



# Corrections, Updates, and Reviews of ESPAM2.0 Water Budget Data

ESHMC Meeting

January 23, 2012

Presented by Stacey Taylor

# Overview

- Since the December meeting, changes/updates/corrections have been made to the diversion spreadsheet and perched river seepage spreadsheet
- This presentation will go over what changes were made and why these changes were made

# Perched River Seepage File

- New file is dated 6 Jan 2012
- Changes made detailed in table below and continued on the next slide:

| Reach                               | Change  |
|-------------------------------------|---|
| Big Lost Reach 2                    | 1984 INL diversions did not match the gage station data; gage station data is now inserted  |
| Little Wood from Carey to Richfield | Included Fish Ck summer values (not previously included); rounding differences between gage data and histlallsnake10.xls file   |
| Malad River                         | Gages on Milner Gooding Canal used to calculate this flow (from histlallsnake.xls) were both 2 orders of magnitude too LOW (ERROR); updated 1980, 2006, and 2007 Milner-Gooding data to match most current version of the Snake Plain historical data (histlallsnake10.xls) |

# Perched River Seepage File (cont.)

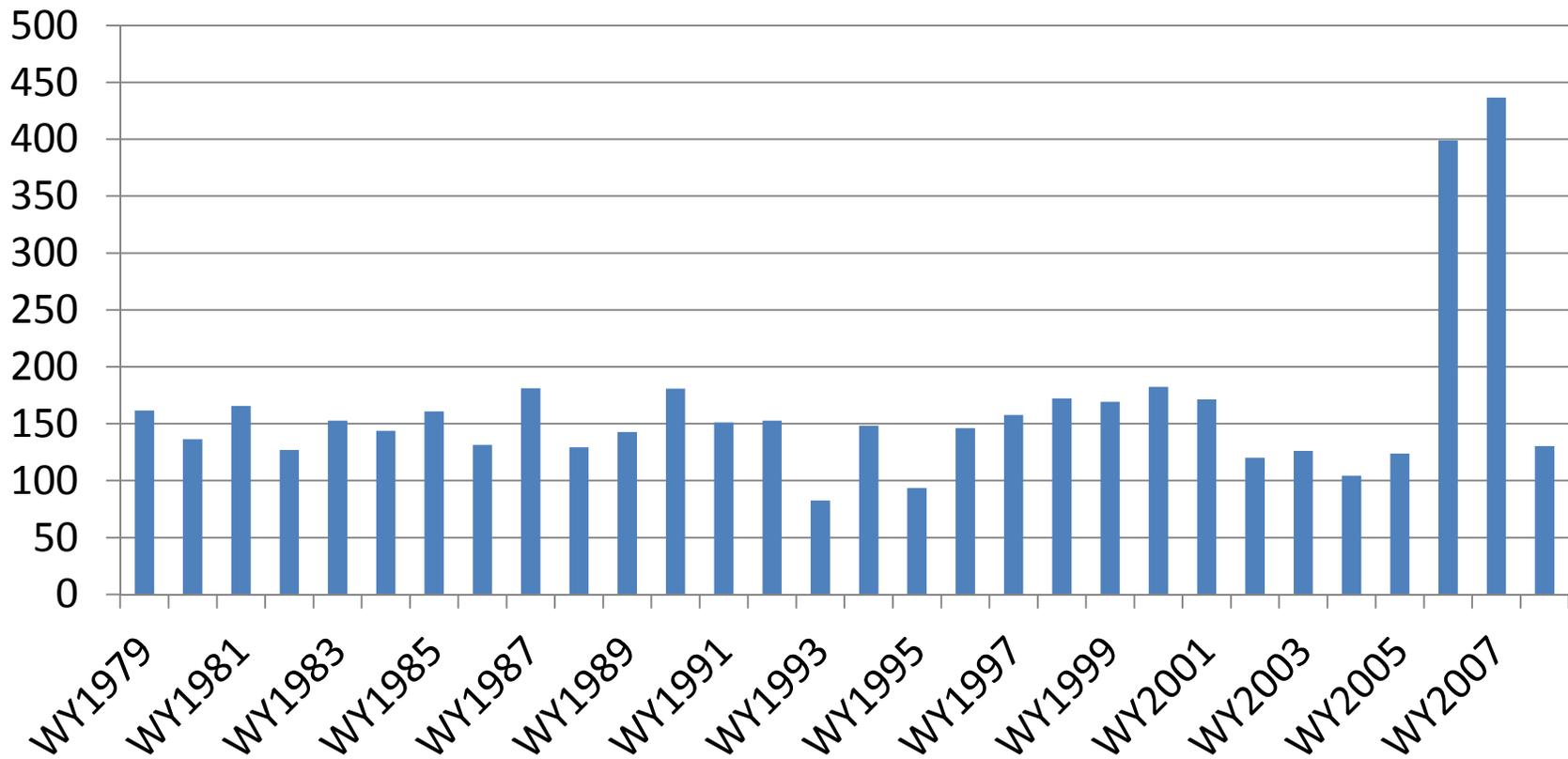
| Reach                        | Change   |
|------------------------------|--|
| Birch Creek                  | Averages updated as older data was acquired (that was missing previously within the 1980-2008 period); minor changes   |
| Birch Creek Hydropower Plant | 2001-2010 data includes WHOLE reported watermaster volume for Water District 32D instead of just including the Reno Ditch Company  |
| Camas Creek                  | Update made to prediction equation   |
| Medicine Lodge Creek         | Update made to prediction equation   |
| Little Lost River            | Wintertime values not removed from seepage estimates (these values are supposed to be reported in the winter months of the Little Lost Flood Control (L_L_Flo) only (not in both)) |
| Big Lost River Flood Control | Error same as for reach "Big_L_2" above. INL diversions are considered flood control diversions for the Big Lost River   |

# Diversion Spreadsheet Changes

- During calibration, errors were found in the diversion spreadsheet (IESW058, IESW019)
- This prompted a necessary check over all entity diversions to check for anomalous highs and lows
- A plot of annual water year diversions was made and checked for each entity

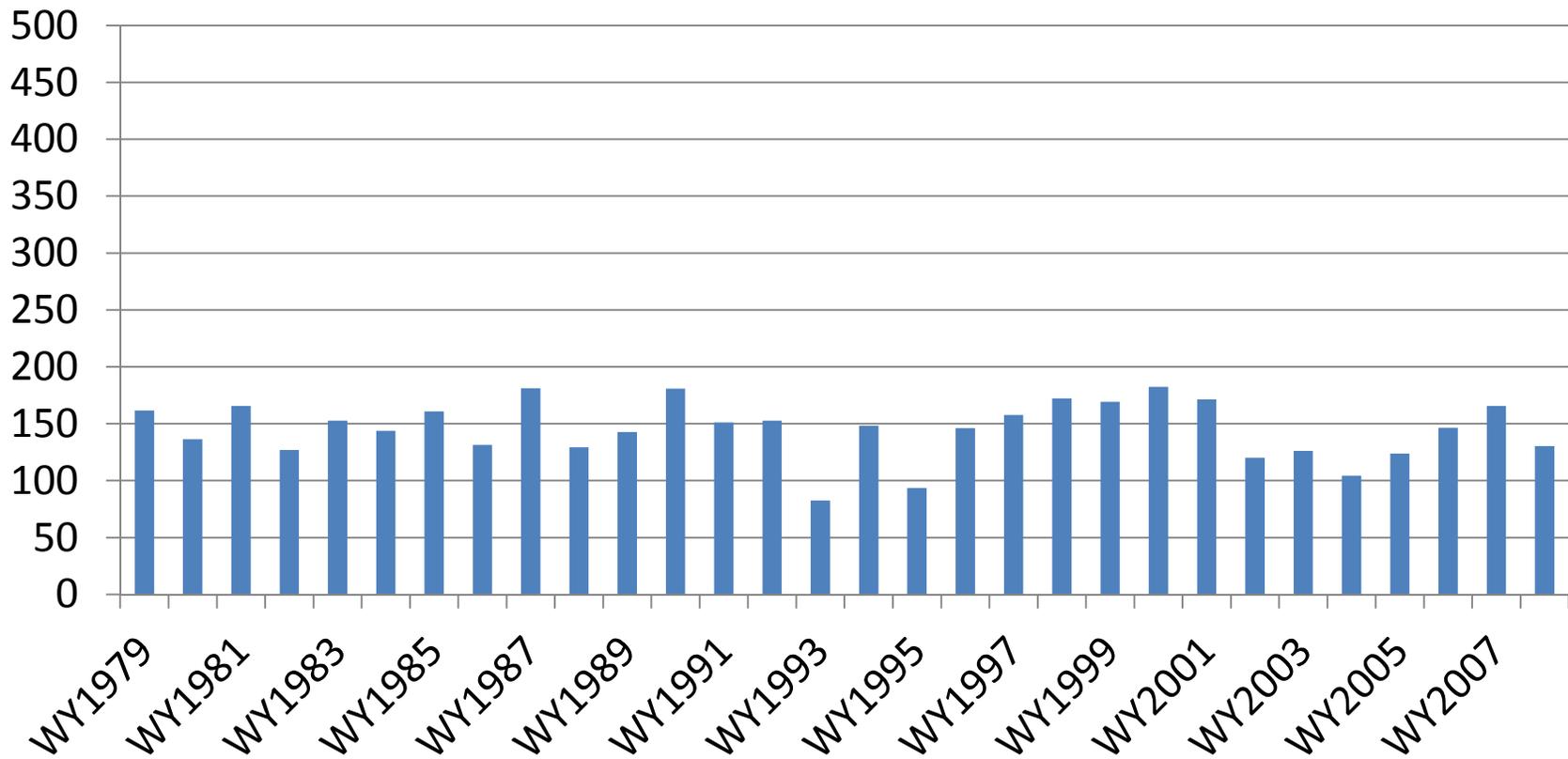
# IESW058 (Milner-Gooding)

