	1.804	.000	7.296	2.432	.862	110.592	2.443	.000	9.100	.00	.00	2156.85	15.884	33.390	23.292	.000
28	2	1977	17668.	1.787	.000	7.313	2.441	.864	97.632	2.161	.000	9.100	.00	.00	1810.98	15.884	33.390	23.292	.000
1	3	1977	17719.	1.771	.000	7.329	2.450	1.772	98.496	2.185	.000	9.100	.00	.00	2012.08	15.917	33.460	25.679	.000
2	3	1977	17764.	1.759	.000	7.341	2.456	1.775	82.080	1.824	.000	9.100	.00	.00	1515.28	15.917	33.460	25.679	.000
3	3	1977	17803.	1.749	.000	7.351	2.461	1.778	76.032	1.692	.000	9.100	.00	.00	1350.09	15.917	33.460	25.679	.000
4	3	1977	17836.	1.740	.000	7.360	2.466	1.780	70.848	1.578	.000	9.100	.00	.00	1186.18	15.917	33.460	25.679	.000
5	3	1977	17863.	1.733	.000	7.367	2.470	1.782	64.800	1.445	.000	9.100	.00	.00	1034.89	15.917	33.460	25.679	.000
6	3	1977	17887.	1.726	.000	7.374	2.473	1.783	61.344	1.369	.000	9.100	.00	.00	928.65	15.917	33.460	25.679	.000
7	3	1977	17907.	1.721	.000	7.379	2.476	1.784	57.888	1.293	.000	9.100	.00	.00	847.62	15.917	33.460	25.679	.000
8	3	1977	17924.	1.717	.000	7.383	2.478	1.785	54.432	1.216	.000	9.100	.00	.00	751.04	15.917	33.460	25.679	.000
9	3	1977	17937.	1.713	.000	7.387	2.480	1.786	50.976	1.140	.000	9.100	.00	.00	692.35	15.917	33.460	25.679	.000
10	3	1977	17952.	1.709	.000	7.391	2.482	1.787	52.704	1.179	.000	9.100	.00	.00	765.89	15.917	33.460	25.679	.000
11	3	1977	17966.	1.706	.000	7.394	2.484	1.788	51.840	1.160	.000	9.100	.00	.00	762.65	15.917	33.460	25.679	.000
12	3	1977	17974.	1.703	.000	7.397	2.485	1.788	46.656	1.044	.000	9.100	.00	.00	644.43	15.917	33.460	25.679	.000
13	3	1977	17983.	1.701	.000	7.399	2.486	1.789	46.656	1.045	.000	9.100	.00	.00	651.89	15.917	33.460	25.679	.000
14	3	1977	17997.	1.697	.000	7.403	2.488	1.789	51.840	1.161	.000	9.100	.00	.00	767.41	15.917	33.460	25.679	.000
15	3	1977	18030.	1.689	.000	7.411	2.493	1.790	70.848	1.587	.000	9.100	.00	.00	1406.01	15.917	33.460	25.679	.000
16	3	1977	18065.	1.680	.000	7.420	2.498	1.792	71.712	1.608	.000	9.100	.00	.00	1392.91	15.917	33.460	25.679	.000
17	3	1977	18100.	1.670	.000	7.430	2.502	1.794	72.576	1.629	.000	9.100	.00	.00	1363.46	15.917	33.460	25.679	.000
18	3	1977	18150.	1.657	.000	7.443	2.509	1.795	87.264	1.961	.000	9.100	.00	.00	1763.28	15.917	33.460	25.679	.000
19	3	1977	18221.	1.638	.000	7.462	2.519	1.798	108.000	2.431	.000	9.100	.00	.00	2246.08	15.917	33.460	25.679	.000
20	3	1977	18296.	1.618	.800	7.482	2.530	1.802	111.456	2.514	.000	9.100	.00	.00	2468.10	15.917	33.460	25.679	.000
21	3	1977	18372.	1.598	.000	7.502	2.540	1.806	112.320	2.539	.000	9.100	.00	.00	2396.18	15.917	33.460	25.679	.000
22	3	1977	18443.	1.579	.000	7.521	2.550	1.810	108.000	2.446	.000	9.100	.00	.00	2183.62	15.917	33.460	25.679	.000
23	3	1977	18510.	1.562	.000	7.538	2.559	1.813	103.680	2.353	.000	9.100	.00	.00	2170.39	15.917	33.460	25.679	.000
24	3	1977	18566.	1.547	.000	7.553	2.567	1.817	93.312	2.122	.000	9.100	.00	.00	1742.09	15.917	33.460	25.679	.000
25	3	1977	18616.	1.534	.000	7.566	2.574	1.820	87.264	1.988	.000	9.100	.00	.00	1538.73	15.917	33.460	25.679	.000
26	3	1977	18668.	1.520	.000	7.580	2.581	1.823	88.992	2.030	.000	9.100	.00	.00	1665.56	15.917	33.460	25.679	.000
27	3	1977	18747.	1.499	.000	7.601	2.592	1.825	115.776	2.645	.000	9.100	.00	.00	2424.15	15.917	33.460	25.679	.000
28	3	1977	18807.	1.483	.000	7.617	2.600	1.830	96.768	2.216	.000	9.100	.00	.00	1860.63	15.917	33.460	25.679	.000
29	3	1977	18865.	1.468	.000	7.632	2.608	1.833	95.040	2.180	.000	9.100	.00	.00	1678.14	15.917	33.460	25.679	.000
30	3	1977	18918.	1.454	.000	7.646	2.616	1.836	89.856	2.066	.000	9.100	.00	.00	1503.82	15.917	33.460	25.679	.000
31	3	1977	19001.	1.432	.000	7.668	2.627	1.838	119.232	2.744	.000	9.100	.00	.00	2227.70	15.917	33.460	25.679	.000
1	4	1977	19064.	1.415	.000	7.685	2.636	3.306	100.224	2.312	.000	9.100	.00	.00	1897.75	16.051	33.740	24.088	.000
2	4	1977	19119.	1.401	.000	7.699	2.643	3.312	91.584	2.116	.000	9.100	.00	.00	1600.63	16.051	33.740	24.088	.000
3	4	1977	19168.	1.388	.000	7.712	2.650	3.317	86.400	2.000	.000	9.100	.00	.00	1412.29	16.051	33.740	24.088	.000
4	4	1977	19209.	1.377	.000	7.723	2.656	3.322	78.624	1.822	.000	9.100	.00	.00	1213.00	16.051	33.740	24.088	.000
5	4	1977	19244.	1.368	.000	7.732	2.661	3.326	72.576	1.684	.000	9.100	.00	.00	1049.19	16.051	33.740	24.088	.000
6	4	1977	19273.	1.360	.000	7.740	2.665	3.329	66.528	1.545	.000	9.100	.00	.00	912.29	16.051	33.740	24.088	.000
7	4	1977	19297.	1.354	.000	7.746	2.668	3.332	61.344	1.426	.000	9.100	.00	.00	827.57	16.051	33.740	24.088	.000
8	4	1977	19314.	1.349	.000	7.751	2.670	3.334	55.296	1.286	.000	9.100	.00	.00	707.68	16.051	33.740	24.088	.000
9	4	1977	19327.	1.346	.000	7.754	2.672	3.335	50.976	1.186	.000	9.100	.00	.00	599.81	16.651	33.740	24.088	.000

10	4	1977	19336.	1.343	.000	7.757	2.673	3.337	46.656	1.086	.000	9.100	.00	.00	528.04	16.051	33.740	24.088	.000
11	4	1977	19339.	1.343	.000	7.757	2.674	3.338	41.472	.966	.000	9.100	.00	.00	471.23	16.051	33.740	24.088	.000
12	4	1977	19339.	1.342	.000	7.758	2.674	3.338	38.880	.905	.000	9.100	.00	.00	441.70	16.051	33.740	24.088	.000
13	4	1977	19336.	1.343	.000	7.757	2.673	3.338	34.560	.805	.000	9.100	.00	.00	380.80	16.051	33.740	24.088	.000
14	4	1977	19328.	1.345	.000	7.755	2.672	3.338	31.104	.724	.000	9.100	.00	.00	329.30	16.051	33.740	24.088	.000
