

**TOWN OF GEORGETOWN, MA
CULVERT AND ROADWAY UPGRADE AT
WEST STREET OVER THE PARKER RIVER
NOVEMBER 2012**

Issued by: Coughlin Environmental Services, LLC

ADDENDUM No. 1

Date of Issue: December 6, 2012 (Issued by EMAIL)

The following clarifications/revisions to the Contract Documents and Specifications are being made by the Town of Georgetown relative to the above referenced Bid.

- 1.) **Page 00 40 00-2 (which immediately follows sheet 00 40 00-1) is to be deleted and substituted with the attached page 00 40 00-2. The new page shall be used for Bid submission.**
- 2.) **Page 00 40 00-3 Delete the seventh paragraph shown below. Utilize the revised Page 00 40 00-3 attached to this addendum for Bid submission purposes.**

Do you propose to deviate from specifications in any way? YES___ NO___
(If Yes, you must submit with this bid detailed descriptions of all proposed deviations.)

- 3.) **Pages 00 40 00-8 and 00 40 00-9 are to be deleted and substituted with the attached pages 00 40 00-8 and 00 40 00-9. The new pages shall be used for Bid submission.**
- 4.) **The attached Page 00 40 00-9A is to be inserted immediately after Page 00 40 00-9. This new page shall be used for Bid submission.**
- 5.) **Page 00 45 49-1 (Statement of Tax Compliance) is to be deleted and substituted with the attached page 00 45 49-1 (Certificate of Tax Compliance). The new page shall be used for Bid submission.**
- 6.) **Page 00 45 56-1 (Certificate of Owner's Attorney) is to be deleted in its entirety from the Contract Documents.**
- 7.) **Page 01 22 00-11, Part 1.33 Special Duty Police (Item 33), Paragraph A, Third Sentence should be replaced with the following:**

The Contractor is responsible for scheduling Special Duty Police through the Georgetown Highway Superintendent.

8.) Page 01 22 00-13 Insert the following Section 1.40 as follows:

1.40 18" C900 PVC SLEEVE AND CAPS, C.I.P. (BID ADDITION ITEM A2)

- A. 18" C900 PVC Sleeve and Caps, Complete In Place will be measured for payment per linear foot. Measurement will be made along the length of the pipe from end to end complete in place. No measurement will be made for the two end caps to be installed as part of the work but shall be considered incidental to the pipe item.
- B. Payment for 18" C900 PVC Sleeve and Caps, Complete In Place will be paid for at the Contract unit price bid per linear foot. Payment under this item shall constitute full payment for the installation of 18" diameter C900 PVC sleeve, PVC end caps, sleeve bedding, backfill, excavation, and compaction and all else necessary for the complete installation of the PVC sleeve. Refer to PVC Sleeve Plan for location of proposed sleeve.

9.) An 8-1/2" x 11" PVC SLEEVE PLAN is included in this Addendum to define the proposed location of the sleeve placement. See attached plan.

QUESTIONS/RESPONSES

Written Questions

1.) Bid Items 8, 9, 11, 12, 26, 34 and 35 in the Base Bid represent a substantial amount of money that the Contractor has no control over and it greatly affects the bottom line of the Base Bid.

As part of Addendum No. 1, all the above listed items excluding item 35 have been removed from the Base Bid and shall be considered part of the "Limitation Items" Alternative and will not be part of the Basis of Award. The "Limitation Items" will be assessed the Town for potential inclusion and use in part, whole or none during the course of work to supplement Town "in-kind" grant work under these items if deemed by the Town to be economically advantageous to the Town. The Contractor shall provide unit pricing for each Limitation Item based upon a variable quantity up to the quantity listed in the Bid Schedule.

2.) When is the anticipated start of construction?

The anticipated start of construction is January/February 2013.

Pre-Bid Conference Questions

3.) What is the police detail hourly rate? Are there different rates for different classifications of detail officers such as sergeants?

The detail rate for Town projects is \$41.00/hour, with a 4-hour minimum and time and a half for anything over 8 hours. All Contractor detail requests must be placed with the Georgetown Highway Superintendent who will order the details. Any details not processed through the Georgetown Highway Superintendent will be at the Contractor’s cost and the billing rate would be \$50.00/hour.

4.) What is the current flow rates through the culvert?

There is no detailed information on flow rates through this specific culvert. However flood study data is available upstream and downstream of the West Street culvert and the peak discharges are as follows:

<u>Flooding Location</u>	<u>Drainage Area (Sq. Mi.)</u>	<u>Peak Discharges (Cubic Feet per Second)</u>			
		<u>10-Yr</u>	<u>50-Yr</u>	<u>100-Yr</u>	<u>500-Yr</u>
Parker River at Georgetown Cross Section M	4.71	83	133	160	245
Parker River at Boxford downstream corporate limits	3.6	170	270	325	460

In addition, monthly average flow data for the Byfield Gauging Station downstream of Georgetown is available from 1946 to 2002 and the monthly graphs are attached.

5.) Will the road be closed during construction? What type of access will be provided to abutters with driveways within the project limits?

The road will be closed during construction. Abutters with driveways within the project limits will be provided one way access to and from their properties during all hours, unless there is a notification of a closure, approved by the engineer, issued at least 48 hours in advance of the closure.

6.) The fine grading is being done by the selected contractor for the paver. Would it make more sense to have the paver do the fine grading themselves? Will the contractor need to bring in a grading machine? Can a dozer be used? To what tolerances will the grading be done? To a tenth of a foot?

The Contractor will need to grade the roadway to within plus (+) one tenth of a foot of proposed sub-base grade. Fine grading will be conducted by the Town’s paver.

7.) Would the contractor be reclaiming and striping the material for future use?

No. The Town would be reclaiming the road and the Contractor will not have to strip material unless necessary for final grading.

8.) Are the large pine trees part of the clearing work?

No. The town will take large trees down themselves. Clearing and Grubbing shall cover all vegetation including small trees and brush but no trees over 8" in diameter. Refer to Measurement and Payment Section 01 22 00 and Section 31 11 10 Clearing and Grubbing.

9.) If the contractor is to drive sheeting to control flow, the overhead wires on the upstream side of the culvert may be an issue for the crane to install the sheeting. Is there going to be any relocation of the overhead wires?

No. Line relocation is currently not part of the Town's anticipated scope of work.

10.) What is the water depth in the culvert?

It is flowing approximately 2 feet vertically within the culvert. Outside of the culvert, the water is roughly waist high on the upstream side. The downstream side is not as deep as the upstream side. Recent beaver damming downstream of the site has currently increased these heights somewhat but the issue should be resolved within a few weeks.

11.) The specifications mention additional permitting may be required including a NPDES Construction Permit. Can't these permits take a month or more to obtain?

From the engineer's past experiences with the NPDES permit, it does not take that long to obtain provided the application is not deficient.

12.) Will a Stormwater Pollution Prevention Plan (SWPPP) be needed?

Yes, and it should be developed with the NPDES permit application.

13.) Is using gravity diversion of the river flows an option?

Yes. Every method of diversion is on the table. It would be subject to Engineer review and approval and could also be subject to Conservation Commission review depending on the methods utilized.

14.) Does the contractor develop the diversion plan?

Yes. The plans have a cofferdam shown but the selected contractor may propose alternate methods if desired, provided it is approved by the Engineer.

15.) The state permit may have a bearing on the diversion methods are used.

Correct, diversion methods could influence construction dewatering and erosion control.

16.) There are no borings for this area. What are the soil conditions?

It is sand and gravel, and is relatively permeable. The area is associated with the Town's Water Supply Wells.

17.) Is attendance at this pre-bid conference mandatory?

No.

18.) Can a plan holders list be included with Addendum No. 1?

Yes, we will include the latest plan holders list. See attached.

Site Visit Questions

19.) What is the depth of the sleeve beneath the culvert?

The sleeve is to be installed with crown 6" below the bottom of the proposed culvert.

20.) What is the depth of the proposed culvert in relation to the existing culvert?

The invert of the proposed culvert is to be set 1 foot below the existing culvert invert. However, the bottom vertical foot inside the culvert is to be filled with trap rock to create a more natural channel bottom.

21.) What are the limits of work for the project?

The project extends approximately 300 feet west of the culvert and extends to Pine Plain Road on the east side.

22.) What are the water control points?

