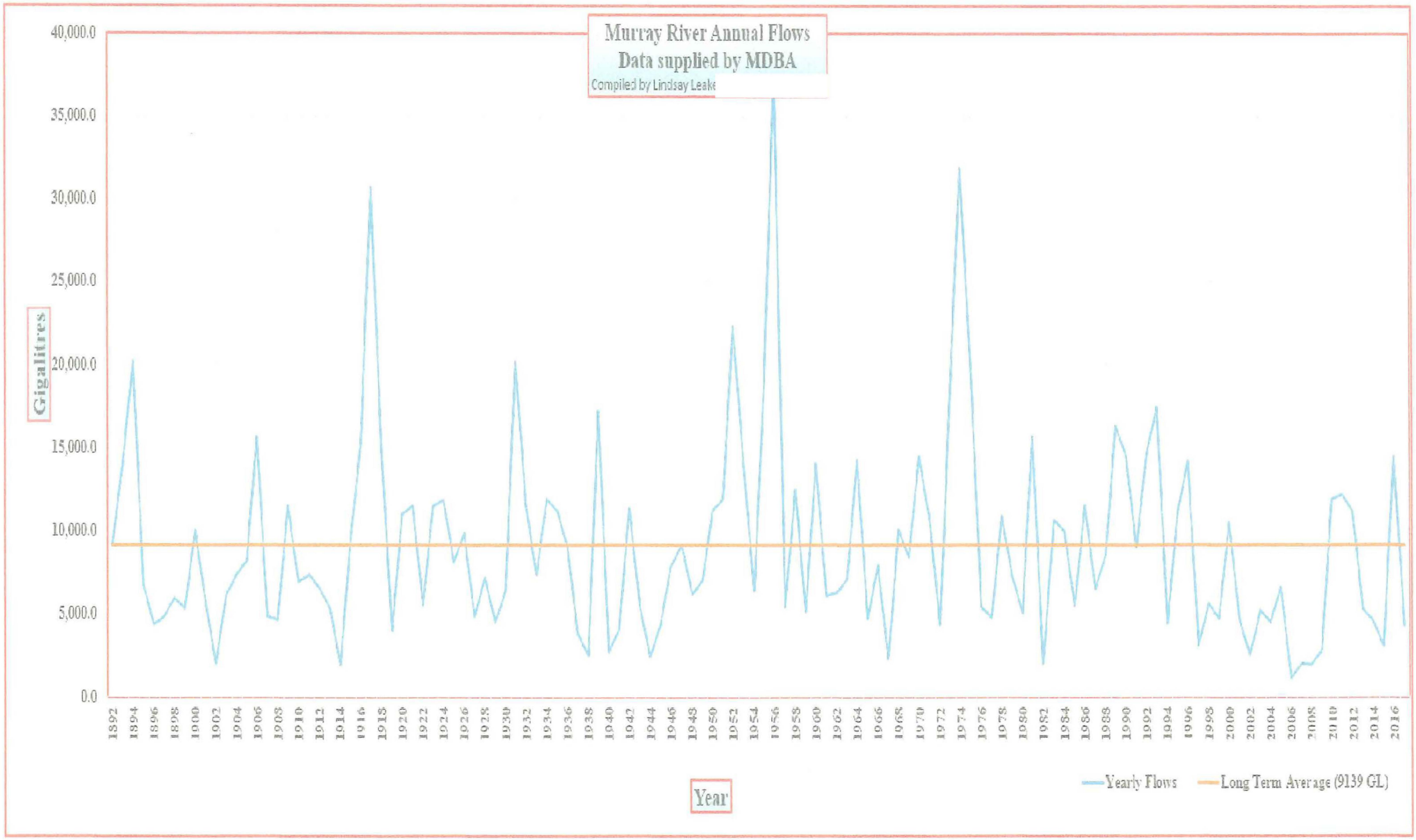
Lindsay Leake

24/5/2018

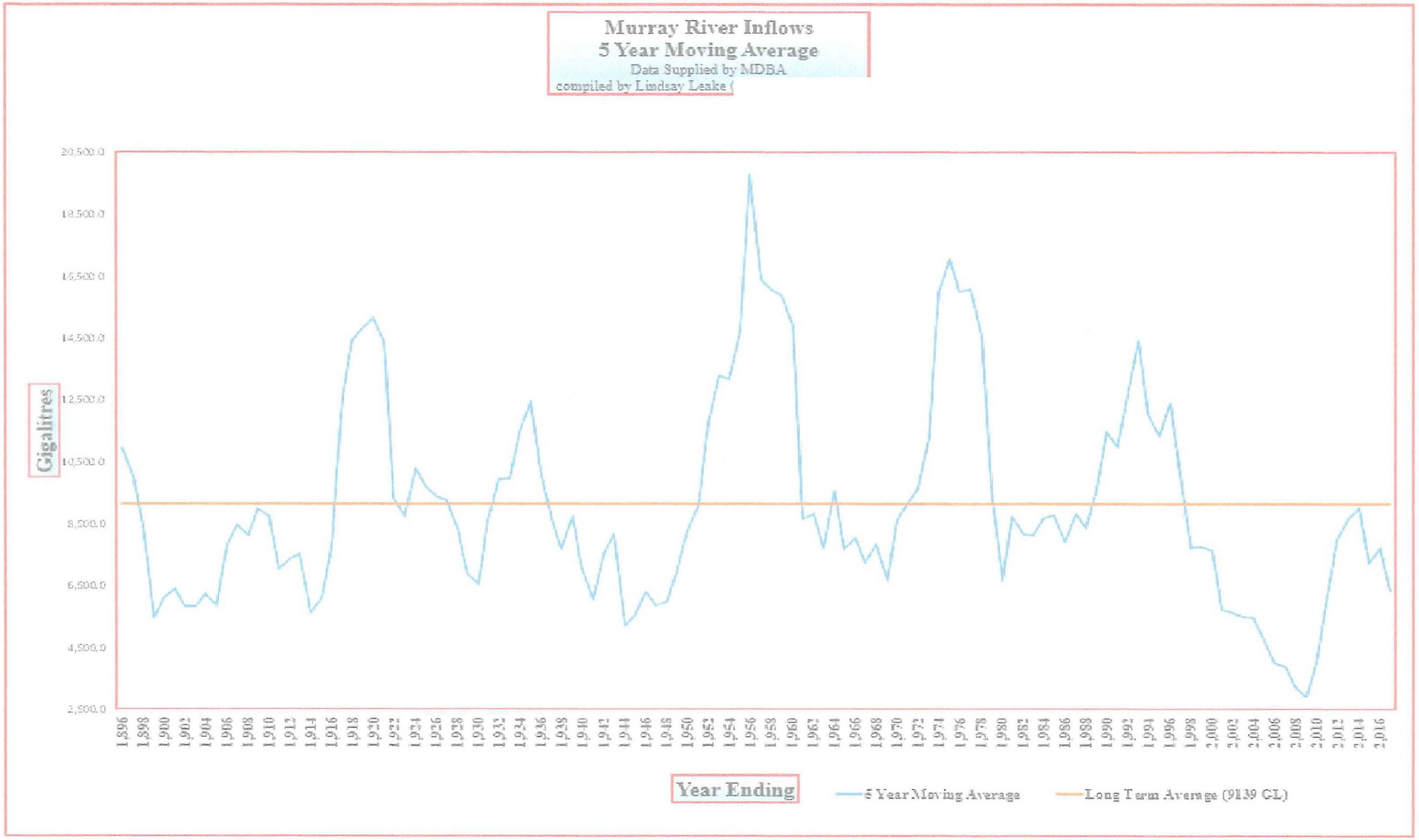
To whom it may concern;

The enclosed graphs and data have been compiled by myself to highlight the substantial decrease in flows into rivers in southern Australia they are as follows;

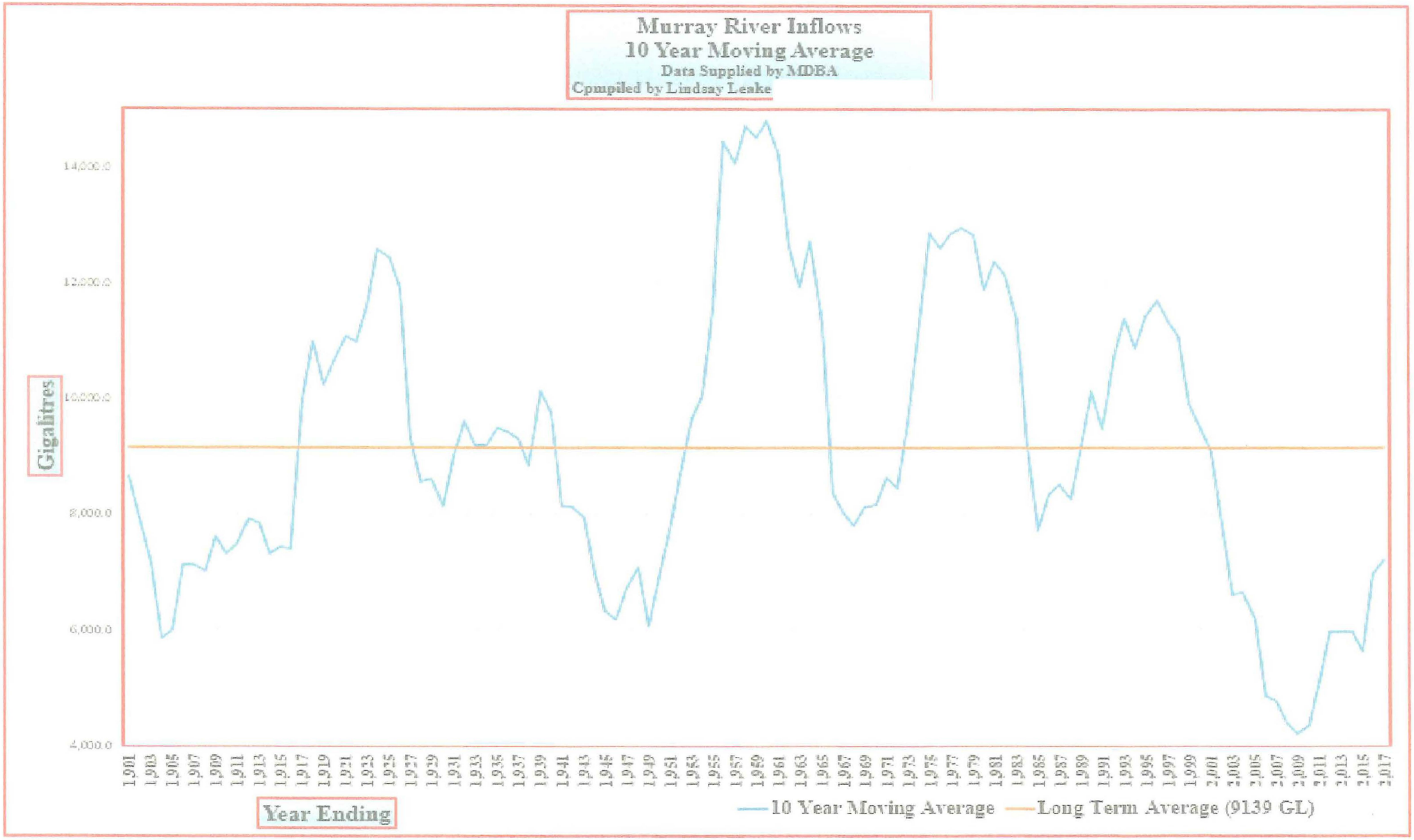
1. Murray System Inflows (excl. Snowy, Darling, Inter-valley trade and Environmental Inflows).
    a. I have obtained from MDBA annual inflow figures and compiled graphs showing;
        i. 5,10,20,30,40-year moving average inflows
        ii. 5,10,20,30,40-year block average inflows (where there is a balance of years less than the number of years I have used the balance number of years)
        iii. I have also included the calculations
2. Perth dam Inflows
    a. Graph titled "Changes in rain and Water Supply" obtained from Professor Mike Young Adelaide University showing the relationship between decrease in rainfall and decrease in inflows.
    b. Graph obtained from Water Corporation Perth web site (link shown on graph from Water Corp)
    c. Graphs for Annual, 5,10,20,30,40-year moving averages
    d. Graphs for 5,10,20,30,40-year Block average.
3. Grampians Wimmera, Mallee (Wimmera-Mallee System Headworks).
    a. Graph obtained from Goulburn Wimmera Mallee Water web site (link is at bottom of graph).
    b. Estimations of flows calculated by overlaying graph on excel spreadsheet (within 1% of GWM figures)
    c. Graphs for Annual, 5,10,20,30,40-year moving averages
    d. Graphs for 5,10,20,30,40-year Block average.
4. In my opinion these graphs quite clearly show that in recent years that there has been a significant deterioration in the inflows into these three river systems, which I believe is reasonable to attribute to climate change, and there needs to be added in the calculations for the availability of water to meet the needs of the Murray Darling Basin Plan a significantly large margin for error.



Compiled by **Lindsay Leake**



Compiled by **Lindsay Leake**



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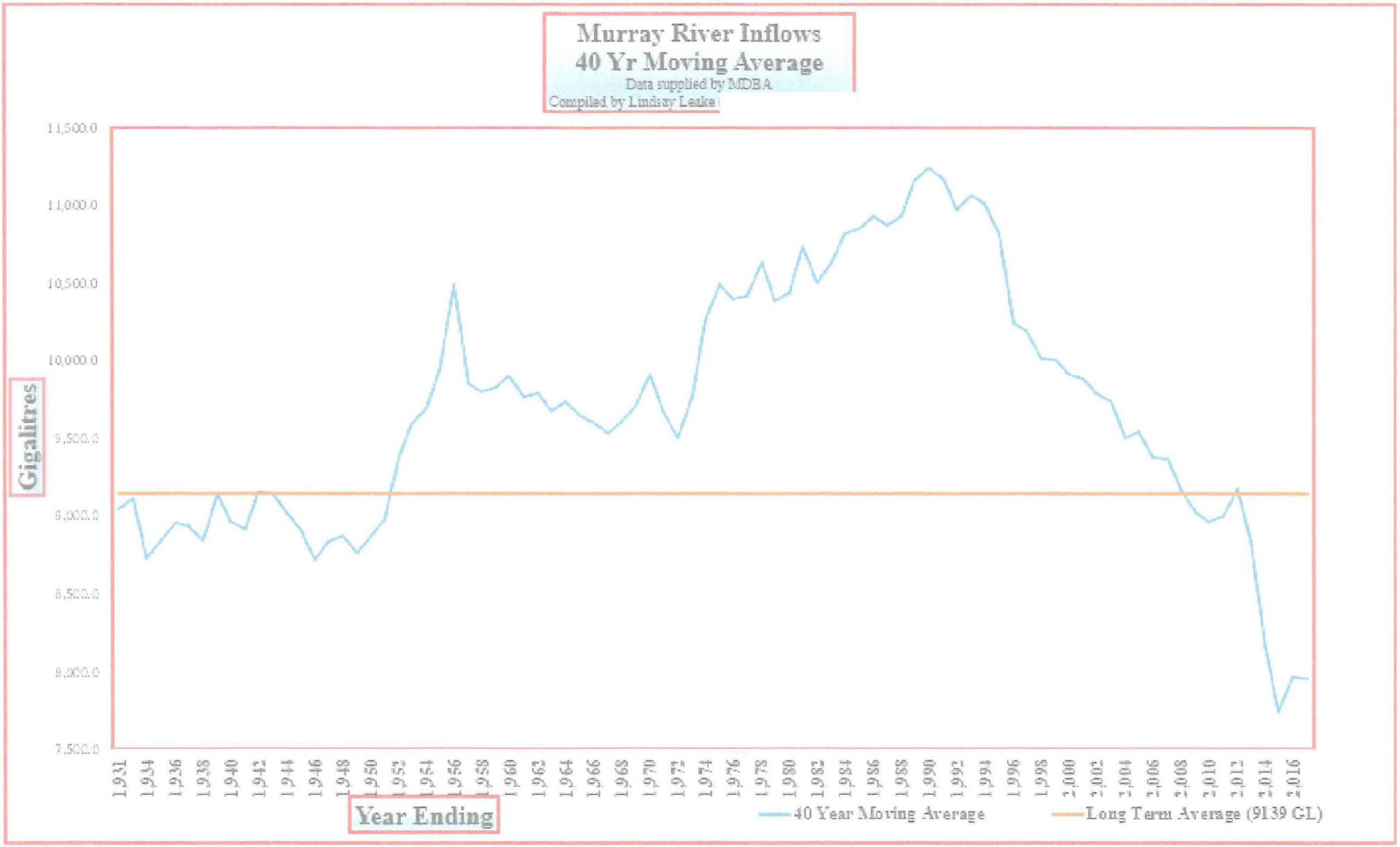

Compiled by **Lindsay Leake**

Long Term Average 1892-2017			
Gigalitres			
9139.4			
Average Inflow years ending 2017		Shortfall	
5 Years	6343.5	2795.9	30.6%
10 Years	7187.2	1952.2	21.4%
20 Years	5972.6	3166.8	34.6%
30 Years	7765.0	1374.4	15.0%
40 Years	7950.5	1188.9	13.0%

