

FPC Adult Metadata

Definition of Terms and abbreviations

Adult Monitoring Sites

Site	Site Name	Location	Site	Site Name	Location
BON	Bonneville Dam	Columbia River	IHR	Ice Harbor Dam	Snake River
TDA	The Dalles Dam	Columbia River	LMN	Lower Monumental Dam	Snake River
JDA	John Day Dam	Columbia River	LGS	Little Goose Dam	Snake River
MCN	McNary Dam	Columbia River	LGR	Lower Granite Dam	Snake River
PRD	Priest Rapids Dam	Columbia River	WAN	Wanapum Dam	Columbia River
RIS	Rock Island Dam	Columbia River	WFA	Willamette Falls	Willamette River
RRH	Rocky Reach Dam	Columbia River			
WEL	Wells Dam	Columbia River			

Definition of Terms

Dates used to classify spring, summer and fall chinook

Dam	Spring Chinook (SP)	Summer Chinook (SU)	Fall Chinook (FA)
BON	05/31	06/01 to 07/31	08/01
TDA	06/03	06/04 to 08/03	08/04
JDA	06/05	06/06 to 08/05	08/06
MCN	06/08	06/09 to 08/08	08/09
IHR	06/11	06/12 to 08/11	08/12
LMN	06/13	06/14 to 08/13	08/14
LGS	06/15	06/16 to 08/15	08/16
LGR	06/17	06/18 to 08/17	08/18
PRD	06/13	06/14 to 08/13	08/14
RIS	06/17	06/18 to 08/17	08/18
RRH	06/19	06/20 to 08/19	08/20
WEL	06/28	06/29 to 08/28	08/29
WFA	08/15	none	08/16

Different dates may have been used in previous years, but all our current queries use these date designations for all year's data.

Abbreviation	Species	Notes
chin, CH	Chinook	Separated by adult/jack and by race
coho, CO	Coho	Separated by adult/jack
sock, SO	Sockeye	
steel, ST*	Steelhead	This includes clipped and unclipped steelhead
unclippedsteel, UST*	Unclipped Steelhead	This is a subset of steelhead
PK	Pink	
shad, SH	Shad	Counts stop on 08/31
CM	Chum	
MJ	Minijack	Salmonid fish under 12 inches in length
LA	Lamprey	
BT, btrout	Bull trout	Bull trout are now being counted as a target species starting March 2019. From March 2019 through April 2019, COE counted the bull trout. From May 2019 to the present day, an adult count contractor is counting and reporting the adult dam count data. Prior to March 2019, bull trout were counted as incidental fish counts.

Lifestage

AD	Adult	Only used for chinook and coho
JC	Jack	Only used for chinook and coho

Species

NOTES:

- For Historical Data (past years), there were days where no adult fish were counted at the ladders. On these days, we did not add a record to our database. If a zero count adult salmon date occurred during the counting season (varies by dam), then it can be assumed that there were zero fish counted for all adult salmon and steelhead species at the ladder in question.

- *Unclipped steelhead counts start in 1993. On 8/20/99, the steelhead counts for Well, Rock Island and Rocky Reach Dams were changed to reflect total steelhead instead of hatchery steelhead. This is consistent with the other Dams.
- Unclipped steelhead are a subset of steelhead. Unclipped steelhead are counted separately from hatchery steelhead at Corps dams on the Columbia and Snake Rivers. Unclipped steelhead are identified as fish with an intact adipose fin. However, a small number of hatchery fish may not have had their adipose fin removed.
- Adult Chinook are counted separately from jack Chinook. Adult Chinook are set at 22 inches or longer. Adult Coho are counted separately from jack Coho. Adult Coho are set at 18 inches or longer. Adipose fin clipped Chinook (adults and jacks) are counted separately from wild Chinook. Same for Coho. Same for Steelhead (except there are no adult and jack sizes in Steelhead).
- Since the year 2006, Priest Rapids Dam and Wanapum Dam jack counts have included mini jacks.
- Bull trout are now being counted as a target species starting March 2019. From March 2019 through April 2019, COE counted the bull trout. From May 2019 to the present day, an adult count contractor is counting and reporting the adult dam count data. Prior to March 2019, bull trout were counted as incidental fish counts.

Data Source

Current Year Data Sources Include:

- USACE is from [US Army Corps of Engineers](#) fish count pages; CHPUD is from [Chelan PUD](#); GCPUD is from [Grant PUD](#) and DGPUD is from [Douglas PUD](#) and DART is from the [University of Washington's Data Access in Real Time](#), WFA is imported from [ODFW's Willamette Falls](#) website.

Previous Years

- 1997 to present obtained from the Army Corp of Engineer's; report 91. 1977 to 1996's data was obtained from CRITFC.

Adult Salmon Dams' Counting Schedules

2019-20 Adult Salmon Dam Count Monitoring Dates

<u>Dam</u>	<u>Video Monitoring Dates</u>	<u>Direct Monitoring Dates</u>
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Bonneville Dam	Day: March 1 to March 31, 2019 Night: May 15 to September 30, 2019 Day: December 1, 2019 to February 29, 2020	April 1 to November 30, 2019
The Dalles Dam	Night: June 15 to September 30, 2019	April 1 to October 31, 2019
John Day Dam	Night: June 15 to September 30, 2019	April 1 to October 31, 2019
McNary Dam	Night: June 15 to September 30, 2019	April 1 to October 31, 2019
Ice Harbor Dam		April 1 to October 31, 2019
Lower Monumental Dam	Day: March 1 to March 31, 2019 Day: November 1, 2019 to February 29, 2020	April 1 to October 31, 2019
Little Goose Dam		April 1 to October 31, 2019
Lower Granite Dam	Day: March 1 to March 31, 2019 Night: June 1 to September 30, 2019 Day: November 1 to December 30, 2019	April 1 to October 31, 2019
Priest Rapids Dam	April 15 to November 15, 2019 (24 hr)	
Wanapum Dam	April 15 to November 15, 2019 (24 hr)	
Rock Island Dam	April 14 to November 15, 2019 (24 hr)	
Rocky Reach Dam	April 14 to November 15, 2019 (24 hr)	
Wells Dam	May 1 to November 15, 2019 (24 hr)	
Willamette Falls	count year round (24 hr)	

