

UNITED STATES DEPARTMENT OF COMMERCE

NATIONAL WEATHER SERVICE

5020 Federal Office Building
Cincinnati, Ohio 45202

ICE IN THE OHIO RIVER AT CINCINNATI 1974 THROUGH 1988

Ice has appeared in the Ohio River at Cincinnati in 74 of the past 111 winters since 1874, 37 winters (33.0%) having been without ice, while the formation of ice is directly related to the temperature of the water which must be at or near freezing, the official minimum atmospheric temperatures at Cincinnati have averaged as follows: with the occurrence of light ice 13°, heavy ice 9°, frozen 3°.

Light floating ice has usually been followed in about one day by heavy floating ice; and the river has usually frozen over after about three days of heavy ice. Actually, however, considerable quantities of light ice have appeared 71 times and heavy ice followed it only 54 times; while heavy ice appeared 15 times without light ice preceding it. The river has frozen over in only 14 winters in the 111 years of record, always following heavy or gorged ice.

	<u>Earliest ice of record</u>	<u>Latest ice of record</u>	<u>Number of days Earliest to Latest</u>
Light ice	December 6	March 9	94
Heavy ice	December 9	March 2	84
Frozen over	December 10	February 23	76
Gorged	December 10	March 1	82
Navigation Suspended	December 9	March 5	87

Total number of days with ice by months and percentage of the total occurring in each month:

	<u>December</u>		<u>January</u>		<u>February</u>		<u>March</u>		<u>Total Number of days</u>
	<u>Days</u>	<u>%</u>	<u>Days</u>	<u>%</u>	<u>Days</u>	<u>%</u>	<u>Days</u>	<u>%</u>	
Light ice	72	12	305	50	221	36	10	2	612
Heavy ice	84	16	251	46	207	38	2	0	544
Frozen over	11	8	65	50	55	42	0	0	131
Gorged	59	29	100	51	38	19	1	1	198
Total all kinds*	230	15%	721	49%	521	35%	13	1%	1485

* Not including Navigation Suspended
which would be duplication

Navigation Suspended	109	19%	286	49%	177	30%	9	2%	581
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The longest continuous periods of ice have been as follows:

Light ice	January 1 to 23, 1887.....	23 days
	January 20 to February 8, 1888.....	20 days
	February 12 to 28, 1901.....	17 days
Heavy ice	February 1 to 20, 1875.....	20 days
	January 17 to February 3, 1978.....	18 days
	January 9 to 22, 1905.....	14 days
Frozen over	January 14 to 28, 1893.....	15 days
	February 10 to 23, 1895.....	14 days
	February 1 to 12, 1948.....	12 days
Gorged	December 17, 1917 to February 12, 1918.....	58 days
	December 15, 1876 to January 14, 1877.....	31 days
	February 11 to 28, 1905.....	18 days
	January 5 to 21, 1904.....	17 days
Navigation Suspended	December 10, 1917 to February 12, 1918.....	65 days
	December 14, 1903 to February 7, 1904.....	56 days
	December 9, 1876 to January 17, 1877.....	40 days
	January 25 to March 3, 1905.....	38 days

As the navigation dams increase in size, the deeper and larger pools retard somewhat the formation of ice in the river. Before the completion of Dam 37 at Fernbank, Ohio, the Cincinnati stages were frequently as low as five feet. After 1936 the stage at Cincinnati was rarely less than eleven feet; and, since January 1, 1963 Warsaw-Markland Dam has maintained a stage of more than 25 feet at the Cincinnati gage.

Character and dates of ice from 1874 through 1985 follow:

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1874-1875	Jan. 7,8,9,13, 14,16,17,30. Feb.21.	Jan. 10,11,12, 18,19. Feb.1, 2,3,4,5,6,7,8, 9,10,11,12,13, 14,15,16,17, 18,19,20.		Jan. 20,21 22,23,24, 25,26,27, 28.	Jan. 11,12, 19,20,21, 22,23,24, 25,26,27, 28. Feb.4, 6,7,8,9, 10,11,12,13, 14,15,16,17, 18,19,20.
1875-1876	No ice				
1876-1877	Jan. 17,18.	Dec. 9,12,13, 14. Jan. 15,16.		Dec. 10,11, 15,16,17, 18,19,20, 21,22,23, 24,25,26, 27,28,29 30,31. Jan. 1,2, 3,4,5,6, 7,8,9,10, 11,12,13, 14.	Dec. 9,10, 11,12,13, 14,15,16, 17,18,19, 20,21,22, 23,24,25, 26,27,28, 29,30,31. Jan. 1,2, 3,4,5,6, 7,8,9,10, 11,12,13, 14,15,16, 17.
1877-1878	Jan. 7,9,10 11,12.	Jan. 8.			Jan. 8.
1878-1879	Dec. 23, Jan. 19,23, 25,26,27, Feb. 2,14, 18,19,22, 23.	Dec. 24,25, 26,27,28,29, 30,31. Jan. 1, 14,15,16,17, 18,20,21,22, 24,28,29. Feb. 20,21.	Jan. 4,5, 6,7,8,9, 10,11,12, 13.	Jan. 2,3, 4,5,6,7, 8,9,10,11, 12,13.	Dec. 24,25, 26,27,28, 29,30,31. Jan. 2,3,4, 5,6,7,8,9, 10,11,12, 13,14,20, 21, Feb 20.
1879-1880	No ice				

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1880-1881	Dec. 25,26,27. Jan. 13,14,15 16,17,18,19, 20,22,26,28. Feb. 7,8,9,10, 11,13,15.	Dec. 28. Jan. 8,9,10,11,12, 27,29,30,31. Feb. 1,2,3,4, 5,6,14.	Dec. 30,31, Jan. 1,2,3, 4,5,6,7.	Dec. 29. Jan. 21,	Dec. 29,30, 31. Jan. 1, 2,3,4,5,6, 7,8,9,10, 11,12.	
1881-1882	No ice					
1882-1883	Dec. 8,9,20. Jan. 13,14, 16,17,21,26 27,28,29.	Dec. 16,17, 18,19. Jan. 15. Feb. 7, 8.				
1883-1884	Jan. 7,10,11 12,14,15,16, 17,18,19,20, 21,22,23,24, 26,28,29,30, 31. Feb. 1.	Dec. 24. Jan. 8,9,13,25.			Jan. 7,8,9, 10,11.	
1884-1885	Dec. 24,27 29,30. Jan. 2,3,5,6,7,8, 25,26,30,31 Feb. 1,2,3, 6,11,12,15, 16,27. Mar. 1,2,3,4,8,9.	Dec. 25,27 28. Jan. 27, 28,29. Feb 13,14,17,18, 19,20,21,22, 23,24,25,26, 28.			Feb. 13,14, 17,18,19,20, 21,22,23,24, 25,26,27,28. Mar. 1,2,3, 4,5.	
1885-1886	Jan. 12,13, 21,22. Feb. 3,4,5,6,7, 8,9,10.	Jan. 14,15, 16,17,18, 19,20.				
1886-1887	Jan. 1,2,3, 4,5,6,7,8,9, 10,11,12,13, 14,15,16,17, 18,19,20,21, 22,23.				Jan. 5,6,7.	

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1887-1888	Dec. 29,30,31 Jan. 1,2,3,4, 5,6,7,8,20,21, 22,23,24,25, 26,27,28,29, 30,31. Feb. 1, 2,3,4,5,6,7,8.					
1888-1889	No ice					
1889-1890	No ice					
1890-1891	No ice					
1891-1892	No ice					
1892-1893		Dec.28,29. Jan. 29,30.	Jan. 6,7,14, 15,16,17,18 19,20,21,22, 23,24,25,26, 27,28.	Jan. 7,8, 9,10,11, 12,13,21.		Dec. 28,29. Jan. 6,7,8, 9,10,14,15, 16,17,18,19, 20,21,22,23, 24,25,26,27, 28,29,30,31. Feb. 1,2,3.
1893-1894	No ice					
1894-1895	Dec. 29. Jan. 1.	Dec. 30,31. Jan. 2,3,4, 5,28,29,30, 31. Feb. 1, 2,3,4,5,6, 7,26,27,28.	Feb. 10,11, 12,13,14,15, 16,17,18,19 20,21,22,23.	Feb. 8,9, 24,25.		Feb. 6,7,8, 9,10,11,12, 13,14,15,16, 17,18,19,20, 21,22,23,24, 25,26.
1895-1896	Jan. 6. Feb. 21					
1896-1897	Feb. 6	Jan. 25,26, 27,28,29,30 31. Feb. 1,2,4.		Jan. 31. Feb. 1,3, 4.		Jan. 25,26, 27,28,29,30, 31. Feb. 1,3,4.
1897-1898	Jan. 3,4, Feb. 3,5,6.	Feb. 4.				