(BEFORE)



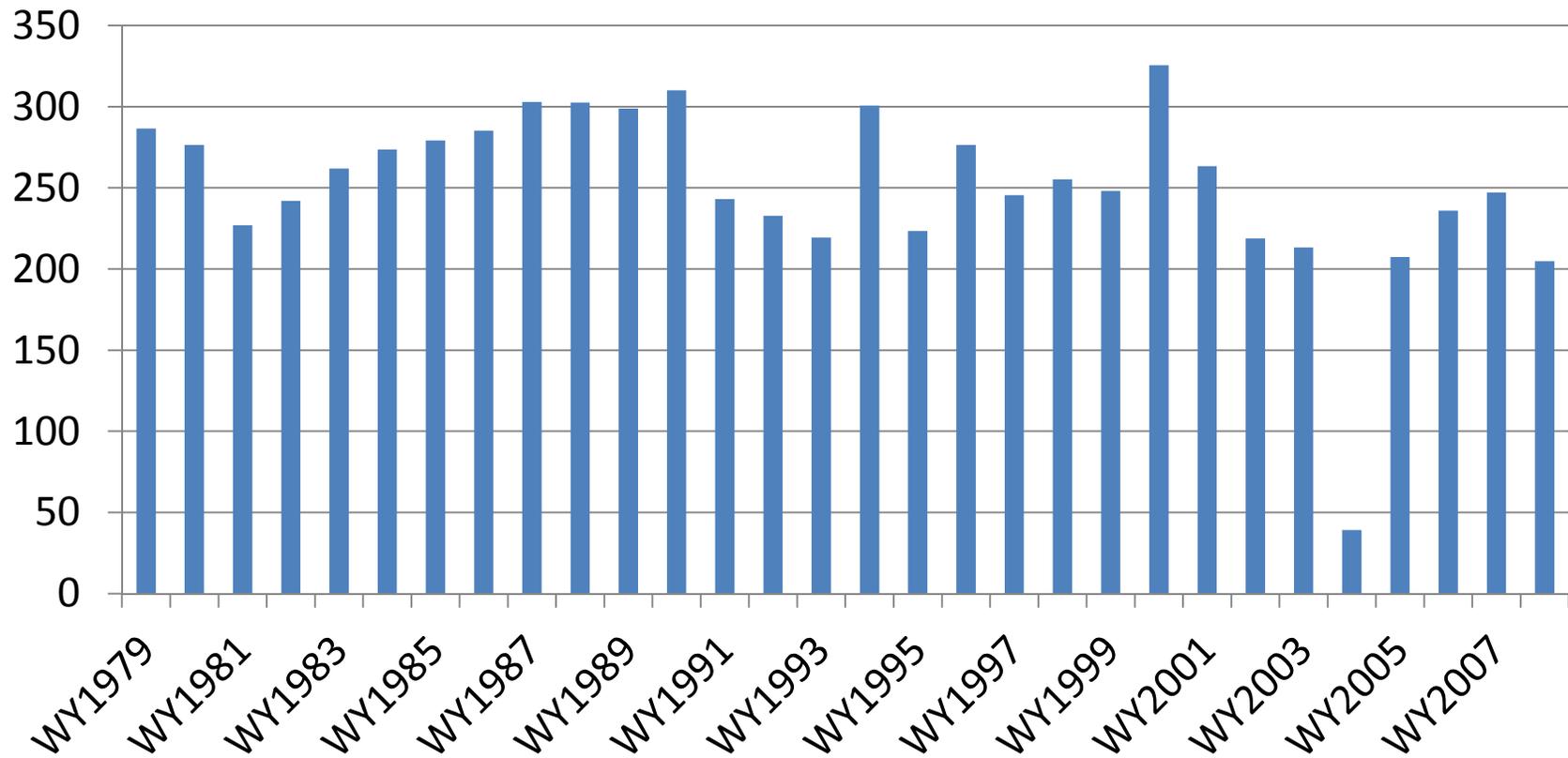
# IESW058 (Milner-Gooding)

(AFTER)



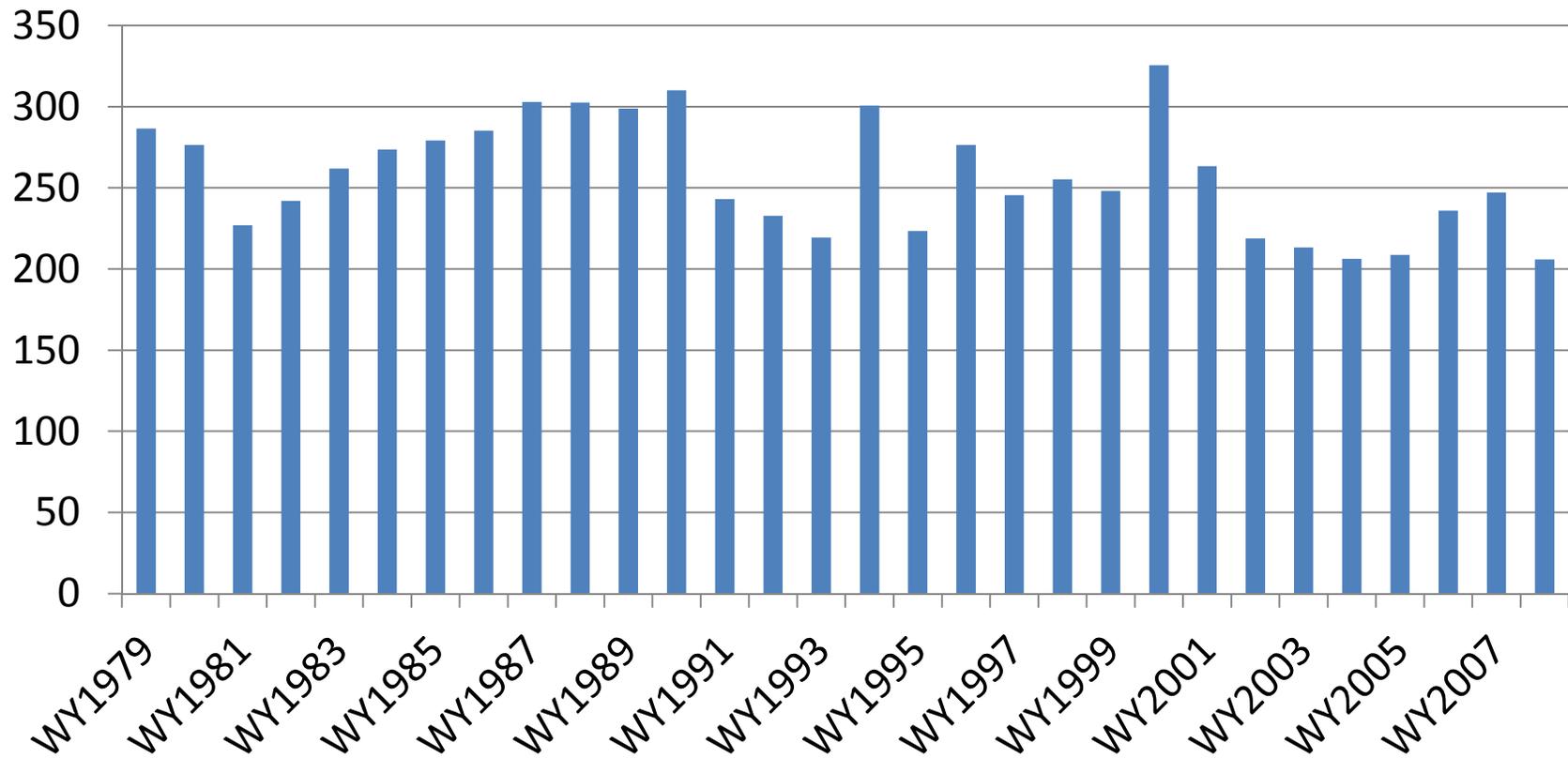
# IESW019 (Fort Hall)

(BEFORE)