Dam	Historical (Direct) Observation Reporting Dates
Bonneville Dam	March 15 to November 15
The Dalles Dam	April 1 to October 31
John Day Dam	April 1 to October 31
McNary Dam	April 1 to October 31
Ice Harbor Dam	April 1 to October 31
Lower Monumental Dam	April 1 to October 31
Little Goose Dam	April 1 to October 31
Lower Granite Dam	March 1 to December 15
Priest Rapids Dam	April 15 to November 15
Rock Island Dam	April 15 to November 15
Rocky Reach Dam	April 15 to November 15
Wells Dam	May 1 to November 15

Willamette Falls	year round
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- The webpage: [/HistFishTwo_7day-ytd_Adults.htm reports](#) reports fish counts as soon as they become available from the US Army Corp of Engineers or from the PUD dams. The start and end days of counting as they vary by site and year. For a list of begin and end count dates for each year by site, scroll down to the “Data Available” table at the end of this document.
- Data for Priest Rapids (Grant Co PUD), Rock Island, Rocky Reach (Chelan PUD) and Wells (Douglas PUD) is downloaded directly from their websites and/or from DART.

2018-2019 Columbia and Snake River Fishway Outages

Dam	Dates Fishways are Closed
Bonneville Dam	<ul style="list-style-type: none"> • Bradford Island Fishway: Not Dewatering. • Cascades Island Fishway: Not Dewatering. • Washington Shore Fishway: December 3, 2018-February 27, 2019.
The Dalles Dam	<ul style="list-style-type: none"> • East Fish Fishway: December 4, 2018 - January 14, 2019. • North Fish Fishway: January 15, 2019 – February 28, 2019.
John Day Dam	<ul style="list-style-type: none"> • North Fish Fishway: December 3, 2018 – TBD. • South Fish Fishway: January 15, 2019 - February 28, 2019.
McNary Dam	<ul style="list-style-type: none"> • Washington Shore Fishway: January 1, 2019 – January 22, 2019. • Oregon Shore Fishway: January 23, 2019 - February 28, 2019.
Ice Harbor Dam	<ul style="list-style-type: none"> • North Shore Fishway: February 9, 2019 – February 28, 2019. • South Shore Fishway: January 1, 2019 - February 8, 2019.
Lower Monumental Dam	<ul style="list-style-type: none"> • North Shore Fishway: January 1, 2019—January 31, 2019. • South Shore Fishway: February 1, 2019 - February 28, 2019.
Little Goose Dam	<ul style="list-style-type: none"> • January 2, 2019 - February 28, 2019.
Lower Granite Dam	<ul style="list-style-type: none"> • January 1, 2019 – February 28, 2019
Priest Rapids Dam	<ul style="list-style-type: none"> • Left Bank Fishway: TBD • Right Bank Fishway: TBD
Wanapum Dam	<ul style="list-style-type: none"> • Left Bank Fishway: TBD

	<ul style="list-style-type: none"> • Right Bank Fishway: TBD
Rock Island Dam	<ul style="list-style-type: none"> • Right Bank Fishway: December 4, 2018 to TBD. • Left Bank Fishway: January 7, 2019 to January 28, 2019. • Middle Fishway: January 28, 2019 to TBD.
Rocky Reach Dam	<ul style="list-style-type: none"> • January 2, 2019 to TBD.
Wells Dam	<ul style="list-style-type: none"> • West Ladder: TBD • East Ladder: TBD

Data Collection Schedule and Methods

This information was obtained from the Army Corp of Engineer's Annual Fish Passage Report. All times given are in Pacific Standard Time. Where possible, 16 hour direct monitoring is used for the adult count. For dates not included, no monitoring was done. The current year's schedule is usually like the year before, unless the COE informs us otherwise.

The counting methods are the same at all the Corps counting stations. Counting occurs 16 hours a day (4 AM Pacific Standard Time to 8 PM Pacific Standard Time), 50 minutes each hour (the counts are multiplied by 1.2 to adjust them up to account for this 10 minute break each hour). Counting normally goes from April 1 through October 31 each year, but is frequently extended by requests, often from the Tribes or NOAA Fisheries. When it is extended, it is usually done by video.

- Interrogate videotape fish counts from 2000 to 0400 PST and only for the hourly 10 minute breaks during visual counting 0400 - 2000 PST.

Data Available

We collect adult dam fish count data as soon as they are available from the COE or from the PUD dams. Beginning and ending count dates vary by project and year. The following table, lists the beginning and ending count dates for each of the dams by year.