15	4	1977	19319.	1.348	.000	7.752	2.671	3.337	29.376	.684	.000	9.100	.00	.00	281.22	16.051	33.740	24.088	.000
16	4	1977	19308.	1.351	.000	7.749	2.670	3.336	27.648	.644	.000	9.100	.00	.00	255.84	16.051	33.740	24.088	.000
17	4	1977	19295.	1.354	.000	7.746	2.668	3.335	25.056	.583	.000	9.100	.00	.00	220.97	16.051	33.740	24.088	.000
18	4	1977	19280.	1.358	.000	7.742	2.666	3.334	24.192	.563	.000	9.100	.00	.00	202.59	16.051	33.740	24.088	.000
19	4	1977	19265.	1.362	.000	7.738	2.664	3.332	23.328	.542	.000	9.100	.00	.00	190.02	16.051	33.740	24.088	.000
20	4	1977	19249.	1.366	.000	7.734	2.661	3.331	22.464	.522	.000	9.100	.00	.00	178.39	16.051	33.740	24.088	.000
21	4	1977	19232.	1.371	.000	7.729	2.659	3.329	21.600	.502	.000	9.100	.00	.00	164.96	16.051	33.740	24.088	.000
22	4	1977	19215.	1.375	.000	7.725	2.657	3.328	22.464	.522	.000	9.100	.00	.00	188.36	16.051	33.740	24.088	.000
23	4	1977	19205.	1.378	.000	7.722	2.655	3.328	28.512	.662	.000	9.100	.00	.00	269.44	16.051	33.740	24.088	.000
24	4	1977	19193.	1.381	.000	7.719	2.654	3.325	25.920	.601	.000	9.100	.00	.00	226.41	16.051	33.740	24.088	.000
25	4	1977	19177.	1.385	.000	7.715	2.651	3.324	23.328	.541	.000	9.100	.00	.00	171.43	16.051	33.740	24.088	.000
26	4	1977	19186.	1.383	.000	7.717	2.653	3.323	46.656	1.082	.000	9.100	.00	.00	477.82	16.051	33.740	24.088	.000
27	4	1977	19187.	1.383	.000	7.717	2.653	3.323	38.880	.902	.000	9.100	.00	.00	363.57	16.051	33.740	24.088	.000
28	4	1977	19192.	1.381	.000	7.719	2.653	3.323	43.200	1.002	.000	9.100	.00	.00	425.89	16.051	33.740	24.088	.000
29	4	1977	19203.	1.379	.000	7.721	2.655	3.324	49.248	1.142	.000	9.100	.00	.00	481.20	16.051	33.740	24.088	.000
30	4	1977	19211.	1.376	.000	7.724	2.656	3.325	45.792	1.062	.000	9.100	.00	.00	434.52	16.051	33.740	24.088	.000
1	5	1977	19203.	1.378	.000	7.722	2.655	4.514	45.792	1.063	.000	9.100	.00	.00	405.52	16.384	34.440	37.898	.000
2	5	1977	19218.	1.375	.000	7.725	2.657	4.514	67.392	1.563	.000	9.100	.00	.00	504.01	16.384	34.440	37.898	.000
3	5	1977	19298.	1.353	.000	7.747	2.668	4.515	131.328	3.048	.000	9.100	.00	.00	2246.26	16.384	34.440	37.898	.000
4	5	1977	19355.	1.338	.000	7.762	2.676	4.526	108.864	2.532	.000	9.100	.00	.00	1634.83	16.384	34.440	37.898	.000
5	5	1977	19401.	1.326	.000	7.774	2.682	4.533	97.632	2.275	.000	9.100	.00	.00	1424.05	16.384	34.440	37.898	.000
6	5	1977	19442.	1.315	.000	7.785	2.688	4.539	93.312	2.177	.000	9.100	.00	.00	1493.56	16.384	34.440	37.898	.000
7	5	1977	19470.	1.308	.000	7.792	2.692	4.544	80.352	1.877	.000	9.100	.00	.00	1201.46	16.384	34.440	37.898	.000
8	5	1977	19488.	1.303	.000	7.797	2.694	4.548	69.984	1.636	.000	9.100	.00	.00	988.44	16.384	34.440	37.898	.000
9	5	1977	19508.	1.298	.000	7.802	2.697	4.550	72.576	1.697	.000	9.100	.00	.00	1030.34	16.384	34.440	37.898	.000
10	5	1977	19522.	1.294	.000	7.806	2.699	4.553	66.528	1.557	.000	9.100	.00	.00	847.28	16.384	34.440	37.898	.000
11	5	1977	19540.	1.289	.000	7.811	2.702	4.554	70.848	1.659	.000	9.100	.00	.00	848.79	16.384	34.440	37.898	.000
12	5	1977	19571.	1.281	.000	7.819	2.706	4.557	82.944	1.943	.000	9.100	.00	.00	1331.56	16.384	34.440	37.898	.000
13	5	1977	19587.	1.277	.000	7.823	2.708	4.561	69.120	1.620	.000	9.100	.00	.00	982.36	16.384	34.440	37.898	.000
14	5	1977	19601.	1.273	.000	7.827	2.710	4.563	66.528	1.560	.000	9.100	.00	.00	900.10	16.384	34.440	37.898	.000
15	5	1977	19611.	1.271	.000	7.829	2.711	4.565	63.072	1.480	.000	9.100	.00	.00	826.02	16.384	34.440	37.898	.000
16	5	1977	19618.	1.269	.000	7.831	2.712	4.566	59.616	1.399	.000	9.100	.00	.00	733.09	16.384	34.440	37.898	.000
17	5	1977	19618.	1.269	.000	7.831	2.712	4.567	53.568	1.257	.000	9.100	.00	.00	623.76	16.384	34.440	37.898	.000
18	5	1977	19615.	1.270	.000	7.830	2.712	4.567	49.248	1.156	.000	9.100	.00	.00	514.48	16.384	34.440	37.898	.000
19	5	1977	19607.	1.272	.000	7.828	2.711	4.566	45.792	1.075	.000	9.100	.00	.00	456.52	16.384	34.440	37.898	.000
20	5	1977	19595.	1.275	.000	7.825	2.709	4.565	41.472	.973	.000	9.100	.00	.00	391.15	16.384	34.440	37.898	.000
21	5	1977	19578.	1.279	.000	7.821	2.707	4.564	36.288	.851	.000	9.100	.00	.00	322.59	16.384	34.440	37.898	.000
22	5	1977	19557.	1.285	.000	7.815	2.704	4.562	31.968	.750	.000	9.100	.00	.00	272.86	16.384	34.440	37.898	.000
23	5	1977	19533.	1.291	.000	7.809	2.701	4.559	30.240	.709	.000	9.100	.00	.00	238.55	16.384	34.440	37.898	.000
24	5	1977	19507.	1.298	.000	7.802	2.697	4.556	27.648	.647	.000	9.100	.00	.00	210.91	16.384	34.440	37.898	.000
25	5	1977	19480.	1.305	.000	7.795	2.693	4.553	25.920	.607	.000	9.100	.00	.00	196.07	16.384	34.440	37.898	.000
26	5	1977	19450.	1.313	.000	7.787	2.689	4.549	24.192	.566	.000	9.100	.00	.00	174.84	16.384	34.440	37.898	.000
27	5	1977	19419.	1.321	.000	7.779	2.685	4.545	22.464	.525	.000	9.100	.00	.00	129.25	16.384	34.440	37.898	.000
28	5	1977	19386.	1.330	.000	7.770	2.680	4.541	20.736	.484	.000	9.100	.00	.00	99.28	16.384	34.440	37.898	.000
29	5	1977	19351.	1.339	.000	7.761	2.675	4.537	19.008	.443	.000	9.100	.00	.00	235.82	16.384	34.440	37.898	.000
30	5	1977	19316.	1.349	.000	7.751	2.671	4.532	18.144	.423	.000	9.100	.00	.00	110.93	16.384	34.440	37.898	.000
31	5	1977	19278.	1.359	.000	7.741	2.665	4.528	16.416	.382	.000	9.100	.00	.00	64.71	16.384	34.440	37.898	.000