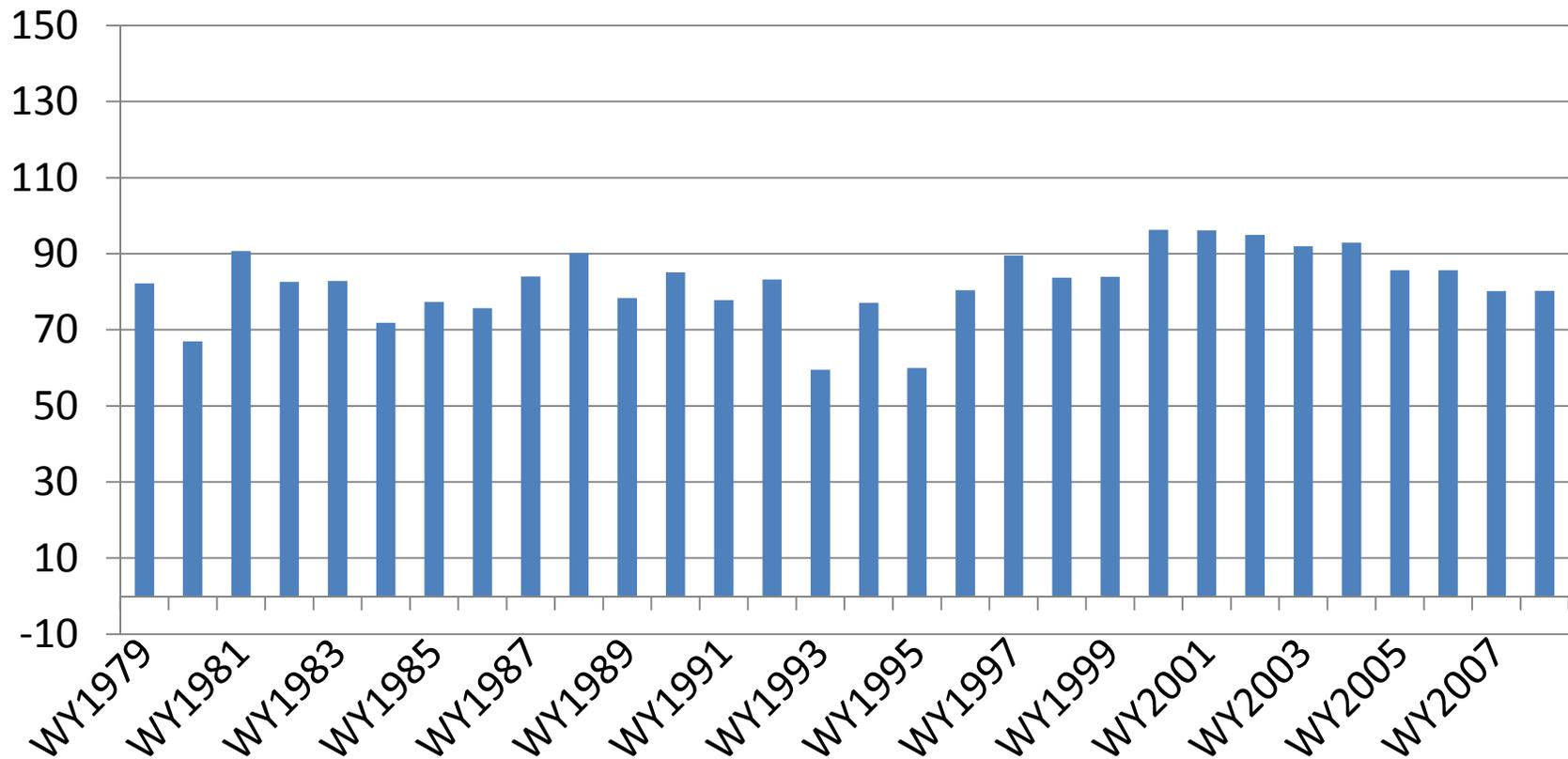
# IESW019 (Fort Hall)

(AFTER)



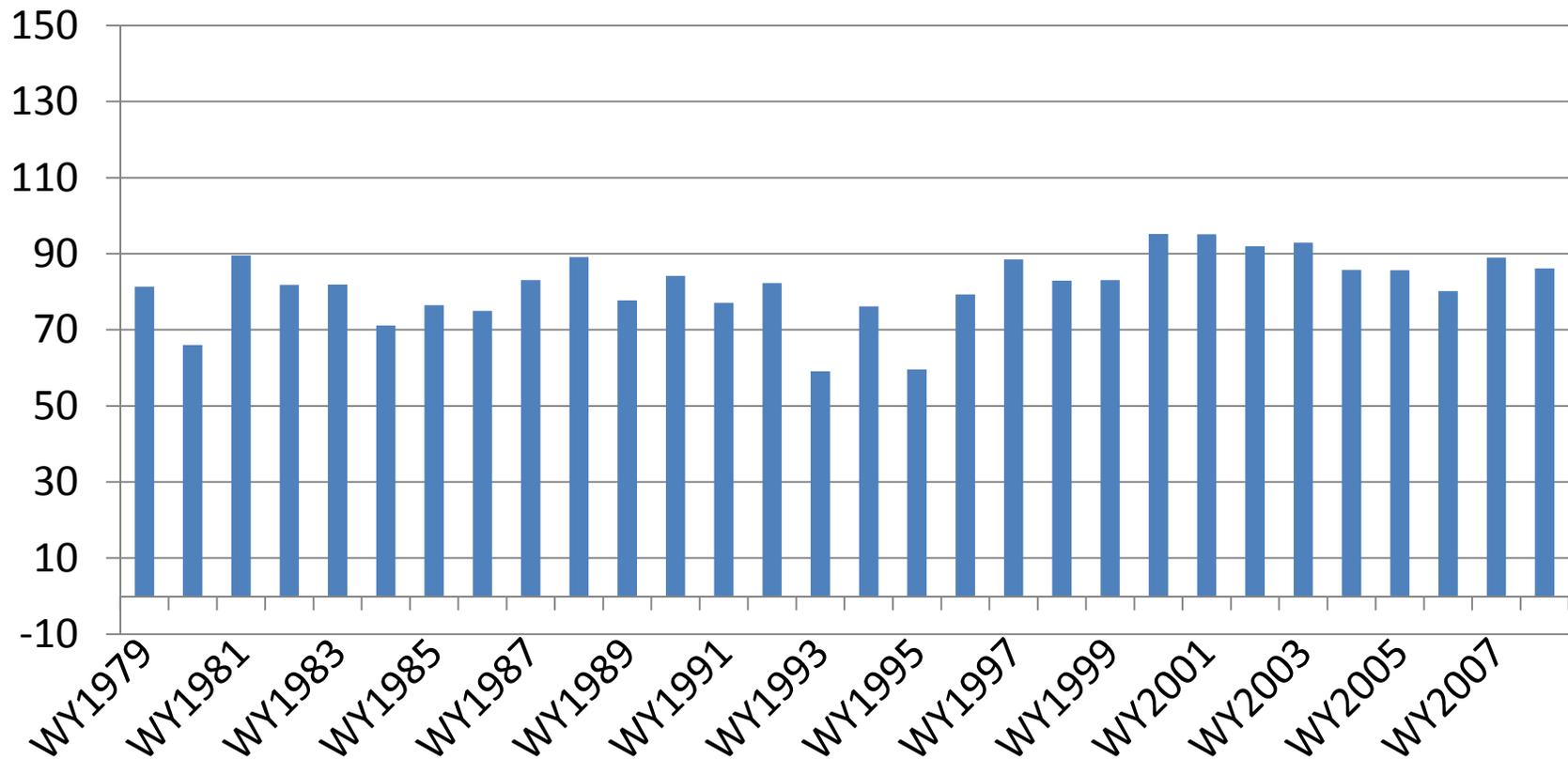
# IESW029 (Mud Lake)