Dam	Year	Begin_Count_Date	End_Count_Date
BON	1938	5/7/1938	12/31/1938
BON	1939	1/2/1939	12/30/1939
BON	1940	1/4/1940	12/31/1940
BON	1941	1/2/1941	12/31/1941
BON	1942	1/21/1942	12/31/1942
BON	1943	1/1/1943	12/13/1943

BON	1944	1/3/1944	12/30/1944
BON	1945	1/1/1945	12/31/1945
BON	1946	1/1/1946	12/31/1946
BON	1947	1/1/1947	12/31/1947
BON	1948	1/1/1948	12/31/1948
BON	1949	1/1/1949	12/31/1949
BON	1950	1/1/1950	11/29/1950
BON	1951	3/1/1951	11/29/1951
BON	1952	3/1/1952	11/29/1952
BON	1953	3/1/1953	11/28/1953
BON	1954	2/28/1954	11/27/1954
BON	1955	2/28/1955	11/29/1955
BON	1956	3/1/1956	12/1/1956
BON	1957	3/1/1957	11/30/1957
BON	1958	3/2/1958	11/29/1958
BON	1959	3/1/1959	11/28/1959
BON	1960	3/1/1960	11/30/1960
BON	1961	3/1/1961	11/30/1961
BON	1962	3/1/1962	11/28/1962
BON	1963	3/1/1963	11/30/1963
BON	1964	3/1/1964	11/28/1964
BON	1965	3/1/1965	11/30/1965
BON	1966	3/11/1966	11/26/1966
BON	1967	3/1/1967	11/25/1967
BON	1968	3/4/1968	11/23/1968
BON	1969	3/2/1969	11/22/1969
BON	1970	3/1/1970	11/21/1970
BON	1971	3/1/1971	11/13/1971
BON	1972	3/15/1972	11/15/1972
BON	1973	3/15/1973	11/15/1973
BON	1974	3/15/1974	11/15/1974
BON	1975	3/15/1975	11/15/1975
BON	1976	3/15/1976	11/15/1976
BON	1977	3/15/1977	11/15/1977
BON	1978	3/15/1978	11/15/1978
BON	1979	3/15/1979	11/15/1979
BON	1980	3/15/1980	11/15/1980
BON	1981	3/15/1981	11/15/1981
BON	1982	3/15/1982	11/15/1982
BON	1983	3/15/1983	11/15/1983
BON	1984	3/15/1984	11/15/1984
BON	1985	3/15/1985	11/30/1985
BON	1986	3/4/1986	11/30/1986

BON	1987	3/1/1987	11/30/1987
BON	1988	3/1/1988	11/30/1988
BON	1989	3/1/1989	11/30/1989
BON	1990	3/15/1990	11/15/1990
BON	1991	3/15/1991	11/15/1991
BON	1992	3/15/1992	11/15/1992
BON	1993	3/15/1993	11/15/1993
BON	1994	3/15/1994	11/15/1994
BON	1995	3/15/1995	11/15/1995
BON	1996	3/15/1996	11/15/1996
BON	1997	3/15/1997	11/15/1997
BON	1998	3/15/1998	11/15/1998
BON	1999	3/15/1999	11/15/1999
BON	2000	3/15/2000	11/15/2000
BON	2001	3/15/2001	11/15/2001
BON	2002	1/1/2002	12/31/2002
BON	2003	1/1/2003	12/31/2003
BON	2004	1/1/2004	12/31/2004
BON	2005	1/1/2005	12/31/2005
BON	2006	1/1/2006	12/31/2006
BON	2007	1/1/2007	12/31/2007
BON	2008	1/1/2008	12/31/2008
BON	2009	1/1/2009	12/31/2009
BON	2010	1/1/2010	12/31/2010
BON	2011	1/1/2011	12/31/2011
BON	2012	1/1/2012	12/31/2012
BON	2013	1/1/2013	12/31/2013
BON	2014	1/1/2014	12/31/2014
BON	2015	1/1/2015	12/31/2015
BON	2016	1/1/2016	12/31/2016
BON	2017	1/1/2017	12/31/2017
BON	2018	1/1/2018	12/31/2018
IHR	1962	4/1/1962	10/31/1962
IHR	1963	4/1/1963	12/31/1963
IHR	1964	1/1/1964	12/31/1964
IHR	1965	1/1/1965	11/30/1965
IHR	1966	4/1/1966	10/31/1966
IHR	1967	4/2/1967	10/31/1967
IHR	1968	4/1/1968	12/31/1968
IHR	1969	1/1/1969	12/6/1969
IHR	1970	4/1/1970	12/31/1970
IHR	1971	3/1/1971	10/31/1971
IHR	1972	4/1/1972	10/31/1972

IHR	1973	4/1/1973	10/31/1973
IHR	1974	4/1/1974	10/31/1974
IHR	1975	4/1/1975	10/31/1975
IHR	1976	4/1/1976	10/31/1976
IHR	1977	4/1/1977	10/31/1977
IHR	1978	4/1/1978	11/30/1978
IHR	1979	3/9/1979	11/28/1979
IHR	1980	3/1/1980	11/30/1980
IHR	1981	3/1/1981	11/30/1981
IHR	1982	3/1/1982	10/31/1982
IHR	1983	4/1/1983	10/31/1983
IHR	1984	4/1/1984	10/31/1984
IHR	1985	3/1/1985	10/31/1985
IHR	1986	3/15/1986	10/31/1986
IHR	1987	4/1/1987	10/31/1987
IHR	1988	4/1/1988	10/31/1988
IHR	1989	4/1/1989	10/31/1989
IHR	1990	4/1/1990	10/31/1990
IHR	1991	4/1/1991	10/31/1991
IHR	1992	4/1/1992	10/31/1992
IHR	1993	4/1/1993	10/31/1993
IHR	1994	4/1/1994	10/31/1994
IHR	1995	4/1/1995	10/31/1995
IHR	1996	4/1/1996	10/31/1996
IHR	1997	4/1/1997	12/15/1997
IHR	1998	4/1/1998	10/31/1998
IHR	1999	4/1/1999	10/31/1999
IHR	2000	4/1/2000	10/31/2000
IHR	2001	4/1/2001	10/31/2001
IHR	2002	1/1/2002	12/31/2002
IHR	2003	1/1/2003	12/31/2003
IHR	2004	1/1/2004	12/31/2004
IHR	2005	3/1/2005	10/31/2005
IHR	2006	3/1/2006	10/31/2006
IHR	2007	3/1/2007	10/31/2007
IHR	2008	4/1/2008	10/31/2008
IHR	2009	4/1/2009	10/31/2009
IHR	2010	4/1/2010	10/31/2010
IHR	2011	4/1/2011	10/31/2011
IHR	2012	4/1/2012	10/31/2012
IHR	2013	4/1/2013	12/31/2013
IHR	2014	1/1/2014	10/31/2014
IHR	2015	4/1/2015	10/31/2015