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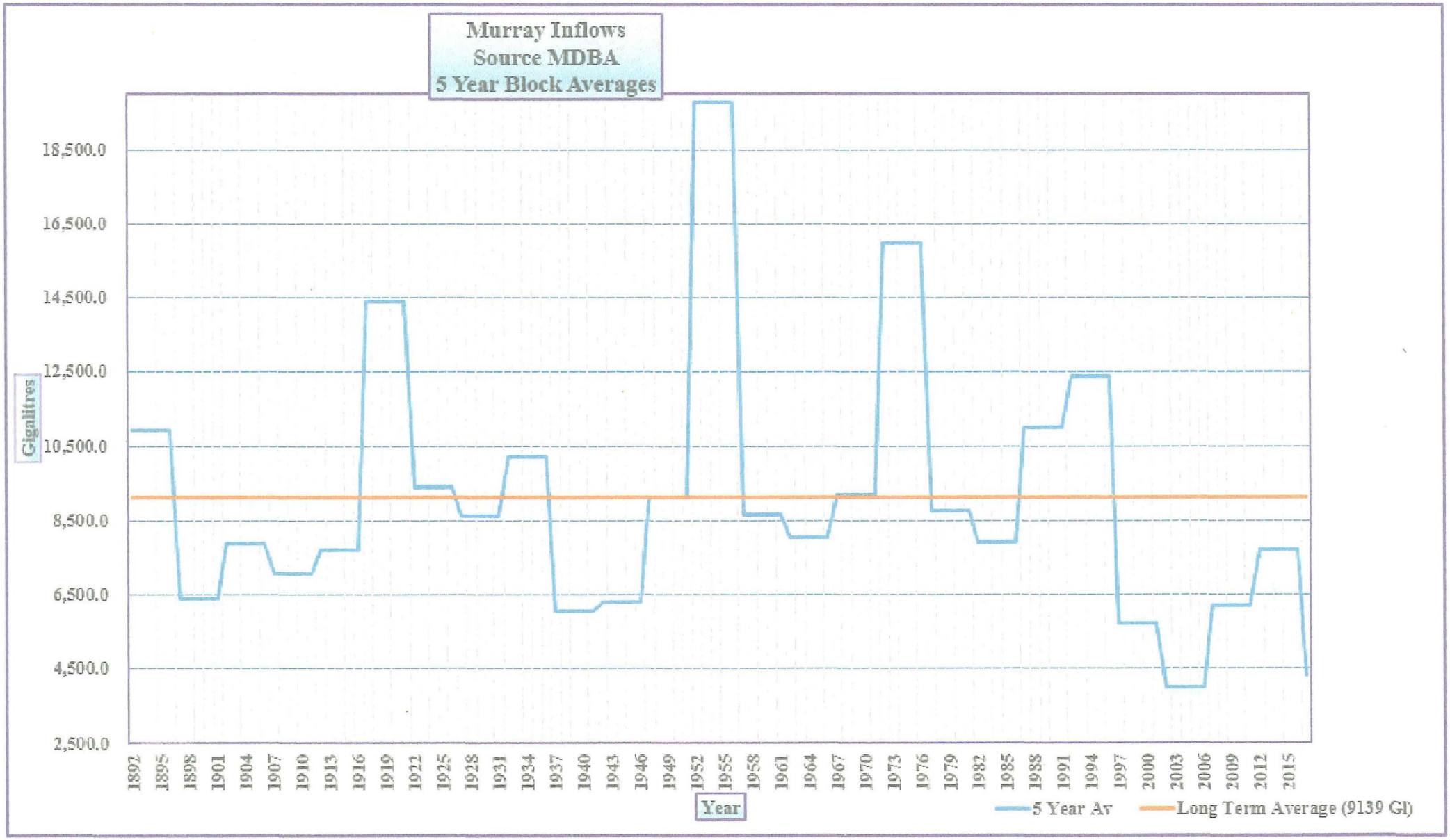
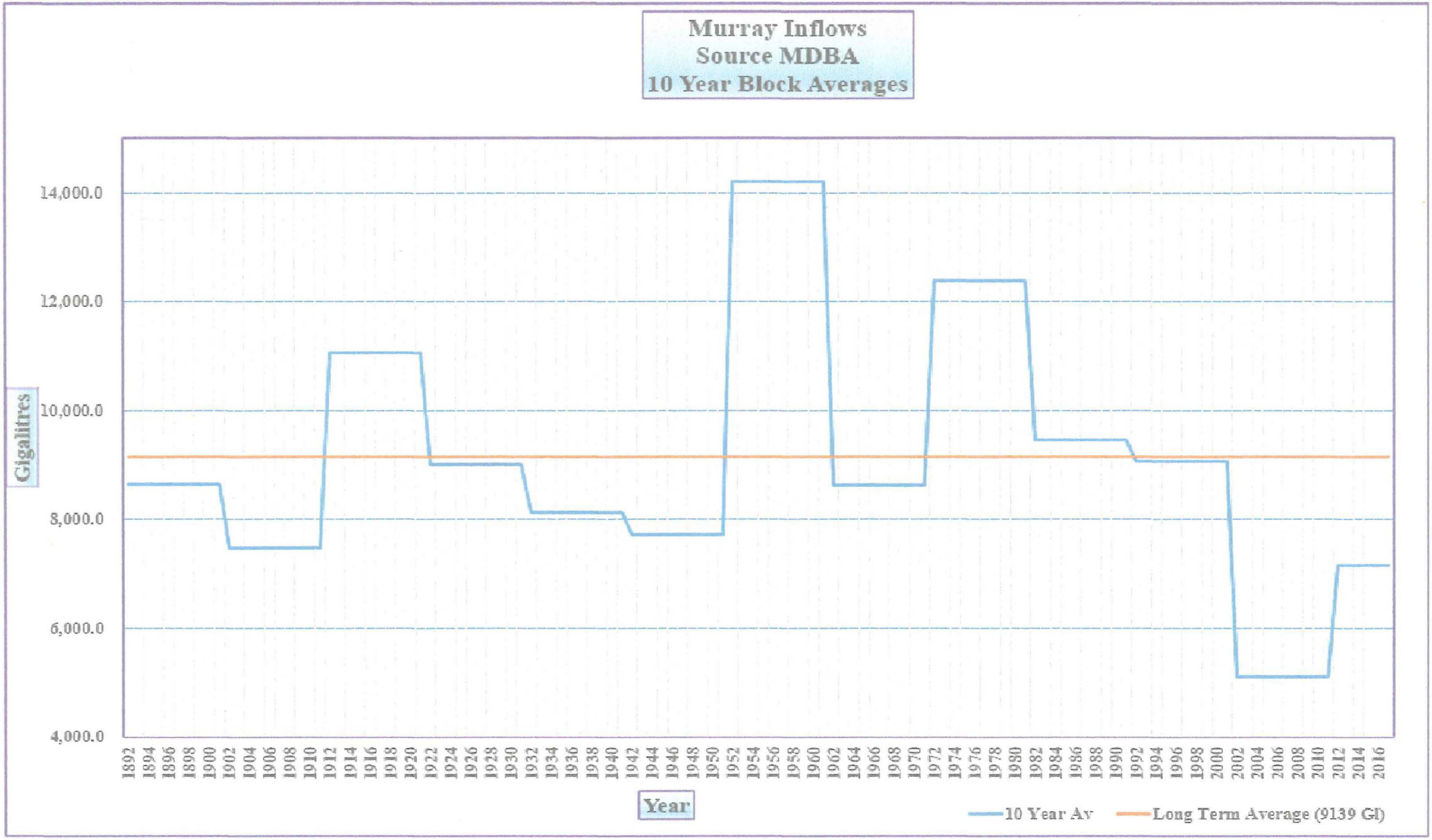
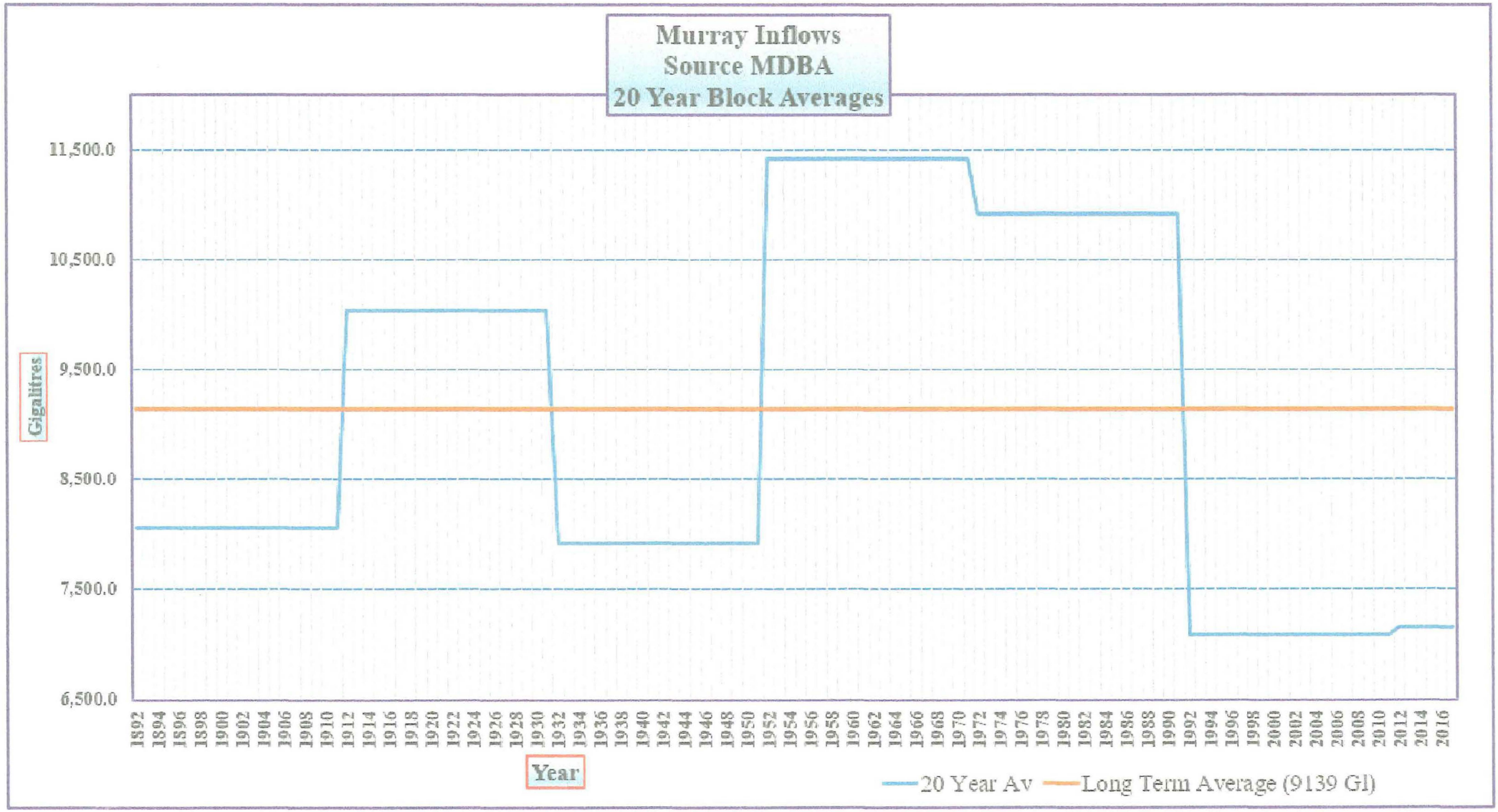


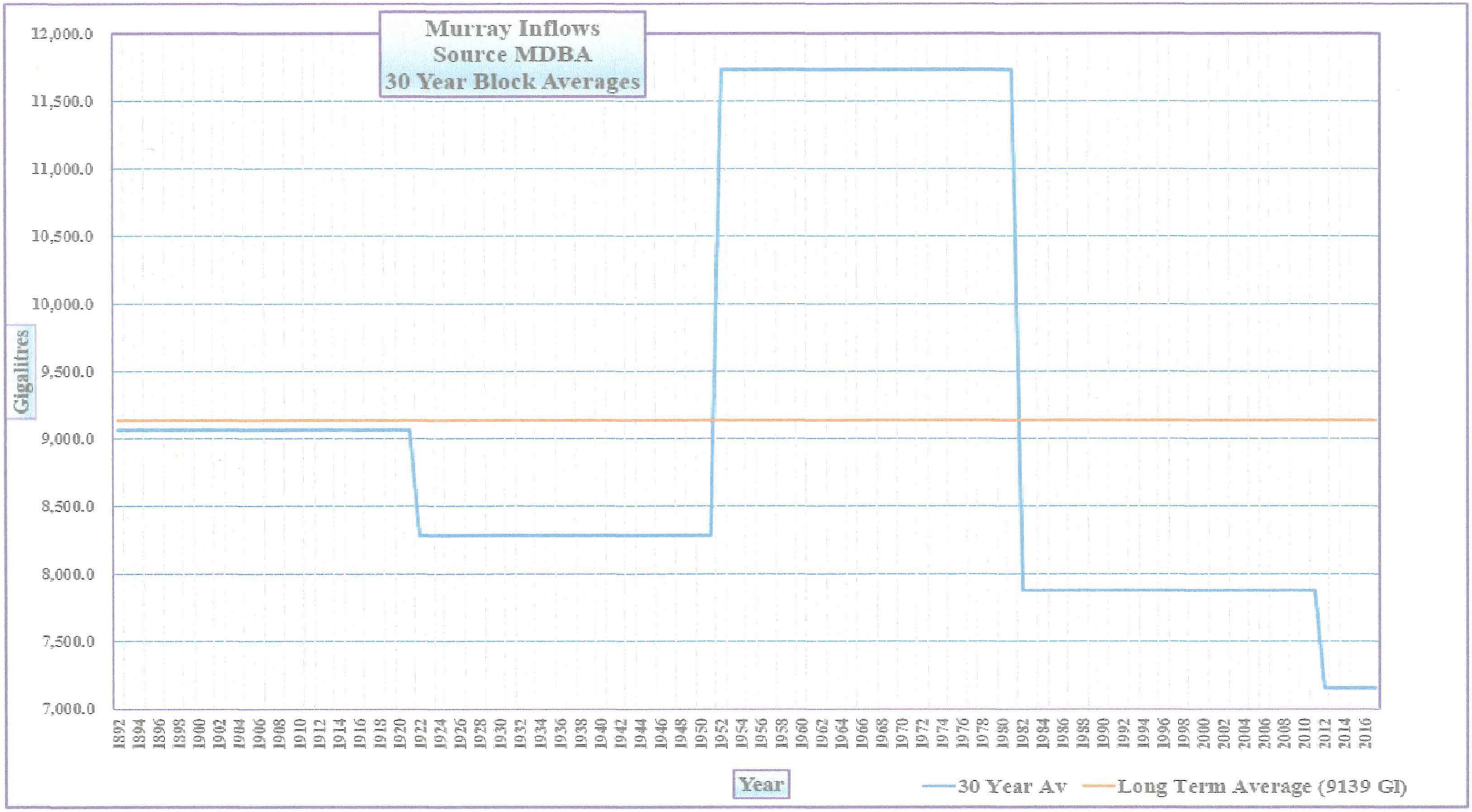
Compiled by Lindsay Leake



Compiled by Lindsay Leake



Compiled by Lindsay Leake



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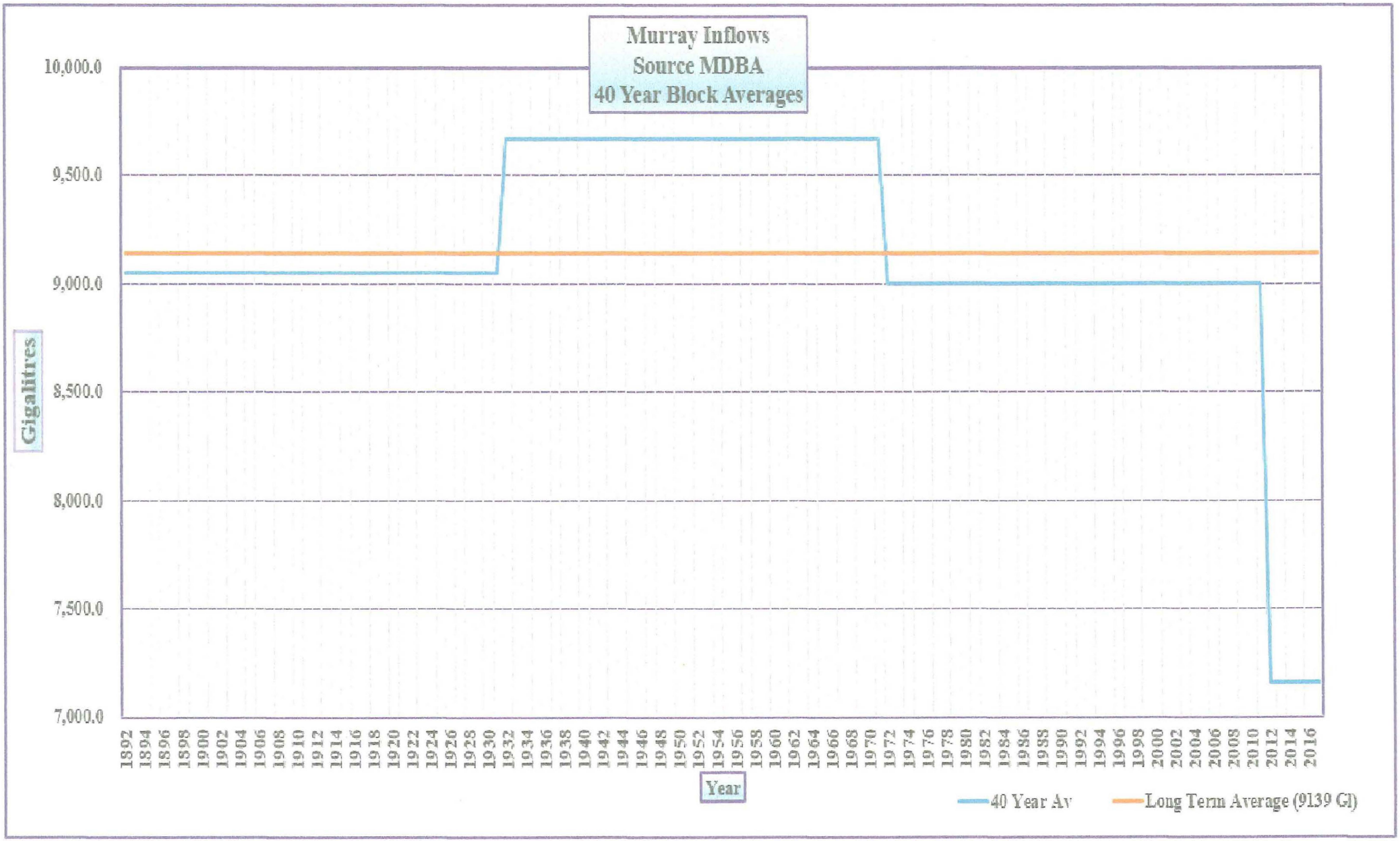


Compiled by Lindsay Leake

Murray Inflows 1892 to 2017 (Base data supplied by MDBA)												
Long Term Average (9139 Gl)	Year	Gigalitres	5 Year Av		10 Year Av		20 Year Av		30 Year Av		40 Year Av	
9139	1892	9,221.9		10,921.4		8,659.2		8,063.3		9,062.3		9,047.5
9139	1893	14,048.5		10,921.4		8,659.2		8,063.3		9,062.3		9,047.5
9139	1894	20,216.5		10,921.4		8,659.2		8,063.3		9,062.3		9,047.5
9139	1895	6,766.7		10,921.4		8,659.2		8,063.3		9,062.3		9,047.5
9139	1896	4,353.6	10,921.4	10,921.4		8,659.2		8,063.3		9,062.3		9,047.5
9139	1897	4,895.2		6,397.0		8,659.2		8,063.3		9,062.3		9,047.5
9139	1898	5,995.8		6,397.0		8,659.2		8,063.3		9,062.3		9,047.5
9139	1899	5,345.4		6,397.0		8,659.2		8,063.3		9,062.3		9,047.5
9139	1900	9,978.7		6,397.0		8,659.2		8,063.3		9,062.3		9,047.5
9139	1901	5,769.8	6,397.0	6,397.0	8,659.2	8,659.2		8,063.3		9,062.3		9,047.5
9139	1902	1,995.7		7,870.2		7,467.4		8,063.3		9,062.3		9,047.5
9139	1903	6,125.6		7,870.2		7,467.4		8,063.3		9,062.3		9,047.5
9139	1904	7,364.8		7,870.2		7,467.4		8,063.3		9,062.3		9,047.5
9139	1905	8,187.3		7,870.2		7,467.4		8,063.3		9,062.3		9,047.5
9139	1906	15,677.7	7,870.2	7,870.2		7,467.4		8,063.3		9,062.3		9,047.5
9139	1907	4,901.7		7,064.5		7,467.4		8,063.3		9,062.3		9,047.5
9139	1908	4,667.9		7,064.5		7,467.4		8,063.3		9,062.3		9,047.5
9139	1909	11,501.5		7,064.5		7,467.4		8,063.3		9,062.3		9,047.5
9139	1910	6,919.1		7,064.5		7,467.4		8,063.3		9,062.3		9,047.5
9139	1911	7,332.2	7,064.5	7,064.5	7,467.4	7,467.4	8,063.3	8,063.3		9,062.3		9,047.5
9139	1912	6,505.3		7,722.5		11,060.2		10,031.7		9,062.3		9,047.5
9139	1913	5,358.2		7,722.5		11,060.2		10,031.7		9,062.3		9,047.5
9139	1914	1,984.7		7,722.5		11,060.2		10,031.7		9,062.3		9,047.5
9139	1915	9,480.6		7,722.5		11,060.2		10,031.7		9,062.3		9,047.5
9139	1916	15,283.9	7,722.5	7,722.5		11,060.2		10,031.7		9,062.3		9,047.5
9139	1917	30,699.5		14,397.9		11,060.2		10,031.7		9,062.3		9,047.5
9139	1918	14,706.3		14,397.9		11,060.2		10,031.7		9,062.3		9,047.5
9139	1919	4,015.1		14,397.9		11,060.2		10,031.7		9,062.3		9,047.5
9139	1920	11,061.2		14,397.9		11,060.2		10,031.7		9,062.3		9,047.5
9139	1921	11,507.3	14,397.9	14,397.9	11,060.2	11,060.2		10,031.7	9,062.3	9,062.3		9,047.5
9139	1922	5,531.5		9,390.7		9,003.2		10,031.7		8,284.4		9,047.5
9139	1923	11,543.4		9,390.7		9,003.2		10,031.7		8,284.4		9,047.5