**(BEFORE)**



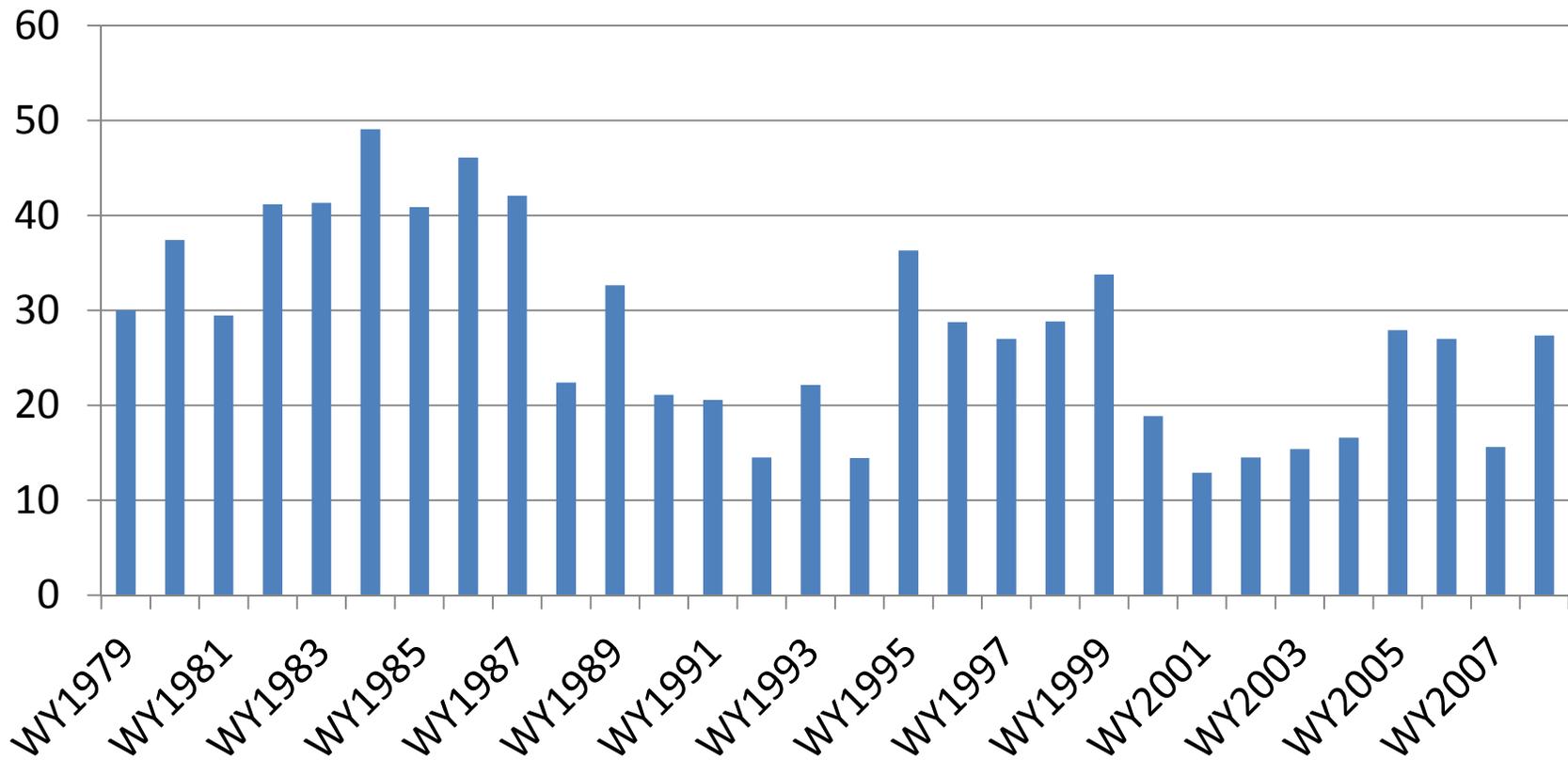
# IESW029 (Mud Lake)

(AFTER)



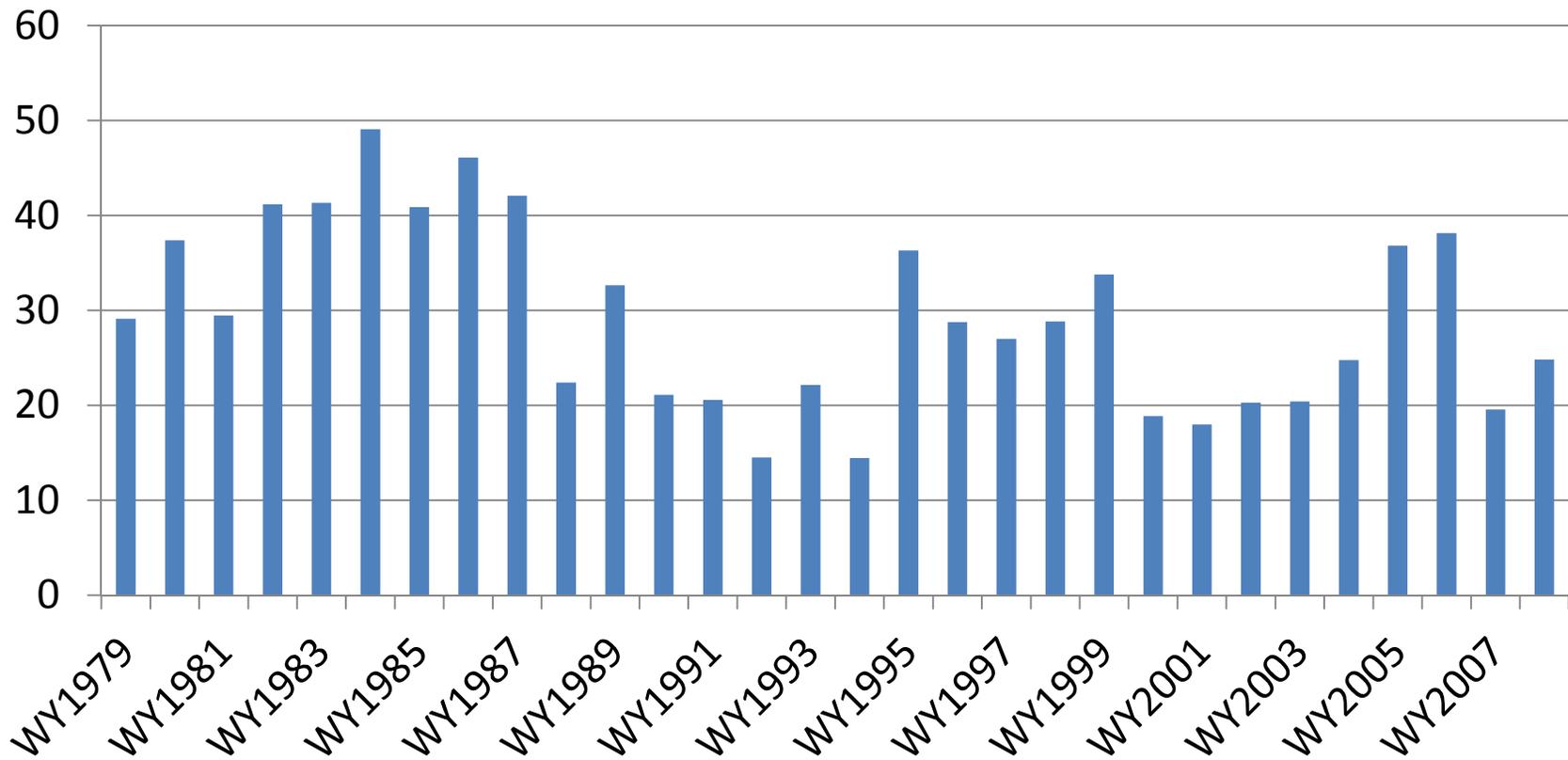
# IESW051 (Basin 31)

(BEFORE)



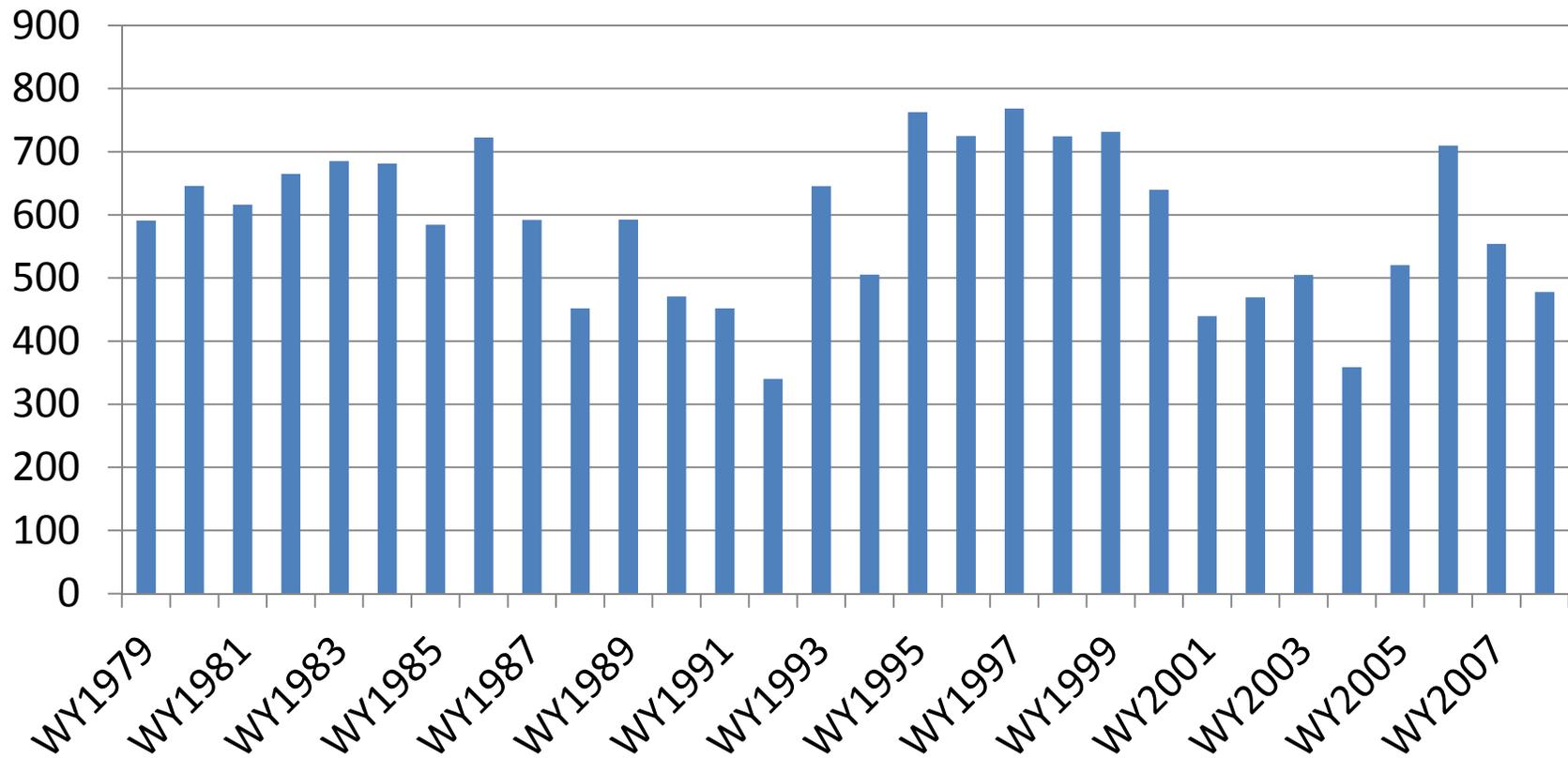
# IESW051 (Basin 31)