IHR	2016	4/1/2016	10/31/2016
IHR	2017	4/1/2017	10/31/2017
IHR	2018	4/1/2018	10/31/2018
JDA	1968	4/20/1968	11/9/1968
JDA	1969	4/1/1969	10/25/1969
JDA	1970	4/5/1970	10/24/1970
JDA	1971	4/1/1971	10/23/1971
JDA	1972	4/1/1972	10/31/1972
JDA	1973	4/1/1973	10/31/1973
JDA	1974	4/1/1974	10/31/1974
JDA	1975	4/1/1975	10/31/1975
JDA	1976	4/1/1976	10/31/1976
JDA	1977	4/1/1977	10/31/1977
JDA	1978	4/1/1978	10/31/1978
JDA	1979	4/1/1979	11/13/1979
JDA	1980	4/1/1980	10/31/1980
JDA	1981	4/1/1981	10/31/1981
JDA	1982	4/1/1982	10/31/1982
JDA	1983	4/1/1983	10/31/1983
JDA	1984	4/1/1984	11/10/1984
JDA	1985	4/1/1985	11/30/1985
JDA	1986	3/4/1986	10/31/1986
JDA	1987	4/1/1987	10/31/1987
JDA	1988	4/1/1988	10/31/1988
JDA	1989	4/1/1989	10/31/1989
JDA	1990	4/1/1990	10/31/1990
JDA	1991	4/1/1991	10/31/1991
JDA	1992	4/1/1992	10/31/1992
JDA	1993	4/1/1993	10/31/1993
JDA	1994	4/1/1994	10/31/1994
JDA	1995	4/1/1995	10/31/1995
JDA	1996	4/1/1996	10/31/1996
JDA	1997	4/1/1997	10/31/1997
JDA	1998	4/1/1998	10/31/1998
JDA	1999	4/1/1999	10/31/1999
JDA	2000	4/1/2000	10/31/2000
JDA	2001	4/1/2001	10/31/2001
JDA	2002	1/1/2002	12/31/2002
JDA	2003	1/1/2003	12/31/2003
JDA	2004	1/1/2004	12/31/2004
JDA	2005	2/22/2005	12/5/2005
JDA	2006	2/20/2006	12/4/2006
JDA	2007	2/21/2007	12/7/2007

JDA	2008	4/1/2008	10/31/2008
JDA	2009	4/1/2009	10/31/2009
JDA	2010	4/1/2010	10/31/2010
JDA	2011	4/1/2011	10/31/2011
JDA	2012	4/1/2012	10/31/2012
JDA	2013	4/1/2013	12/31/2013
JDA	2014	4/1/2014	10/31/2014
JDA	2015	1/1/2015	10/31/2015
JDA	2016	4/1/2016	10/31/2016
JDA	2017	4/1/2017	10/31/2017
JDA	2018	4/1/2018	10/31/2018
LGR	1975	3/19/1975	12/31/1975
LGR	1976	1/1/1976	12/14/1976
LGR	1977	2/1/1977	12/31/1977
LGR	1978	1/1/1978	12/31/1978
LGR	1979	1/1/1979	12/14/1979
LGR	1980	3/1/1980	11/30/1980
LGR	1981	3/1/1981	12/15/1981
LGR	1982	3/1/1982	12/14/1982
LGR	1983	3/1/1983	12/15/1983
LGR	1984	3/1/1984	11/30/1984
LGR	1985	3/1/1985	12/15/1985
LGR	1986	3/1/1986	12/13/1986
LGR	1987	3/1/1987	12/15/1987
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LGR	1996	3/1/1996	12/15/1996
LGR	1997	3/1/1997	12/15/1997
LGR	1998	3/1/1998	12/15/1998
LGR	1999	3/3/1999	12/15/1999
LGR	2000	3/1/2000	12/15/2000
LGR	2001	3/1/2001	12/15/2001
LGR	2002	1/1/2002	12/31/2002
LGR	2003	1/1/2003	12/31/2003
LGR	2004	1/1/2004	12/31/2004
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LGR	2006	3/1/2006	12/15/2006