9139	1924	11,879.5		9,390.7		9,003.2		10,031.7		8,284.4		9,047.5
9139	1925	8,150.8		9,390.7		9,003.2		10,031.7		8,284.4		9,047.5
9139	1926	9,848.3	9,390.7	9,390.7		9,003.2		10,031.7		8,284.4		9,047.5
9139	1927	4,879.9		8,615.7		9,003.2		10,031.7		8,284.4		9,047.5
9139	1928	7,139.5		8,615.7		9,003.2		10,031.7		8,284.4		9,047.5
9139	1929	4,498.5		8,615.7		9,003.2		10,031.7		8,284.4		9,047.5
9139	1930	6,371.7		8,615.7		9,003.2		10,031.7		8,284.4		9,047.5
9139	1931	20,189.0	8,615.7	8,615.7	9,003.2	9,003.2	10,031.7	10,031.7		8,284.4	9,047.5	9,047.5
9139	1932	11,483.1		10,208.0		8,136.3		7,925.0		8,284.4		9,671.7
9139	1933	7,360.6		10,208.0		8,136.3		7,925.0		8,284.4		9,671.7
9139	1934	11,953.5		10,208.0		8,136.3		7,925.0		8,284.4		9,671.7
9139	1935	11,204.6		10,208.0		8,136.3		7,925.0		8,284.4		9,671.7
9139	1936	9,038.1	10,208.0	10,208.0		8,136.3		7,925.0		8,284.4		9,671.7
9139	1937	3,845.8		6,064.7		8,136.3		7,925.0		8,284.4		9,671.7
9139	1938	2,484.5		6,064.7		8,136.3		7,925.0		8,284.4		9,671.7
9139	1939	17,203.7		6,064.7		8,136.3		7,925.0		8,284.4		9,671.7
9139	1940	2,713.2		6,064.7		8,136.3		7,925.0		8,284.4		9,671.7
9139	1941	4,076.2	6,064.7	6,064.7	8,136.3	8,136.3		7,925.0		8,284.4		9,671.7
9139	1942	11,380.4		6,302.6		7,713.6		7,925.0		8,284.4		9,671.7
9139	1943	5,471.0		6,302.6		7,713.6		7,925.0		8,284.4		9,671.7
9139	1944	2,473.7		6,302.6		7,713.6		7,925.0		8,284.4		9,671.7
9139	1945	4,351.1		6,302.6		7,713.6		7,925.0		8,284.4		9,671.7
9139	1946	7,836.7	6,302.6	6,302.6		7,713.6		7,925.0		8,284.4		9,671.7
9139	1947	9,181.8		9,124.6		7,713.6		7,925.0		8,284.4		9,671.7
9139	1948	6,195.8		9,124.6		7,713.6		7,925.0		8,284.4		9,671.7
9139	1949	7,024.1		9,124.6		7,713.6		7,925.0		8,284.4		9,671.7
9139	1950	11,269.1		9,124.6		7,713.6		7,925.0		8,284.4		9,671.7
9139	1951	11,952.2	9,124.6	9,124.6	7,713.6	7,713.6	7,925.0	7,925.0	8,284.4	8,284.4		9,671.7
9139	1952	22,299.7		19,772.5		14,212.3		11,418.4		11,735.8		9,671.7
9139	1953	13,946.5		19,772.5		14,212.3		11,418.4		11,735.8		9,671.7
9139	1954	6,374.9		19,772.5		14,212.3		11,418.4		11,735.8		9,671.7
9139	1955	18,913.8		19,772.5		14,212.3		11,418.4		11,735.8		9,671.7
9139	1956	37,327.7	19,772.5	19,772.5		14,212.3		11,418.4		11,735.8		9,671.7
9139	1957	5,407.2		8,652.0		14,212.3		11,418.4		11,735.8		9,671.7
9139	1958	12,478.3		8,652.0		14,212.3		11,418.4		11,735.8		9,671.7
9139	1959	5,178.1		8,652.0		14,212.3		11,418.4		11,735.8		9,671.7
9139	1960	14,085.6		8,652.0		14,212.3		11,418.4		11,735.8		9,671.7

9139	1961	6,111.0	8,652.0	8,652.0	14,212.3	14,212.3		11,418.4		11,735.8		9,671.7
9139	1962	6,273.2		8,046.4		8,624.5		11,418.4		11,735.8		9,671.7
9139	1963	7,062.5		8,046.4		8,624.5		11,418.4		11,735.8		9,671.7
9139	1964	14,309.9		8,046.4		8,624.5		11,418.4		11,735.8		9,671.7
9139	1965	4,702.1		8,046.4		8,624.5		11,418.4		11,735.8		9,671.7
9139	1966	7,884.2	8,046.4	8,046.4		8,624.5		11,418.4		11,735.8		9,671.7
9139	1967	2,315.8		9,202.6		8,624.5		11,418.4		11,735.8		9,671.7
9139	1968	10,037.7		9,202.6		8,624.5		11,418.4		11,735.8		9,671.7
9139	1969	8,382.1		9,202.6		8,624.5		11,418.4		11,735.8		9,671.7
9139	1970	14,510.9		9,202.6		8,624.5		11,418.4		11,735.8		9,671.7
9139	1971	10,766.4	9,202.6	9,202.6	8,624.5	8,624.5	11,418.4	11,418.4		11,735.8	9,671.7	9,671.7
9139	1972	4,412.0		15,989.5		12,370.7		10,912.8		11,735.8		8,997.3
9139	1973	18,280.8		15,989.5		12,370.7		10,912.8		11,735.8		8,997.3
9139	1974	31,775.3		15,989.5		12,370.7		10,912.8		11,735.8		8,997.3
9139	1975	20,048.7		15,989.5		12,370.7		10,912.8		11,735.8		8,997.3
9139	1976	5,430.5	15,989.5	15,989.5		12,370.7		10,912.8		11,735.8		8,997.3
9139	1977	4,831.1		8,751.9		12,370.7		10,912.8		11,735.8		8,997.3
9139	1978	10,867.5		8,751.9		12,370.7		10,912.8		11,735.8		8,997.3
9139	1979	7,300.2		8,751.9		12,370.7		10,912.8		11,735.8		8,997.3
9139	1980	5,057.2		8,751.9		12,370.7		10,912.8		11,735.8		8,997.3
9139	1981	15,703.7	8,751.9	8,751.9	12,370.7	12,370.7		10,912.8	11,735.8	11,735.8		8,997.3
9139	1982	2,005.1		7,927.0		9,454.9		10,912.8		7,872.8		8,997.3
9139	1983	10,708.7		7,927.0		9,454.9		10,912.8		7,872.8		8,997.3
9139	1984	9,969.9		7,927.0		9,454.9		10,912.8		7,872.8		8,997.3
9139	1985	5,469.0		7,927.0		9,454.9		10,912.8		7,872.8		8,997.3
9139	1986	11,482.2	7,927.0	7,927.0		9,454.9		10,912.8		7,872.8		8,997.3
9139	1987	6,507.0		10,982.8		9,454.9		10,912.8		7,872.8		8,997.3
9139	1988	8,513.6		10,982.8		9,454.9		10,912.8		7,872.8		8,997.3
9139	1989	16,262.4		10,982.8		9,454.9		10,912.8		7,872.8		8,997.3
9139	1990	14,577.4		10,982.8		9,454.9		10,912.8		7,872.8		8,997.3
9139	1991	9,053.7	10,982.8	10,982.8	9,454.9	9,454.9	10,912.8	10,912.8		7,872.8		8,997.3
9139	1992	14,692.6		12,392.3		9,063.9		7,081.8		7,872.8		8,997.3
9139	1993	17,427.8		12,392.3		9,063.9		7,081.8		7,872.8		8,997.3
9139	1994	4,483.2		12,392.3		9,063.9		7,081.8		7,872.8		8,997.3
9139	1995	11,124.2		12,392.3		9,063.9		7,081.8		7,872.8		8,997.3
9139	1996	14,233.8	12,392.3	12,392.3		9,063.9		7,081.8		7,872.8		8,997.3
9139	1997	3,130.0		5,735.5		9,063.9		7,081.8		7,872.8		8,997.3

9139	1998	5,662.2		5,735.5		9,063.9		7,081.8		7,872.8		8,997.3
9139	1999	4,760.8		5,735.5		9,063.9		7,081.8		7,872.8		8,997.3
9139	2000	10,456.2		5,735.5		9,063.9		7,081.8		7,872.8		8,997.3
9139	2001	4,668.5	5,735.5	5,735.5	9,063.9	9,063.9		7,081.8		7,872.8		8,997.3
9139	2002	2,503.1		3,996.2		5,099.6		7,081.8		7,872.8		8,997.3
9139	2003	5,232.3		3,996.2		5,099.6		7,081.8		7,872.8		8,997.3
9139	2004	4,527.6		3,996.2		5,099.6		7,081.8		7,872.8		8,997.3
9139	2005	6,574.6		3,996.2		5,099.6		7,081.8		7,872.8		8,997.3
9139	2006	1,143.6	3,996.2	3,996.2		5,099.6		7,081.8		7,872.8		8,997.3
9139	2007	2,051.4		6,202.9		5,099.6		7,081.8		7,872.8		8,997.3
9139	2008	1,990.7		6,202.9		5,099.6		7,081.8		7,872.8		8,997.3
9139	2009	2,809.0		6,202.9		5,099.6		7,081.8		7,872.8		8,997.3
9139	2010	11,964.5		6,202.9		5,099.6		7,081.8		7,872.8		8,997.3
9139	2011	12,199.1	6,202.9	6,202.9	5,099.6	5,099.6	7,081.8	7,081.8	7,872.8	7,872.8	8,997.3	8,997.3
9139	2012	11,191.1		7,720.4		7,151.5		7,151.5		7,151.5		7,151.5
9139	2013	5,259.1		7,720.4		7,151.5		7,151.5		7,151.5		7,151.5
9139	2014	4,564.5		7,720.4		7,151.5		7,151.5		7,151.5		7,151.5
9139	2015	3,062.2		7,720.4		7,151.5		7,151.5		7,151.5		7,151.5
9139	2016	14,524.9	7,720.4	7,720.4		7,151.5		7,151.5		7,151.5		7,151.5
9139	2017	4,306.9	4,306.9	4,306.9	7,151.5	7,151.5	7,151.5	7,151.5	7,151.5	7,151.5	7,151.5	7,151.5
		1,151,566.5										

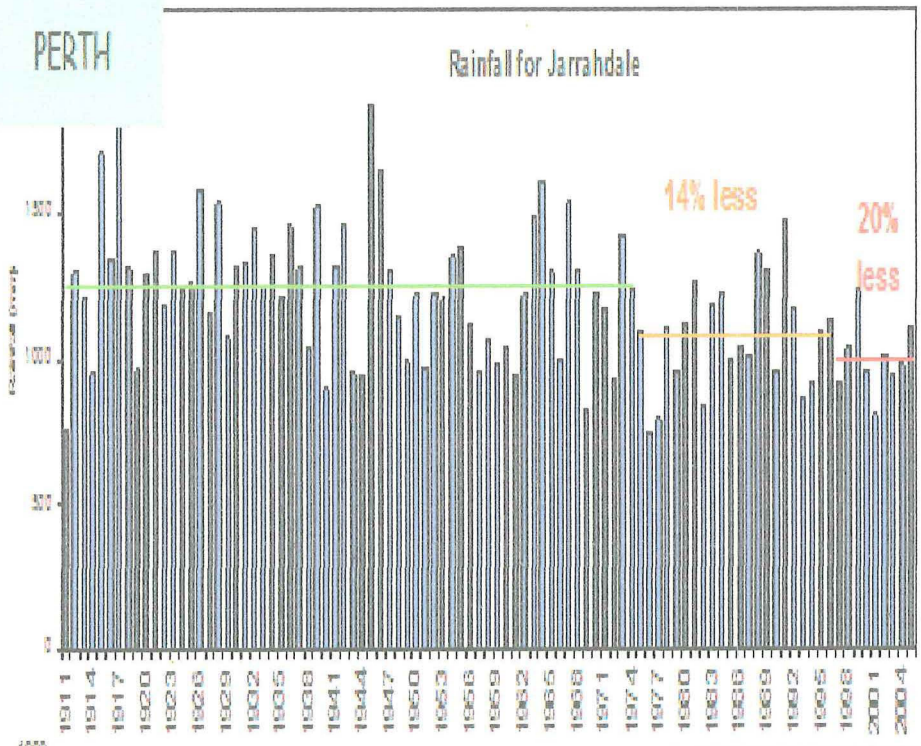
Average Inflows 9,139 (126 years) 5,973 Average last 20 years (1998-2017)

Compiled by **Lindsay Leake**

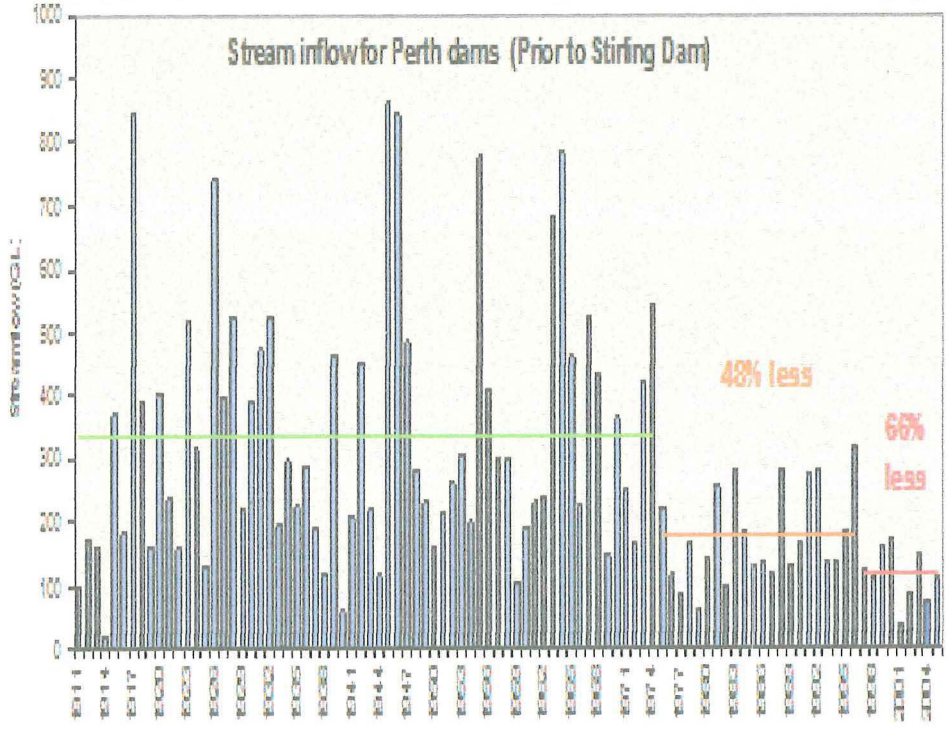
THE UNIVERSITY OF ADELAIDE AUSTRALIA

Changes in rain and water supply

PERTH



- 1%



- 3%

Notes: Stream flow is from May of labelled year to the following April

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Residential | Streamflow | Streamflow Historical

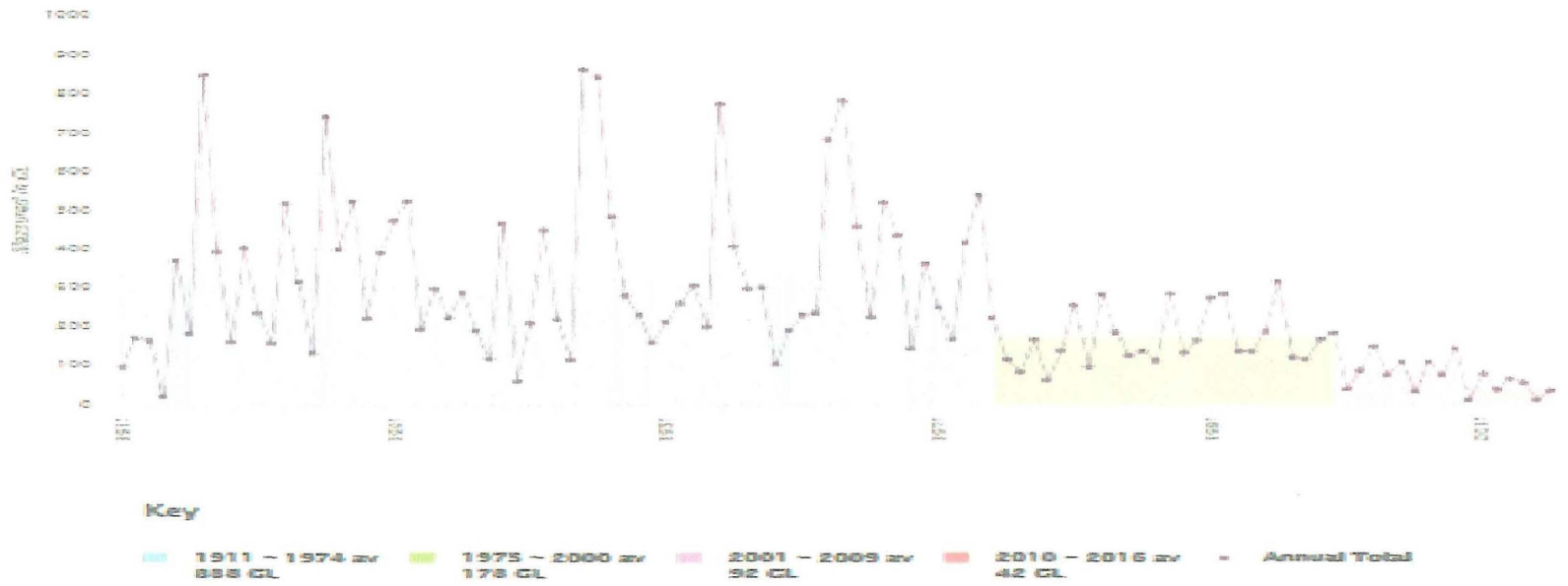
Streamflow Historical

Overview | Rainfall | Streamflow | Dam levels | Sources | Water use

Streamflow | Streamflow Historical

Historical streamflow

We need steady, regular rain in order to soak our catchments and get the streams flowing into our dams. Slowly declining rainfall means Perth's dams receive much less streamflow than in years past.