A temporary shutdown is anticipated. Pine Plain Road and the portion of West Street leading to the culvert are dead ends of the water system and are not looped. A valve located east of the intersection of Pine Plain Road and West Street would be used to isolate the main. It is envisioned that the new piping would be installed north of the existing main crossing under the water main to reconnect on Pine Plain Road. Disinfection and testing would then be conducted and upon passing, a one day shutdown would then be conducted to make the final connections.

23.) Besides the existing water, are there any other underground utilities?

No.

24.) What type of material is in the ground?

Sands and gravel.

25.) What type of culvert is the proposed culvert?

The proposed culvert is a 4-sided precast concrete box culvert, to help expedite installation.

26.) What type of retaining wall block is to be used? Big block or small block?

Big Block is to be used. Shea Concrete block is called off in the plans, however, the contractor may submit an alternate manufacturer if they desire, subject to Engineer approval.

27.) Tree Removal

The Town will remove trees over 8" in diameter or larger prior to construction.

28.) Locating existing water main.

The Town's water department will test pit and stake out the location of the water main at the culvert area prior to the start of construction to avoid conflicts with cofferdam and wing walls.

29.) Current Water Levels

The current water levels might be higher than normal due to downstream beaver damming issues. It is anticipated that these issues will be addressed in a couple of weeks and the water levels should return to normal levels.

30.) Will the Town do a sieve analysis on the material they provide?

Sieve analysis would be conducted by the Town under the Allowance for Testing. Compaction testing would be at the Contractor's expense.

BID FORM

To: Town Administrator
Town Hall
1 Library Street
Georgetown, MA 01833

Gentlemen:

We the undersigned propose to furnish all labor, materials and equipment as necessary for the **“CULVERT AND ROADWAY UPGRADE AT WEST STREET OVER THE PARKER RIVER”** per the attached Plans and Specifications for the prices stated below and on the attached Bid Schedule. We are also providing a Bid Bond in an amount no less than five percent (5%) of the Total Base Bid Price. We hereby agree to commence work under this contract on or before a date to be specified in the “Notice to Proceed” from the Owner and to fully complete all work outlined in the Contract Documents, Specifications and as depicted on the plans within the below stipulated period or be subject to and pay liquidated damages as stipulated in Section 00 21 13. The Contract is subject to the provisions of Massachusetts General Law (MGL) Chapter 30, Section 39M and certain provisions of Chapter 149, Sections 44A-44J.

SUMMARY OF BASE BID (Items 1 to 7, 10, 13 to 25, 27 to 33, and 35 to 37)

(In Figures) **TOTAL BASE BID (BASIS OF AWARD)** \$ _____
(In Words) _____
_____ DOLLARS

SUMMARY OF LIMITATION ITEMS (Items 8, 9, 11, 12, 26, and 34)

(In Figures) **TOTAL LIMITATION ITEMS** \$ _____
(In Words) _____
_____ DOLLARS

SUMMARY OF BID ADDITION “A” (Items A1 and A2)

(In Figures) **TOTAL BID ADDITION “A”** \$ _____
(In Words) _____
_____ DOLLARS

SUMMARY OF BASE BID PLUS LIMITATION ITEMS PLUS BID ADDITION “A”

(In Figures) **BASE BID PLUS LIMITATION ITEMS PLUS BID ADDITION “A”**
\$ _____
(In Words) _____
_____ DOLLARS

(All entries shall be made clearly in ink or typewritten. Amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words shall govern.)

Contract Completion Time: 365 Calendar Days from Notice to Proceed

The undersigned Bidder, in compliance with your invitation for bids for the project known as the **“CULVERT AND ROADWAY UPGRADE AT WEST STREET OVER THE PARKER RIVER”**, having examined the plans and specifications and related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the contract documents and the plans and specifications within the time set forth herein, and at the prices stated herein. These prices are to cover all expenses incurred in performing the work required under the contract documents, of which this bid is a part.

The undersigned certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of Section Twenty-Nine F of Chapter Twenty-Nine, or any other applicable debarment provisions of any other Chapter of the General Laws or any rule or regulation promulgated there under.

Pursuant to M.G.L. CH. 62C, Sec. 49A, I certify hereby in writing, under penalties of perjury, that the within named Bidder/Contractor has complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting of child support.

The undersigned Bidder hereby certifies under penalties of perjury, as follows: (1) that he/she is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (2) that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and (3) that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

The undersigned certifies under penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this paragraph the word “person” shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

The undersigned bidder hereby certifies, under pains and penalties of perjury, that the foregoing bid is based upon the payment to laborers to be employed on the project of wages in an amount no less than the applicable prevailing wage rates established for the project by the Massachusetts Department of Labor and Workforce Development. The undersigned bidder agrees to indemnify the awarding authority for, from and against any loss, expense, damages, actions or claims, including any expense incurred in connection with any delay or stoppage of the project work arising out of or as a result of (1) the failure of the said bid to be based upon the payment of the said applicable prevailing wage rates or (2) the failure of the bidder, if selected as the contractor, to pay laborers employed on the project the said applicable prevailing wage rates.

00 40 00-3

**TOWN OF GEORGETOWN, MA
HIGHWAY DEPARTMENT
CULVERT AND ROADWAY UPGRADE AT WEST STREET OVER THE PARKER RIVER**

-BID SCHEDULE-

ITEM NO.	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
		BROUGHT FORWARD				
33	64 HRS	SPECIAL DUTY POLICE PER HOUR				
34	200 LF	SAWCUTTING AND KEYWAY CUTTING (See Section 01 22 00 for Limitations) PER LINEAR FOOT				
35	1 LS	ALLOWANCE FOR TESTING PER LUMP SUM	3000	00	3000	00
36	1 LS	TURTLE PROTECTION PLAN PER LUMP SUM				
37	300 CY	DUMPED STONE AND TRAP ROCK SLOPE PROTECTION PER CUBIC YARD				
TOTAL BASE BID PLUS LIMITATION ITEMS (ITEMS 1 THROUGH 37)						
WRITTEN IN WORDS						

00 40 00-8

**TOWN OF GEORGETOWN, MA
HIGHWAY DEPARTMENT
CULVERT AND ROADWAY UPGRADE AT WEST STREET OVER THE PARKER RIVER**

-BID SCHEDULE- -BID ADDITION A

ITEM NO.	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			DOLLARS	CENTS	DOLLARS	CENTS
A1	1	WATER SYSTEM IMPROVEMENTS				
	LS	PER LUMP SUMP				
A2	35	18" C900 PVC SLEEVE AND CAPS, C.I.P.				
	LF	PER LINEAR FOOT				
TOTAL BID ADDITION A (ITEM A1 AND A2)						
WRITTEN IN WORDS						

00 40 00-9

**TOWN OF GEORGETOWN, MA
HIGHWAY DEPARTMENT
CULVERT AND ROADWAY UPGRADE AT WEST STREET OVER THE PARKER RIVER**

BID TALLY SHEET

BASE BID (BASIS OF AWARD)

ITEM NO.	ITEM DESCRIPTION	TOTAL AMOUNT	
		DOLLARS	CENTS
1	Clearing and Grubbing		
2	Common Borrow (Grading & Compaction)		
3	Gravel Borrow (Grading & Compaction)		
4	Common Borrow (Furnish & Install)		
5	Gravel Borrow (Furnish & Install)		
6	Fine Grading and Compacting		
7	Gate Box Adjusted		
10	Calcium Chloride for Roadway Dust Control		
13	Hot Mix Asphalt Berm, Type A		
14	Guardrail Post - Steel		
15	Steel W Beam Highway Guard (Single Faced)		
16	Steel W Beam Highway Guard Buried End (Single Faced)		
17	Steel W Beam Terminal Section (Single Faced)		
18	Pedestrian Rail at Culvert		
19	Hot Mix Asphalt Walk Surface (1.5" Binder & 1.5" Top Course)		
20	Dredging		
21	Mobilization		
22	Loam Borrow (Installation)		
23	Wetland Replication Area		
24	Hydroseeding		
25	Hay Bale & Silt Fence Erosion Control		
27	Temporary Cofferdam		
28	Control of Water		
29	10'x6' Precast Concrete Box Culvert with Wingwalls		
30	Demolish Existing Culvert		
31	Retaining Wall		
32	Temporary Traffic Control Signs		
33	Special Duty Police		
35	Allowance for Testing	3000	00
36	Turtle Protection Plan		
37	Dumped Stone and Trap Rock Slope Protection		
TOTAL BASE BID (BASIS OF AWARD) (Copy Total to Sheet 00 40 00-2)			