1	6	1977	19237.	1.369	.000	7.731	2.660	5.374	15.552	.362	.000	9.100	.00	.00	38.20	16.833	35.385	39.489	.000
2	6	1977	19197.	1.380	.000	7.720	2.654	5.368	15.552	.361	.000	9.100	.00	.00	22.12	16.833	35.385	39.489	.000
3	6	1977	19148.	8.101	6.708	7.707	2.647	5.361	14.688	.341	.000	15.808	.00	.00	4.89	16.833	35.385	39.489	.000
4	6	1977	19086.	21.854	20.444	7.690	2.639	5.354	13.824	.320	.000	29.544	.00	.00	-7.47	16.833	35.385	39.489	.000
5	6	1977	19039.	6.854	5.432	7.678	2.632	5.345	14.688	.340	.000	14.532	.00	.00	6.04	16.833	35.385	39.489	.000
6	6	1977	18998.	1.433	.000	7.667	2.627	5.337	15.552	.359	.000	9.100	.00	.00	21.25	16.833	35.385	39.489	.000
7	6	1977	18957.	1.443	.000	7.657	2.621	5.331	15.552	.359	.000	9.100	.00	.00	37.44	16.833	35.385	39.489	.000
8	6	1977	18916.	1.454	.000	7.646	2.615	5.325	14.688	.338	.000	9.100	.00	.00	35.15	16.833	35.385	39.489	.000

9	6	1977	18880.	1.464	.000	7.636	2.610	5.319	19.872	.457	.000	9.100	.00	.00	90.29	16.833	35.385	39.489	.000
10	6	1977	18892.	1.461	.000	7.639	2.612	5.313	67.392	1.549	.000	9.100	.00	.00	1151.93	16.833	35.385	39.489	.000
11	6	1977	18883.	1.463	.000	7.637	2.611	5.315	46.656	1.073	.000	9.100	.00	.00	711.14	16.833	35.385	39.489	.000
12	6	1977	18860.	1.469	.000	7.631	2.608	5.314	32.832	.755	.000	9.100	.00	.00	402.12	16.833	35.385	39.489	.000
13	6	1977	18836.	1.476	.000	7.624	2.604	5.310	31.104	.715	.000	9.100	.00	.00	335.98	16.833	35.385	39.489	.000
14	6	1977	18811.	1.482	.000	7.618	2.601	5.306	31.104	.714	.000	9.100	.00	.00	405.49	16.833	35.385	39.489	.000
15	6	1977	18785.	1.489	.000	7.611	2.597	5.303	29.376	.674	.000	9.100	.00	.00	332.86	16.833	35.385	39.489	.000
16	6	1977	18756.	1.497	.000	7.603	2.593	5.299	27.648	.634	.000	9.100	.00	.00	280.58	16.833	35.385	39.489	.000
17	6	1977	18726.	1.505	.000	7.595	2.589	5.294	25.056	.574	.000	9.100	.00	.00	241.18	16.833	35.385	39.489	.000
18	6	1977	18694.	1.513	.000	7.587	2.585	5.290	24.192	.554	.000	9.100	.00	.00	210.46	16.833	35.385	39.489	.000
19	6	1977	18661.	1.522	.000	7.578	2.580	5.285	23.328	.533	.000	9.100	.00	.00	188.60	16.833	35.385	39.489	.000
20	6	1977	18627.	1.531	.000	7.569	2.575	5.280	21.600	.493	.000	9.100	.00	.00	167.25	16.833	35.385	39.489	.000
21	6	1977	18592.	1.540	.000	7.560	2.570	5.275	20.736	.473	.000	9.100	.00	.00	134.25	16.833	35.385	39.489	.000
22	6	1977	18555.	1.550	.000	7.550	2.565	5.269	19.008	.433	.000	9.100	.00	.00	106.34	16.833	35.385	39.489	.000
23	6	1977	18517.	1.560	.000	7.540	2.560	5.264	18.144	.413	.000	9.100	.00	.00	88.56	16.833	35.385	39.489	.000
24	6	1977	18479.	1.570	.000	7.530	2.555	5.258	18.144	.413	.000	9.100	.00	.00	88.18	16.833	35.385	39.489	.000
25	6	1977	18440.	1.580	.000	7.520	2.550	5.252	17.280	.393	.000	9.100	.00	.00	82.32	16.833	35.385	39.489	.000
26	6	1977	18401.	1.591	.000	7.509	2.544	5.246	16.416	.373	.000	9.100	.00	.00	44.49	16.833	35.385	39.489	.000
27	6	1977	18360.	1.601	.000	7.499	2.538	5.240	15.552	.353	.000	9.100	.00	.00	29.73	16.833	35.385	39.489	.000
28	6	1977	18320.	1.612	.000	7.488	2.533	5.234	15.552	.352	.000	9.100	.00	.00	61.08	16.833	35.385	39.489	.000
29	6	1977	18278.	1.623	.000	7.477	2.527	5.228	13.824	.313	.000	9.100	.00	.00	18.10	16.833	35.385	39.489	.000
30	6	1977	18228.	9.188	7.552	7.464	2.520	5.221	13.824	.312	.000	16.652	.00	.00	4.13	16.833	35.385	39.489	.000
1	7	1977	18160.	21.296	19.642	7.446	2.511	5.214	12.960	.292	.000	28.742	.00	.00	-4.05	18.115	38.080	44.516	.000
2	7	1977	18080.	33.940	32.265	7.424	2.500	5.203	12.960	.292	.000	41.365	.00	.00	-16.21	18.115	38.080	44.516	.000
3	7	1977	17999.	33.962	32.265	7.403	2.488	5.191	12.096	.272	.000	41.365	.00	.00	-51.45	18.115	38.080	44.516	.000
4	7	1977	17916.	33.983	32.265	7.381	2.477	5.179	11.232	.252	.000	41.365	.00	.00	-53.60	18.115	38.080	44.516	.000
5	7	1977	17834.	34.005	32.265	7.360	2.466	5.166	11.232	.251	.000	41.365	.00	.00	-60.34	18.115	38.080	44.516	.000
6	7	1977	17752.	34.027	32.265	7.338	2.454	5.154	10.368	.231	.000	41.365	.00	.00	-67.84	18.115	38.080	44.516	.000
7	7	1977	17668.	34.049	32.265	7.316	2.443	5.141	9.504	.211	.000	41.365	.00	.00	-83.05	18.115	38.080	44.516	.000
8	7	1977	17584.	34.071	32.265	7.293	2.431	5.128	9.504	.211	.000	41.365	.00	.00	-93.24	18.115	38.080	44.516	.000
9	7	1977	17499.	34.094	32.265	7.271	2.419	5.116	8.640	.191	.000	41.365	.00	.00	-100.67	18.115	38.080	44.516	.000
10	7	1977	17415.	34.116	32.265	7.249	2.408	5.103	8.640	.191	.000	41.365	.00	.00	-105.41	18.115	38.080	44.516	.000
11	7	1977	17330.	34.138	32.265	7.226	2.396	5.090	8.640	.190	.000	41.365	.00	.00	-106.32	18.115	38.080	44.516	.000
12	7	1977	17246.	34.161	32.265	7.204	2.384	5.077	8.640	.190	.000	41.365	.00	.00	-105.30	18.115	38.080	44.516	.000
13	7	1977	17161.	34.183	32.265	7.182	2.373	5.064	8.640	.189	.000	41.365	.00	.00	-83.71	18.115	38.080	44.516	.000
14	7	1977	17077.	34.205	32.265	7.159	2.361	5.051	8.640	.189	.000	41.365	.00	.00	-96.14	18.115	38.080	44.516	.000
15	7	1977	16992.	34.228	32.265	7.137	2.349	5.038	7.776	.170	.000	41.365	.00	.00	-114.32	18.115	38.080	44.516	.000
16	7	1977	16906.	34.250	32.265	7.114	2.337	5.025	7.776	.169	.000	41.365	.00	.00	-122.73	18.115	38.080	44.516	.000
17	7	1977	16822.	34.273	32.265	7.092	2.326	5.012	8.640	.187	.000	41.365	.00	.00	-122.80	18.115	38.080	44.516	.000