LGR	2007	3/1/2007	12/31/2007
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LGR	2009	3/3/2009	12/31/2009
LGR	2010	3/1/2010	12/31/2010
LGR	2011	3/1/2011	12/30/2011
LGR	2012	3/1/2012	12/15/2012
LGR	2013	3/1/2013	12/30/2013
LGR	2014	3/1/2014	12/31/2014
LGR	2015	3/5/2015	12/31/2015
LGR	2016	3/1/2016	12/31/2016
LGR	2017	3/1/2017	12/31/2017
LGR	2018	3/1/2018	12/31/2018
LGS	1970	3/1/1970	12/31/1970
LGS	1971	3/1/1971	12/31/1971
LGS	1972	1/2/1972	12/31/1972
LGS	1973	1/2/1973	12/31/1973
LGS	1974	1/1/1974	12/31/1974
LGS	1975	1/2/1975	10/31/1975
LGS	1976	4/1/1976	10/31/1976
LGS	1977	4/1/1977	10/31/1977
LGS	1978	4/1/1978	10/31/1978
LGS	1979	4/1/1979	10/31/1979
LGS	1980	4/1/1980	10/31/1980
LGS	1981	4/1/1981	10/31/1981
LGS	1982	3/1/1982	11/30/1982
LGS	1983	3/15/1983	12/15/1983
LGS	1984	3/15/1984	11/30/1984
LGS	1985	3/1/1985	12/15/1985
LGS	1986	3/15/1986	12/13/1986
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LGS	1990	3/1/1990	12/15/1990
LGS	1991	4/15/1991	12/15/1991
LGS	1992	4/15/1992	11/30/1992
LGS	1993	4/15/1993	11/30/1993
LGS	1994	4/15/1994	11/30/1994
LGS	1995	4/1/1995	10/31/1995
LGS	1996	4/1/1996	10/31/1996
LGS	1997	4/1/1997	10/31/1997
LGS	1998	4/1/1998	10/31/1998
LGS	1999	4/1/1999	10/31/1999
LGS	2000	4/1/2000	10/31/2000

LGS	2001	4/1/2001	10/31/2001
LGS	2002	1/1/2002	12/31/2002
LGS	2003	1/1/2003	12/31/2003
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LGS	2005	4/1/2005	10/31/2005
LGS	2006	4/1/2006	10/31/2006
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LGS	2011	4/1/2011	10/31/2011
LGS	2012	4/1/2012	10/31/2012
LGS	2013	4/1/2013	10/31/2013
LGS	2014	4/1/2014	10/31/2014
LGS	2015	4/1/2015	10/31/2015
LGS	2016	3/1/2016	12/31/2016
LGS	2017	4/1/2017	10/31/2017
LGS	2018	4/1/2018	10/31/2018
LMN	1969	2/28/1969	12/31/1969
LMN	1970	1/2/1970	12/31/1970
LMN	1971	3/1/1971	10/31/1971
LMN	1972	4/1/1972	10/31/1972
LMN	1973	4/1/1973	10/31/1973
LMN	1974	4/1/1974	10/31/1974
LMN	1975	4/1/1975	10/31/1975
LMN	1976	4/1/1976	10/31/1976
LMN	1977	4/1/1977	10/31/1977
LMN	1978	4/1/1978	10/31/1978
LMN	1979	4/1/1979	10/31/1979
LMN	1980	4/1/1980	10/31/1980
LMN	1981	4/1/1981	10/31/1981
LMN	1982	4/1/1982	10/31/1982
LMN	1983	4/1/1983	10/31/1983
LMN	1984	4/1/1984	10/31/1984
LMN	1985	4/1/1985	10/31/1985
LMN	1986	4/1/1986	10/31/1986
LMN	1987	4/1/1987	10/31/1987
LMN	1988	4/1/1988	10/31/1988
LMN	1989	4/1/1989	10/31/1989
LMN	1990	4/1/1990	10/31/1990
LMN	1991	4/1/1991	10/31/1991
LMN	1992	4/1/1992	10/31/1992
LMN	1993	4/1/1993	11/30/1993

LMN	1994	4/1/1994	10/31/1994
LMN	1995	4/1/1995	10/31/1995
LMN	1996	4/1/1996	10/31/1996
LMN	1997	4/1/1997	10/31/1997
LMN	1998	4/1/1998	10/31/1998
LMN	1999	4/1/1999	10/31/1999
LMN	2000	4/1/2000	10/31/2000
LMN	2001	4/1/2001	10/31/2001
LMN	2002	1/1/2002	12/31/2002
LMN	2003	1/1/2003	12/31/2003
LMN	2004	1/1/2004	12/31/2004
LMN	2005	4/1/2005	10/31/2005
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LMN	2009	4/1/2009	10/31/2009
LMN	2010	4/1/2010	10/31/2010
LMN	2011	4/1/2011	10/31/2011
LMN	2012	4/1/2012	10/31/2012
LMN	2013	4/1/2013	10/31/2013
LMN	2014	3/1/2014	12/31/2014
LMN	2015	1/1/2015	10/31/2015
LMN	2016	4/1/2016	10/31/2016
LMN	2017	4/1/2017	10/31/2017
LMN	2018	4/1/2018	10/31/2018
MCN	1954	3/15/1954	11/30/1954
MCN	1955	1/1/1955	12/31/1955
MCN	1956	1/1/1956	11/30/1956
MCN	1957	3/17/1957	10/19/1957
MCN	1958	1/1/1958	10/31/1958
MCN	1959	4/1/1959	10/31/1959
MCN	1960	4/1/1960	10/31/1960
MCN	1961	4/1/1961	10/31/1961
MCN	1962	4/1/1962	10/31/1962
MCN	1963	4/1/1963	10/31/1963
MCN	1964	4/1/1964	10/31/1964
MCN	1965	4/1/1965	10/31/1965
MCN	1966	4/1/1966	10/31/1966
MCN	1967	4/2/1967	10/31/1967
MCN	1968	4/1/1968	10/31/1968
MCN	1969	4/1/1969	10/31/1969
MCN	1970	4/1/1970	10/31/1970
MCN	1971	4/1/1971	10/31/1971