LIMITATION ITEMS

ITEM NO.	ITEM DESCRIPTION	TOTAL AMOUNT	
		DOLLARS	CENTS
8	Pavement Reclamation		
9	Hot Mix Asphalt Intermediate Course		
11	Hot Mix Asphalt Surface Course		
12	Bitumen for Tack Coat		
26	Dumped Riprap (150 to 250 LB Stones)		
34	Sawcutting and Keyway Cutting		
TOTAL LIMITATION ITEMS (Copy Total to Sheet 00 40 00-2)			

BID ADDITION A

ITEM NO.	ITEM DESCRIPTION	TOTAL AMOUNT	
		DOLLARS	CENTS
A1	Water System Improvements		
A2	18" C900 PVC Sleeve and Caps, C.I.P.		
TOTAL BID ADDITION A (Copy Total to Sheet 00 40 00-2)			

00 40 00-9A

CERTIFICATE OF TAX COMPLIANCE

Pursuant to Chapter 62C of the Massachusetts General Laws, Section 49A(b), I, the undersigned, authorized signatory for the below named contractor/vendor, do hereby certify under the pains and penalties of perjury that said contractor has complied with all laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

_____ Date: _____
Signature

Name: _____
(Print Name)

Title: _____

Contractor/Vendor: _____

Figure A-1: Parker River USGS Gage at Byfield Average Monthly Flow for January

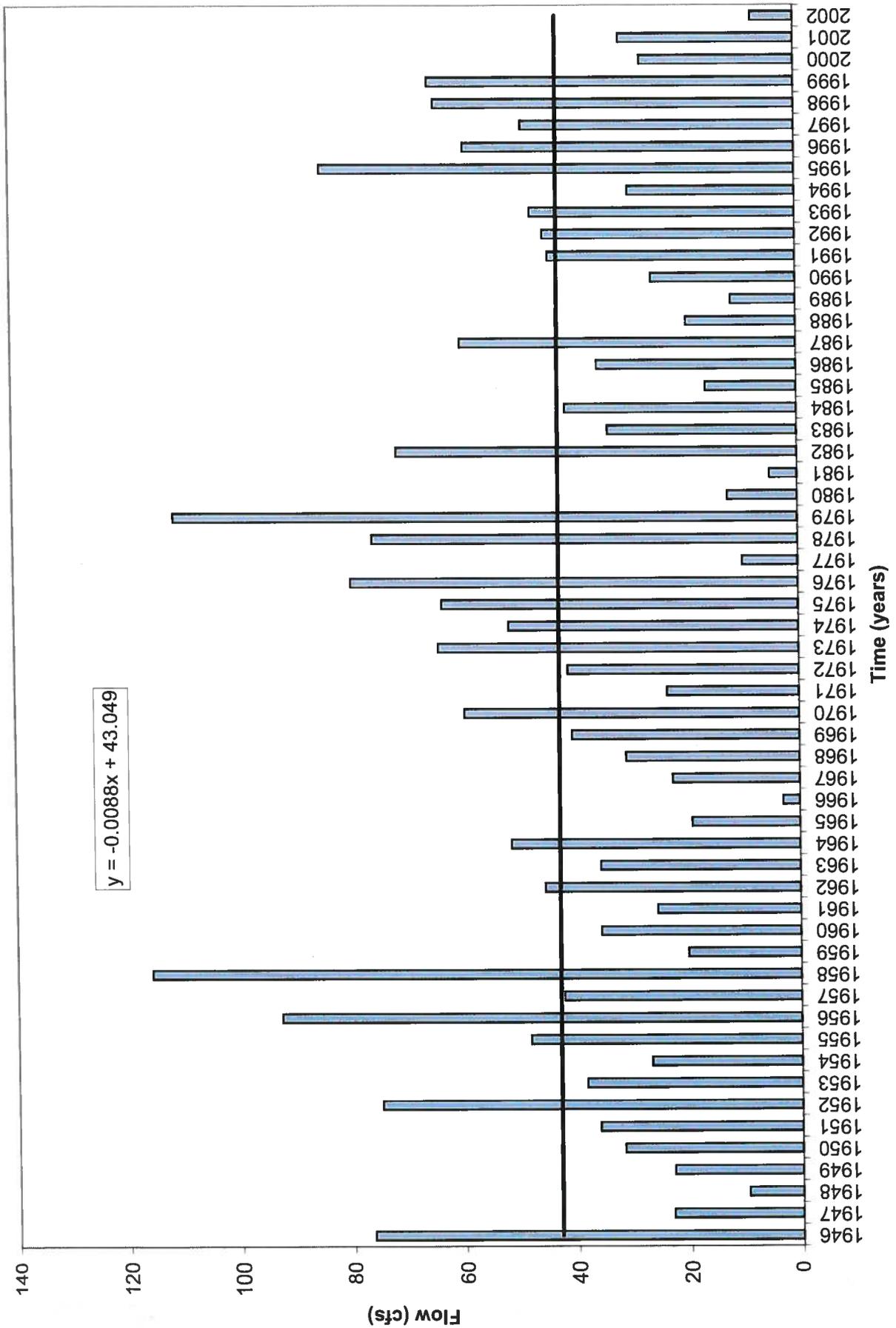


Figure A-2: Parker River USGS Gage at Byfield Average Monthly Flow for February

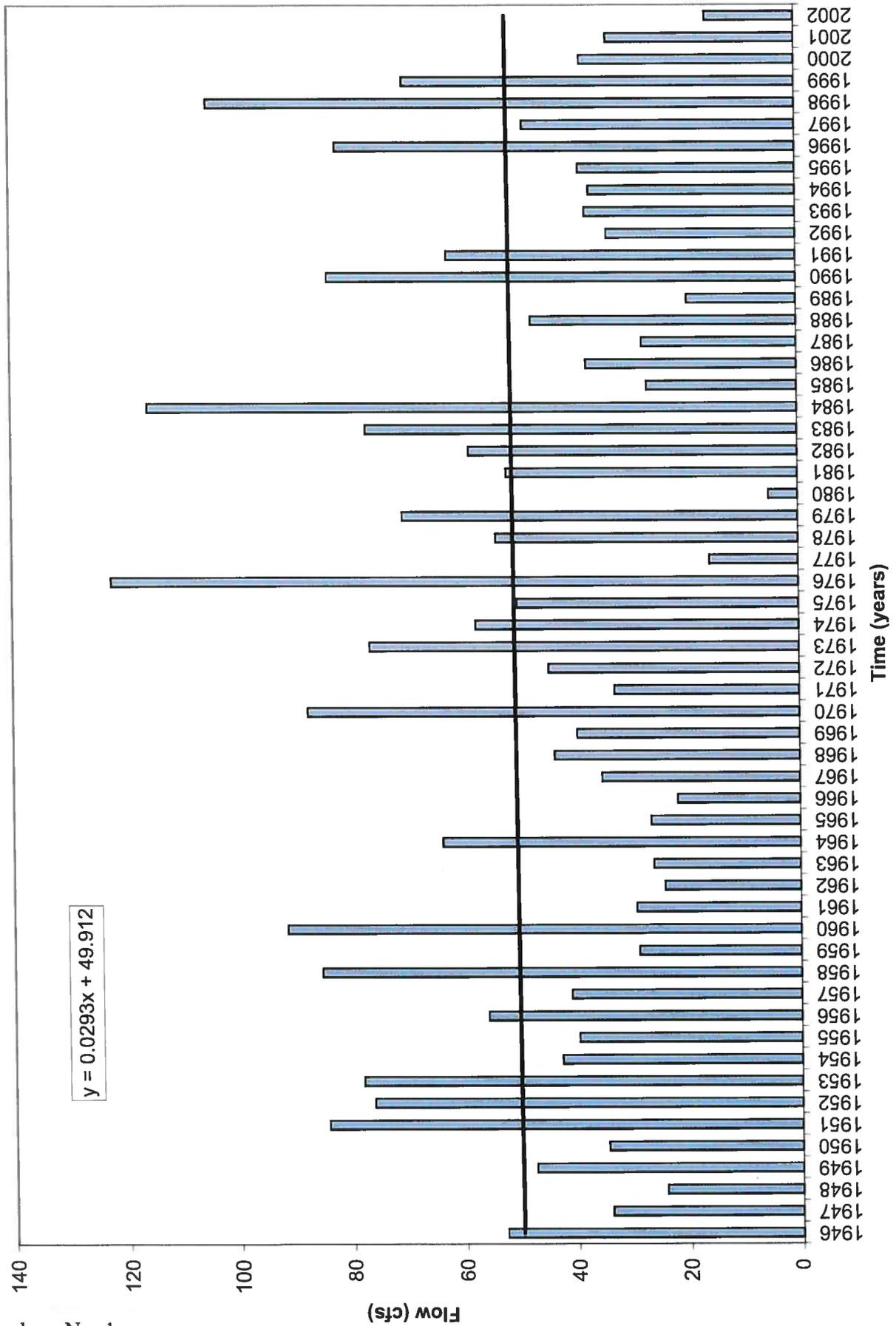