18	7	1977	16741.	34.294	32.265	7.071	2.315	5.000	12.096	.262	.000	41.365	.00	.00	-17.81	18.115	38.080	44.516	.000
19	7	1977	16657.	34.316	32.265	7.048	2.303	4.987	8.640	.186	.000	41.365	.00	.00	-88.76	18.115	38.080	44.516	.000
20	7	1977	16572.	34.339	32.265	7.026	2.291	4.975	8.640	.186	.000	41.365	.00	.00	-107.86	18.115	38.080	44.516	.000
21	7	1977	16487.	34.361	32.265	7.003	2.280	4.964	7.776	.167	.000	41.365	.00	.00	-121.52	18.115	38.080	44.516	.000
22	7	1977	16402.	34.384	32.265	6.981	2.268	4.952	7.776	.167	.000	41.365	.00	.00	-118.27	18.115	38.080	44.516	.000
23	7	1977	16317.	34.406	32.265	6.958	2.256	4.940	7.776	.166	.000	41.365	.00	.00	-121.75	18.115	38.080	44.516	.000
24	7	1977	16232.	34.429	32.265	6.936	2.244	4.929	7.776	.166	.000	41.365	.00	.00	-126.38	18.115	38.080	44.516	.000
25	7	1977	16148.	34.451	32.265	6.914	2.233	4.917	8.640	.184	.000	41.365	.00	.00	-77.45	18.115	38.080	44.516	.000
26	7	1977	16063.	34.474	32.265	6.891	2.221	4.906	7.776	.165	.000	41.365	.00	.00	-96.81	18.115	38.080	44.516	.000
27	7	1977	15977.	34.496	32.265	6.868	2.209	4.894	6.912	.146	.000	41.365	.00	.00	-115.58	18.115	38.080	44.516	.000
28	7	1977	15891.	34.519	32.265	6.846	2.197	4.882	6.912	.146	.000	41.365	.00	.00	-131.62	18.115	38.080	44.516	.000
29	7	1977	15805.	34.542	32.265	6.823	2.185	4.870	6.912	.146	.000	41.365	.00	.00	-140.86	18.115	38.080	44.516	.000
30	7	1977	15718.	34.565	32.265	6.800	2.173	4.859	6.048	.127	.000	41.365	.00	.00	-141.13	18.115	38.080	44.516	.000
31	7	1977	15631.	34.588	32.265	6.777	2.161	4.847	6.048	.127	.000	41.365	.00	.00	-166.67	18.115	38.080	44.516	.000
1	8	1977	15544.	35.299	32.953	6.754	2.149	3.853	6.048	.127	.000	42.053	.00	.00	-150.43	18.315	38.500	45.312	.000
2	8	1977	15457.	35.322	32.953	6.731	2.137	3.843	6.048	.126	.000	42.053	.00	.00	-163.75	18.315	38.500	45.312	.000
3	8	1977	15369.	35.346	32.953	6.708	2.125	3.834	5.184	.108	.000	42.053	.00	.00	-164.42	18.315	38.500	45.312	.000
4	8	1977	15281.	35.369	32.953	6.684	2.113	3.824	5.184	.108	.000	42.053	.00	.00	-168.19	18.315	38.500	45.312	.000
5	8	1977	15193.	35.392	32.953	6.661	2.101	3.815	5.184	.107	.000	42.053	.00	.00	-165.88	18.315	38.500	45.312	.000
6	8	1977	15107.	35.415	32.953	6.638	2.089	3.805	6.912	.143	.000	42.053	.00	.00	-113.79	18.315	38.500	45.312	.000
7	8	1977	15023.	35.437	32.953	6.616	2.077	3.796	9.504	.196	.000	42.053	.00	.00	-71.98	18.315	38.500	45.312	.000

WIMBLEBALL INFLOW ADJUSTMENTS

	Unadjusted Wimb Inflow	Storage	Res Area
20-JUN-1976	0.132	9804	1.07
21-JUN-1976	0.082	9766	1.068
22-JUN-1976	0.068	9689	1.068
23-JUN-1976	0.058	9610	1.065
24-JUN-1976	0.051	9532	1.06
25-JUN-1976	0.046	9452	1.06
26-JUN-1976	0.043	9372	1.055
27-JUN-1976	0.04	9291	1.04
28-JUN-1976	0.035	9209	1.03
29-JUN-1976	0.033	9127	1.02
30-JUN-1976	0.034	9045	1

Flow Reduction	Direct Rainfall	Adjusted Wimb Flow	Diff	
0.127	0.00716	0.134	0.002	0.19758
0.079	0.00444	0.083	0.001	0.12251
0.065	0.00368	0.069	0.001	0.10159
0.056	0.00313	0.059	0.001	0.08641
0.049	0.00274	0.052	0.001	0.07562
0.044	0.00247	0.047	0.001	0.06821
0.041	0.0023	0.044	0.001	0.06346
0.039	0.00211	0.041	0.001	0.05819
0.034	0.00183	0.036	0.001	0.05043
0.032	0.00171	0.034	0.001	0.04709
0.033	0.00172	0.035	0.001	0.04756
			0.032	0.03214

8 8 1977	14937.	35.460	32.953	6.594	2.065	3.786	6.912	.142	.000	42.053	.00	.00	-94.61	18.315	38.500	45.312	.000
9 8 1977	14850.	35.483	32.953	6.571	2.053	3.777	6.048	.124	.000	42.053	.00	.00	-139.24	18.315	38.500	45.312	.000
10 8 1977	14763.	35.506	32.953	6.547	2.041	3.768	6.048	.124	.000	42.053	.00	.00	-161.42	18.315	38.500	45.312	.000
11 8 1977	14676.	35.529	32.953	6.524	2.029	3.758	6.048	.123	.000	42.053	.00	.00	-164.56	18.315	38.500	45.312	.000
12 8 1977	14588.	35.552	32.953	6.501	2.017	3.749	5.184	.106	.000	42.053	.00	.00	-170.36	18.315	38.500	45.312	.000
13 8 1977	14500.	35.575	32.953	6.478	2.005	3.739	5.184	.105	.000	42.053	.00	.00	-175.40	18.315	38.500	45.312	.000
14 8 1977	14413.	35.598	32.953	6.455	1.993	3.730	5.184	.105	.000	42.053	.00	.00	-184.59	18.315	38.500	45.312	.000
15 8 1977	14325.	35.622	32.953	6.432	1.981	3.720	5.184	.105	.000	42.053	.00	.00	-167.93	18.315	38.500	45.312	.000
16 8 1977	14265.	35.643	32.953	6.411	1.970	3.710	12.960	.261	.000	42.053	.00	.00	-63.18	18.315	38.500	45.312	.000
17 8 1977	14202.	2.701	.000	6.399	1.964	3.702	16.416	.330	.000	9.100	.00	.00	70.08	18.315	38.500	45.312	.000
18 8 1977	14157.	2.713	.000	6.387	1.957	3.697	15.552	.312	.000	9.100	.00	.00	24.68	18.315	38.500	45.312	.000
19 8 1977	14076.	35.688	32.953	6.366	1.946	3.692	11.232	.225	.000	42.053	.00	.00	-48.87	18.315	38.500	45.312	.000
20 8 1977	13994.	35.709	32.953	6.344	1.935	3.683	11.232	.225	.000	42.053	.00	.00	-83.94	18.315	38.500	45.312	.000
21 8 1977	13915.	35.730	32.953	6.323	1.924	3.674	12.960	.259	.000	42.053	.00	.00	-54.22	18.315	38.500	45.312	.000
22 8 1977	13886.	2.785	.000	6.315	1.920	3.666	30.240	.602	.000	9.100	.00	.00	158.12	18.315	38.500	45.312	.000
23 8 1977	13845.	2.795	.000	6.305	1.914	3.663	19.008	.378	.000	9.100	.00	.00	57.93	18.315	38.500	45.312	.000
24 8 1977	13855.	2.793	.000	6.307	1.916	3.658	68.256	1.356	.000	9.100	.00	.00	781.01	18.315	38.500	45.312	.000
25 8 1977	13866.	2.790	.000	6.310	1.917	3.659	69.984	1.390	.000	9.100	.00	.00	762.22	18.315	38.500	45.312	.000