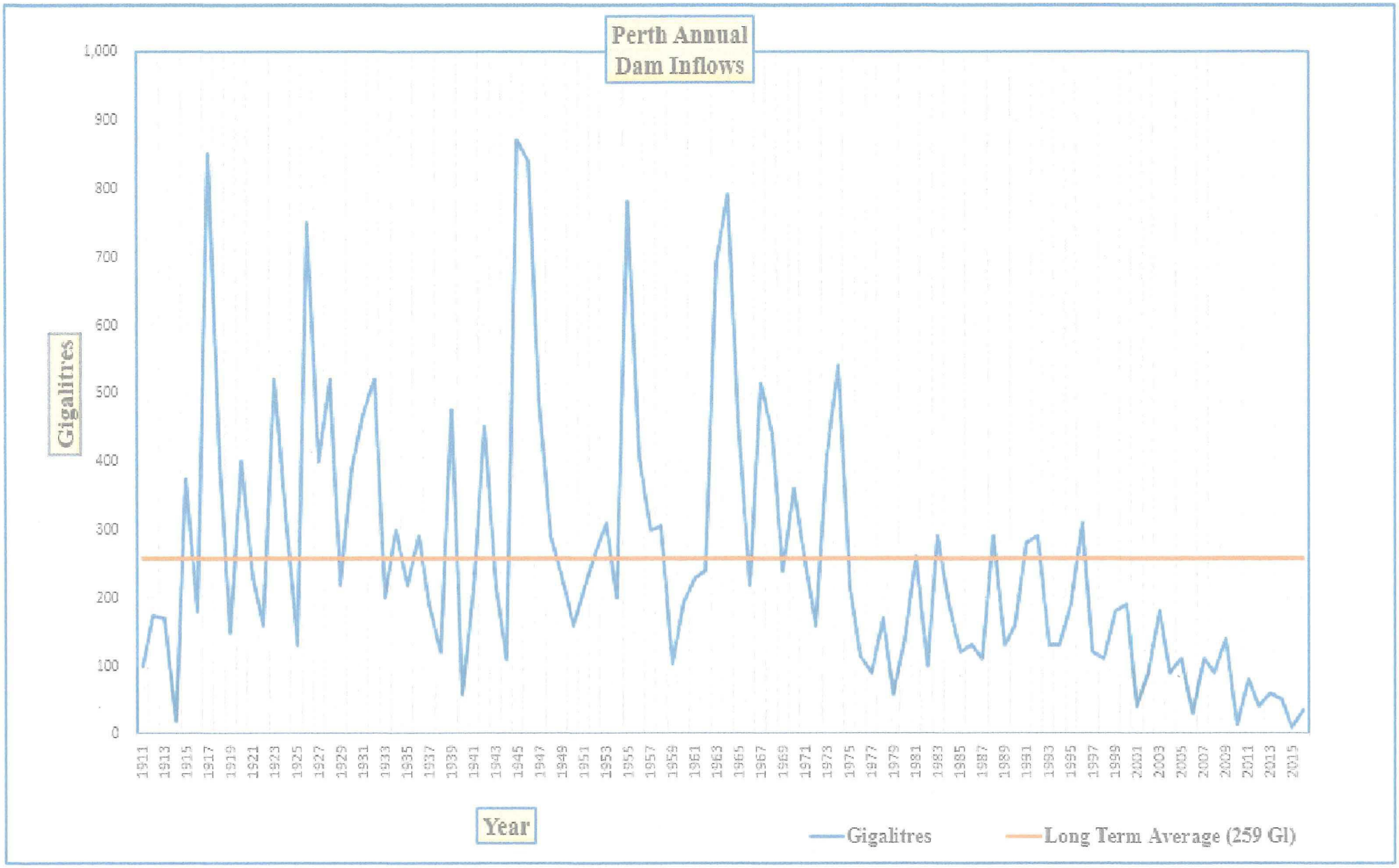


Key

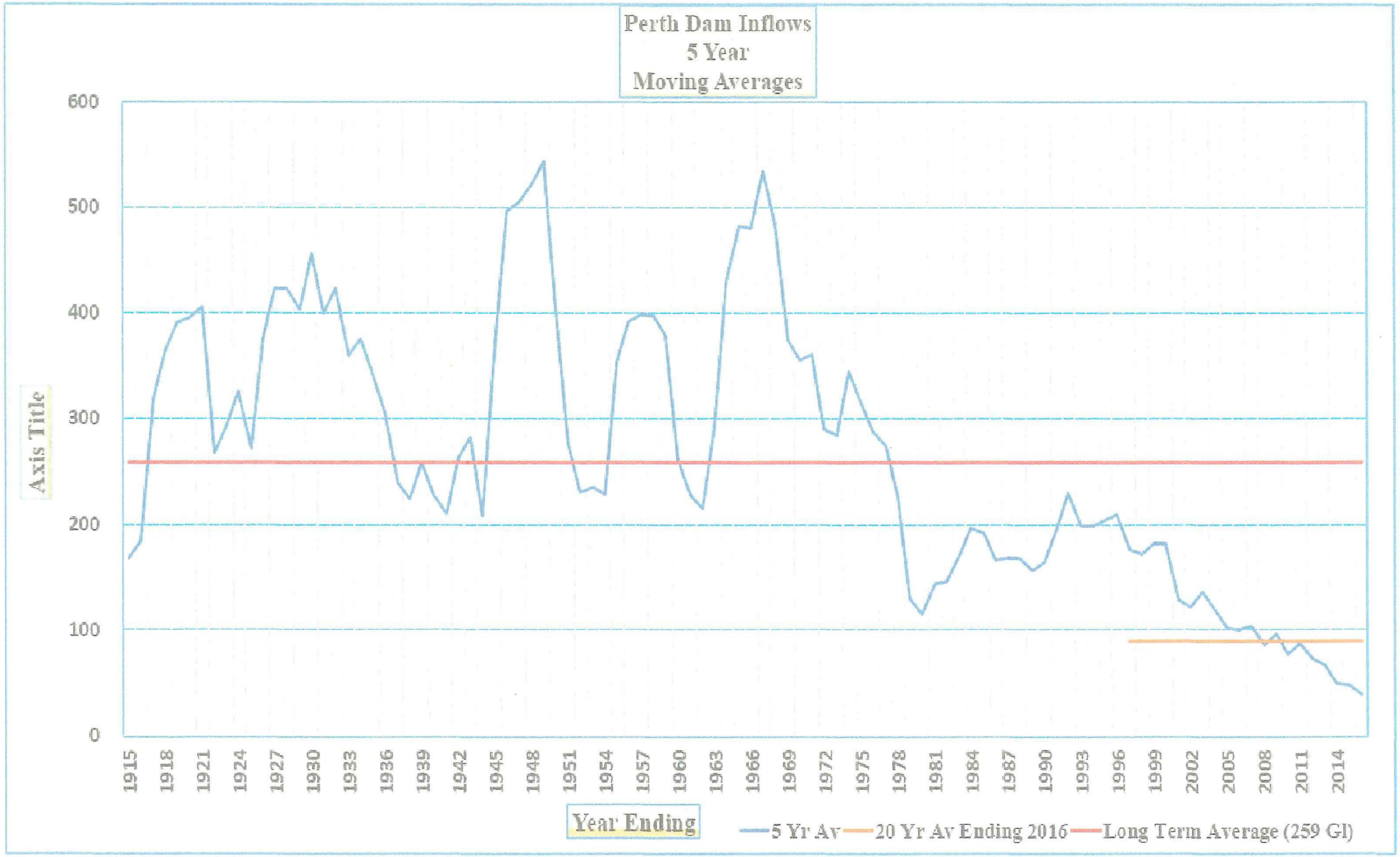
1911 – 1974 av 888 GL | 1975 – 2000 av 178 GL | 2001 – 2009 av 92 GL | 2010 – 2016 av 42 GL | Annual Total

*In order to provide an accurate historical comparison streamflow from Stirling and Samson Brook Dams are not included in this data as these dams only came online in 2001. Inflow is therefore modelled on Perth dams pre-2001.

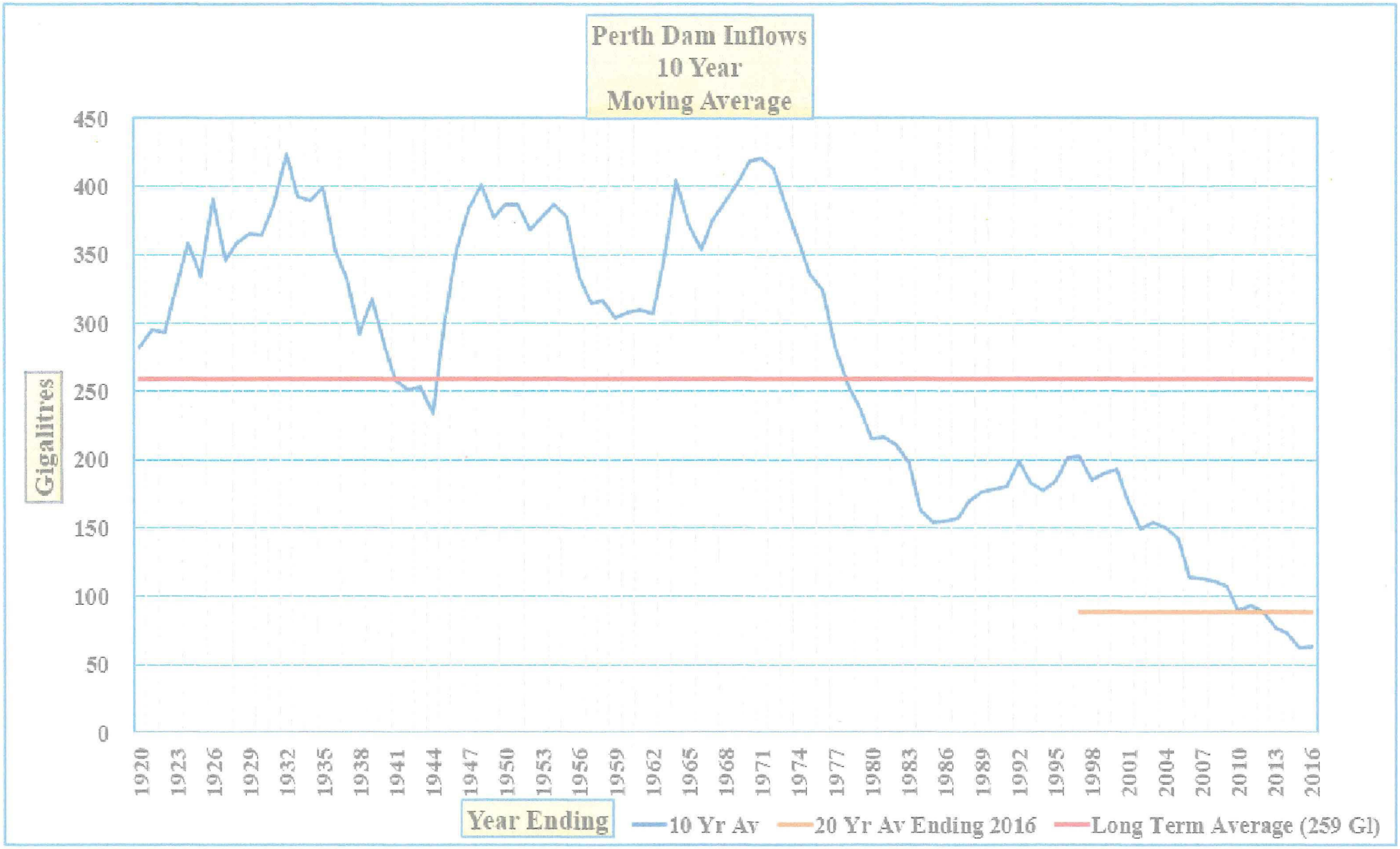
https://www.watercorporation.com.au/water-supply/rainfall-and-dams/streamflow/streamflowhistorical



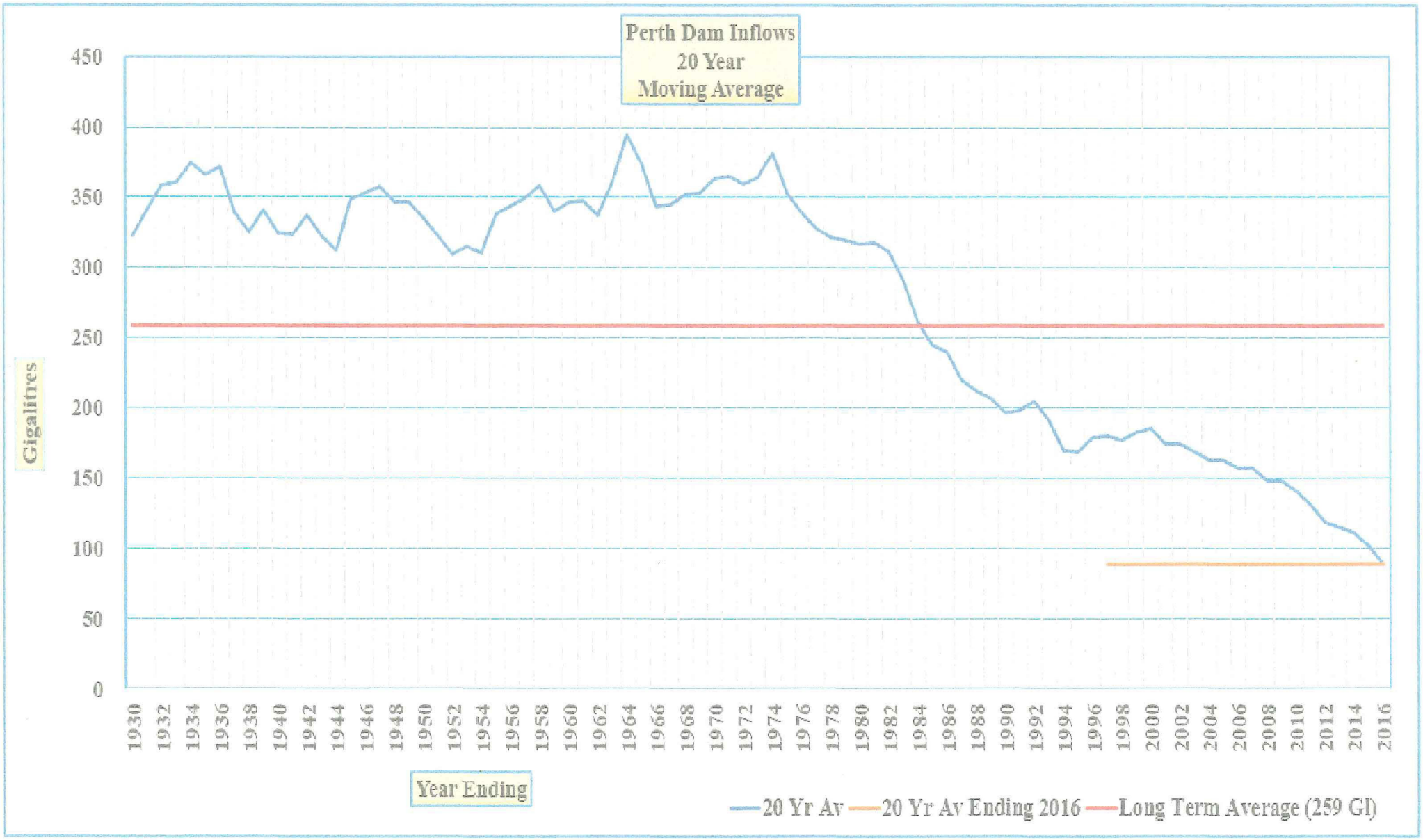
Compiled by **Lindsay Leake**



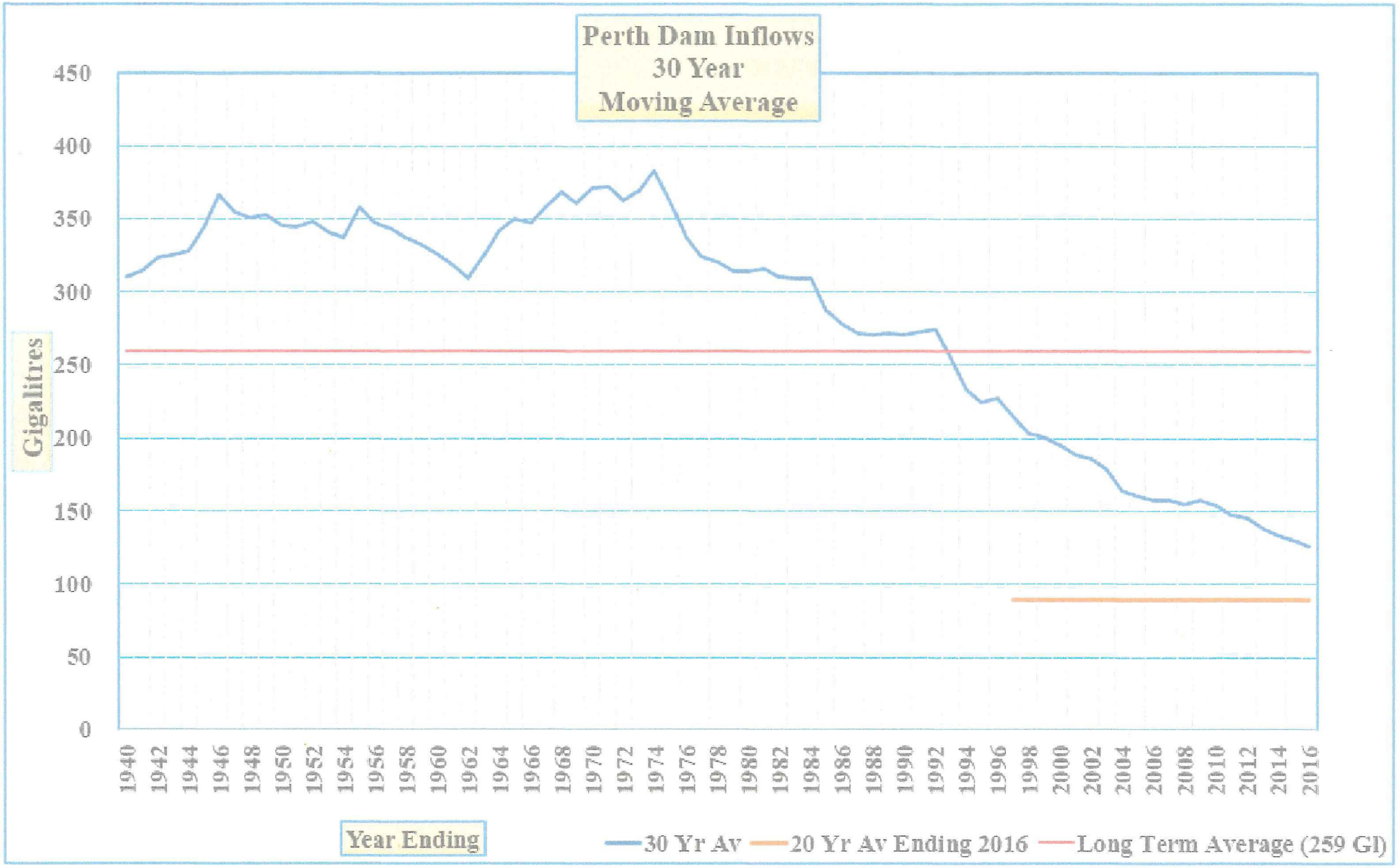
Compiled by **Lindsay Leake**



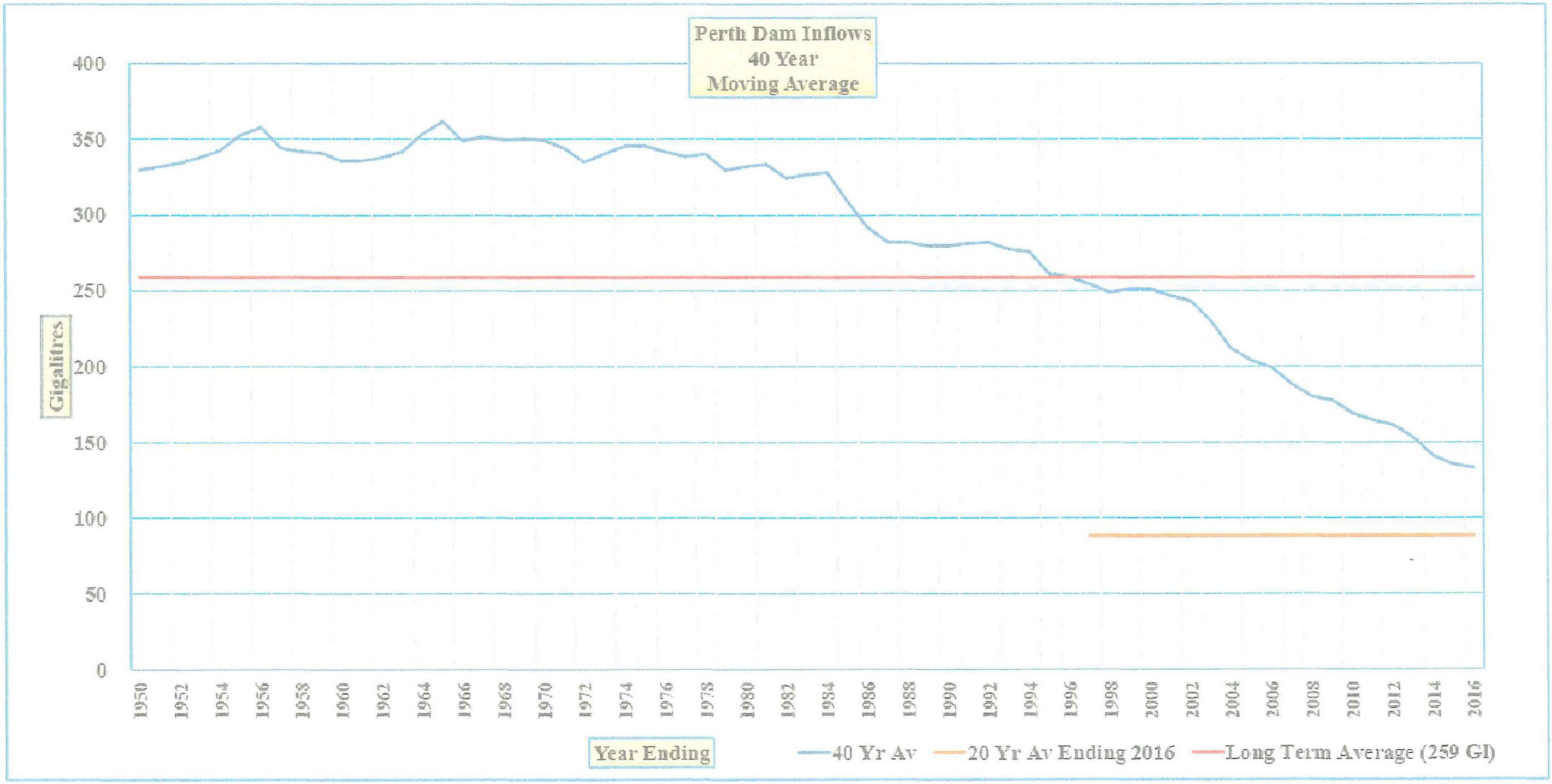
Compiled by **Lindsay Leake**



Compiled by **Lindsay Leake**


Perth Dam Inflows
30 Year
Moving Average
Gigalitres
450
400
350
300
250
200
150
100
50
0
1940
1942
1944
1946
1948
1950
1952
1954
1956
1958
1960
1962
1964
1966
1968
1970
1972
1974
1976
1978
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
Year Ending
30 Yr Av
20 Yr Av Ending 2016
Long Term Average (259 Gl)