Figure A-3: Parker River USGS Gage at Byfield Average Monthly Flow for March

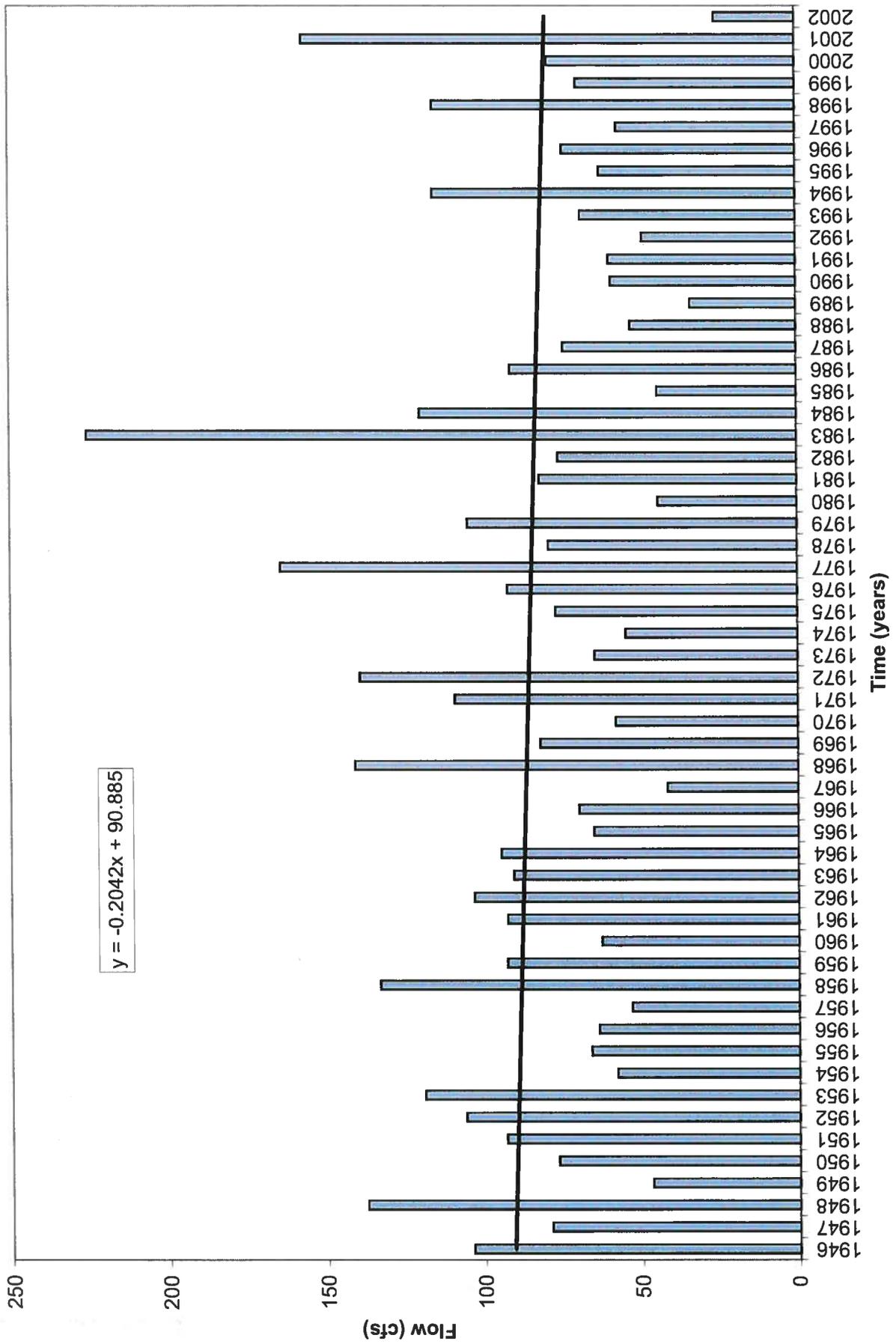


Figure A-4: Parker River USGS Gage at Byfield Average Monthly Flow for April

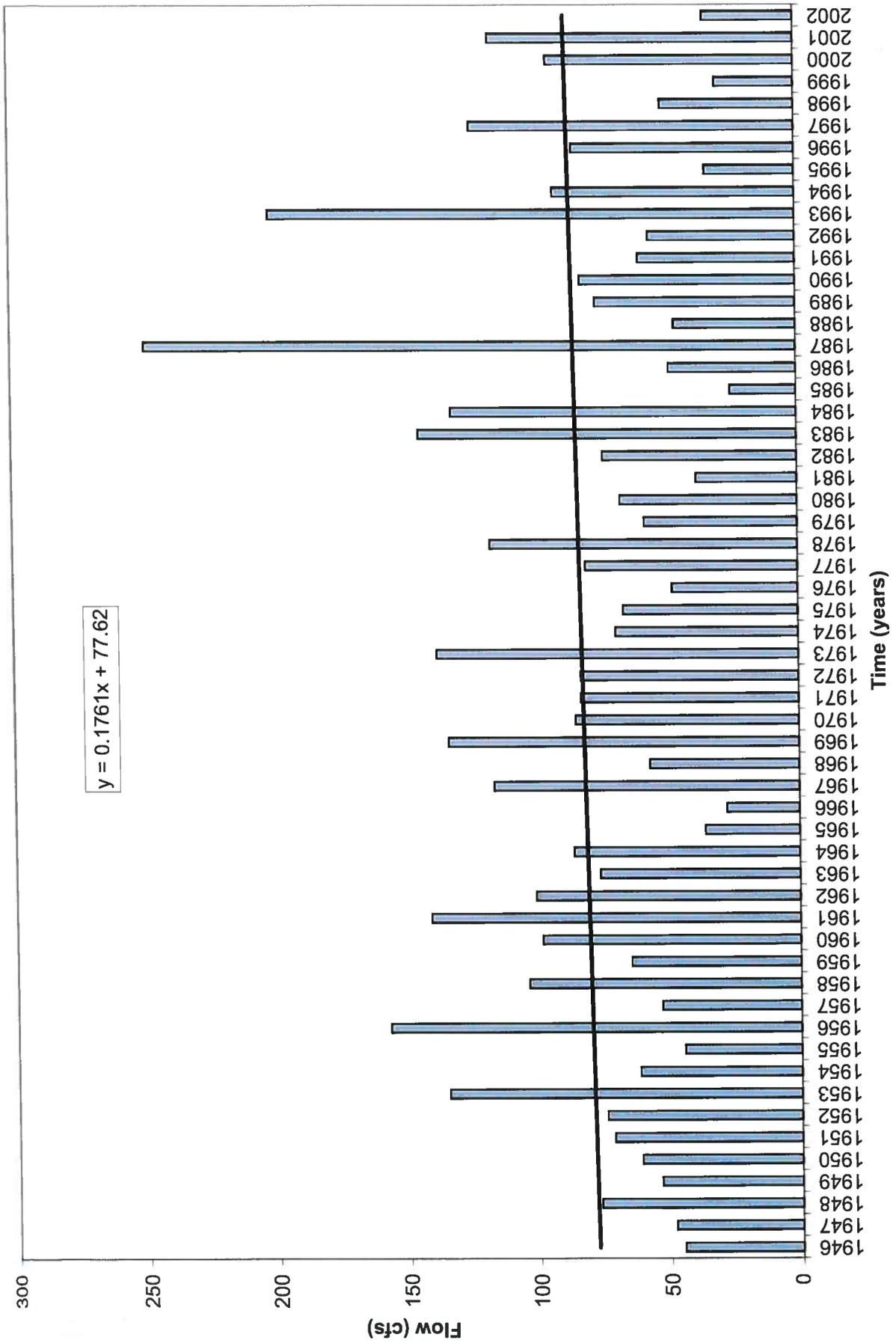


Figure A-5: Parker River USGS Gage at Byfield Average Monthly Flow for May

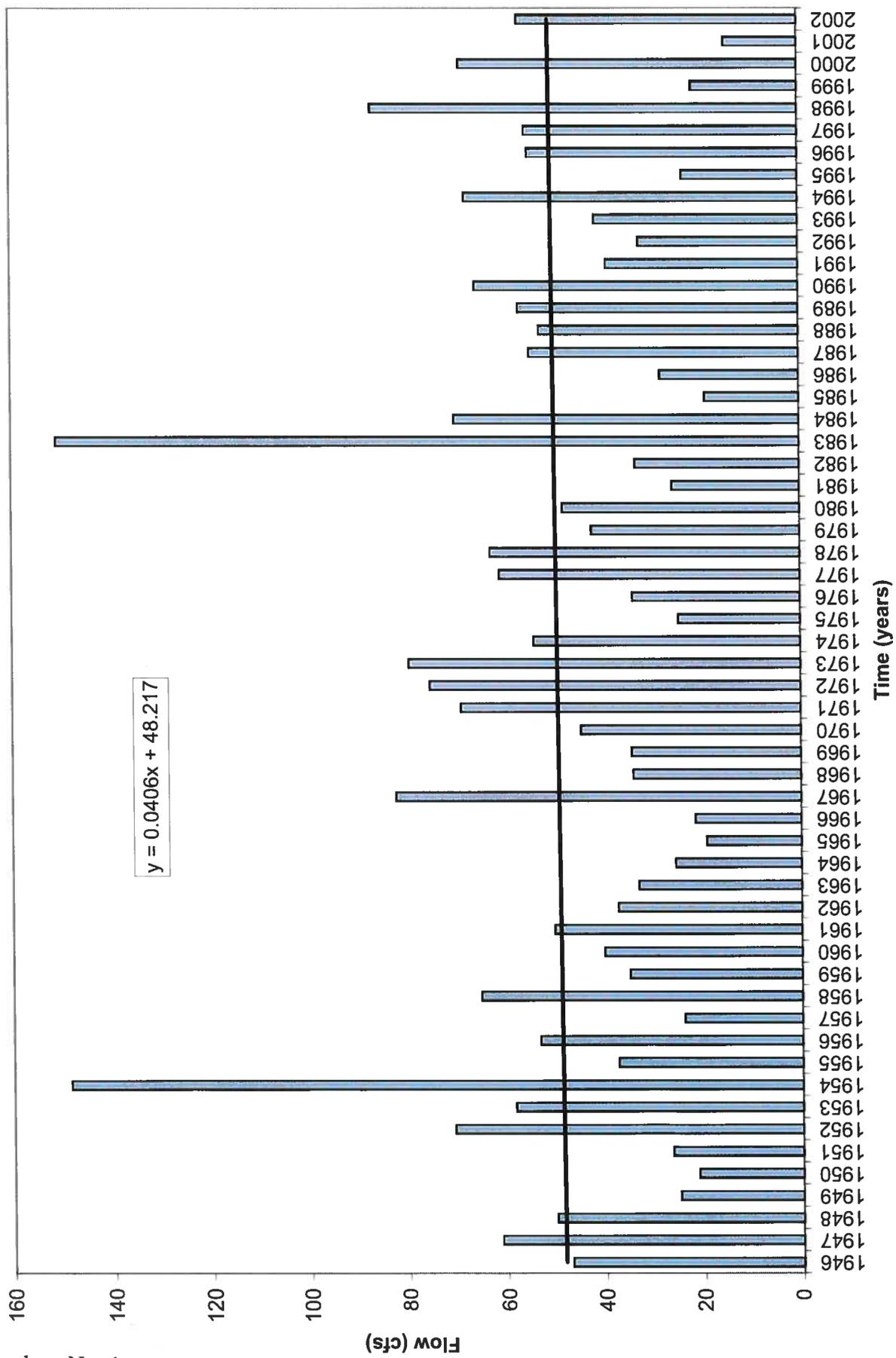


Figure A-6: Parker River USGS Gage at Byfield Average Monthly Flow for June

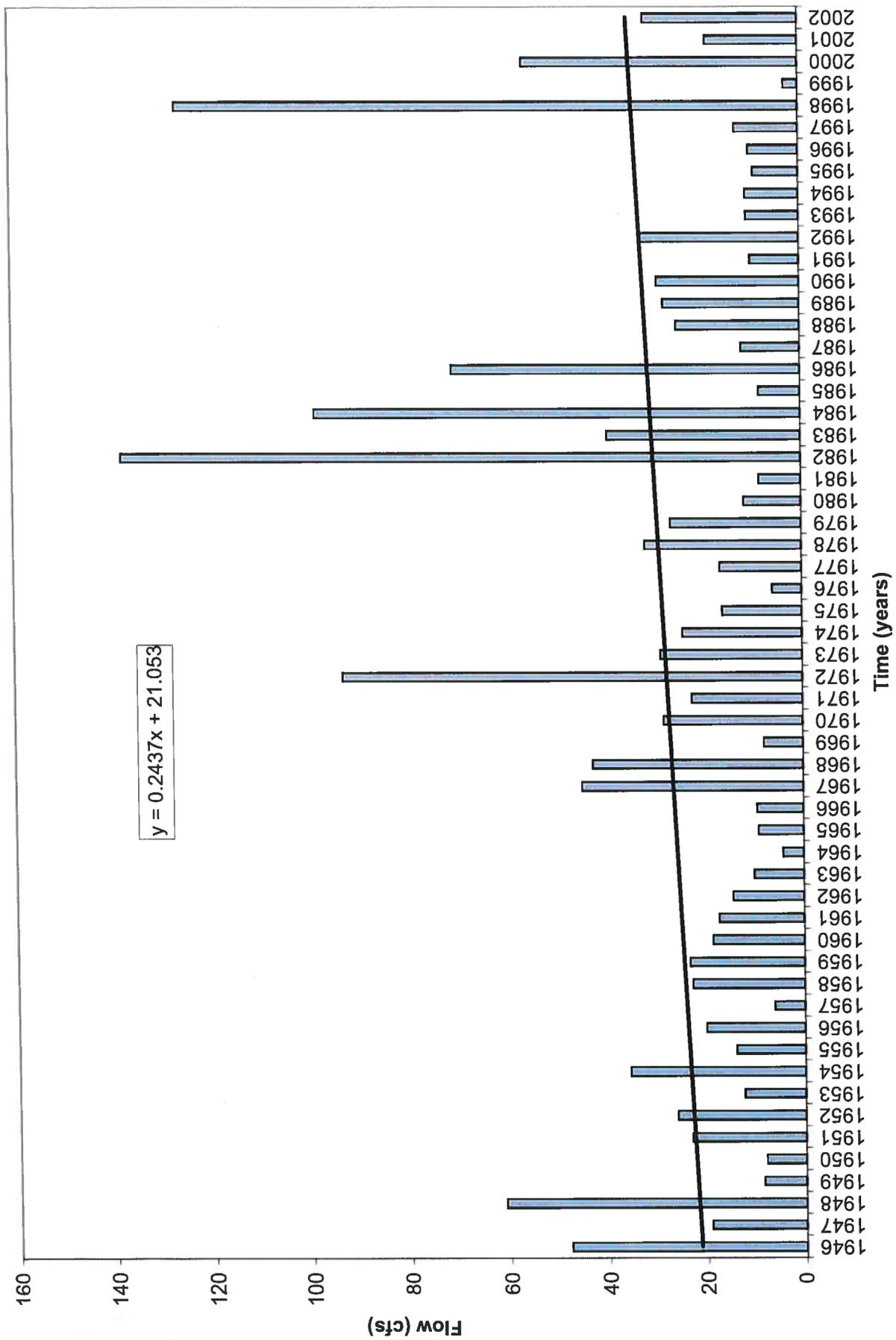


Figure A-7: Parker River USGS Gage at Byfield Average Monthly Flow for July

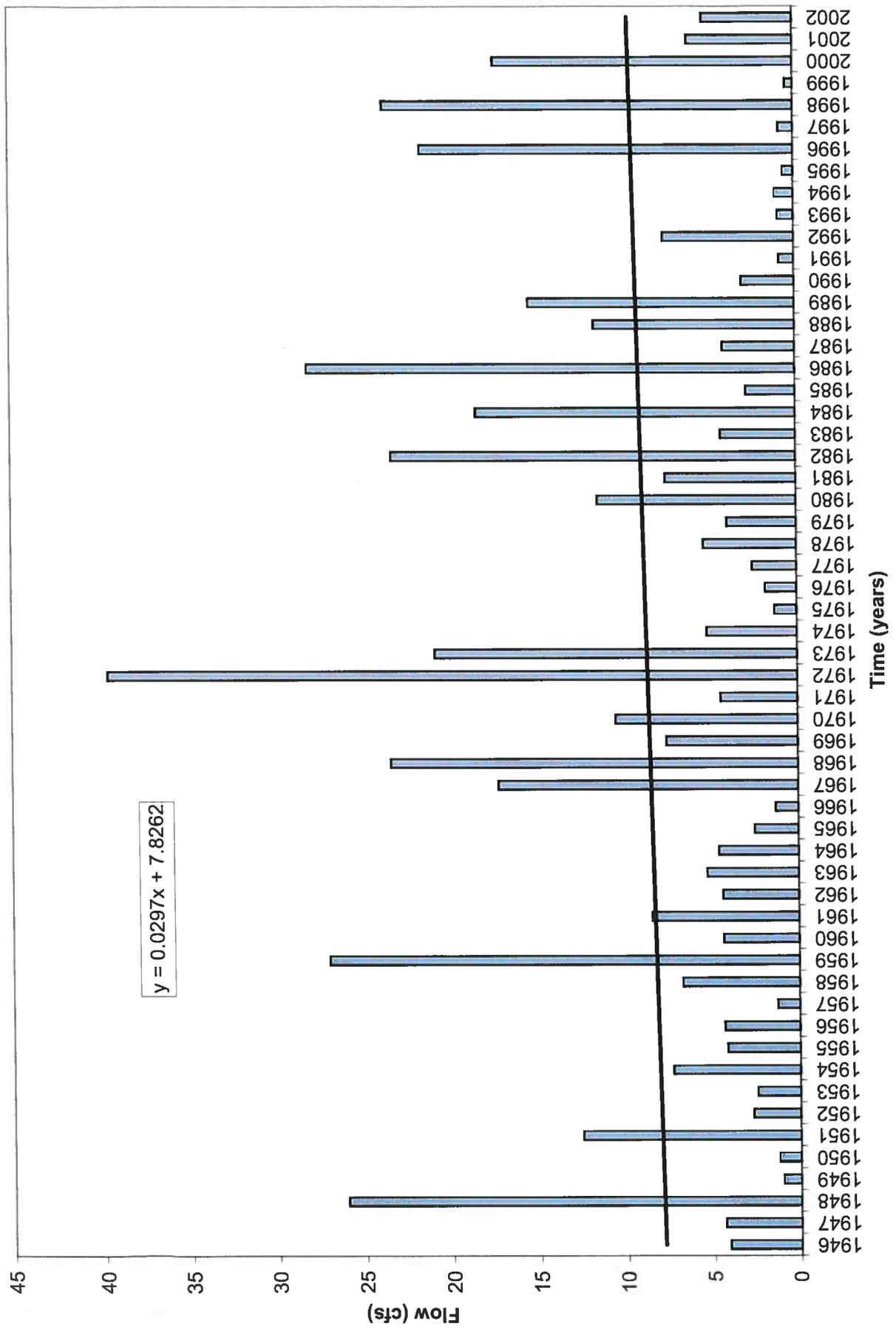