26 8 1977	13875.	2.787	.000	6.313	1.918	3.660	67.392	1.339	.000	9.100	.00	.00	786.70	18.315	38.500	45.312	.000
27 8 1977	13878.	2.786	.000	6.314	1.919	3.661	62.208	1.237	.000	9.100	.00	.00	665.79	18.315	38.500	45.312	.000
28 8 1977	13874.	2.788	.000	6.312	1.918	3.662	54.432	1.082	.000	9.100	.00	.00	535.00	18.315	38.500	45.312	.000
29 8 1977	13863.	2.790	.000	6.310	1.917	3.661	48.384	.962	.000	9.100	.00	.00	431.62	18.315	38.500	45.312	.000
30 8 1977	13848.	2.794	.000	6.306	1.915	3.660	44.064	.876	.000	9.100	.00	.00	389.97	18.315	38.500	45.312	.000
31 8 1977	13828.	2.800	.000	6.300	1.912	3.658	38.880	.772	.000	9.100	.00	.00	340.19	18.315	38.500	45.312	.000
1 9 1977	13810.	2.805	.000	6.295	1.909	2.373	37.152	.738	.000	9.100	.00	.00	293.33	16.550	34.790	42.352	.000
2 9 1977	13800.	2.807	.000	6.293	1.908	2.372	44.928	.891	.000	9.100	.00	.00	415.27	16.550	34.790	42.352	.000
3 9 1977	13778.	2.813	.000	6.287	1.905	2.371	32.832	.651	.000	9.100	.00	.00	250.44	16.550	34.790	42.352	.000
4 9 1977	13752.	2.820	.000	6.280	1.901	2.369	29.376	.582	.000	9.100	.00	.00	196.17	16.550	34.790	42.352	.000
5 9 1977	13729.	2.826	.000	6.274	1.898	2.368	31.968	.633	.000	9.100	.00	.00	234.20	16.550	34.790	42.352	.000
6 9 1977	13711.	2.831	.000	6.269	1.896	2.366	37.152	.735	.000	9.100	.00	.00	258.86	16.550	34.790	42.352	.000
7 9 1977	13690.	2.836	.000	6.264	1.893	2.365	34.560	.684	.000	9.100	.00	.00	275.83	16.550	34.790	42.352	.000
8 9 1977	13666.	2.842	.000	6.258	1.890	2.363	31.104	.615	.000	9.100	.00	.00	254.73	16.550	34.790	42.352	.000
9 9 1977	13640.	2.850	.000	6.250	1.886	2.362	28.512	.563	.000	9.100	.00	.00	210.28	16.550	34.790	42.352	.000
10 9 1977	13611.	2.857	.000	6.243	1.882	2.360	26.784	.529	.000	9.100	.00	.00	185.28	16.550	34.790	42.352	.000
11 9 1977	13583.	2.865	.000	6.235	1.878	2.358	26.784	.528	.000	9.100	.00	.00	171.66	16.550	34.790	42.352	.000
12 9 1977	13552.	2.873	.000	6.227	1.874	2.356	24.192	.477	.000	9.100	.00	.00	149.23	16.550	34.790	42.352	.000
13 9 1977	13519.	2.881	.000	6.219	1.869	2.353	22.464	.442	.000	9.100	.00	.00	110.14	16.550	34.790	42.352	.000
14 9 1977	13485.	2.891	.000	6.209	1.864	2.351	20.736	.408	.000	9.100	.00	.00	84.48	16.550	34.790	42.352	.000
15 9 1977	13449.	2.900	.000	6.200	1.859	2.349	19.872	.390	.000	9.100	.00	.00	59.59	16.550	34.790	42.352	.000
16 9 1977	13414.	2.909	.000	6.191	1.855	2.346	19.872	.390	.000	9.100	.00	.00	46.89	16.550	34.790	42.352	.000
17 9 1977	13377.	2.903	.000	6.197	1.849	2.344	18.144	.356	.000	9.100	.00	.00	33.15	16.550	34.790	42.352	.000
18 9 1977	13338.	3.876	.959	6.183	1.844	2.341	17.280	.338	.000	10.059	.00	.00	9.47	16.550	34.790	42.352	.000
19 9 1977	13293.	9.146	6.212	6.166	1.838	2.338	16.416	.321	.000	15.312	.00	.00	4.74	16.550	34.790	42.352	.000
20 9 1977	13238.	17.729	14.776	6.147	1.830	2.335	15.552	.304	.000	23.876	.00	.00	-2.97	16.550	34.790	42.352	.000
21 9 1977	13172.	28.892	25.915	6.123	1.821	2.331	14.688	.286	.000	35.015	.00	.00	-12.99	16.550	34.790	42.352	.000
22 9 1977	13104.	29.872	26.870	6.098	1.812	2.327	14.688	.286	.000	35.970	.00	.00	-19.86	16.550	34.790	42.352	.000
23 9 1977	13036.	29.896	26.870	6.074	1.802	2.322	13.824	.269	.000	35.970	.00	.00	-28.39	16.550	34.790	42.352	.000
24 9 1977	12969.	29.032	25.982	6.050	1.793	2.318	14.688	.285	.000	35.082	.00	.00	-13.05	16.550	34.790	42.352	.000
25 9 1977	12931.	3.064	.000	6.036	1.788	2.313	17.280	.334	.000	9.100	.00	.00	28.37	16.550	34.790	42.352	.000
26 9 1977	12871.	22.845	19.759	6.014	1.780	2.311	14.688	.284	.000	28.859	.00	.00	-7.45	16.550	34.790	42.352	.000
27 9 1977	12803.	29.981	26.870	5.989	1.770	2.307	13.824	.267	.000	35.970	.00	.00	-27.99	16.550	34.790	42.352	.000
28 9 1977	12734.	30.006	26.870	5.964	1.761	2.302	12.960	.250	.000	35.970	.00	.00	-40.08	16.550	34.790	42.352	.000
29 9 1977	12663.	30.031	26.870	5.939	1.751	2.298	12.096	.233	.000	35.970	.00	.00	-46.13	16.550	34.790	42.352	.000
30 9 1977	12593.	30.056	26.870	5.914	1.741	2.293	12.096	.232	.000	35.970	.00	.00	-58.02	16.550	34.790	42.352	.000
1 10 1977	12566.	3.196	.000	5.904	1.737	1.086	17.280	.331	.000	9.100	.00	.00	16.60	16.250	34.160	33.570	.000
2 10 1977	12508.	29.054	25.837	5.883	1.729	1.085	13.824	.264	.000	34.937	.00	.00	-27.37	16.250	34.160	33.570	.000
3 10 1977	12450.	29.075	25.837	5.862	1.721	1.083	12.960	.247	.000	34.937	.00	.00	-47.89	16.250	34.160	33.570	.000
4 10 1977	12429.	3.245	.000	5.855	1.718	1.081	24.192	.461	.000	9.100	.00	.00	71.51	16.250	34.160	33.570	.000
5 10 1977	12407.	3.254	.000	5.846	1.715	1.081	22.464	.428	.000	9.100	.00	.00	117.47	16.250	34.160	33.570	.000
6 10 1977	12399.	3.256	.000	5.844	1.714	1.080	37.152	.707	.000	9.100	.00	.00	297.86	16.250	34.160	33.570	.000

7 10 1977	12393.	3.258	.000	5.842	1.713	1.080	38.880	.740	.000	9.100	.00	.00	415.10	16.250	34.160	33.570	.000
8 10 1977	12388.	3.260	.000	5.840	1.713	1.079	39.744	.756	.000	9.100	.00	.00	415.54	16.250	34.160	33.570	.000
9 10 1977	12386.	3.261	.000	5.839	1.712	1.079	42.336	.806	.000	9.100	.00	.00	388.03	16.250	34.160	33.570	.000
10 10 1977	12390.	3.260	.000	5.840	1.713	1.079	48.384	.921	.000	9.100	.00	.00	516.75	16.250	34.160	33.570	.000
11 10 1977	12389.	3.260	.000	5.840	1.713	1.079	44.064	.839	.000	9.100	.00	.00	421.83	16.250	34.160	33.570	.000