MCN	1972	4/1/1972	10/31/1972
MCN	1973	4/1/1973	10/31/1973
MCN	1974	4/1/1974	10/31/1974
MCN	1975	4/1/1975	10/31/1975
MCN	1976	4/1/1976	10/31/1976
MCN	1977	4/1/1977	10/31/1977
MCN	1978	4/1/1978	11/30/1978
MCN	1979	3/2/1979	11/30/1979
MCN	1980	3/1/1980	11/30/1980
MCN	1981	3/2/1981	11/29/1981
MCN	1982	3/1/1982	10/31/1982
MCN	1983	4/1/1983	10/31/1983
MCN	1984	4/1/1984	11/9/1984
MCN	1985	3/1/1985	10/31/1985
MCN	1986	3/15/1986	10/31/1986
MCN	1987	4/1/1987	10/31/1987
MCN	1988	4/1/1988	10/31/1988
MCN	1989	4/1/1989	10/31/1989
MCN	1990	4/1/1990	10/31/1990
MCN	1991	4/1/1991	12/15/1991
MCN	1992	4/1/1992	10/31/1992
MCN	1993	4/1/1993	10/31/1993
MCN	1994	4/1/1994	10/31/1994
MCN	1995	4/1/1995	10/31/1995
MCN	1996	4/1/1996	10/31/1996
MCN	1997	4/1/1997	10/31/1997
MCN	1998	4/1/1998	10/31/1998
MCN	1999	4/1/1999	10/31/1999
MCN	2000	4/1/2000	10/31/2000
MCN	2001	4/1/2001	10/31/2001
MCN	2002	1/1/2002	12/31/2002
MCN	2003	1/1/2003	12/31/2003
MCN	2004	1/1/2004	12/31/2004
MCN	2005	3/1/2005	12/31/2005
MCN	2006	3/1/2006	12/31/2006
MCN	2007	3/2/2007	12/31/2007
MCN	2008	4/1/2008	10/31/2008
MCN	2009	4/1/2009	10/31/2009
MCN	2010	4/1/2010	10/31/2010
MCN	2011	4/1/2011	10/31/2011
MCN	2012	3/1/2012	12/31/2012
MCN	2013	1/1/2013	10/31/2013
MCN	2014	4/1/2014	10/31/2014

MCN	2015	4/1/2015	10/31/2015
MCN	2016	4/1/2016	10/31/2016
MCN	2017	3/1/2017	12/31/2017
MCN	2018	4/1/2018	10/31/2018
PRD	1962	4/16/1962	10/31/1962
PRD	1963	4/16/1963	10/31/1963
PRD	1964	4/16/1964	10/31/1964
PRD	1965	4/16/1965	10/31/1965
PRD	1966	4/16/1966	10/28/1966
PRD	1967	4/16/1967	10/28/1967
PRD	1968	4/16/1968	10/28/1968
PRD	1969	4/22/1969	10/30/1969
PRD	1970	4/20/1970	10/29/1970
PRD	1971	4/26/1971	10/29/1971
PRD	1972	4/24/1972	10/31/1972
PRD	1973	4/16/1973	10/29/1973
PRD	1974	4/25/1974	10/26/1974
PRD	1975	4/29/1975	10/25/1975
PRD	1976	4/28/1976	10/26/1976
PRD	1977	4/12/1977	10/20/1977
PRD	1978	4/20/1978	10/30/1978
PRD	1979	4/28/1979	10/26/1979
PRD	1980	4/1/1980	11/15/1980
PRD	1981	4/1/1981	11/29/1981
PRD	1982	4/2/1982	11/27/1982
PRD	1983	4/1/1983	11/30/1983
PRD	1984	4/1/1984	11/29/1984
PRD	1985	4/1/1985	11/30/1985
PRD	1986	4/15/1986	11/30/1986
PRD	1987	4/16/1987	11/30/1987
PRD	1988	4/16/1988	11/30/1988
PRD	1989	4/16/1989	11/15/1989
PRD	1990	4/15/1990	11/15/1990
PRD	1991	4/16/1991	11/15/1991
PRD	1992	4/17/1992	11/15/1992
PRD	1993	4/16/1993	11/15/1993
PRD	1994	4/15/1994	11/15/1994
PRD	1995	4/15/1995	11/15/1995
PRD	1996	4/19/1996	11/16/1996
PRD	1997	4/19/1997	11/15/1997
PRD	1998	4/15/1998	11/15/1998
PRD	1999	4/17/1999	11/15/1999
PRD	2000	4/15/2000	11/15/2000

PRD	2001	4/15/2001	11/15/2001
PRD	2002	1/1/2002	12/31/2002
PRD	2003	1/1/2003	12/31/2003
PRD	2004	4/1/2004	11/30/2004
PRD	2005	4/15/2005	11/15/2005
PRD	2006	4/15/2006	11/15/2006
PRD	2007	4/15/2007	11/15/2007
PRD	2008	4/15/2008	11/15/2008
PRD	2009	4/15/2009	11/15/2009
PRD	2010	4/15/2010	11/15/2010
PRD	2011	4/15/2011	11/15/2011
PRD	2012	4/15/2012	11/15/2012
PRD	2013	4/15/2013	11/15/2013
PRD	2014	4/15/2014	11/15/2014
PRD	2015	4/15/2015	11/15/2015
PRD	2016	4/15/2016	11/15/2016
PRD	2017	4/15/2017	11/15/2017
PRD	2018	4/15/2018	11/15/2018
RIS	1977	4/26/1977	11/15/1977
RIS	1978	4/27/1978	11/7/1978
RIS	1979	4/26/1979	11/9/1979
RIS	1980	4/18/1980	11/10/1980
RIS	1981	4/18/1981	11/18/1981
RIS	1982	4/17/1982	11/15/1982
RIS	1983	4/15/1983	11/15/1983
RIS	1984	4/25/1984	11/4/1984
RIS	1985	4/23/1985	11/15/1985
RIS	1986	4/22/1986	11/15/1986
RIS	1987	4/22/1987	11/15/1987
RIS	1988	4/18/1988	11/15/1988
RIS	1989	4/17/1989	11/15/1989
RIS	1990	4/18/1990	11/15/1990
RIS	1991	4/16/1991	11/15/1991
RIS	1992	4/15/1992	11/14/1992
RIS	1993	4/14/1993	11/15/1993
RIS	1994	4/13/1994	11/15/1994
RIS	1995	4/14/1995	11/14/1995
RIS	1996	4/15/1996	11/15/1996
RIS	1997	4/16/1997	11/14/1997
RIS	1998	4/17/1998	11/14/1998
RIS	1999	4/14/1999	11/14/1999
RIS	2000	4/14/2000	11/14/2000
RIS	2001	4/14/2001	11/14/2001