Figure A-8: Parker River USGS Gage at Byfield Average Monthly Flow for August

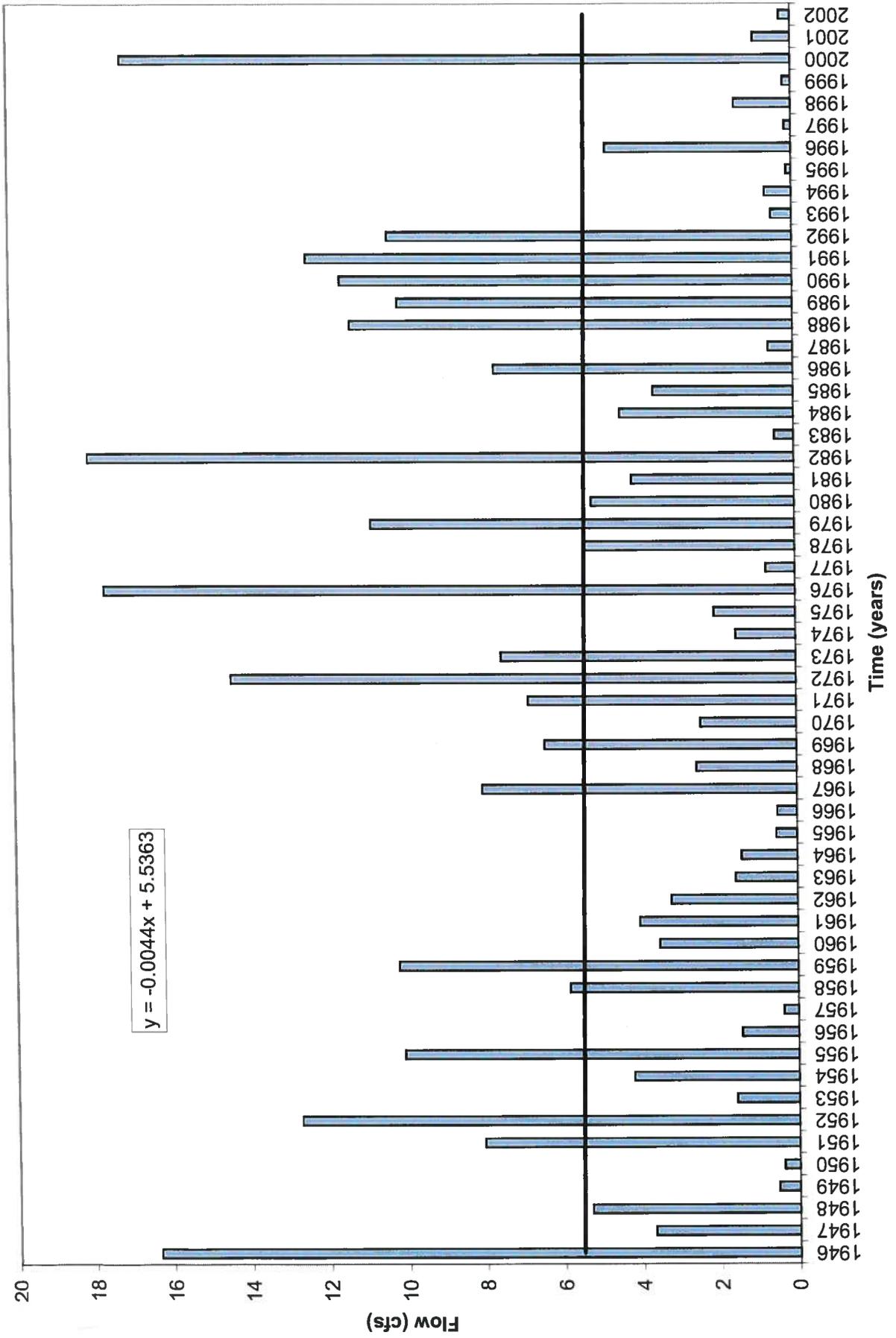


Figure A-9: Parker River USGS Gage at Byfield Average Monthly Flow for September

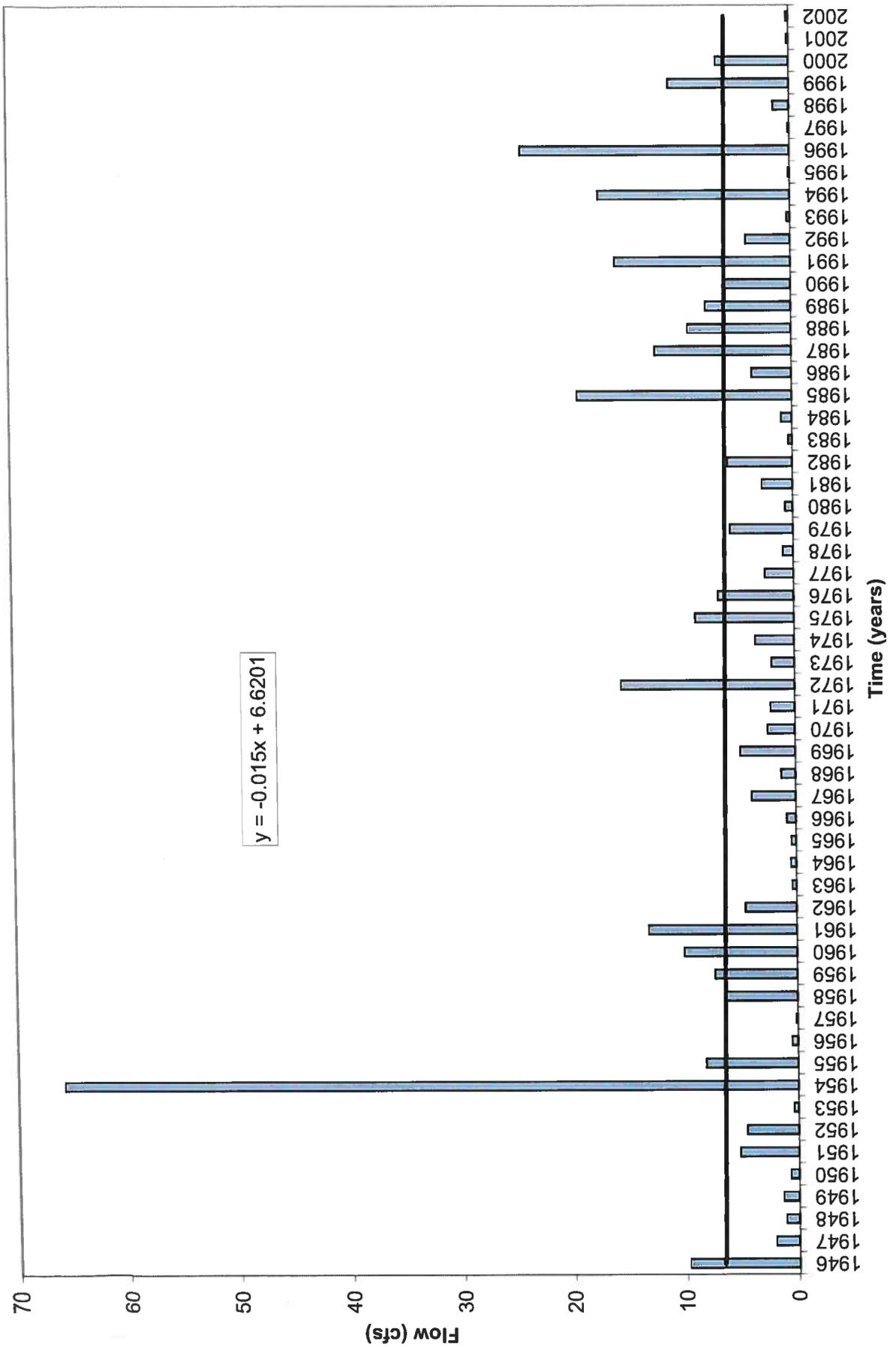


Figure A-10: Parker River USGS Gage at Byfield Average Monthly Flow for October

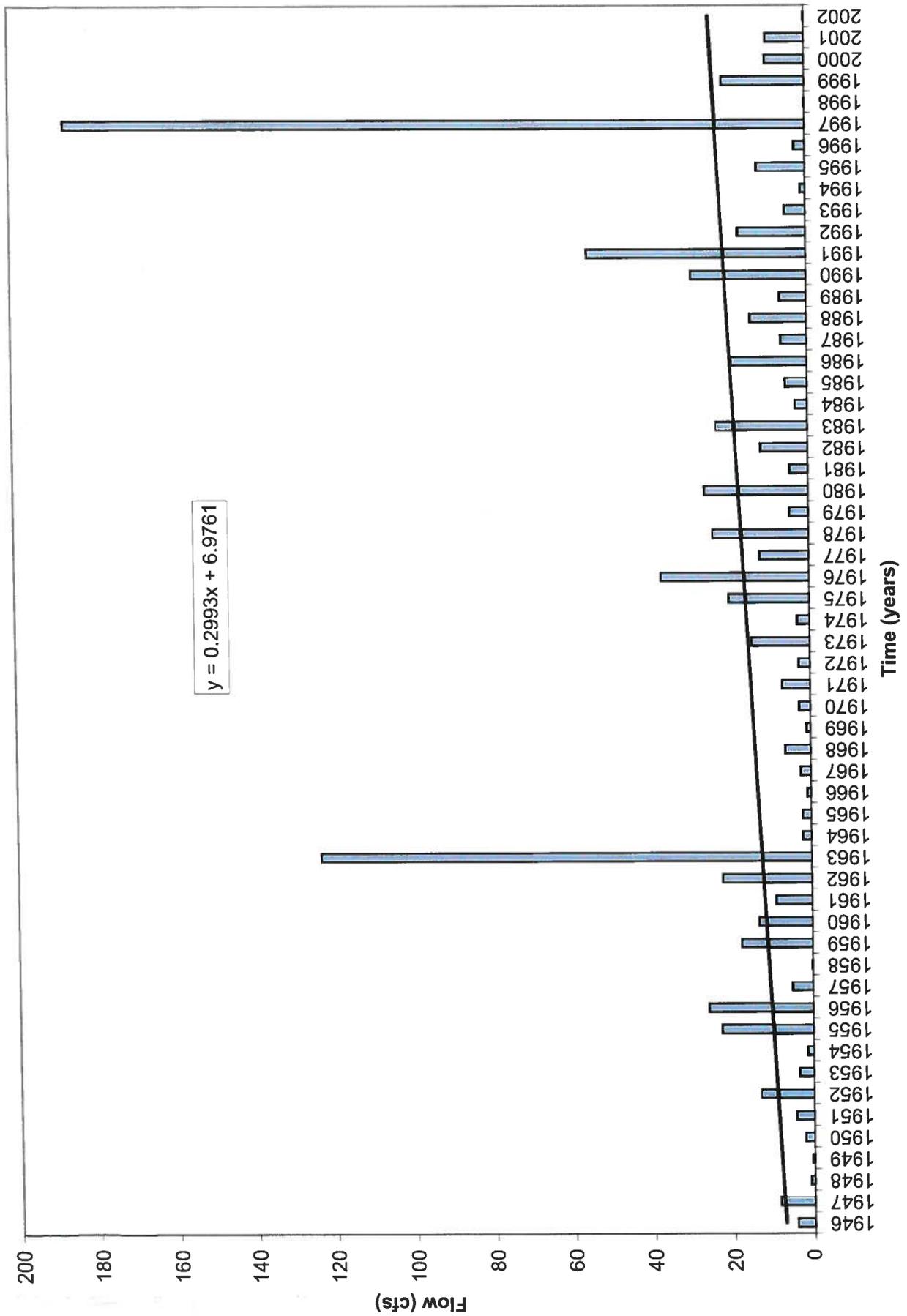


Figure A-11: Parker River USGS Gage at Byfield Average Monthly Flow for November

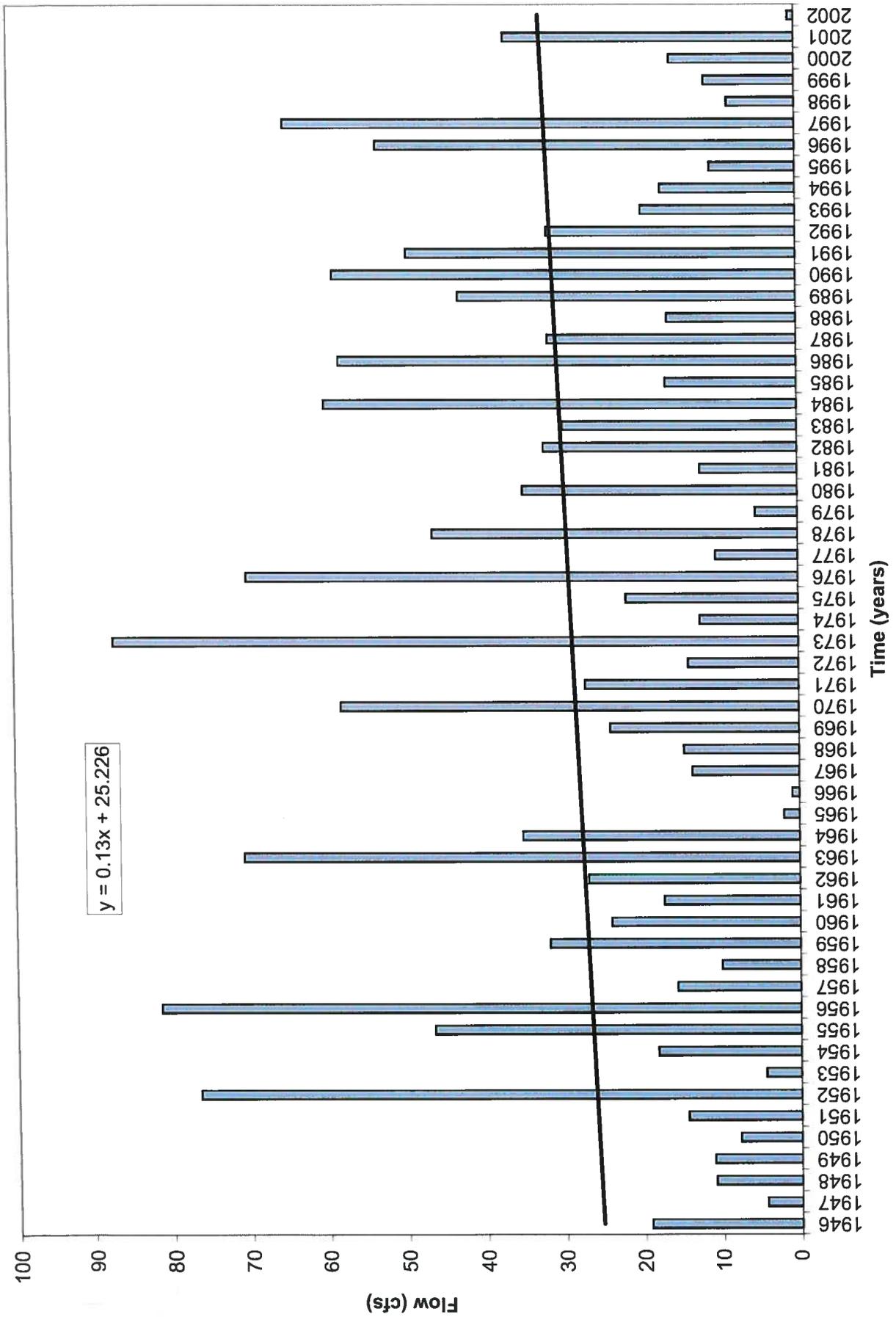
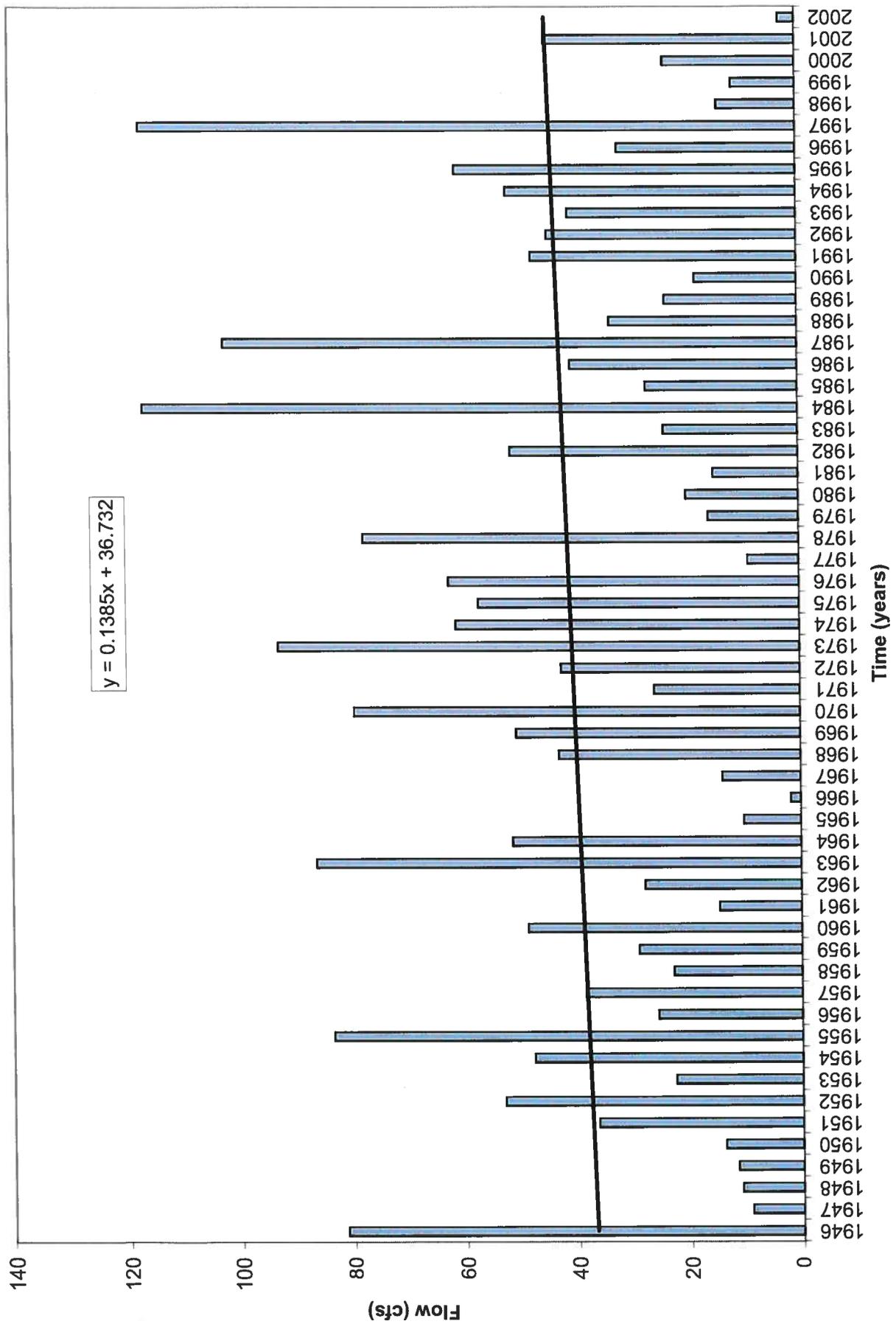


Figure A-12: Parker River USGS Gage at Byfield Average Monthly Flow for December



