



Shannon Catchment-based Flood Risk Assessment and Management (CFRAM) Study

Inception Report – Unit of Management 25/26

Draft Final Report

Appendix B: Preliminary Hydrological Assessment and Method Statement

Volume 2 – Appendices



Document control sheet

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Originator		Checked by	Reviewed by	Approved by
ORIGINAL	NAME	NAME	NAME	NAME
	HH/SM/ET	Steve Dunthorne	Steve Dunthorne	Mike Hind
DATE	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
August 2011				
Document Status				

REVISION	NAME HH/SM/ET	NAME	NAME	NAME Peter Smyth
DATE January 2012	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
Document Status				

REVISION	NAME Elmar Torenga	NAME Iain Blackwell	NAME Iain Blackwell	NAME Peter Smyth
DATE September 2012	SIGNATURE	SIGNATURE	SIGNATURE	SIGNATURE
Document Status				

REVISION	NAME	NAME	NAME	NAME
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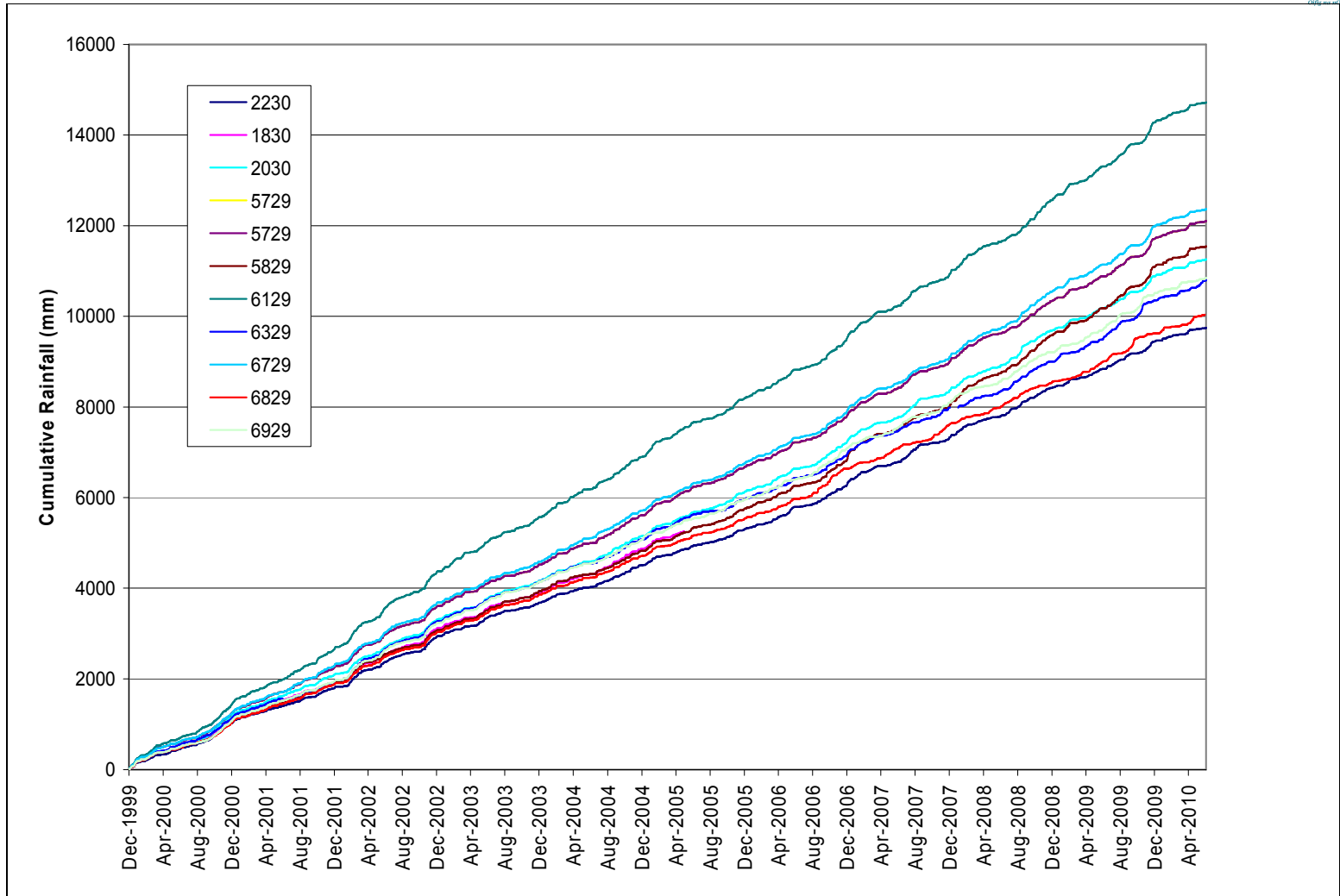
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Appendix A All Hydrometric Stations Listed in EPA Register for HA25-26