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898-1899	Dec. 8. Feb. 2,3,9.		Dec. 14,15,16, Feb. 1,10,11, 12,13,15,16,17.			Dec. 14. Feb. 1,13, 14,15,16,17.
899-1900	Dec. 29. Jan. 7,9,12,13,14 16,17.		Dec. 30. Jan. 1, 2,3,4,5,6,8,15.			Jan. 1,2,3, 4,5,6,7,8.
900-1901	Jan. 31. Feb. 12,13,14,15, 16,17,18,19, 20,21,22,23, 24,25,26,27,28.					
901-1902	Dec. 18,19, Jan. 20,21,22, 23,24,25,26. Feb. 21,22,23, 24,25.		Jan. 13,14,15, 16,17,18,19. Feb. 8,9,10, 11,12,13,14,15, 16,17,18,19,20.			Jan. 17,18, 19. Feb. 9,10, 11,12,13,14, 15,16,17,18,19, 20.
902-1903	Jan. 11,23.		Jan.12,13,14, 15,16,17,18, 19,20,21,22.			Jan. 12,13, 14,15,16,17.
903-1904	Dec. 6,8,25. Jan. 29,30,31. Feb. 1,24,26, 27,28,29.		Dec. 14,15,21, 22,23,24,29 30,31. Jan. 1, 2,3,4,22,23, 24,25,26,27, 28. Feb. 2,3, 4,5,6,7,11, 12,13,15,16, 17,18,19,20, 21,22,23,25.	Dec. 18,19.	Dec. 16,17, 18,19,20, 26,27,28, 29. Jan.5, 6,7,8,9,10, 11,12,13, 14,15,16, 17,18,19, 20,21.	Dec. 14,15, 16,17,18,19, 20,21,22,23, 24,25,26,27, 28,29,30,31. Jan. 1,2,3, 4,5,6,7,8,9, 10,11,12,13, 14,15,16,17, 18,19,20,21, 22,23,24,25, 26,27,28,29, 30,31. Feb. 1, 2,3,4,5,6, 7,11,12,13, 15,16,17,18, 19,20,21,22, 23,24,25.

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1904-1905	Dec. 12,13,14, 24. Mar. 1.	Jan. 9,10,11, 12,13,14,15, 16,17,18,19, 20,21,22,25, 26,27,28,29, 30,31. Feb.1, Mar. 2.	Feb. 2,3,4, 5,6,7,8,9, 10.	Dec. 15,16, 17,18,19, 20,21,22, 23, Feb. 2, 11,12,13, 14,15,16, 17,18,19, 20,21,22, 23,24,25, 26,27,28, Mar. 1.	Dec. 14,15, 16,17,18,19, 20,21,22,23, 24,25,26,27, 28. Jan. 9, 10,11,12,13, 14,15,16,17, 18,19,20,21, 22,25,26,27, 28,29,30,31. Feb. 1,2,3, 4,5,6,7,8,9, 10,11,12,13, 14,15,16,17, 18,19,20,21, 22,23,24,25, 26,27,28. Mar. 1,2,3.	
1905-1906	Feb. 5,7,8.	Feb. 10,11, 12,13,14.				Feb. 12,13, 14.
1906-1907		Feb. 8,9.				
1907-1908	Jan. 30,31. Feb. 1,10,11.	Feb. 2,3,4,5, 6,7,8,9.				
1908-1909	No ice					
1909-1910	Jan. 8,14,15, 16. Feb. 12, 15,21,22,24.	Dec. 19,20, 21,22,23,24, 25,26,27,. Jan. 4,5,6,7,9,10, 11,12,13. Feb. 13,14,16,17,18, 19,20,23.	Dec. 29,30, 31. Jan. 1, 2,3.	Dec. 27,28. Jan. 5,6.	Dec. 27,28, 29,30,31. Jan. 1,2,3, 4,5,6.	
1910-1911	Dec. 20,27, 28, 29,31.	Dec. 16,17,18, 19,21,22,23,24, 25,26. Jan. 4.				