Compiled by **Lindsay Leake**



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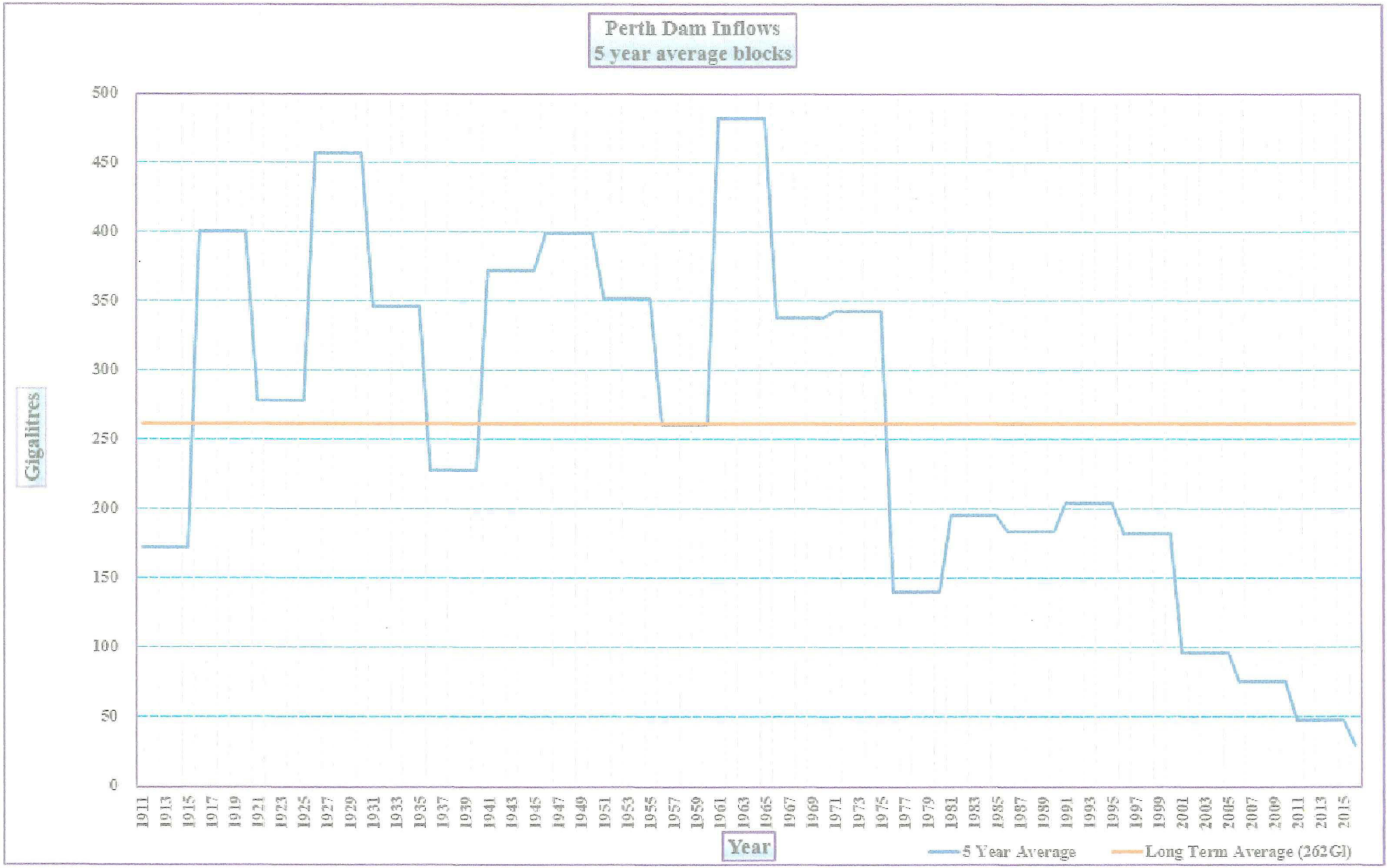
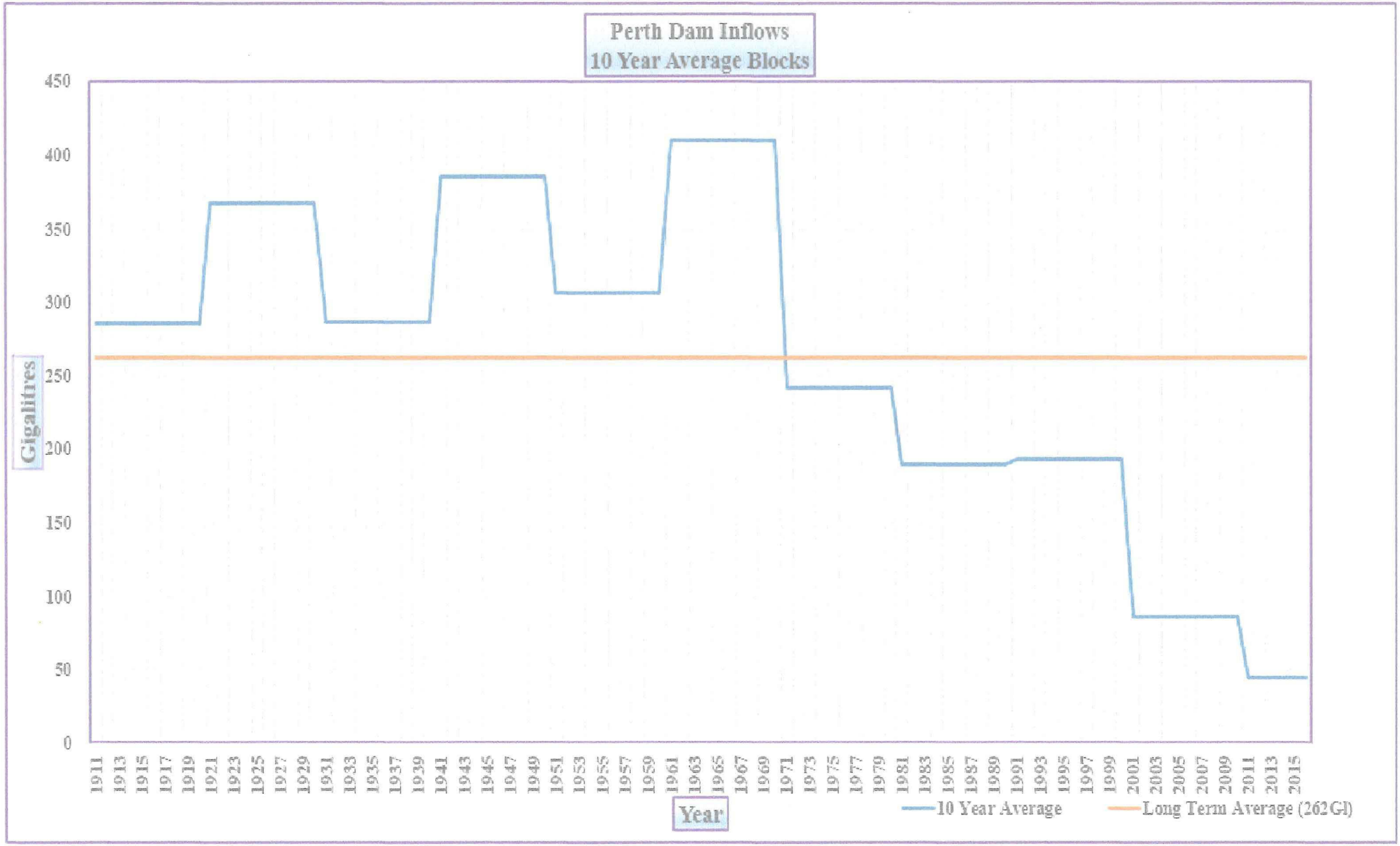


Compiled by **Lindsay Leake**



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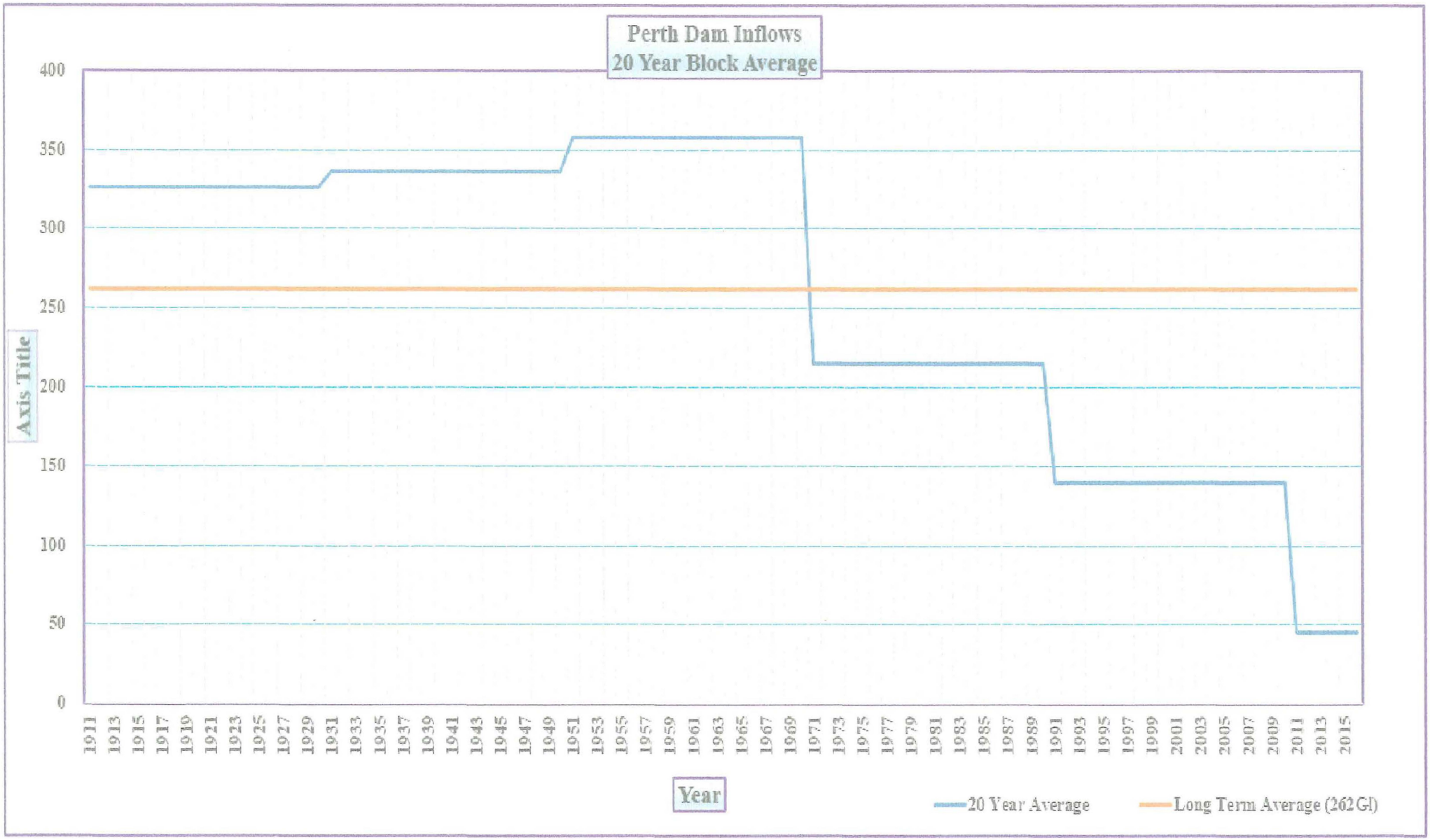
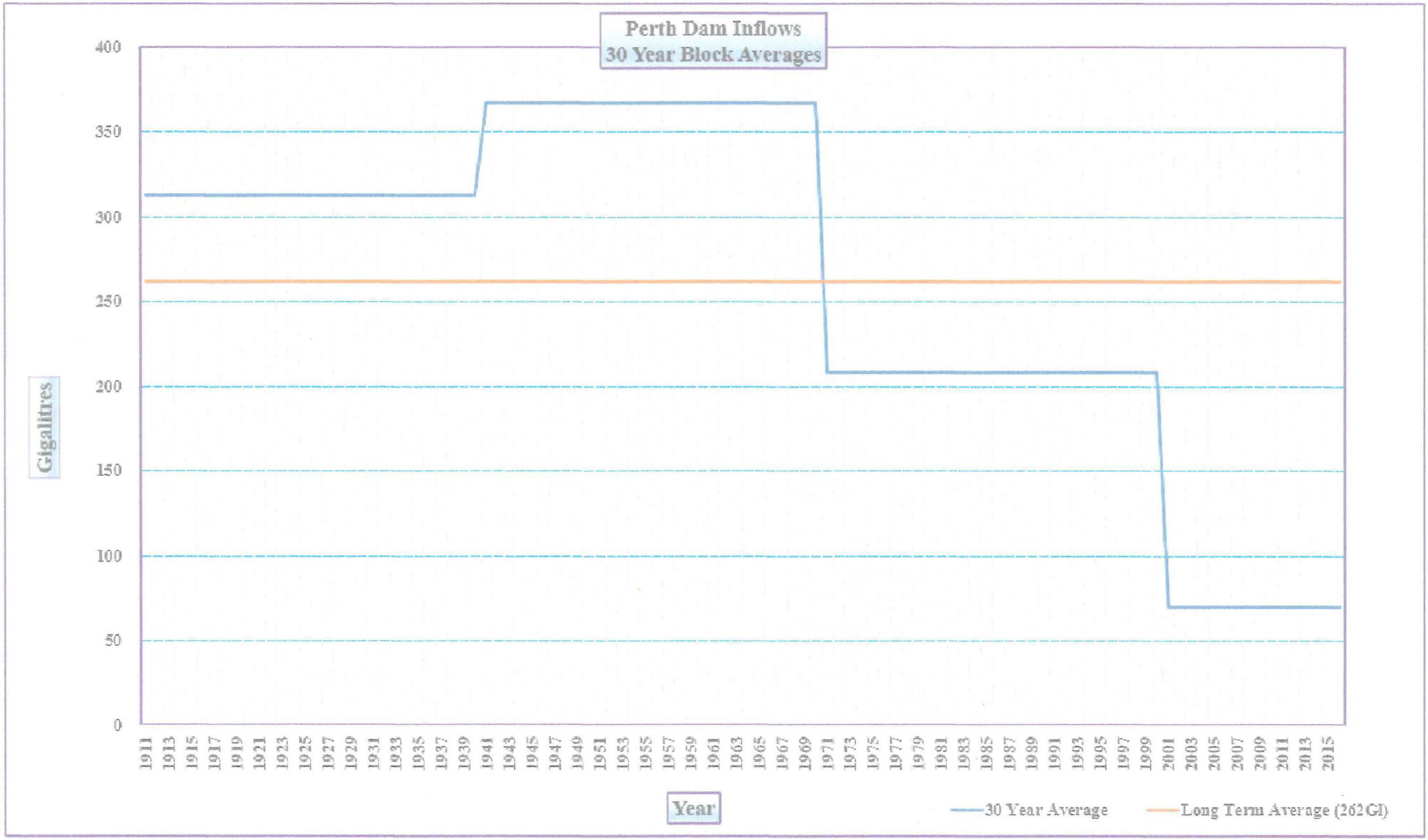
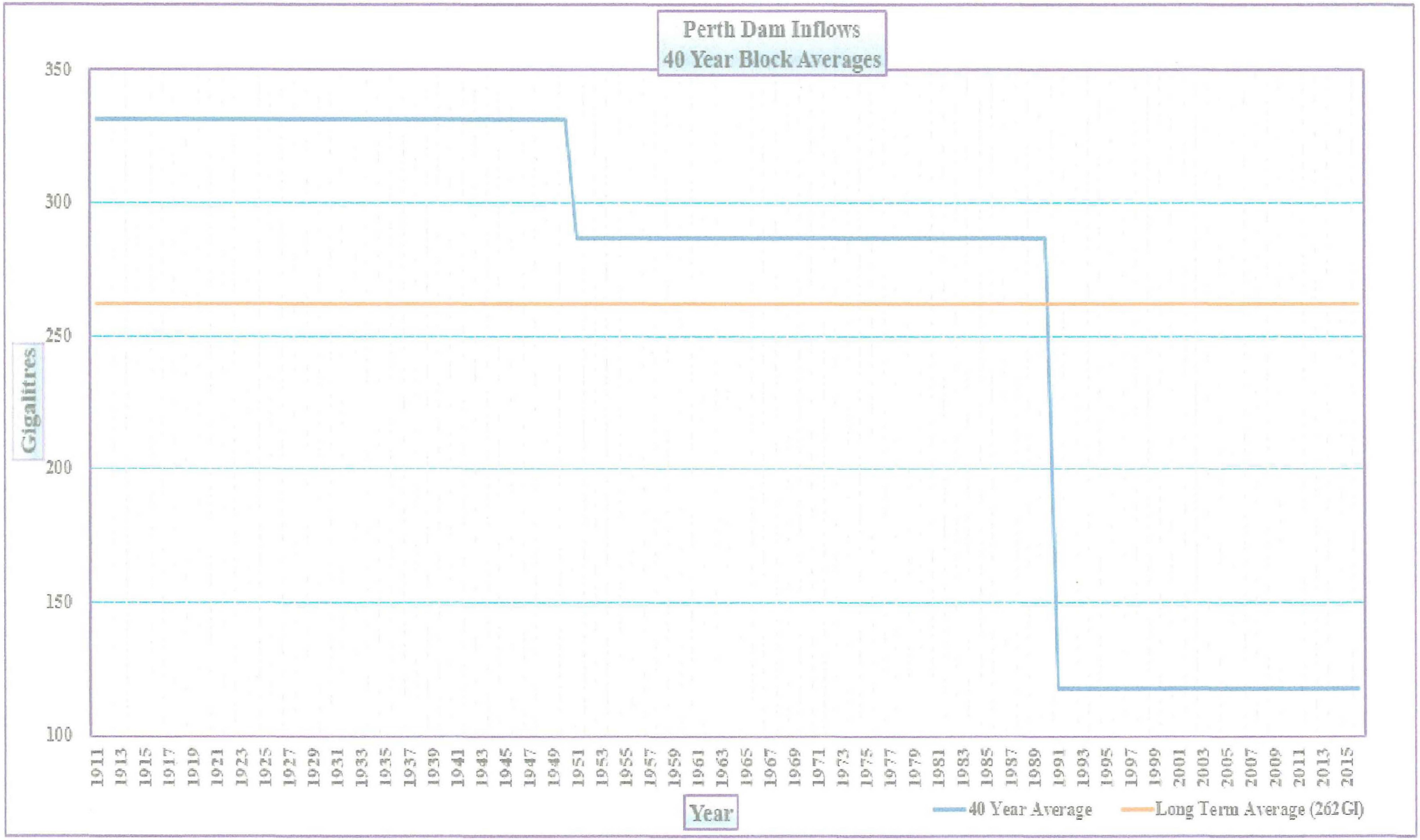