(AFTER)



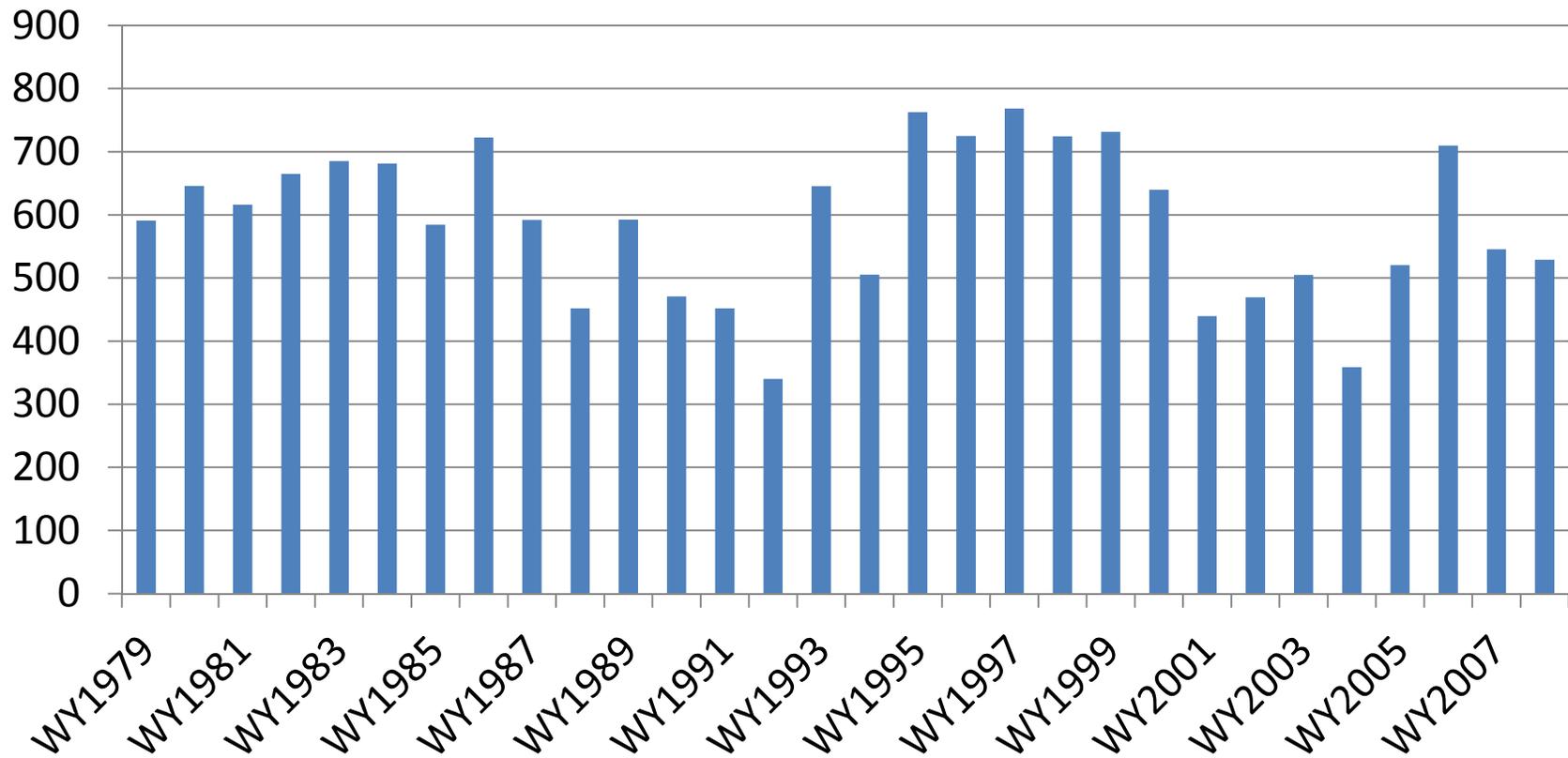
# IESW059 (Big and Little Wood)

(BEFORE)



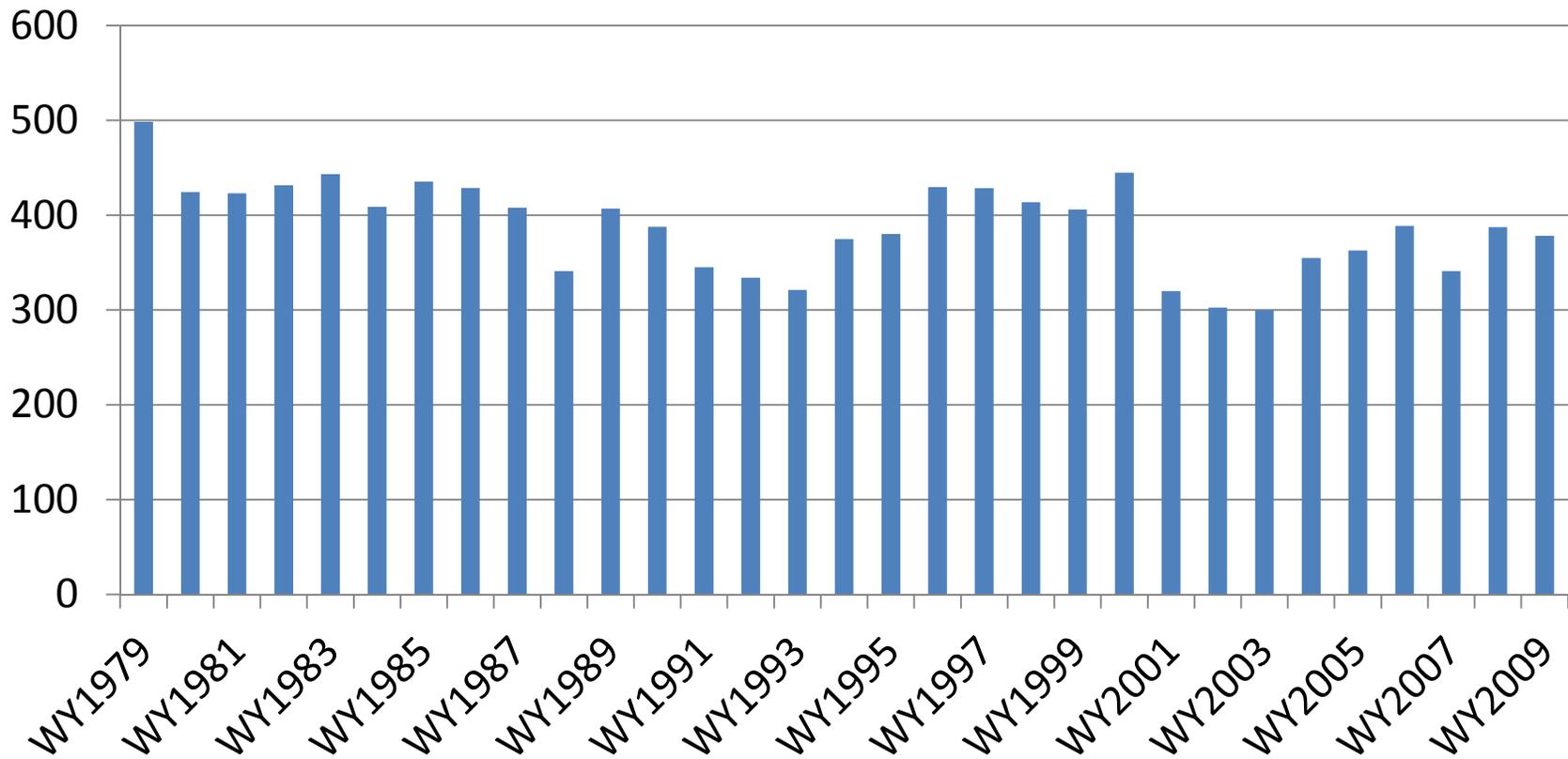
# IESW059 (Big and Little Wood)

(AFTER)