**Culvert and Roadway Upgrade at
West Street Over the Parker River
Georgetown, MA**

Plan Holders List

Moriarty & Sons
North Andover, MA

SumCo Eco-Contracting
Salem, MA

T Ford Company, Inc.
Georgetown, MA

Manter Co. Inc.
Danvers, MA

Kodiak Corporation
Lawrence, MA

A.J. Virgilio Construction
Westfield, MA

LM Heavy Civil Construction
Westford, MA

D&R General Contracting
Melrose, MA

Nardone Inc.
Wakefield, MA

Pecora Contracting Co. Inc.
Woburn, MA

R. Zoppo Corp
Stoughton, MA

H.A. Richard and Sons Inc.
Amesbury, MA

CRL
Medford, MA

N. Granese & Sons, Inc.
Marblehead, MA

Hugo Key & Son Inc.
Newport, RI

Onyx Corporation
Acton, MA

BPB Construction Inc.
Kingston, NH

East Coast Excavating, Inc.
Groveland, MA

J.J. Phelan & Son
Tewksbury, MA

DeFelice Corporation
Dracut, MA

Tim Zanelli Excavating
North Reading, MA

Joseph P. Cardillo & Son
Wakefield, MA

K&R Construction
Boxford, MA

Aqualine Utility, Inc.
East Bridgewater, MA

R&D Site Development
Groveland, MA

Tro-Con Corporation
Woburn, MA

iSqFt
Woburn, MA

John D. Hartnett & Son, Inc.
Newburyport, MA

Projectdog
Newburyport, MA

Concrete Systems, Inc.
Hudson, NH

Oxbow Associates, Inc.
Boxboro, MA

Michie Corp.
Henniker, NH

Shea Concrete Products, Inc.
Wilmington, MA