Compiled by **Lindsay Leake**

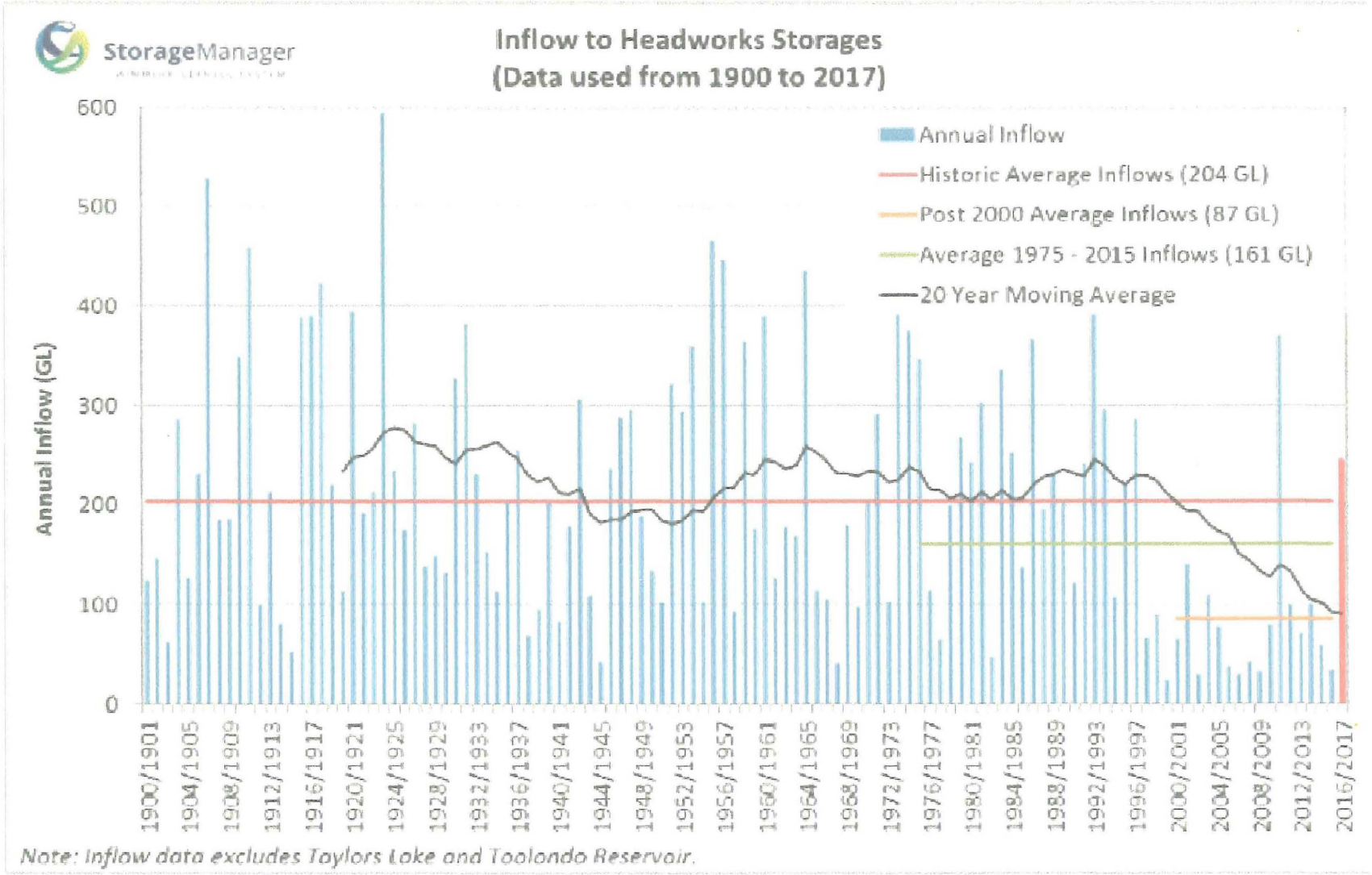


Compiled by **Lindsay Leake**



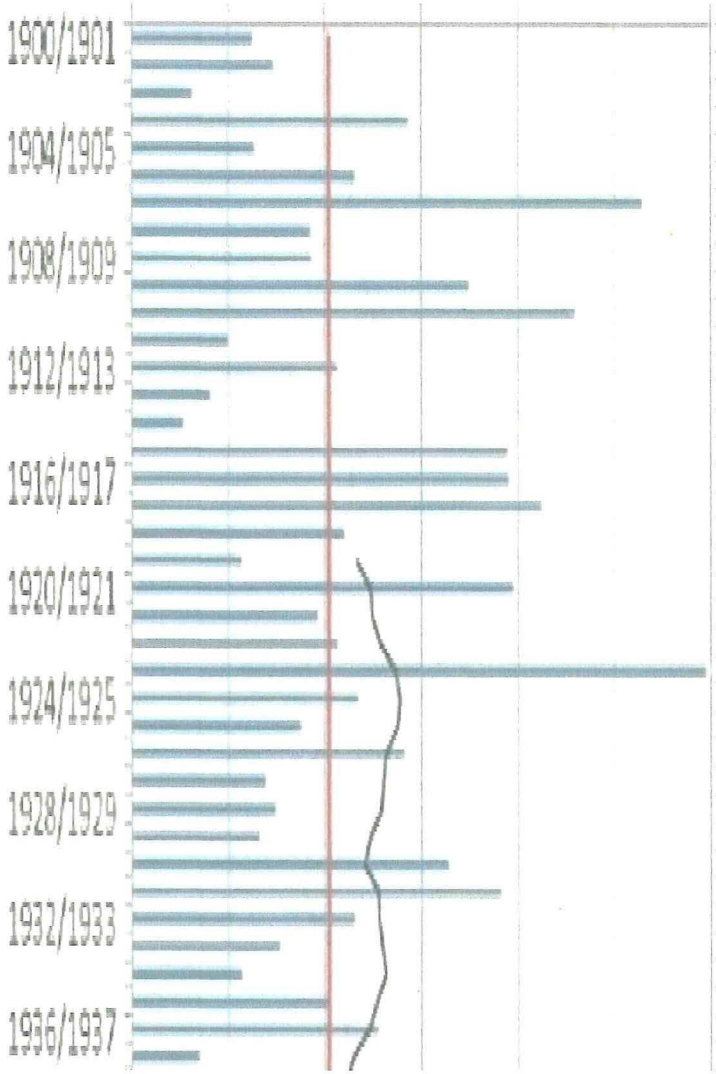
Compiled by **Lindsay Leake**

Figure 3: Historical inflows to the Wimmera-Mallee System Headworks

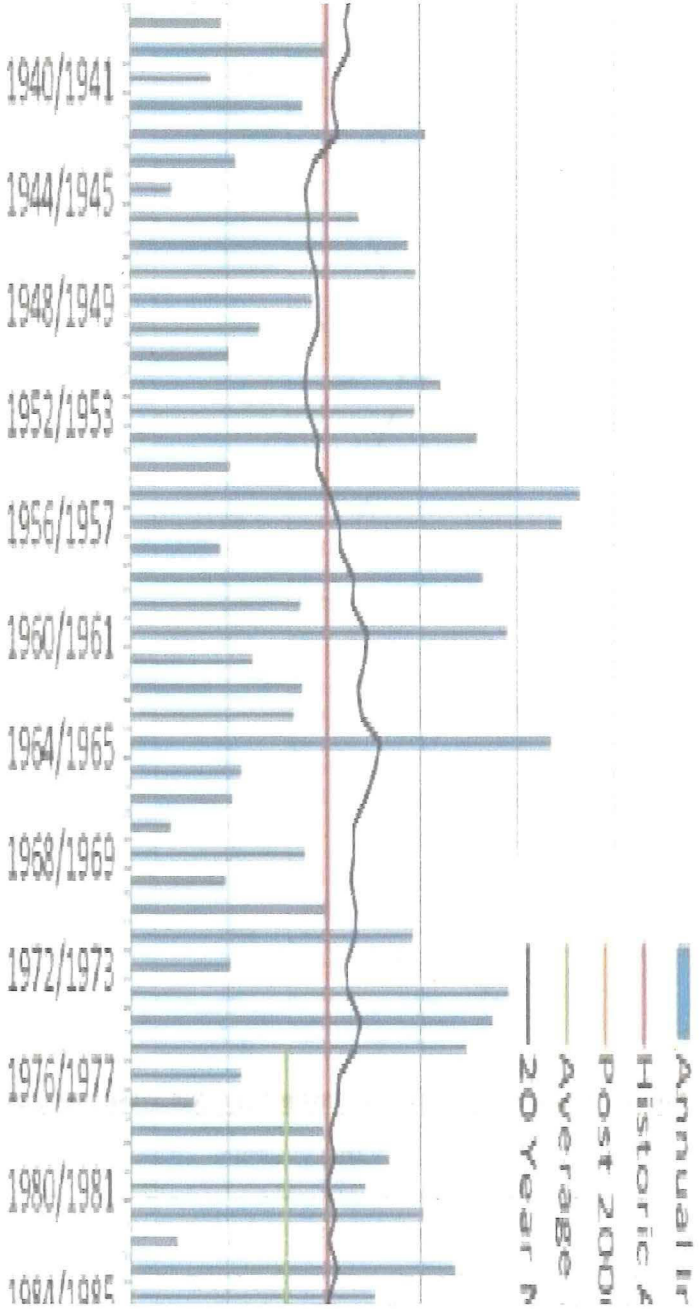


http://www.storagemanager.com.au/component/edocman/1248-annual-operating-plan-2017-18/download

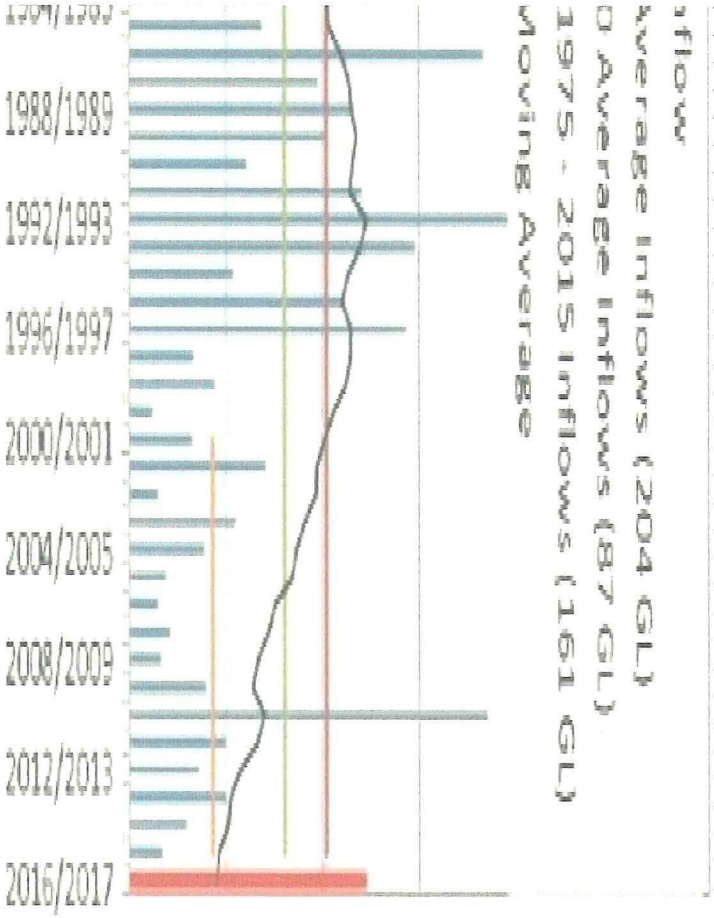
Grampian Wimmera Mallee- Wimmera-Mallee System Headworks-Historical Inflows



Annual Flows (Estimate)			5 Yr M-Av	10 Yr M-Av	20 Yr M-Av	30 Yr M-Av	40 Yr M-Av	Long Term Average (202Gl)	20 Yr Av end 2017
125		1901						202	
150		1902						202	
75		1903						202	
290		1904						202	
125		1905	153					202	
225		1906	173					202	
520		1907	247					202	
190		1908	270					202	
190		1909	250					202	
350		1910	295	224				202	
460		1911	342	258				202	
100		1912	258	253				202	
210		1913	262	266				202	
80		1914	240	245				202	
50		1915	180	238				202	
380		1916	164	253				202	
380		1917	220	239				202	
420		1918	262	262				202	
210		1919	288	264				202	
110		1920	300	240	232			202	
395		1921	303	234	246			202	
195		1922	266	243	248			202	
205		1923	223	243	254			202	
595		1924	300	294	270			202	
220		1925	322	311	274			202	
185		1926	280	292	272			202	
280		1927	297	282	260			202	
135		1928	283	253	258			202	
150		1929	194	247	256			202	
130		1930	176	249	245	238		202	
320		1931	203	242	238	244		202	
380		1932	223	260	252	252		202	
220		1933	240	262	252	257		202	
150		1934	240	217	256	252		202	
110		1935	236	206	259	252		202	
200		1936	212	208	250	251		202	
250		1937	186	205	243	242		202	
80		1938	158	199	226	238		202	



95		1939	147	194	220	235		202	
200		1940	165	201	225	230	228	202	
80		1941	141	177	209	217	227	202	
180		1942	127	157	208	220	228	202	
310		1943	173	166	214	223	234	202	
110		1944	176	162	189	224	229	202	
40		1945	144	155	180	224	227	202	
220		1946	172	157	182	219	227	202	
290		1947	194	161	183	216	221	202	
295		1948	191	182	191	211	224	202	
185		1949	206	191	192	211	224	202	
125		1950	223	184	192	211	218	202	
100		1951	199	186	181	201	209	202	
315		1952	204	199	178	205	215	202	
295		1953	204	198	182	208	217	202	
355		1954	238	222	192	200	224	202	
105		1955	234	229	192	196	225	202	
465		1956	307	253	205	206	227	202	
440		1957	332	268	214	211	229	202	
90		1958	291	248	215	210	220	202	
365		1959	293	266	228	217	224	202	
180		1960	308	271	227	218	226	202	
390		1961	293	300	243	221	226	202	
120		1962	229	281	240	212	224	202	
175		1963	246	269	233	211	223	202	
170		1964	207	250	236	211	213	202	
425		1965	256	282	255	222	218	202	
110		1966	200	247	250	219	216	202	
110		1967	198	214	241	214	212	202	
40		1968	171	209	228	213	209	202	
180		1969	173	190	228	216	210	202	
95		1970	107	182	226	212	209	202	
200		1971	125	163	231	216	206	202	
290		1972	161	180	230	220	204	202	
105		1973	174	173	221	213	201	202	
390		1974	216	195	222	222	207	202	
370		1975	271	189	236	233	214	202	
340		1976	299	212	229	237	217	202	
110		1977	263	212	213	231	214	202	
75		1978	257	216	212	224	213	202	
200		1979	219	218	204	224	216	202	
270		1980	199	235	208	229	218	202	
250		1981	181	240	201	234	222	202	
300		1982	219	241	210	234	225	202	
50		1983	214	236	204	226	219	202	
335		1984	241	230	212	225	224	202	
265		1985	240	220	204	230	230	202	



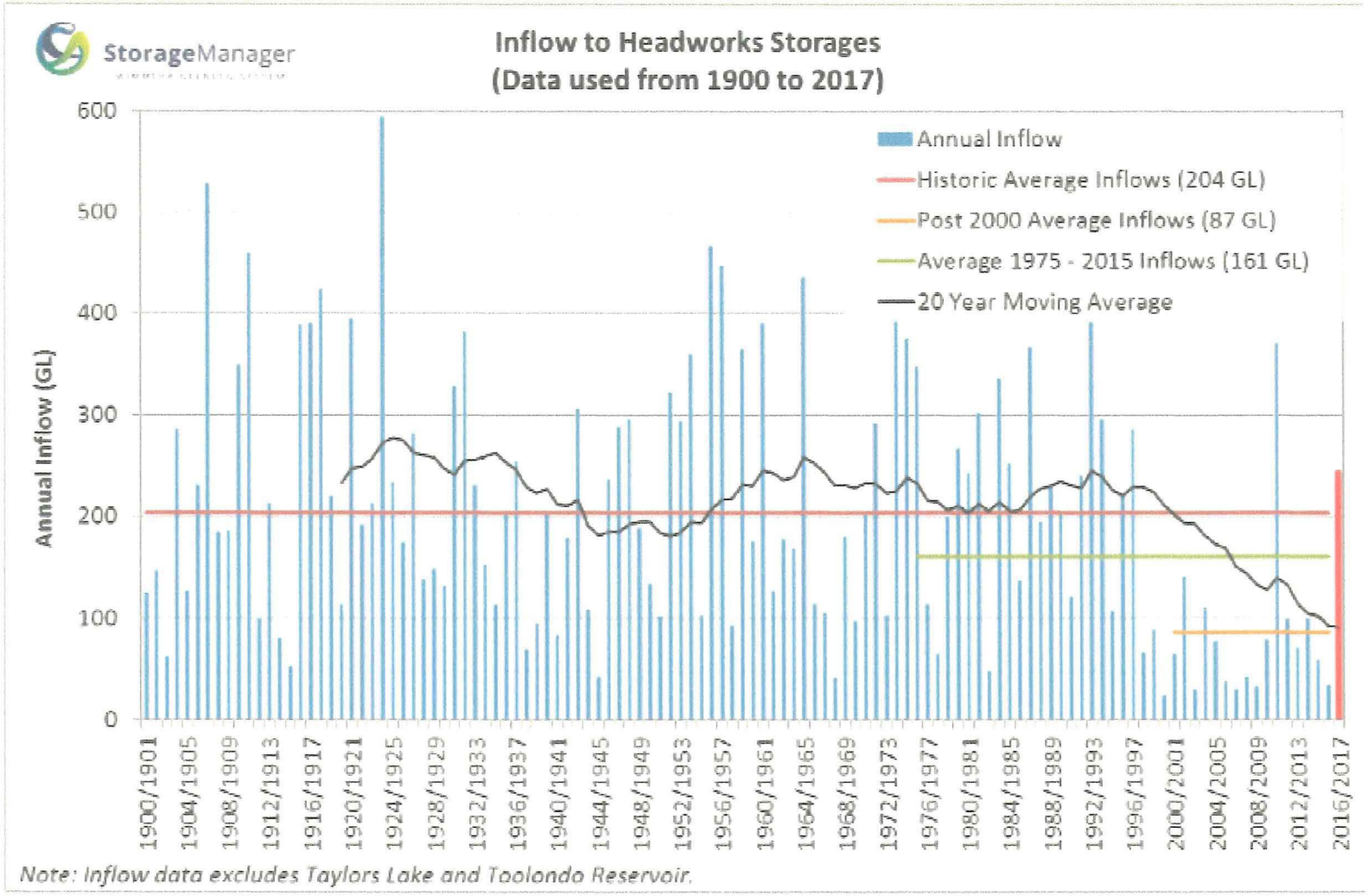
130		1986	216	199	205	219	228	202	
360		1987	228	224	218	216	229	202	
190		1988	256	235	225	220	227	202	
225		1989	234	238	228	215	228	202	
200		1990	221	231	233	216	230	202	
120		1991	219	218	229	207	230	202	
240		1992	195	212	226	211	228	202	
420		1993	241	249	242	219	231	202	
290		1994	254	244	237	223	230	202	
110		1995	236	229	224	212	230	202	
210		1996	254	237	218	216	223	202	
290		1997	264	230	227	222	220	202	
70		1998	194	218	226	223	219	202	91
85		1999	153	204	221	220	212	202	91
25		2000	136	186	208	217	208	202	91
70		2001	108	181	199	213	200	202	91
150		2002	80	172	192	208	201	202	91
25		2003	71	133	191	206	197	202	91
110		2004	76	115	179	196	196	202	91
70		2005	85	111	170	186	187	202	91
40		2006	79	94	165	176	185	202	91
30		2007	55	68	149	174	183	202	91
40		2008	58	65	141	172	183	202	91
35		2009	43	60	132	167	180	202	91
75		2010	44	65	125	160	179	202	91
380		2011	112	96	138	165	184	202	91
100		2012	126	91	131	158	179	202	91
70		2013	132	95	114	159	178	202	91
100		2014	145	94	104	151	171	202	91
60		2015	142	93	102	144	163	202	91
40		2016	74	93	93	141	155	202	91
250		2017	104	115	91	137	159	202	91
23,655									