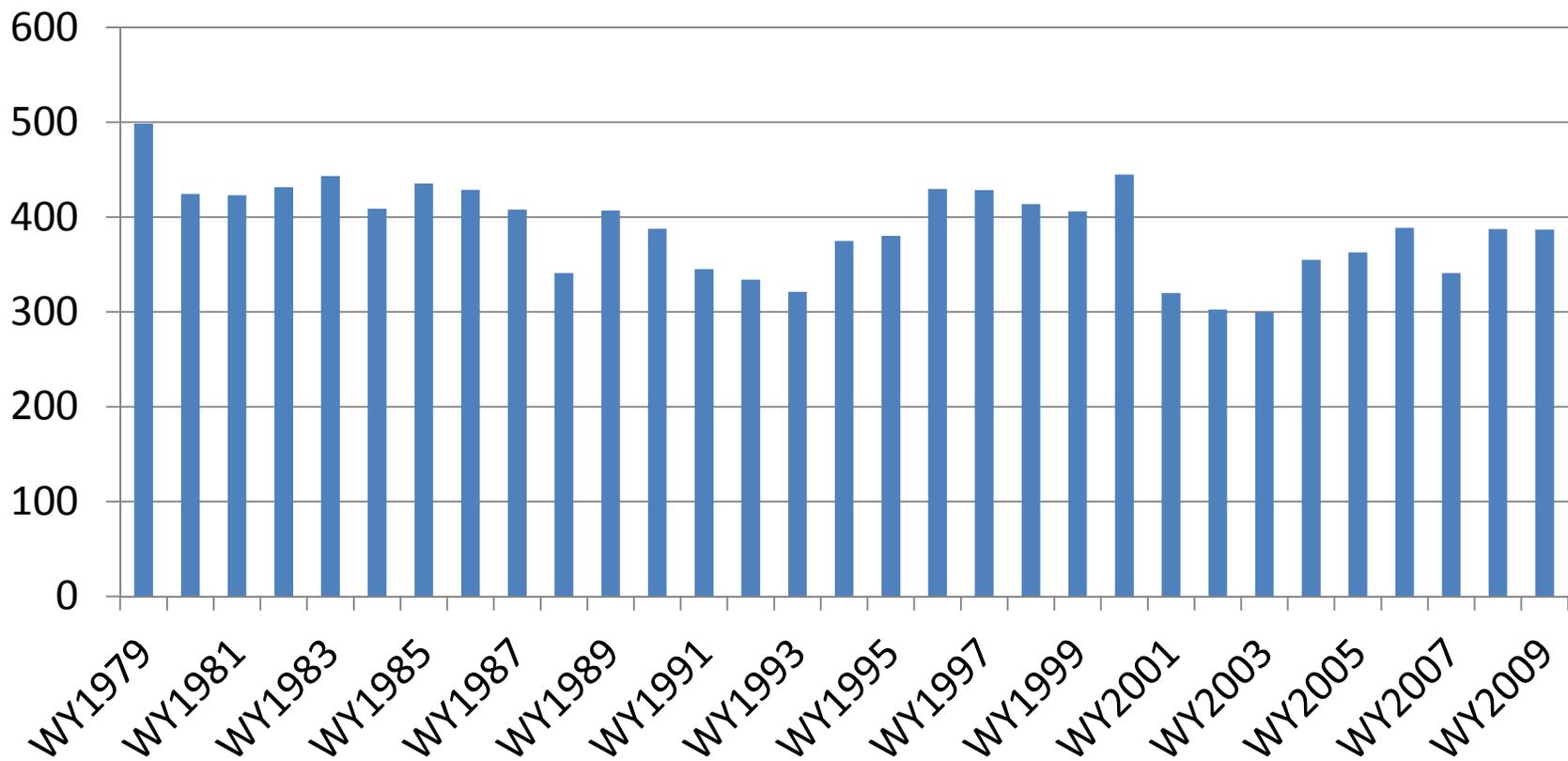
# IESW020 (Harrison)

(BEFORE)



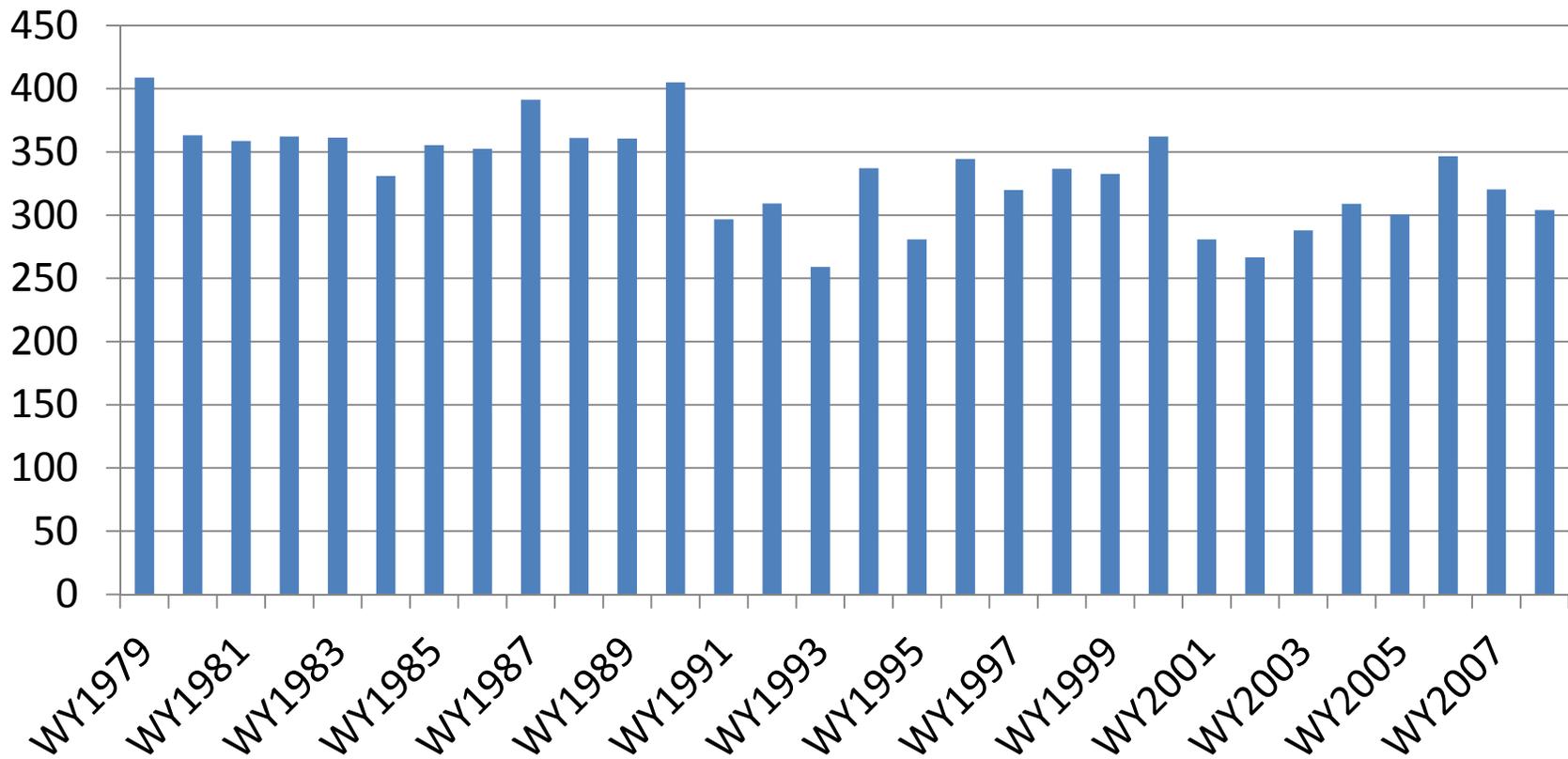
# IESW020 (Harrison)

(AFTER)