12 10 1977	12392.	3.259	.000	5.841	1.713	1.079	47.520	.904	.000	9.100	.00	.00	446.93	16.250	34.160	33.570	.000
13 10 1977	12392.	3.259	.000	5.841	1.713	1.079	44.064	.839	.000	9.100	.00	.00	390.46	16.250	34.160	33.570	.000
14 10 1977	12388.	3.260	.000	5.840	1.713	1.079	40.608	.773	.000	9.100	.00	.00	355.38	16.250	34.160	33.570	.000
15 10 1977	12380.	3.263	.000	5.837	1.712	1.079	37.152	.707	.000	9.100	.00	.00	320.29	16.250	34.160	33.570	.000
16 10 1977	12370.	3.267	.000	5.833	1.710	1.079	34.560	.657	.000	9.100	.00	.00	280.86	16.250	34.160	33.570	.000
17 10 1977	12357.	3.272	.000	5.828	1.708	1.079	31.968	.608	.000	9.100	.00	.00	256.12	16.250	34.160	33.570	.000
18 10 1977	12342.	3.277	.000	5.823	1.706	1.078	30.240	.575	.000	9.100	.00	.00	227.27	16.250	34.160	33.570	.000
19 10 1977	12325.	3.283	.000	5.817	1.704	1.078	27.648	.525	.000	9.100	.00	.00	202.36	16.250	34.160	33.570	.000
20 10 1977	12308.	3.289	.000	5.811	1.702	1.077	27.648	.525	.000	9.100	.00	.00	198.83	16.250	34.160	33.570	.000
21 10 1977	12287.	3.297	.000	5.803	1.699	1.077	24.192	.459	.000	9.100	.00	.00	157.95	16.250	34.160	33.570	.000
22 10 1977	12264.	3.305	.000	5.795	1.696	1.076	22.464	.426	.000	9.100	.00	.00	132.09	16.250	34.160	33.570	.000
23 10 1977	12240.	3.314	.000	5.786	1.692	1.075	20.736	.393	.000	9.100	.00	.00	96.99	16.250	34.160	33.570	.000
24 10 1977	12224.	3.320	.000	5.780	1.690	1.075	28.512	.540	.000	9.100	.00	.00	207.48	16.250	34.160	33.570	.000
25 10 1977	12204.	3.327	.000	5.773	1.687	1.074	25.056	.474	.000	9.100	.00	.00	184.89	16.250	34.160	33.570	.000
26 10 1977	12180.	3.336	.000	5.764	1.684	1.073	20.736	.392	.000	9.100	.00	.00	107.58	16.250	34.160	33.570	.000
27 10 1977	12154.	3.345	.000	5.755	1.680	1.073	19.872	.376	.000	9.100	.00	.00	83.05	16.250	34.160	33.570	.000
28 10 1977	12130.	3.353	.000	5.747	1.677	1.073	20.736	.392	.000	9.100	.00	.00	84.39	16.250	34.160	33.570	.000
29 10 1977	12105.	3.363	.000	5.737	1.674	1.071	19.872	.375	.000	9.100	.00	.00	64.60	16.250	34.160	33.570	.000
30 10 1977	12081.	3.371	.000	5.729	1.670	1.070	20.736	.391	.000	9.100	.00	.00	66.76	16.250	34.160	33.570	.000
31 10 1977	12094.	3.366	.000	5.734	1.672	1.070	57.888	1.092	.000	9.100	.00	.00	552.14	16.250	34.160	33.570	.000
1 11 1977	12156.	3.344	.000	5.756	1.681	.483	95.904	1.809	.000	9.100	.00	.00	969.66	16.467	34.615	24.310	.000
2 11 1977	12270.	3.303	.000	5.797	1.696	.484	146.016	2.760	.000	9.100	.00	.00	2551.12	16.467	34.615	24.310	.000
3 11 1977	12364.	3.269	.000	5.831	1.709	.486	127.872	2.425	.000	9.100	.00	.00	2043.08	16.467	34.615	24.310	.000
4 11 1977	12455.	3.236	.000	5.864	1.722	.487	124.416	2.366	.000	9.100	.00	.00	1917.06	16.467	34.615	24.310	.000
5 11 1977	12541.	3.205	.000	5.895	1.734	.488	119.232	2.273	.000	9.100	.00	.00	1779.63	16.467	34.615	24.310	.000
6 11 1977	12615.	3.178	.000	5.922	1.744	.498	107.136	2.048	.000	9.100	.00	.00	1608.21	16.467	34.615	24.310	.000
7 11 1977	12689.	3.152	.000	5.948	1.754	.491	108.000	2.080	.000	9.100	.00	.00	1527.66	16.467	34.615	24.310	.000
8 11 1977	12756.	3.128	.000	5.972	1.764	.492	100.224	1.924	.000	9.100	.00	.00	1449.50	16.467	34.615	24.310	.000
9 11 1977	12907.	3.073	.000	6.027	1.784	.493	183.168	3.523	.000	9.100	.00	.00	2730.94	16.467	34.615	24.310	.000
10 11 1977	13027.	3.030	.000	6.070	1.801	.495	152.928	2.954	.000	9.100	.00	.00	2392.89	16.467	34.615	24.310	.000
11 11 1977	13134.	2.991	.000	6.109	1.816	.497	139.968	2.713	.000	9.100	.00	.00	2207.42	16.467	34.615	24.310	.000
12 11 1977	13253.	2.948	.000	6.152	1.832	.498	152.064	2.957	.000	9.100	.00	.00	2483.87	16.467	34.615	24.310	.000
13 11 1977	13365.	2.907	.000	6.193	1.848	.500	145.152	2.832	.000	9.100	.00	.00	2390.85	16.467	34.615	24.310	.000
14 11 1977	13477.	2.893	.000	6.207	1.863	.501	144.288	2.825	.000	9.100	.00	.00	2439.35	16.467	34.615	24.310	.000
15 11 1977	13573.	2.867	.000	6.233	1.877	.503	129.600	2.546	.000	9.100	.00	.00	2247.09	16.467	34.615	24.310	.000
16 11 1977	13668.	2.842	.000	6.258	1.890	.505	127.872	2.519	.000	9.100	.00	.00	2166.27	16.467	34.615	24.310	.000
17 11 1977	13751.	2.820	.000	6.280	1.901	.506	116.640	2.304	.000	9.100	.00	.00	1998.29	16.467	34.615	24.310	.000
18 11 1977	13819.	2.802	.000	6.298	1.911	.507	101.952	2.019	.000	9.100	.00	.00	1628.33	16.467	34.615	24.310	.000
19 11 1977	13888.	2.784	.000	6.316	1.920	.508	102.816	2.040	.000	9.100	.00	.00	1515.18	16.467	34.615	24.310	.000
20 11 1977	14004.	2.753	.000	6.347	1.936	.509	148.608	2.955	.000	9.100	.00	.00	2608.59	16.467	34.615	24.310	.000
21 11 1977	14084.	2.732	.000	6.368	1.947	.511	114.048	2.276	.000	9.100	.00	.00	1946.05	16.467	34.615	24.310	.000
22 11 1977	14153.	2.714	.000	6.386	1.957	.512	102.816	2.057	.000	9.100	.00	.00	1638.15	16.467	34.615	24.310	.000
23 11 1977	14253.	2.687	.000	6.413	1.971	.513	133.056	2.667	.000	9.100	.00	.00	1899.15	16.467	34.615	24.310	.000
24 11 1977	14338.	2.665	.000	6.435	1.982	.515	118.368	2.380	.000	9.100	.00	.00	2093.04	16.467	34.615	24.310	.000
25 11 1977	14406.	2.647	.000	6.453	1.992	.516	101.952	2.055	.000	9.100	.00	.00	1590.22	16.467	34.615	24.310	.000
26 11 1977	14463.	2.632	.000	6.468	2.000	.517	91.584	1.849	.000	9.100	.00	.00	1393.15	16.467	34.615	24.310	.000