202 Average

204 GWM Av

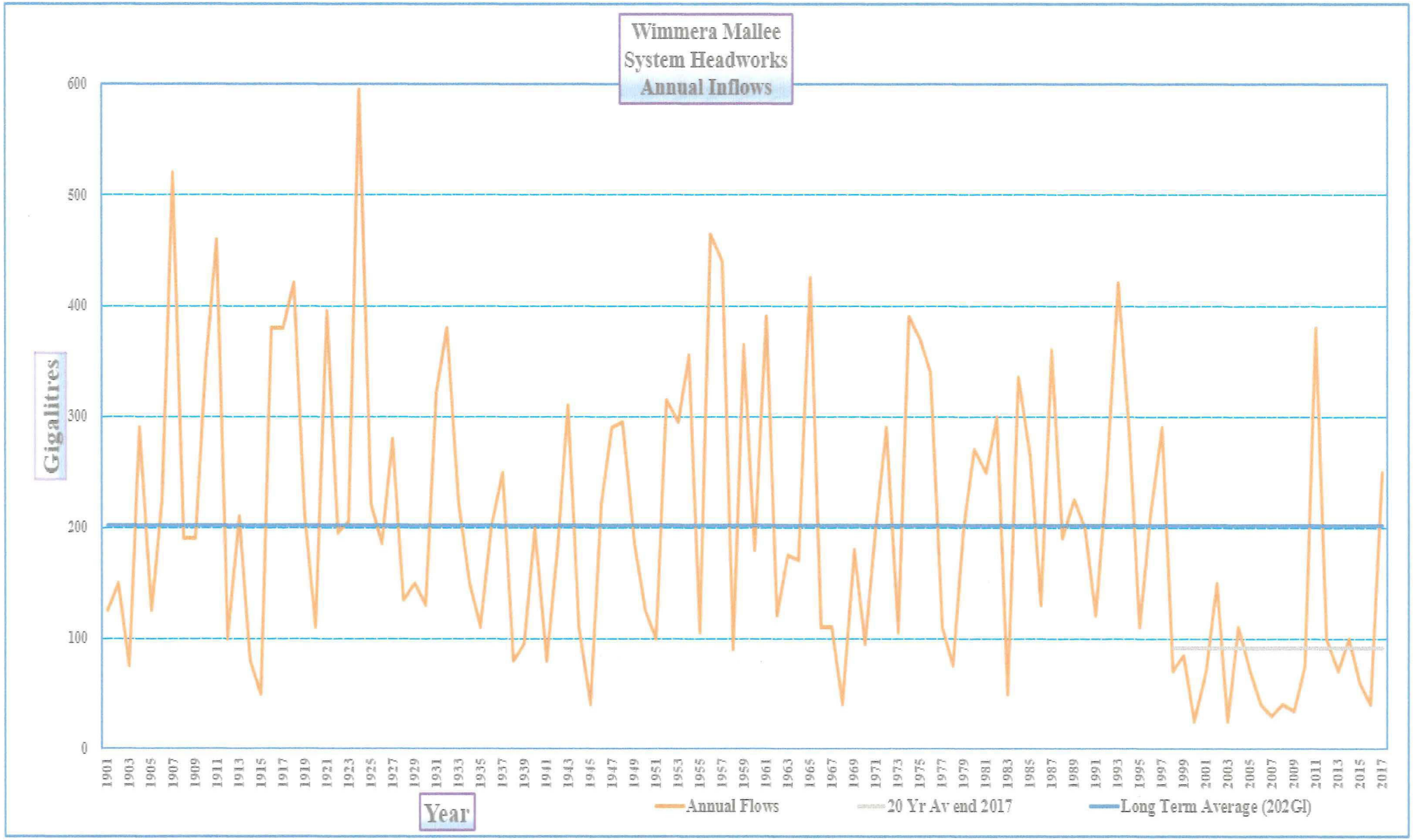
20 Yr average ending 2017 91

Figure 3: Historical inflows to the Wimmera-Mallee System Headworks

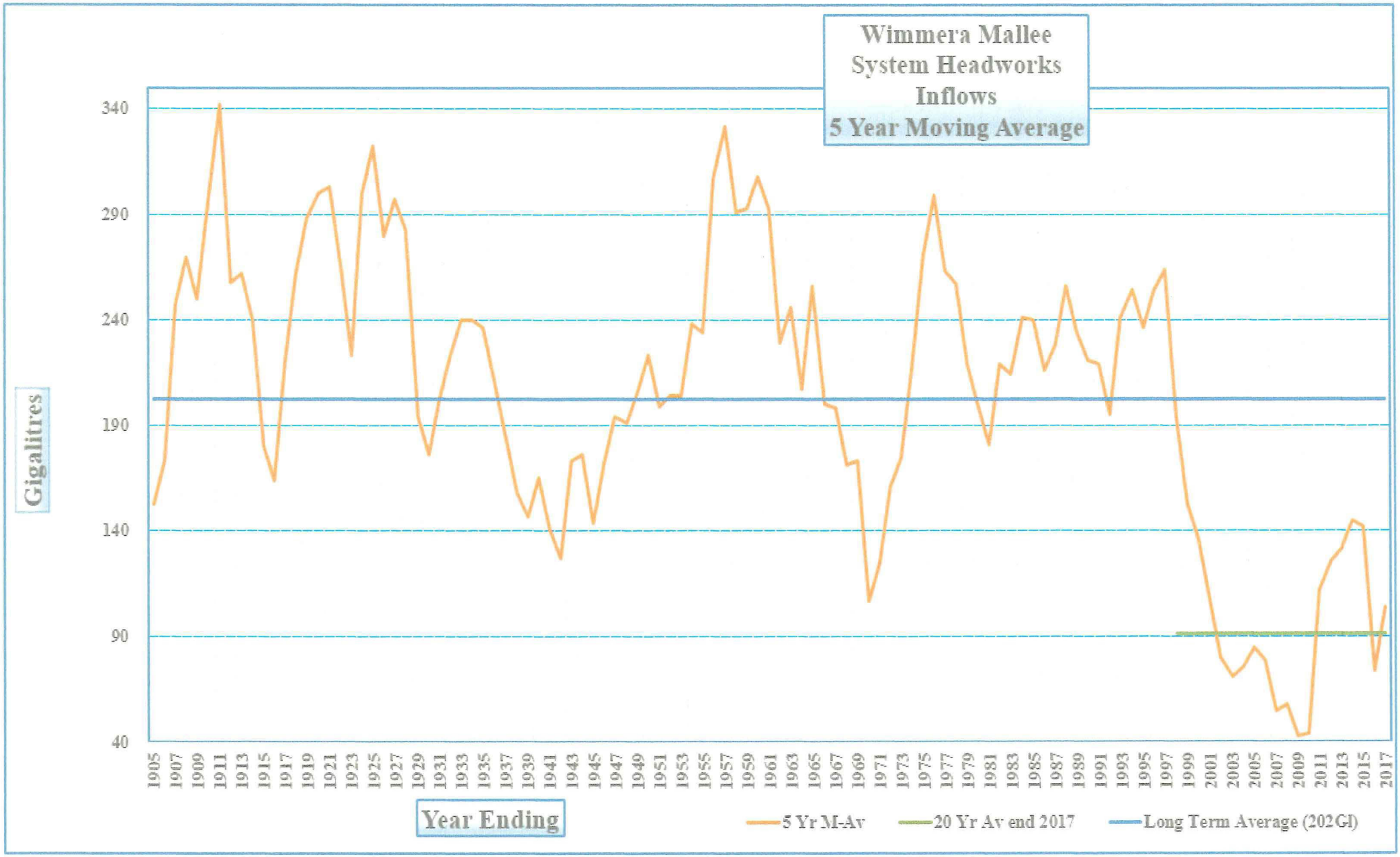


Note: Inflow data excludes Taylors Lake and Toolondo Reservoir.

http://www.storagemanager.com.au/component/edocman/1248-annual-operating-plan-2017-18/download



Compiled by **Lindsay Leake**



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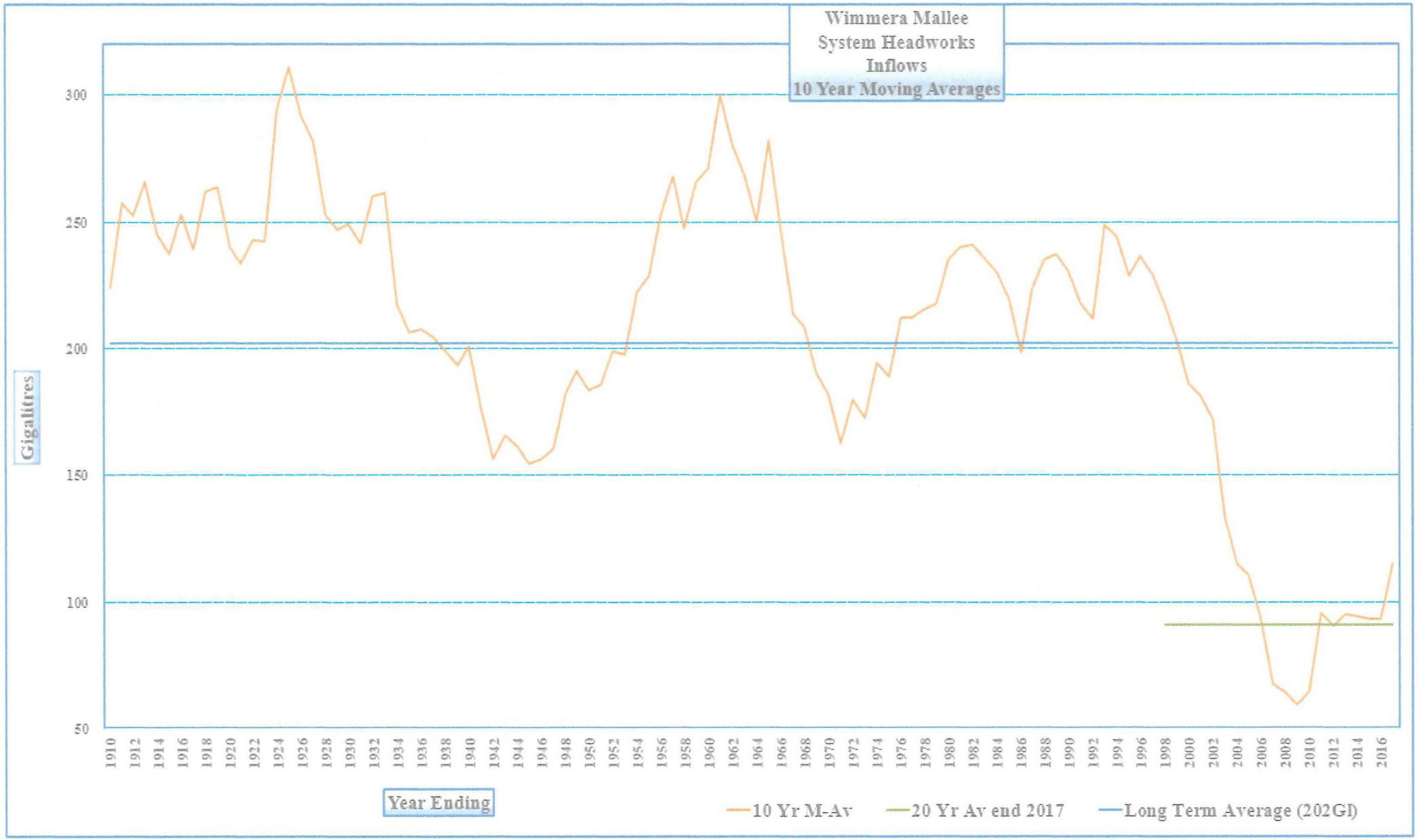
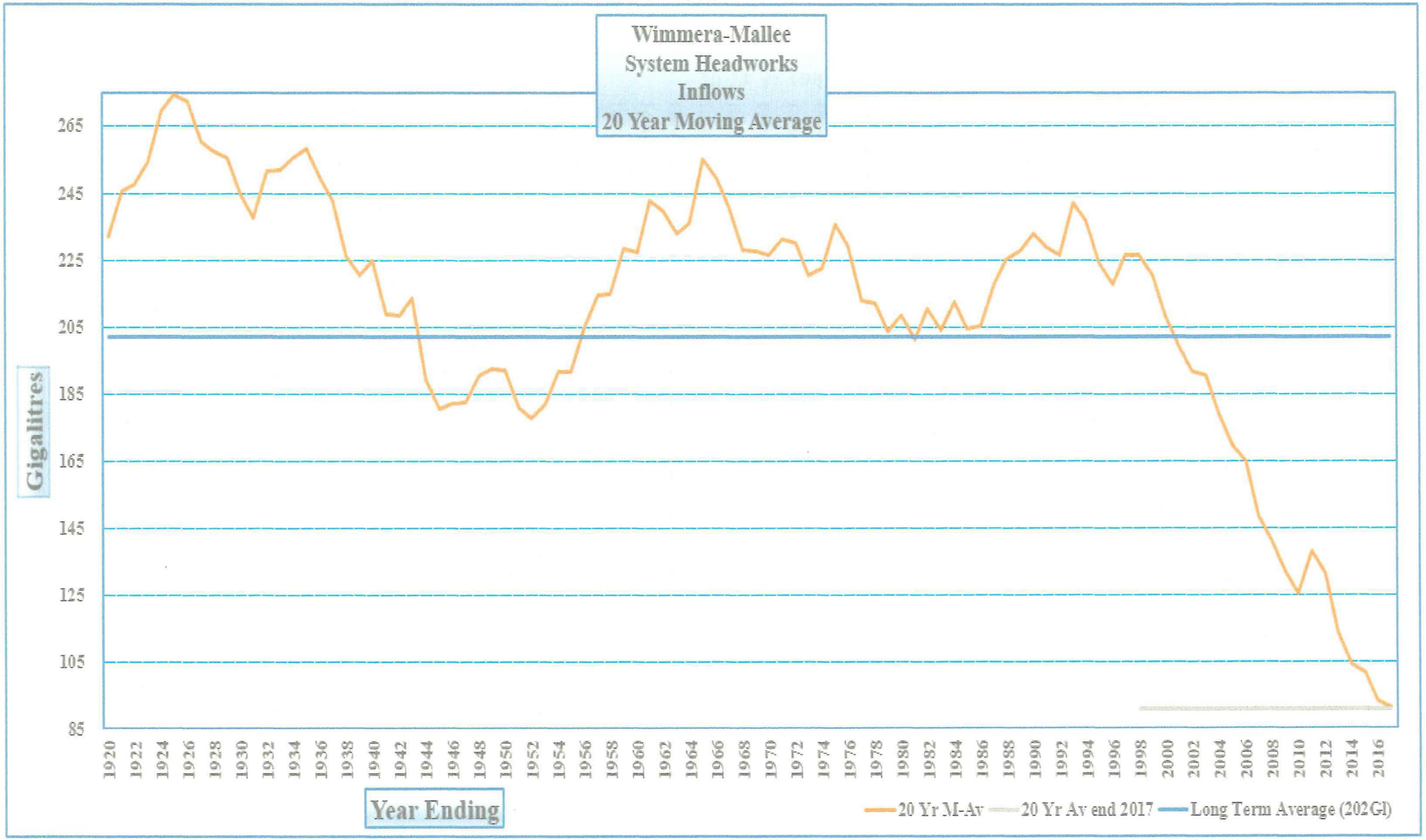


Compiled by **Lindsay Leake**



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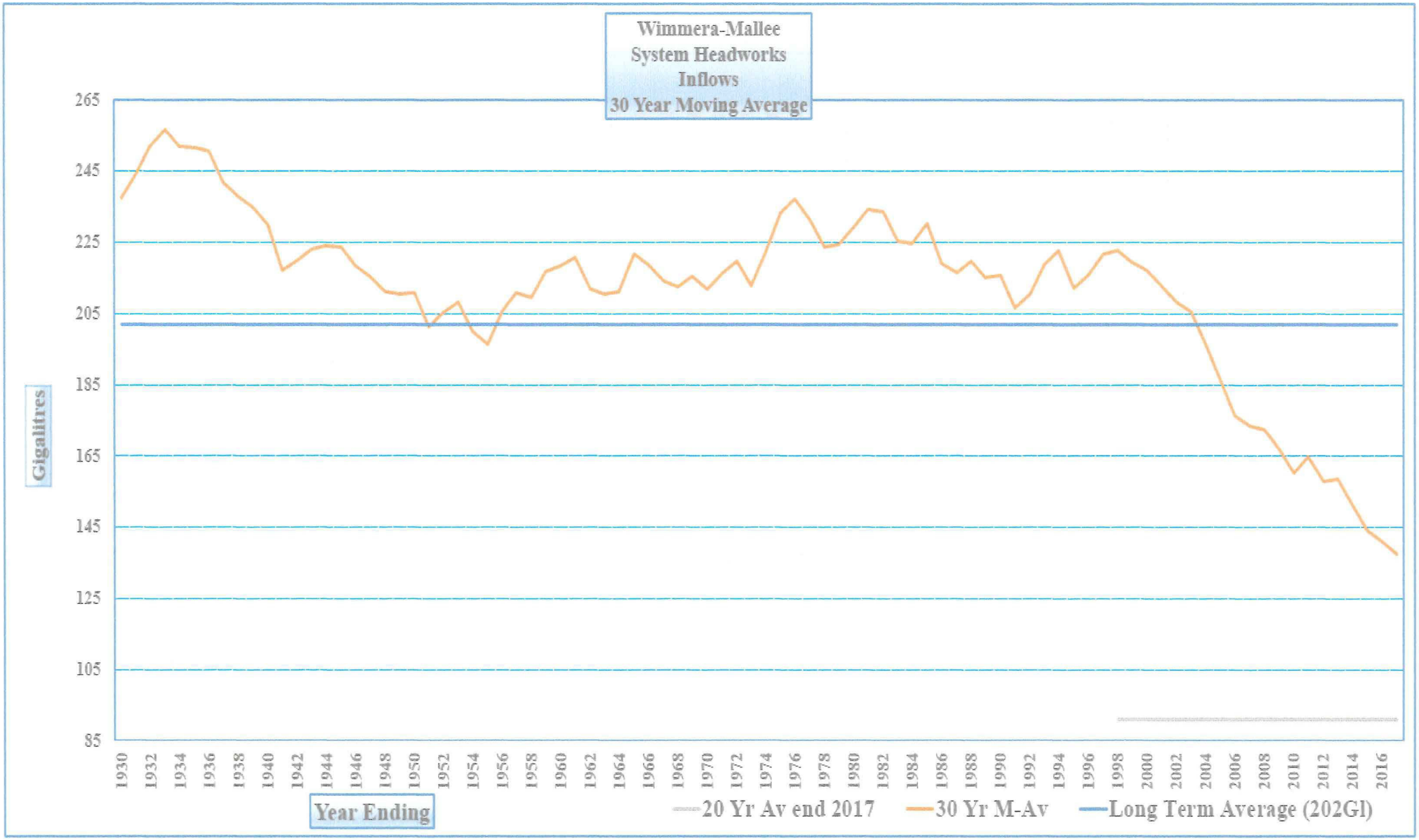

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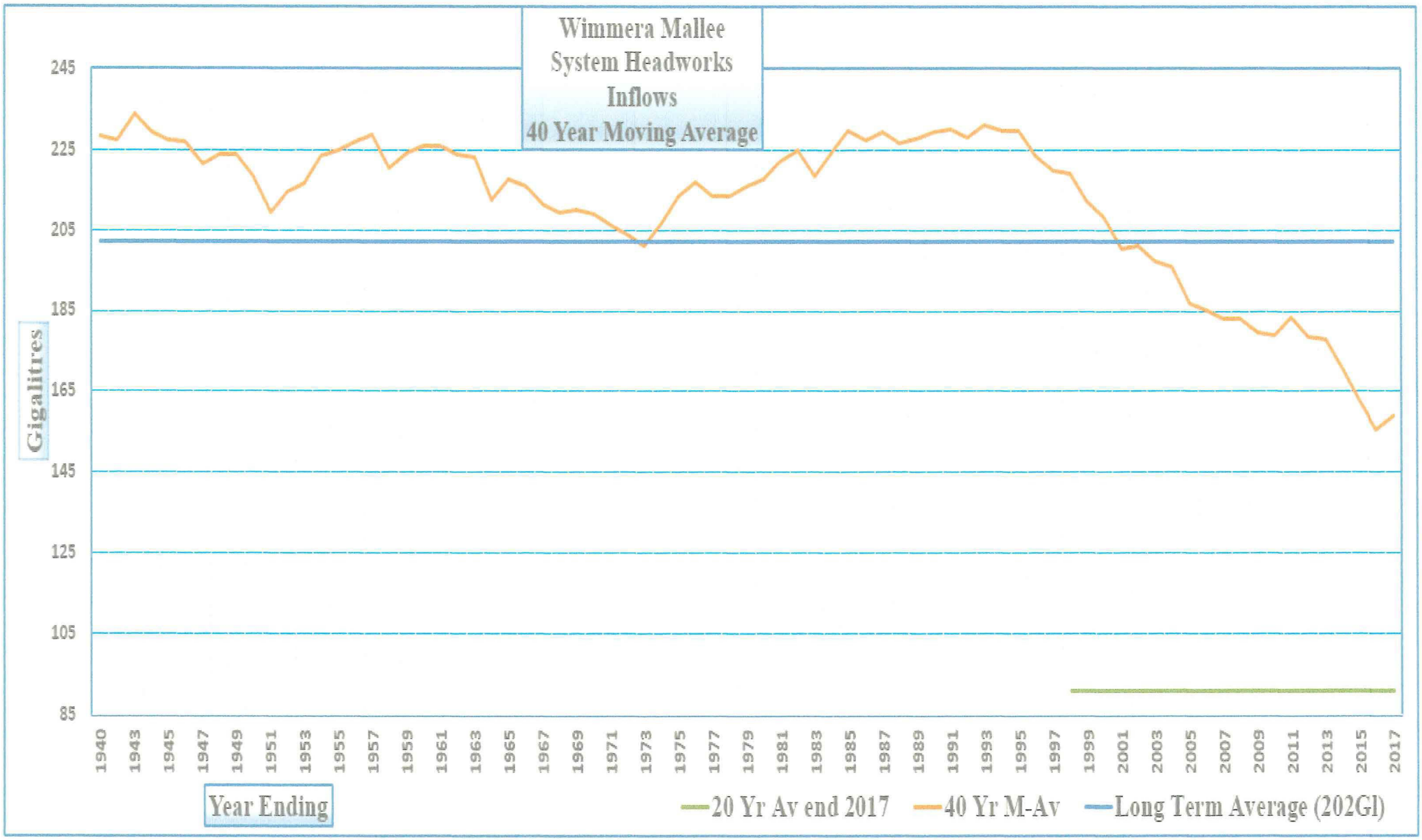