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1911-1912	Jan. 27,28. Feb. 4,16,17, 18,19,20,21, 22,23,24. Mar. 3.	Jan. 8,9,10, 11,12,13,14, 15,16,19,20,21, 22,23,24,25,26. Feb. 5,6,7,8,9, 10,11,12,13,14, 15,25.	Jan. 16,17.	Jan. 18, 19,20.	Jan. 16,17, 18,19,20, 21,22,23, 24,25,26, 27,28.	
1912-1913	Feb. 12,13,14,15.					
1913-1914	Feb. 18,19, 20,26,27,28, Mar. 2,3.				Feb. 26.	
1914-1915	Dec. 22,24, 30,31. Jan. 1,2.	Dec. 23,27,28, 29.				
1915-1916	No ice					
1916-1917	Dec. 16,17,18, 19,20,21,22,23, 24,25,26,27, Jan. 17,18,21. Feb. 16,17,18, 19,20.	Jan. 19,20, Feb. 9,10,11, 12,13,14,15.				
1917-1918		Dec. 10,14, 15,16. Feb. 13,14.	Dec. 11, 30,31.	Dec. 11,12, 13,17,18, 19,20,21 22,23,24,25, 26,27,28,29 30,31. Jan.1 2,3,4,5,6,7, 8,9,10,11,12 13,14,15,16, 17,18,19,20, 21,22,23,24, 25,26,27,28, 29,30,31. Feb. 1,2,3, 4,5,6,7,8, 9,10,11,12.	Dec. 10,11, 12,13,14,15, 16,17,18,19, 20,21,22,23, 24,25,26,27, 28,29,30,31. Jan. 1,2,3, 4,5,6,7,8,9, 10,11,12,13, 14,15,16,17, 18,19,20,21, 22,23,24,25, 26,27,28,29, 30,31. Feb. 1, 2,3,4,5,6,7, 8,9,10,11,12.	

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918-1919	Dec. 9.		Dec. 13,14,15,	Dec. 10.		
919-1920	Dec. 26,27, Jan. 11,12,13, 14,15,16,17, 18,19,20,21.		Dec. 25. Jan. 4,5,6,7,8,9, 10.			Jan. 2,3,4 5,6,7,8,9, 10.
920-1921	No ice					
921-1922	No ice					
922-1923	No ice					
923-1924	Jan. 26,30,31, Feb. 1		Jan. 27,28,29.			
924-1925	Dec. 28. Jan. 30,31.		Dec. 29,30,31. Jan. 1,2,3.			
925-1926	Jan. 4,5,6,7, 8,9,10,11,19, 31. Feb. 1,2, 3.		Dec. 27,28,29, 30,21. Jan. 1, 2,3,12,13,14, 15,16,17,18, 29,30.			Dec. 28,29, 30,31. Jan. 1, 2,3,4,12, 13,14, 15,16,17,18.
926-1927	Jan. 15,18,19.		Jan. 16, 17.			
927-1928	Jan. 2,3,10, 11,12,30,31. Feb. 1,3,4.		Jan. 4,5,6,7, 8,9. Feb. 2.			Jan. 4,5,6, 7,8,9,10.
928-1929	Jan. 8,9,13, 14,15,17,18, Feb. 2,3,9, 10,11,12,13.		Jan. 16. Feb. 4, 5,6,7,8.			
929-1930	Jan. 26,27,28, 29. Feb. 2,3.		Jan. 30,31. Feb. 1.			
930-1931	Jan. 1,2,3,4, 5,15,16,17,22, 23,24.					

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1931-1932	No ice					
1932-1933	Dec. 18,19,20, 21,22,23. Feb. 16.					
1933-1934	Feb. 9,13,14, 15,17,18,19, 20,21,24.		Feb. 10,11,12, 25,26,27,28. Mar. 1.			Feb. 13,14,15,26, 27,28. Mar 1.
1934-1935	No ice					
1935-1936	Dec. 26. Jan. 3,4,5,24,25. Feb. 4,5,9, 14,15,19,20, 22,23.		Dec. 27,28,29, 30,31. Jan. 1, 2,26,27,28,29, 30,31. Feb. 1, 2,3,6,7,8,10, 11,12,13,16,17, 18,21.			Dec. 27,28,29,30, 31. Jan. 1,2,24,25, 26,27,28,29,30,31. Feb. 1,2,3,4,5,6, 7,8,9,10,11,12,13, 14,17,18,20,22
1936-1937	No ice					
1937-1938	Dec. 10,11,12, 13,14,15,16,17.					Dec. 14,15,16.
1938-1939	No ice					
1939-1940	Jan. 3,15,16, 17,18. Feb. 13,14,15.	Jan. 4,14,19, 20, 21,22,23, 24. Feb. 10, 11,12.	Jan. 5,6,7, 8,9,10,11, 12,13,25,26, 27,28,29,30, 31. Feb. 1, 2,3,4,5,6,7, 8,9.			Jan. 5,6,7, 8,9,10,11,12,13, 19,20,21,22,23,24, 25,26,27,28,29,30, 31. Feb. 1,2,3,4,5, 6,7,8,9.
1940-1941	No ice					
1941-1942	Jan. 8.	Jan. 9,10,11, 12,13,14.				Jan. 10,11, 12,13,14.
1942-1943	No ice					
1943-1944	No ice					