RIS	2002	1/1/2002	12/31/2002
RIS	2003	1/1/2003	12/31/2003
RIS	2004	4/1/2004	11/30/2004
RIS	2005	4/14/2005	11/14/2005
RIS	2006	4/14/2006	11/14/2006
RIS	2007	4/14/2007	11/15/2007
RIS	2008	4/14/2008	11/15/2008
RIS	2009	4/14/2009	11/15/2009
RIS	2010	4/14/2010	11/15/2010
RIS	2011	4/14/2011	11/15/2011
RIS	2012	4/14/2012	11/15/2012
RIS	2013	4/14/2013	11/15/2013
RIS	2014	4/14/2014	11/15/2014
RIS	2015	4/14/2015	11/15/2015
RIS	2016	4/14/2016	11/15/2016
RIS	2017	4/14/2017	11/15/2017
RIS	2018	4/14/2018	11/15/2018
RRH	1977	4/26/1977	12/11/1977
RRH	1978	4/27/1978	11/30/1978
RRH	1979	4/26/1979	11/15/1979
RRH	1980	4/18/1980	11/20/1980
RRH	1981	4/18/1981	11/29/1981
RRH	1982	4/17/1982	11/15/1982
RRH	1983	4/15/1983	11/15/1983
RRH	1984	4/25/1984	11/15/1984
RRH	1985	4/23/1985	11/24/1985
RRH	1986	4/22/1986	11/15/1986
RRH	1987	4/22/1987	11/15/1987
RRH	1988	4/18/1988	11/15/1988
RRH	1989	4/17/1989	11/15/1989
RRH	1990	4/18/1990	11/15/1990
RRH	1991	4/16/1991	11/15/1991
RRH	1992	4/16/1992	11/15/1992
RRH	1993	4/16/1993	11/15/1993
RRH	1994	4/16/1994	11/15/1994
RRH	1995	4/16/1995	11/15/1995
RRH	1996	4/15/1996	11/15/1996
RRH	1997	4/16/1997	11/14/1997
RRH	1998	4/16/1998	11/14/1998
RRH	1999	4/15/1999	11/14/1999
RRH	2000	4/14/2000	11/14/2000
RRH	2001	4/15/2001	11/14/2001
RRH	2002	1/1/2002	12/31/2002

RRH	2003	1/1/2003	12/31/2003
RRH	2004	4/14/2004	11/30/2004
RRH	2005	4/14/2005	11/14/2005
RRH	2006	4/14/2006	11/14/2006
RRH	2007	4/14/2007	11/15/2007
RRH	2008	4/14/2008	11/15/2008
RRH	2009	4/14/2009	11/15/2009
RRH	2010	4/14/2010	11/15/2010
RRH	2011	4/14/2011	11/15/2011
RRH	2012	4/14/2012	11/15/2012
RRH	2013	4/14/2013	11/15/2013
RRH	2014	4/14/2014	11/15/2014
RRH	2015	4/14/2015	11/15/2015
RRH	2016	4/14/2016	11/15/2016
RRH	2017	4/14/2017	11/15/2017
RRH	2018	4/14/2018	11/15/2018
TDA	1957	3/17/1957	11/30/1957
TDA	1958	3/9/1958	11/29/1958
TDA	1959	3/31/1959	11/28/1959
TDA	1960	4/5/1960	11/30/1960
TDA	1961	4/1/1961	10/28/1961
TDA	1962	4/1/1962	10/27/1962
TDA	1963	4/1/1963	10/26/1963
TDA	1964	3/29/1964	10/24/1964
TDA	1965	3/28/1965	10/23/1965
TDA	1966	2/27/1966	10/22/1966
TDA	1967	4/2/1967	10/28/1967
TDA	1968	3/31/1968	11/9/1968
TDA	1969	4/1/1969	10/25/1969
TDA	1970	4/5/1970	10/24/1970
TDA	1971	4/1/1971	10/23/1971
TDA	1972	4/1/1972	10/21/1972
TDA	1973	4/1/1973	10/31/1973
TDA	1974	4/1/1974	10/31/1974
TDA	1975	4/1/1975	10/31/1975
TDA	1976	4/1/1976	10/31/1976
TDA	1977	4/1/1977	10/31/1977
TDA	1978	4/1/1978	10/31/1978
TDA	1979	4/1/1979	11/9/1979
TDA	1980	4/1/1980	10/31/1980
TDA	1981	4/1/1981	10/31/1981
TDA	1982	4/1/1982	10/31/1982
TDA	1983	4/1/1983	10/31/1983