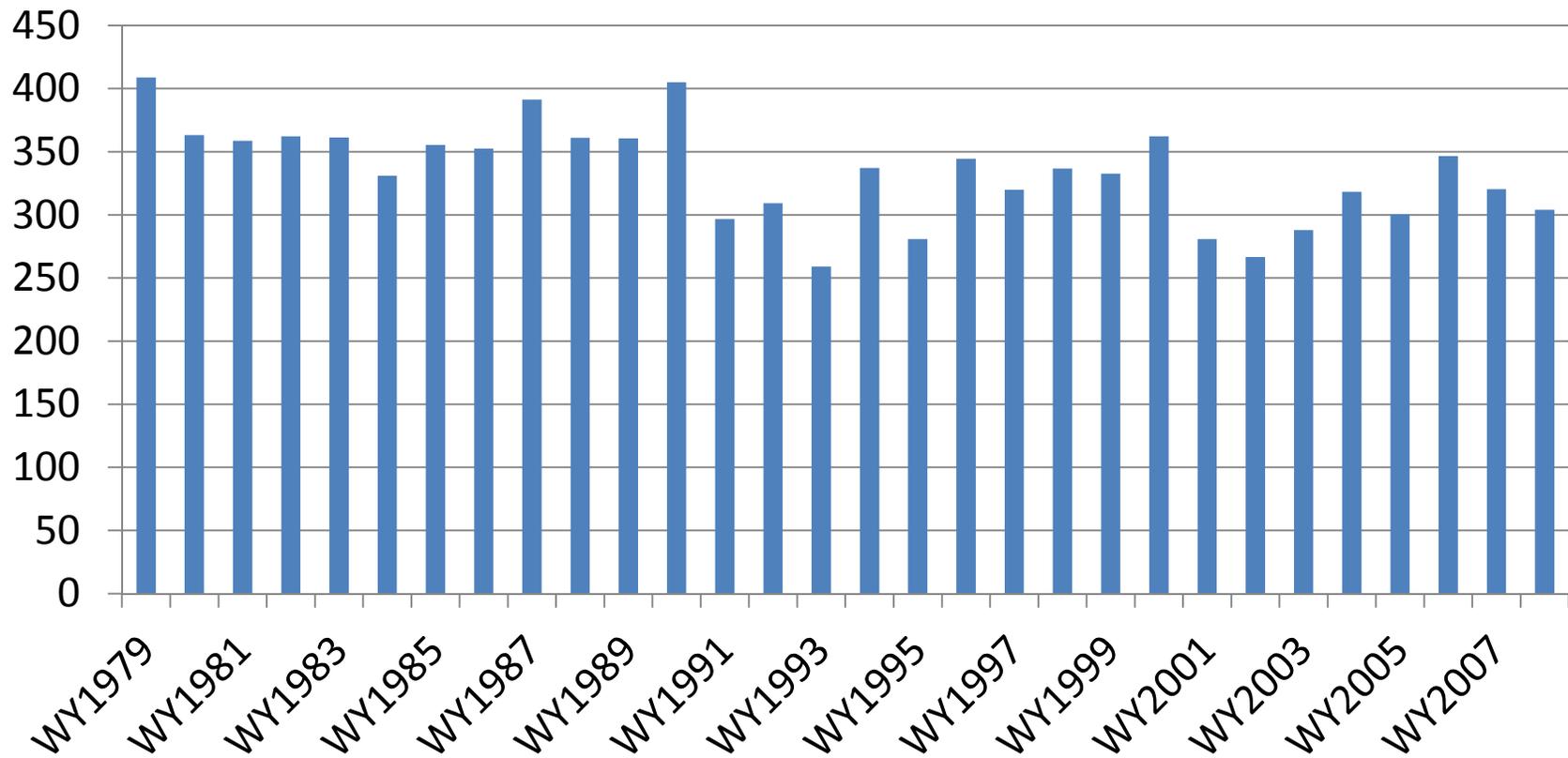
# IESW030 (New Sweden)

**(BEFORE)**



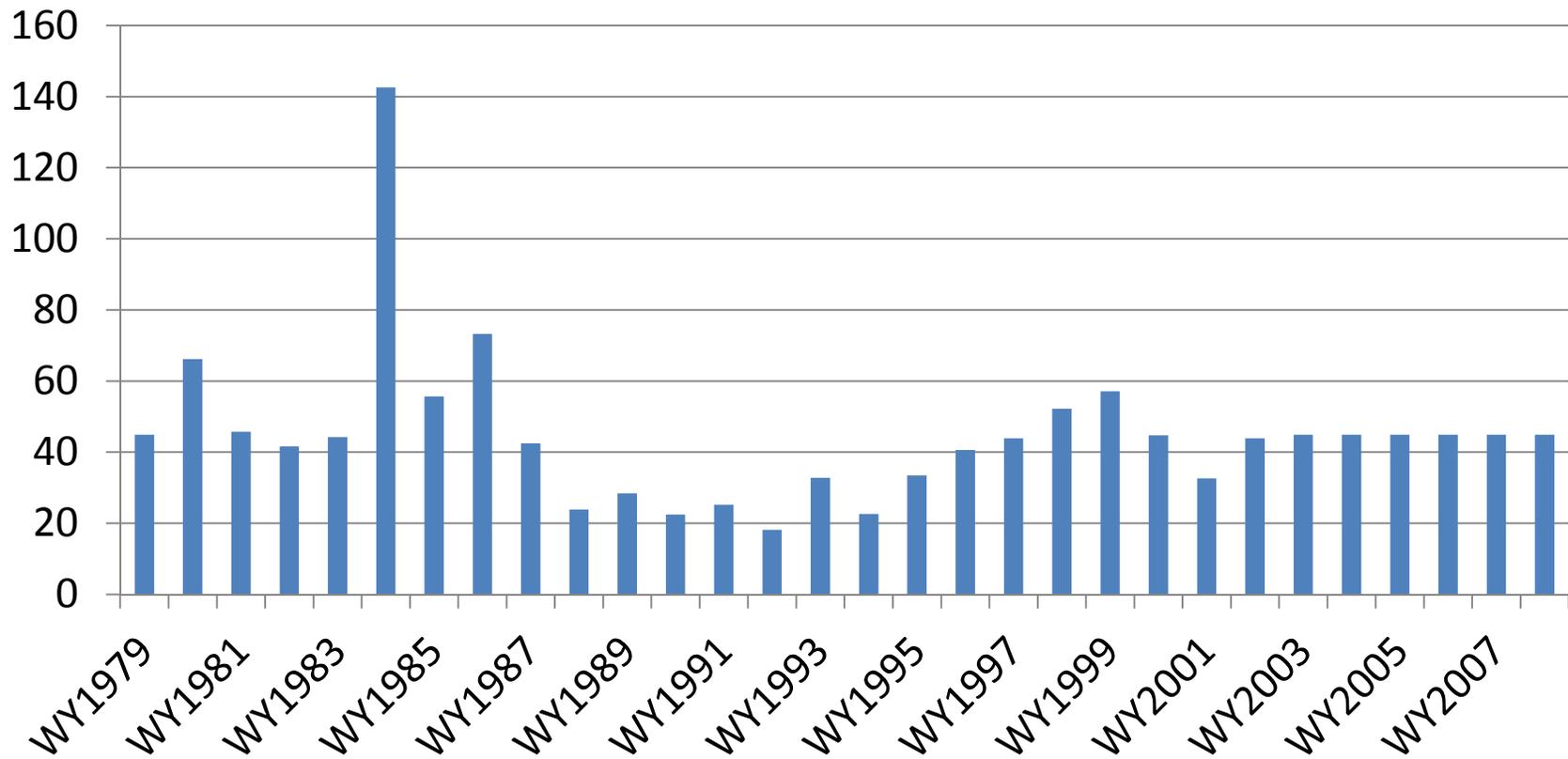
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(AFTER)



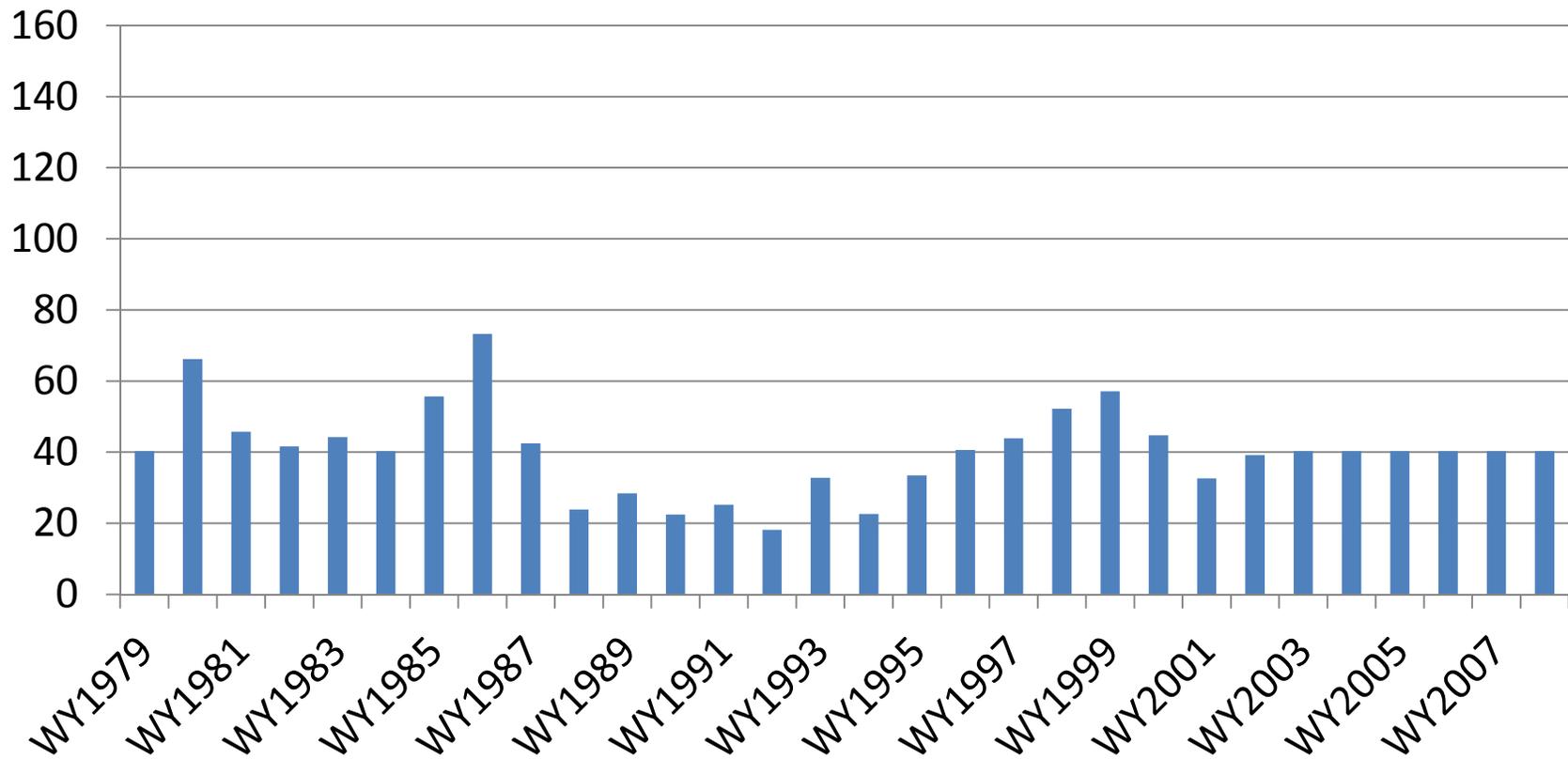
# IESW040 (Southwest)