27 11 1977	14510.	2.619	.000	6.481	2.006	.518	81.216	1.643	.000	9.100	.00	.00	1187.47	16.467	34.615	24.310	.000
28 11 1977	14547.	2.610	.000	6.490	2.011	.519	71.712	1.453	.000	9.100	.00	.00	986.07	16.467	34.615	24.310	.000
29 11 1977	14577.	2.602	.000	6.498	2.015	.519	63.936	1.296	.000	9.100	.00	.00	823.25	16.467	34.615	24.310	.000
30 11 1977	14600.	2.596	.000	6.504	2.019	.520	57.888	1.175	.000	9.100	.00	.00	707.72	16.467	34.615	24.310	.000
1 12 1977	14624.	2.589	.000	6.511	2.022	.235	53.568	1.088	.000	9.100	.00	.00	636.66	16.950	35.630	18.837	.000
2 12 1977	14643.	2.584	.000	6.516	2.024	.235	47.520	.966	.000	9.100	.00	.00	529.17	16.950	35.630	18.837	.000
3 12 1977	14656.	2.581	.000	6.519	2.026	.236	42.336	.861	.000	9.100	.00	.00	456.49	16.950	35.630	18.837	.000
4 12 1977	14665.	2.578	.000	6.522	2.028	.236	38.880	.791	.000	9.100	.00	.00	413.73	16.950	35.630	18.837	.000
5 12 1977	14681.	2.574	.000	6.526	2.030	.236	44.928	.914	.000	9.100	.00	.00	598.53	16.950	35.630	18.837	.000

6	12	1977	14694.	2.571	.000	6.529	2.032	.236	42.336	.862	.000	9.100	.00	.00	549.79	16.950	35.630	18.837	.000
7	12	1977	14717.	2.565	.000	6.535	2.035	.236	52.704	1.073	.000	9.100	.00	.00	926.54	16.950	35.630	18.837	.000
8	12	1977	14753.	2.555	.000	6.545	2.040	.236	64.800	1.320	.000	9.100	.00	.00	1394.20	16.950	35.630	18.837	.000
9	12	1977	14799.	2.543	.000	6.557	2.046	.236	74.304	1.516	.000	9.100	.00	.00	1708.31	16.950	35.630	18.837	.000
10	12	1977	14883.	2.521	.000	6.579	2.058	.237	112.320	2.294	.000	9.100	.00	.00	2844.34	16.950	35.630	18.837	.000
11	12	1977	14970.	2.498	.000	6.602	2.070	.237	114.912	2.353	.000	9.100	.00	.00	2545.86	16.950	35.630	18.837	.000
12	12	1977	15069.	2.472	.000	6.628	2.083	.238	126.144	2.589	.000	9.100	.00	.00	2569.01	16.950	35.630	18.837	.000
13	12	1977	15156.	2.449	.000	6.651	2.095	.239	114.912	2.365	.000	9.100	.00	.00	2192.33	16.950	35.630	18.837	.000
14	12	1977	15233.	2.428	.000	6.672	2.106	.239	105.408	2.175	.000	9.100	.00	.00	1900.91	16.950	35.630	18.837	.000
15	12	1977	15296.	2.412	.000	6.688	2.115	.240	91.584	1.894	.000	9.100	.00	.00	1562.42	16.950	35.630	18.837	.000
16	12	1977	15348.	2.398	.000	6.702	2.122	.240	80.352	1.665	.000	9.100	.00	.00	1287.06	16.950	35.630	18.837	.000
17	12	1977	15393.	2.386	.000	6.714	2.128	.240	74.304	1.542	.000	9.100	.00	.00	1115.81	16.950	35.630	18.837	.000
18	12	1977	15436.	2.374	.000	6.726	2.134	.241	71.712	1.490	.000	9.100	.00	.00	1123.37	16.950	35.630	18.837	.000
19	12	1977	15469.	2.366	.000	6.734	2.139	.241	62.208	1.294	.000	9.100	.00	.00	887.66	16.950	35.630	18.837	.000
20	12	1977	15497.	2.358	.000	6.742	2.143	.241	57.024	1.187	.000	9.100	.00	.00	771.50	16.950	35.630	18.837	.000
21	12	1977	15525.	2.351	.000	6.749	2.147	.241	57.024	1.188	.000	9.100	.00	.00	787.08	16.950	35.630	18.837	.000
22	12	1977	15554.	2.343	.000	6.757	2.150	.242	57.888	1.207	.000	9.100	.00	.00	790.18	16.950	35.630	18.837	.000
23	12	1977	15584.	2.336	.000	6.764	2.155	.242	58.752	1.226	.000	9.100	.00	.00	838.11	16.950	35.630	18.837	.000
24	12	1977	15620.	2.326	.000	6.774	2.160	.242	65.664	1.372	.000	9.100	.00	.00	913.97	16.950	35.630	18.837	.000
25	12	1977	15659.	2.316	.000	6.784	2.165	.242	67.392	1.409	.000	9.100	.00	.00	949.58	16.950	35.630	18.837	.000
26	12	1977	15714.	2.301	.000	6.799	2.173	.243	83.808	1.754	.000	9.100	.00	.00	1456.74	16.950	35.630	18.837	.000
27	12	1977	15790.	2.281	.000	6.819	2.183	.243	104.544	2.192	.000	9.100	.00	.00	2129.25	16.950	35.630	18.837	.000
28	12	1977	15862.	2.262	.000	6.838	2.193	.243	100.224	2.106	.000	9.100	.00	.00	1926.44	16.950	35.630	18.837	.000
29	12	1977	15935.	2.243	.000	6.857	2.203	.244	101.088	2.128	.000	9.100	.00	.00	1800.42	16.950	35.630	18.837	.000
30	12	1977	15998.	2.226	.000	6.874	2.212	.244	91.584	1.932	.000	9.100	.00	.00	1605.78	16.950	35.630	18.837	.000
31	12	1977	16053.	2.211	.000	6.889	2.220	.245	83.808	1.771	.000	9.100	.00	.00	1382.52	16.950	35.630	18.837	.000
1	1	1978	16096.	2.200	.000	6.900	2.225	.465	75.168	1.591	.000	9.100	.00	.00	1168.92	15.451	32.480	22.497	.000
2	1	1978	16131.	2.191	.000	6.909	2.230	.465	68.256	1.447	.000	9.100	.00	.00	1007.97	15.451	32.480	22.497	.000
3	1	1978	16167.	2.181	.000	6.919	2.235	.466	68.256	1.448	.000	9.100	.00	.00	1004.53	15.451	32.480	22.497	.000
4	1	1978	16215.	2.168	.000	6.932	2.242	.466	81.216	1.725	.000	9.100	.00	.00	1341.34	15.451	32.480	22.497	.000
5	1	1978	16258.	2.157	.000	6.943	2.248	.467	75.168	1.598	.000	9.100	.00	.00	1215.21	15.451	32.480	22.497	.000
6	1	1978	16294.	2.148	.000	6.952	2.253	.467	69.120	1.471	.000	9.100	.00	.00	1059.52	15.451	32.480	22.497	.000
7	1	1978	16329.	2.139	.000	6.961	2.258	.468	67.392	1.436	.000	9.100	.00	.00	1002.03	15.451	32.480	22.497	.000
8	1	1978	16360.	2.130	.000	6.970	2.262	.468	63.936	1.364	.000	9.100	.00	.00	912.45	15.451	32.480	22.497	.000
9	1	1978	16402.	2.119	.000	6.981	2.268	.469	75.168	1.605	.000	9.100	.00	.00	888.09	15.451	32.480	22.497	.000
10	1	1978	16633.	2.058	.000	7.042	2.300	.469	260.064	5.559	.000	9.100	.00	.00	4483.66	15.451	32.480	22.497	.000
11	1	1978	16860.	1.998	.000	7.102	2.331	.472	255.744	5.501	.000	9.100	.00	.00	5500.43	15.451	32.480	22.497	.000
12	1	1978	17004.	1.960	.000	7.140	2.351	.475	174.528	3.779	.000	9.100	.00	.00	3287.16	15.451	32.480	22.497	.000