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1944-1945	Feb. 1,2,3,4, 5,6,7,8.					
1945-1946	Dec. 20,21,22, 25,26,27,28.	Dec. 23,24.				
1946-1947	Feb. 10,11,12, 13,14.	Feb. 24,25, 26,27,28.				
1947-1948	Jan. 19.	Jan. 20,21,22, 23,24,25,26, 27,28,29. Feb. 13,14,15.	Feb. 1,2,3, 4,5,6,7,8, 9,10,11,12.	Jan. 30,31.	Jan. 25,26,27,28, 29,30,31. Feb. 1, 2,3,4,5,6,7,8,9,10, 11,12,13,14.	
1948-1949	No ice					
1949-1950	No ice					
1950-1951	No ice					
1951-1952	No ice					
1952-1953	No ice					
1953-1954	Dec. 24.					
1954-1955	No ice					
1955-1956	Jan. 14.					
1956-1957	No ice					
1957-1958	Feb. 14,15,16, 20,21,22,23,24.	Feb. 17,18,19.			Feb. 17,18,19,20, 21,22.	
1958-1959	No ice					
1959-1960	No ice					
1960-1961	Jan. 25,26,27 28,29,31.	Jan. 30.				
1961-1962	Jan. 17.					
1962-1963	Jan. 24,25,26. Feb. 7.	Jan. 27,28,29. Feb. 5.	Jan. 30,31. Feb. 1,2,3,4.		Jan. 28,29,30,31. Feb. 1,2,3,4,5.	

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SUSPENDED

1963-1964 Dec. 30,31.
Jan. 1,2.

1964-1965 Feb. 3,4,5,6.

1965-1966 Jan. 27,28,29, Feb. 10.
30,31. Feb. 1,
2,3,4,5,6,7,8,
9,11.

1966-1967 No ice

1967-1968 Jan. 16,17,18,19.
Feb. 22,23,24.

1968-1969 Jan. 5,9,10,
11,12,13,14,
15,16,17,18,19.

1969-1970 Jan. 12,13,14, Jan. 15,16,17.
18,20,21,22,23,
24,25,26,27.

1970-1971 Feb. 2,3,4,5.

1971-1972 No ice

1972-1973 No ice

1973-1974 No ice

1974-1975 No ice

1975-1976 No ice

1976-1977 Jan. 4,6,7, Jan. 13,14,15, Jan. 18,19,20, 7
8,9,10,11,12. 16,17,24,25,26, 21,22,23,30,
Feb. 14,15,17, 27,28,29. 31.
18,23,24,25,26, Feb. 8,9,10,11, Feb. 1,2,3,4,
12,13,16. 5,6,7.

Light Floating Heavy Frozen Over

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1977-1978	Jan. 11,12,13, 14,15,16. Feb. 4,5,6,7, 8,9,10,11,18, 23.	Jan. 17,18,19, 20,21,22,23, 24,25,26,27. 28,29,30,31. Feb. 1,2,3, 12,13,14,15, 16,17,19,20,21, 22.			Jan. 25,26,27,28, 29,30,31. Feb. 1,2.
1978-1979	Jan. 9,10,11, 13,14,15,17,20.				
1979-1980	Feb. 4,5,11,12, 13.				
1980-1981	Feb. 12,13.				
1981-1982	Jan. 12,13,17, 18,21,22,	Jan. 19,20			
1982-1983	No ice				
1983-1984	Dec. 26,27,28 29,30,31. Jan. 1,2,3,4, 5,6,11,12,13, 14,15,16,17,18, 19,27.	Jan. 20,21,22, 23,24,25,26.			
1984-1985	Jan. 20,21,22, 23,24,25,26 Feb. 1,2,3,4,5, 15.	Jan. 27,28,29 30,31			
1985-1986	No Ice				
1986-1987	No ice				
1987-1988	No ice				
1988-1989	No ice				