(BEFORE)



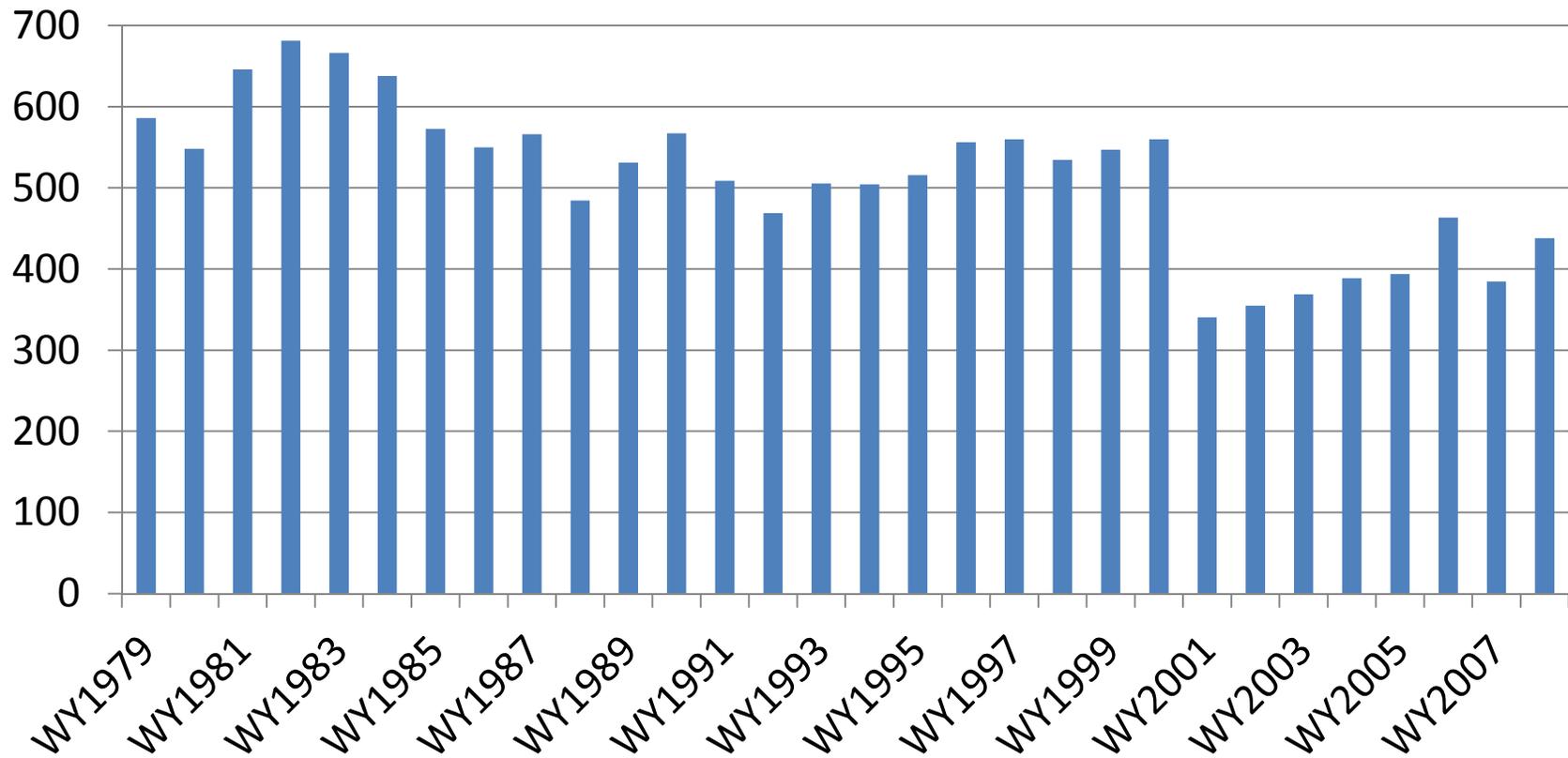
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(AFTER)



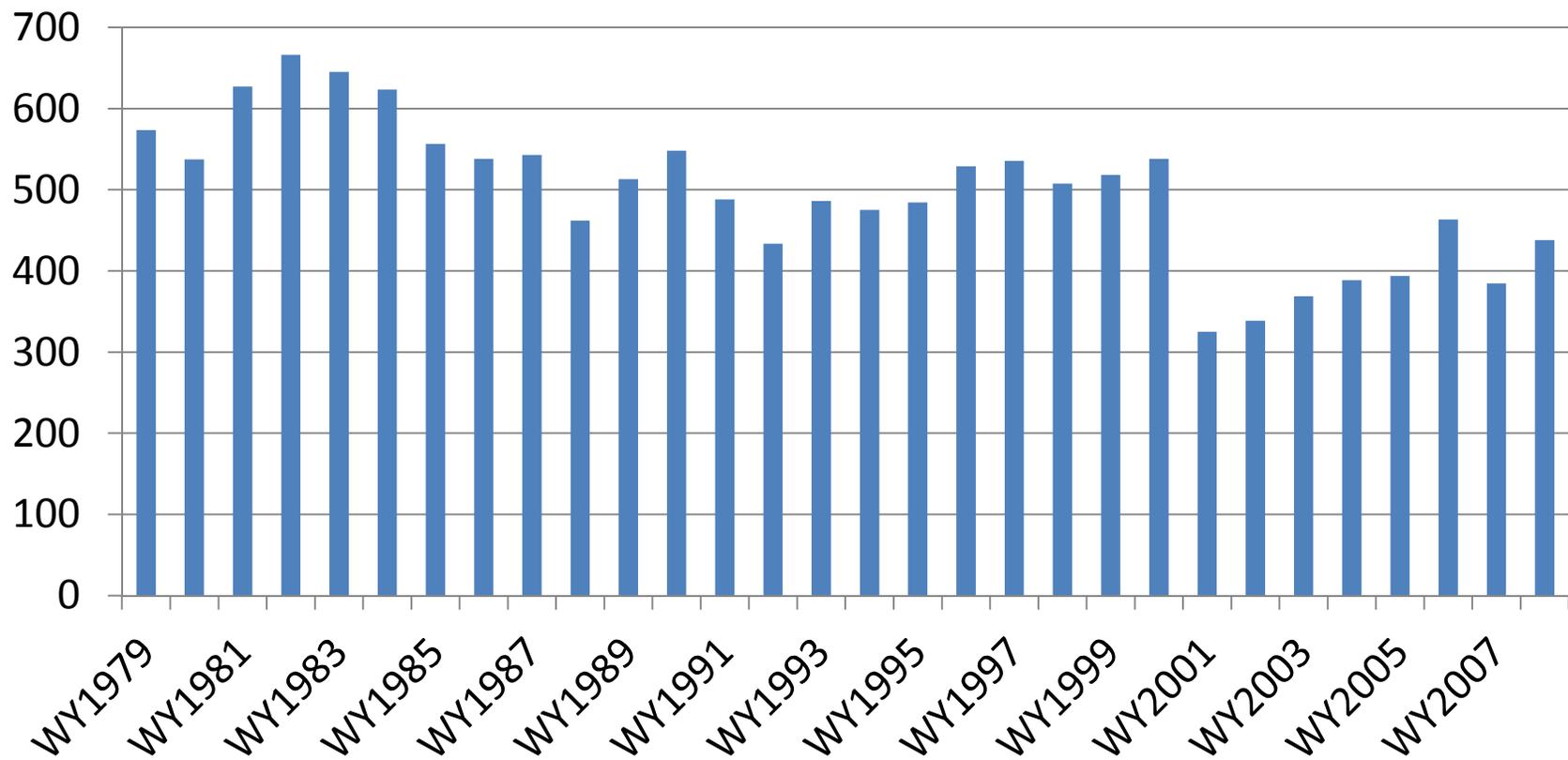
# IESW056 (Henrys Fork)

(BEFORE)



# IESW056 (Henrys Fork)

(AFTER)



Questions?