TDA	1984	4/1/1984	10/31/1984
TDA	1985	4/1/1985	11/30/1985
TDA	1986	3/4/1986	10/31/1986
TDA	1987	4/1/1987	10/31/1987
TDA	1988	4/1/1988	10/31/1988
TDA	1989	4/1/1989	11/30/1989
TDA	1990	3/1/1990	10/31/1990
TDA	1991	4/1/1991	10/31/1991
TDA	1992	4/1/1992	10/31/1992
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TDA	1994	4/1/1994	10/31/1994
TDA	1995	4/1/1995	10/31/1995
TDA	1996	4/1/1996	10/31/1996
TDA	1997	4/1/1997	10/31/1997
TDA	1998	4/1/1998	10/31/1998
TDA	1999	4/1/1999	10/31/1999
TDA	2000	4/1/2000	10/31/2000
TDA	2001	4/1/2001	10/31/2001
TDA	2002	1/1/2002	12/31/2002
TDA	2003	1/1/2003	12/31/2003
TDA	2004	1/1/2004	12/31/2004
TDA	2005	2/22/2005	12/5/2005
TDA	2006	2/20/2006	12/4/2006
TDA	2007	2/20/2007	12/7/2007
TDA	2008	4/1/2008	10/31/2008
TDA	2009	4/1/2009	10/31/2009
TDA	2010	4/1/2010	10/31/2010
TDA	2011	4/1/2011	10/31/2011
TDA	2012	3/1/2012	12/30/2012
TDA	2013	1/1/2013	10/31/2013
TDA	2014	4/1/2014	10/31/2014
TDA	2015	4/1/2015	10/31/2015
TDA	2016	4/1/2016	10/31/2016
TDA	2017	3/1/2017	12/31/2017
TDA	2018	3/1/2018	12/31/2018
WAN	2006	4/16/2006	11/15/2006
WAN	2007	4/15/2007	11/15/2007
WAN	2008	4/15/2008	11/15/2008
WAN	2009	4/15/2009	11/15/2009
WAN	2010	4/15/2010	11/15/2010
WAN	2011	4/15/2011	11/15/2011
WAN	2012	4/15/2012	11/15/2012
WAN	2013	4/15/2013	11/15/2013

WAN	2014	4/15/2014	11/15/2014
WAN	2015	4/15/2015	11/15/2015
WAN	2016	4/15/2016	11/15/2016
WAN	2017	4/15/2017	11/15/2017
WAN	2018	4/15/2018	11/15/2018
WEL	1977	5/1/1977	11/15/1977
WEL	1978	5/1/1978	10/31/1978
WEL	1979	5/1/1979	11/15/1979
WEL	1980	5/1/1980	11/22/1980
WEL	1981	5/1/1981	11/22/1981
WEL	1982	5/3/1982	11/22/1982
WEL	1983	5/1/1983	11/30/1983
WEL	1984	5/1/1984	11/25/1984
WEL	1985	5/1/1985	11/15/1985
WEL	1986	5/1/1986	11/14/1986
WEL	1987	5/1/1987	11/13/1987
WEL	1988	5/1/1988	10/31/1988
WEL	1989	5/2/1989	10/31/1989
WEL	1990	5/1/1990	11/7/1990
WEL	1991	5/1/1991	11/15/1991
WEL	1992	5/1/1992	11/15/1992
WEL	1993	5/1/1993	11/8/1993
WEL	1994	5/1/1994	11/15/1994
WEL	1995	5/2/1995	10/31/1995
WEL	1996	5/5/1996	11/15/1996
WEL	1997	5/1/1997	11/15/1997
WEL	1998	5/10/1998	11/14/1998
WEL	1999	5/1/1999	11/30/1999
WEL	2000	4/15/2000	11/28/2000
WEL	2001	4/3/2001	11/15/2001
WEL	2002	1/1/2002	12/31/2002
WEL	2003	1/1/2003	12/31/2003
WEL	2004	5/1/2004	11/30/2004
WEL	2005	5/1/2005	11/15/2005
WEL	2006	5/1/2006	11/15/2006
WEL	2007	5/1/2007	11/15/2007
WEL	2008	5/1/2008	11/15/2008
WEL	2009	5/1/2009	11/15/2009
WEL	2010	5/1/2010	11/15/2010
WEL	2011	5/1/2011	11/15/2011
WEL	2012	5/1/2012	11/15/2012
WEL	2013	5/1/2013	11/15/2013
WEL	2014	5/1/2014	11/15/2014

WEL	2015	5/1/2015	11/15/2015
WEL	2016	5/1/2016	11/15/2016
WEL	2017	5/1/2017	11/15/2017
WEL	2018	5/1/2018	11/15/2018
WFA	2000	1/1/2000	12/31/2000
WFA	2001	1/1/2001	12/31/2001
WFA	2002	1/1/2002	12/31/2002
WFA	2003	1/1/2003	12/31/2003
WFA	2004	1/1/2004	12/31/2004
WFA	2005	1/1/2005	12/31/2005
WFA	2006	1/1/2006	12/31/2006
WFA	2007	1/1/2007	12/31/2007
WFA	2008	1/1/2008	12/29/2008
WFA	2009	1/1/2009	12/31/2009
WFA	2010	1/1/2010	12/30/2010
WFA	2011	1/1/2011	12/31/2011
WFA	2012	1/1/2012	12/31/2012
WFA	2013	1/1/2013	12/31/2013
WFA	2014	1/1/2014	12/31/2014
WFA	2015	1/1/2015	12/31/2015
WFA	2016	1/1/2016	12/31/2016
WFA	2017	1/1/2017	12/31/2017
WFA	2018	1/1/2018	12/31/2018

How Frequently Data are updated

The data is updated Monday through Friday during the season. However, several of the sites are several days behind in reporting, but the data is reported by the Army Corp of Engineers as zero. So where zeros appear across all rows, the data should be considered as "not yet available."