13	1	1978	17110.	1.932	.000	7.168	2.366	.478	137.376	2.988	.000	9.100	.00	.00	2601.68	15.451	32.480	22.497	.000
14	1	1978	17190.	1.911	.000	7.189	2.377	.479	112.320	2.451	.000	9.100	.00	.00	2111.23	15.451	32.480	22.497	.000
15	1	1978	17254.	1.894	.000	7.206	2.385	.480	95.904	2.098	.000	9.100	.00	.00	1697.62	15.451	32.480	22.497	.000
16	1	1978	17303.	1.881	.000	7.219	2.392	.481	82.080	1.799	.000	9.100	.00	.00	1405.11	15.451	32.480	22.497	.000
17	1	1978	17338.	1.872	.000	7.228	2.397	.482	67.392	1.479	.000	9.100	.00	.00	1061.30	15.451	32.480	22.497	.000
18	1	1978	17368.	1.864	.000	7.236	2.401	.482	63.936	1.405	.000	9.100	.00	.00	893.70	15.451	32.480	22.497	.000
19	1	1978	17421.	1.850	.000	7.250	2.409	.483	84.672	1.862	.000	9.100	.00	.00	1631.82	15.451	32.480	22.497	.000
20	1	1978	17461.	1.839	.000	7.261	2.414	.484	73.440	1.617	.000	9.100	.00	.00	1264.67	15.451	32.480	22.497	.000
21	1	1978	17531.	1.821	.000	7.279	2.424	.484	101.952	2.248	.000	9.100	.00	.00	1953.81	15.451	32.480	22.497	.000
22	1	1978	17627.	1.795	.000	7.305	2.437	.485	127.872	2.826	.000	9.100	.00	.00	2807.87	15.451	32.480	22.497	.000
23	1	1978	17856.	1.735	.000	7.365	2.469	.487	257.472	5.706	.000	9.100	.00	.00	4884.31	15.451	32.480	22.497	.000
24	1	1978	18018.	1.692	.000	7.408	2.491	.490	192.672	4.299	.000	9.100	.00	.00	3706.57	15.451	32.480	22.497	.000
25	1	1978	18145.	1.658	.000	7.442	2.509	.492	158.112	3.545	.000	9.100	.00	.00	3053.85	15.451	32.480	22.497	.000
26	1	1978	18255.	1.629	.000	7.471	2.524	.494	141.696	3.188	.000	9.100	.00	.00	2830.11	15.451	32.480	22.497	.000
27	1	1978	18385.	1.595	.000	7.505	2.542	.496	160.704	3.628	.000	9.100	.00	.00	3340.80	15.451	32.480	22.497	.000
28	1	1978	18516.	1.560	.000	7.540	2.560	.498	161.568	3.661	.000	9.100	.00	.00	3485.74	15.451	32.480	22.497	.000
29	1	1978	18639.	1.528	.000	7.572	2.577	.499	154.656	3.518	.000	9.100	.00	.00	3146.42	15.451	32.480	22.497	.000
30	1	1978	18740.	1.501	.000	7.599	2.591	.501	132.192	3.018	.000	9.100	.00	.00	2670.41	15.451	32.480	22.497	.000
31	1	1978	18890.	1.461	.000	7.639	2.612	.503	180.576	4.134	.000	9.100	.00	.00	3683.88	15.451	32.480	22.497	.000
1	2	1978	19032.	1.424	.000	7.676	2.631	.897	174.528	4.013	.000	9.100	.00	.00	3505.14	16.184	34.020	23.292	.000
2	2	1978	19141.	1.395	.000	7.705	2.646	.901	141.696	3.271	.000	9.100	.00	.00	2885.90	16.184	34.020	23.292	.000
3	2	1978	19262.	1.363	.000	7.737	2.663	.904	152.928	3.542	.000	9.100	.00	.00	3139.34	16.184	34.020	23.292	.000

4	2	1978	19400.	1.326	.000	7.774	2.682	.907	170.208	3.955	.000	9.100	.00	.00	3633.53	16.184	34.020	23.292	.000
5	2	1978	19523.	1.294	.000	7.806	2.699	.911	195.520	3.628	.000	9.100	.00	.00	3247.45	16.184	34.020	23.292	.000
6	2	1978	19629.	1.266	.000	7.834	2.714	.914	138.240	3.236	.000	9.100	.00	.00	2847.46	16.184	34.020	23.292	.000
7	2	1978	19716.	1.243	.000	7.857	2.726	.916	120.960	2.840	.000	9.100	.00	.00	2495.02	16.184	34.020	23.292	.000
8	2	1978	19786.	1.224	.000	7.876	2.736	.919	102.816	2.420	.000	9.100	.00	.00	2077.32	16.184	34.020	23.292	.000
9	2	1978	19841.	1.210	.000	7.890	2.743	.921	88.992	2.099	.000	9.100	.00	.00	1656.61	16.184	34.020	23.292	.000
10	2	1978	19883.	1.199	.000	7.901	2.749	.922	76.896	1.816	.000	9.100	.00	.00	1260.83	16.184	34.020	23.292	.000
11	2	1978	19916.	1.190	.000	7.910	2.754	.923	67.392	1.594	.000	9.100	.00	.00	1034.79	16.184	34.020	23.292	.000
12	2	1978	19943.	1.183	.000	7.917	2.757	.924	61.344	1.452	.000	9.100	.00	.00	862.13	16.184	34.020	23.292	.000
13	2	1978	19964.	1.177	.000	7.923	2.760	.925	56.160	1.330	.000	9.100	.00	.00	761.22	16.184	34.020	23.292	.000
14	2	1978	19979.	1.173	.000	7.927	2.762	.925	50.112	1.188	.000	9.100	.00	.00	639.71	16.184	34.020	23.292	.000
15	2	1978	19992.	1.170	.000	7.930	2.764	.926	47.520	1.127	.000	9.100	.00	.00	596.25	16.184	34.020	23.292	.000
16	2	1978	20002.	1.167	.000	7.933	2.765	.926	44.928	1.066	.000	9.100	.00	.00	565.14	16.184	34.020	23.292	.000
17	2	1978	20007.	1.166	.000	7.934	2.766	.926	39.744	.943	.000	9.100	.00	.00	478.95	16.184	34.020	23.292	.000
18	2	1978	20003.	1.167	.000	7.933	2.766	.926	31.968	.759	.000	9.100	.00	.00	408.41	16.184	34.020	23.292	.000
19	2	1978	19995.	1.169	.000	7.931	2.765	.926	27.648	.656	.000	9.100	.00	.00	217.18	16.184	34.020	23.292	.000
20	2	1978	20006.	1.166	.000	7.934	2.766	.926	45.792	1.086	.000	9.100	.00	.00	513.28	16.184	34.020	23.292	.000
21	2	1978	20014.	1.164	.000	7.936	2.767	.926	43.200	1.025	.000	9.100	.00	.00	607.17	16.184	34.020	23.292	.000
22	2	1978	20149.	1.128	.000	7.972	2.786	.926	166.752	3.958	.000	9.100	.00	.00	3874.96	16.184	34.020	23.292	.000
23	2	1978	20493.	1.037	.000	8.063	2.833	.930	371.520	8.851	.000	9.100	.00	.00	8885.84	16.184	34.020	23.292	.000
24	2	1978	20852.	.943	.000	8.157	2.883	.939	385.344	9.268	.000	9.100	.00	.00	8624.63	16.184	34.020	23.292	.000
25	2	1978	21229.	.843	.000	8.257	2.935	.948	404.352	9.820	.000	9.100	.00	.00	8922.97	16.184	34.020	23.292	.000
26	2	1978	21320.	.819	.000	8.281	2.947	.958	333.504	8.183	214.840	223.940	.00	.00	7127.66	16.184	34.020	23.292	.000
27	2	1978	21320.	.819	.000	8.281	2.947	.960	293.760	7.225	264.686	273.786	.00	.00	6090.41	16.184	34.020	23.292	.000
28	2	1978	21320.	.819	.000	8.281	2.947	.960	266.976	6.566	237.242	246.342	.00	.00	5293.63	16.184	34.020	23.292	.000