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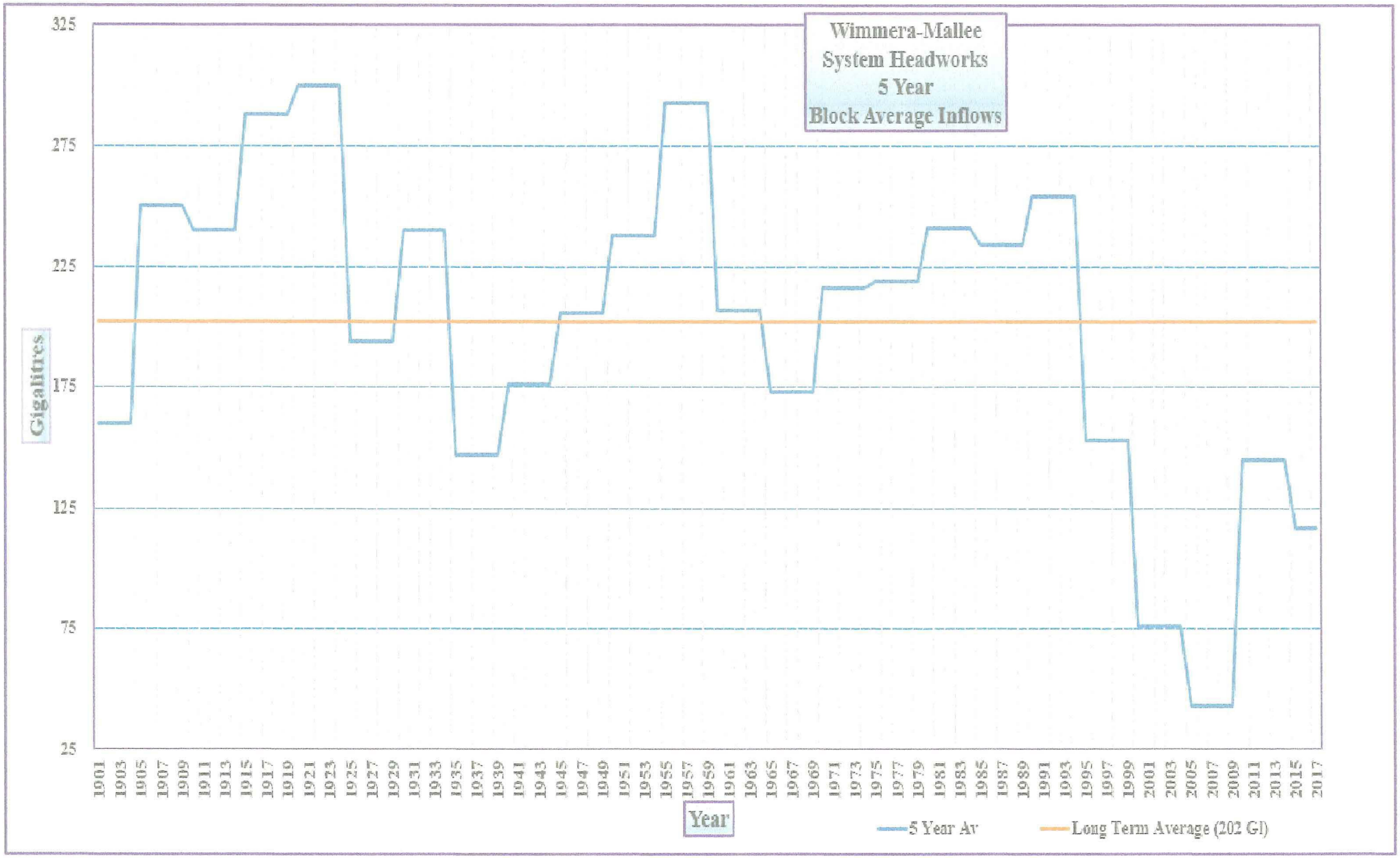

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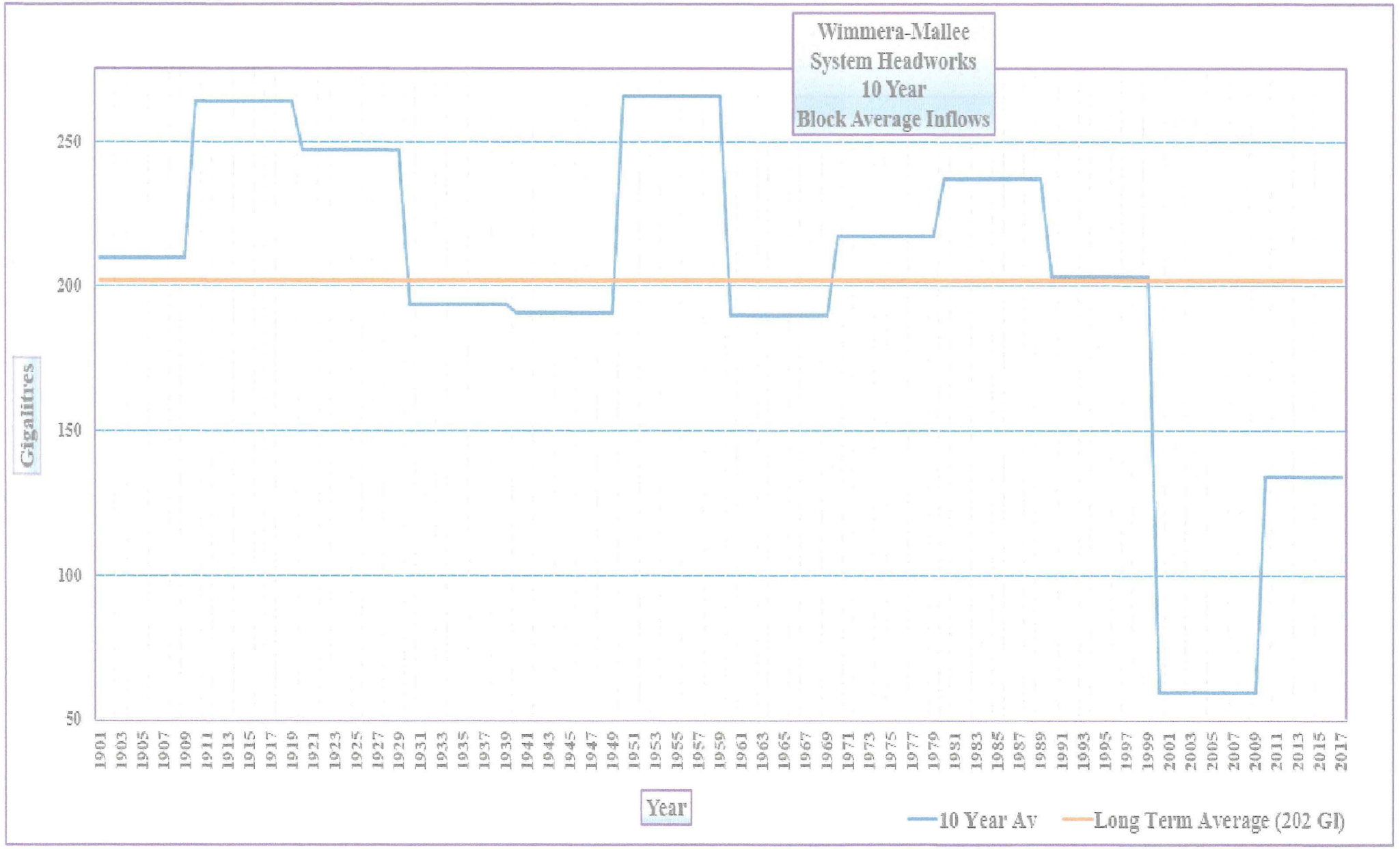

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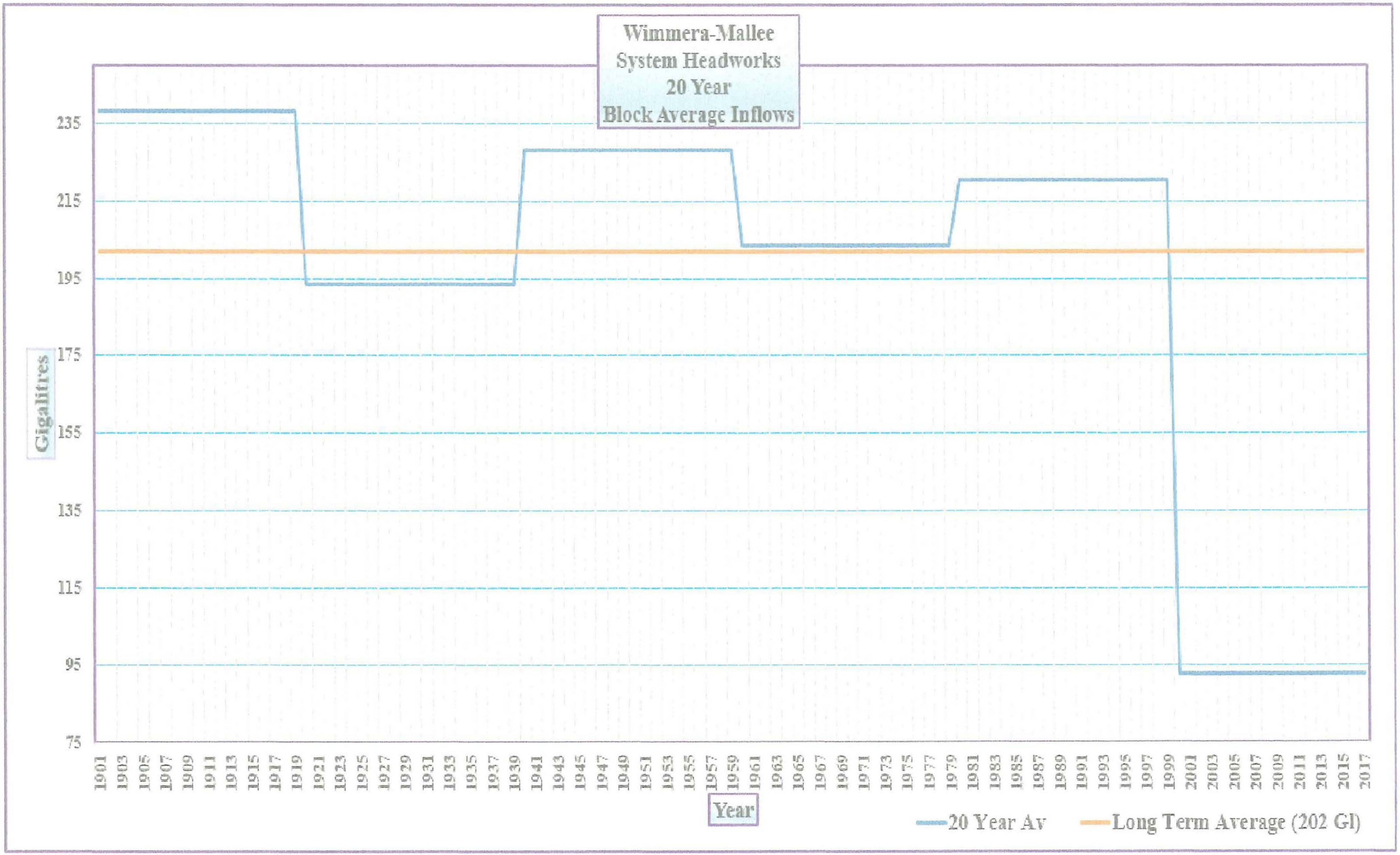

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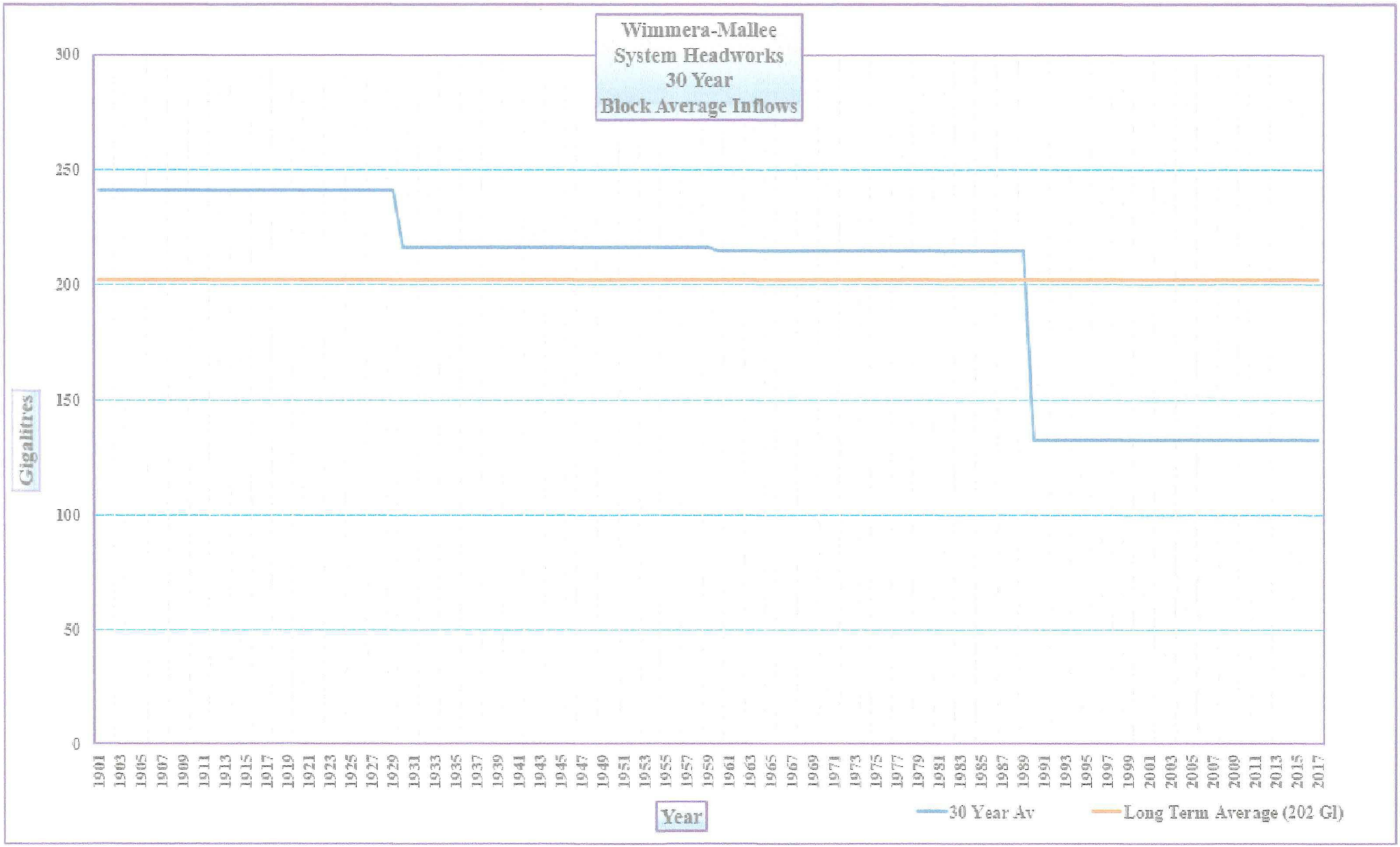

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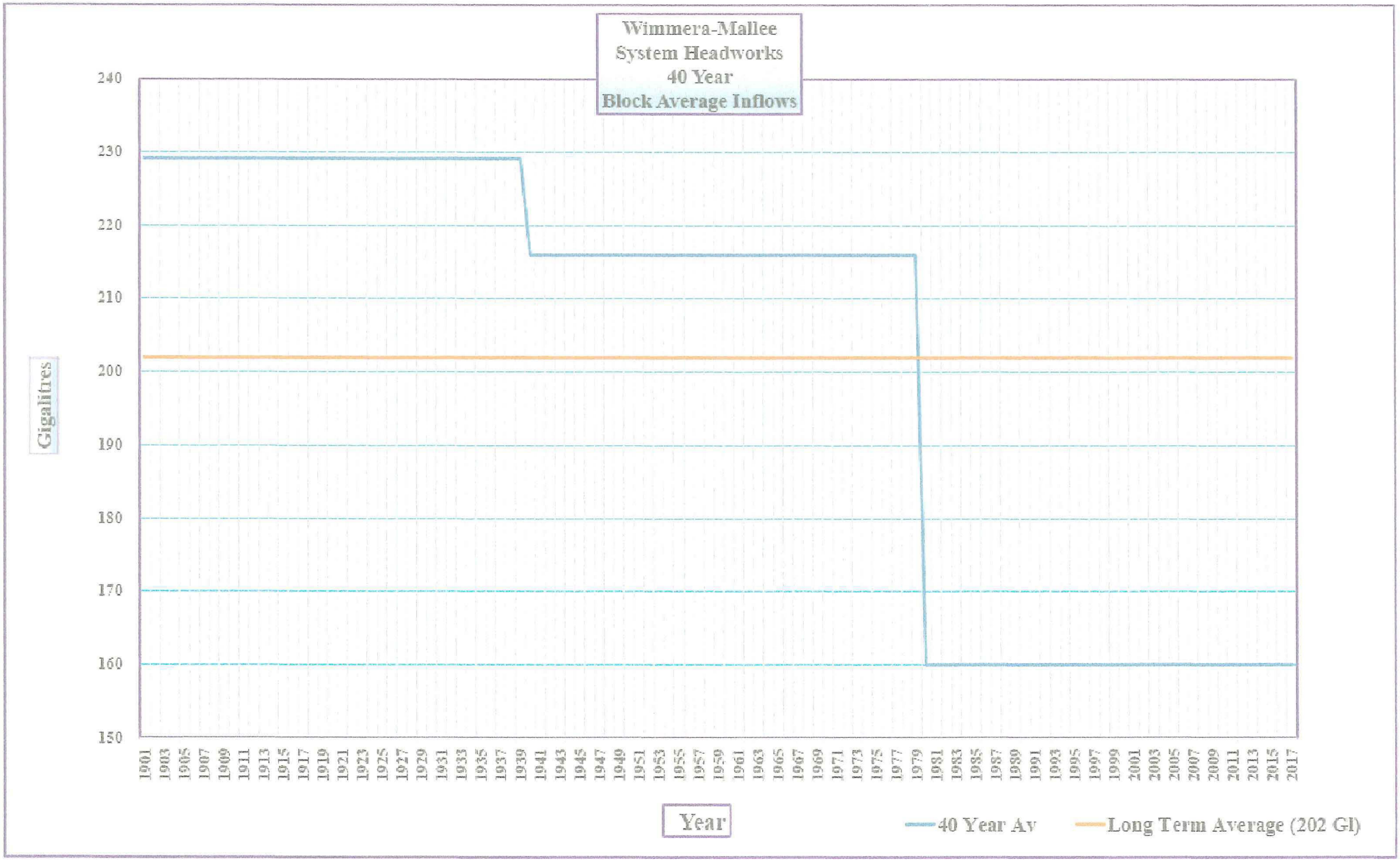

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