Appendix A lists all gauging stations featured in the EPA Register for Hydrometric Areas 25 and 26 but also includes those gauging stations in Hydrometric Area 24 that have been considered within the Shannon Upper and Shannon Lower Unit of Management.

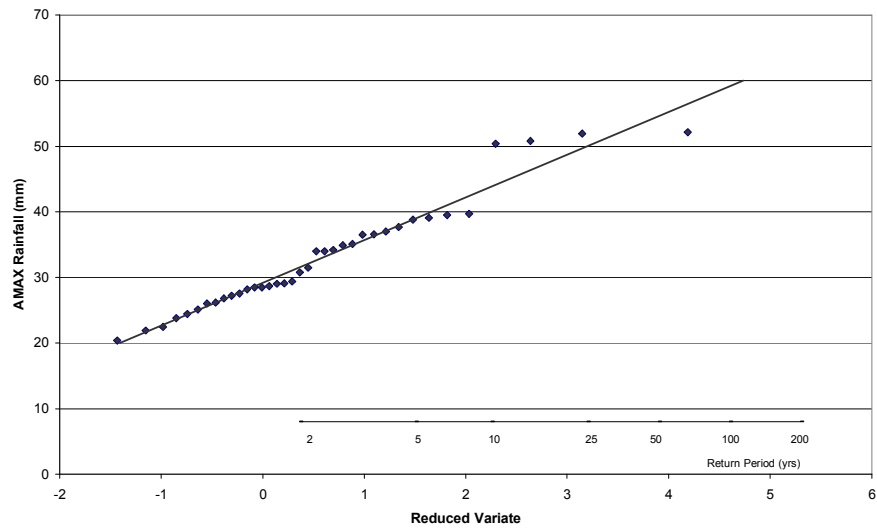


Appendix B Double Mass Rainfall Plots

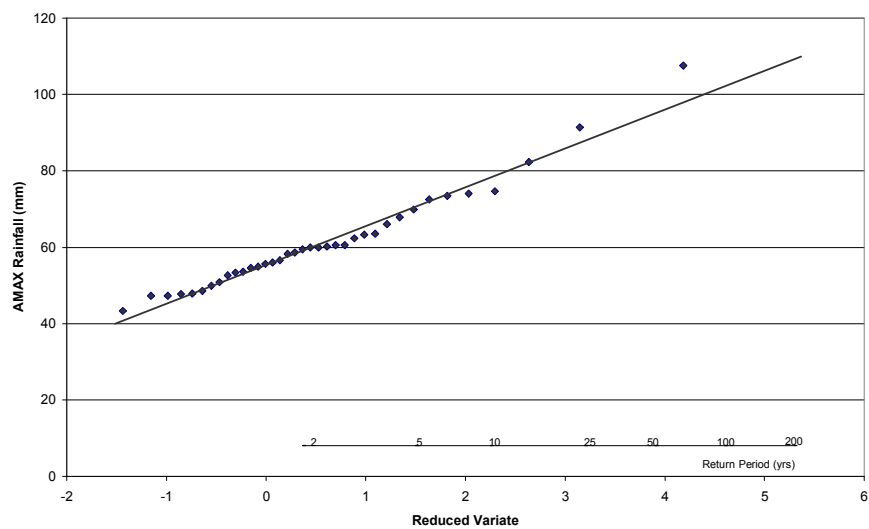


Cumulative rainfall plot for selected representative raingauges.

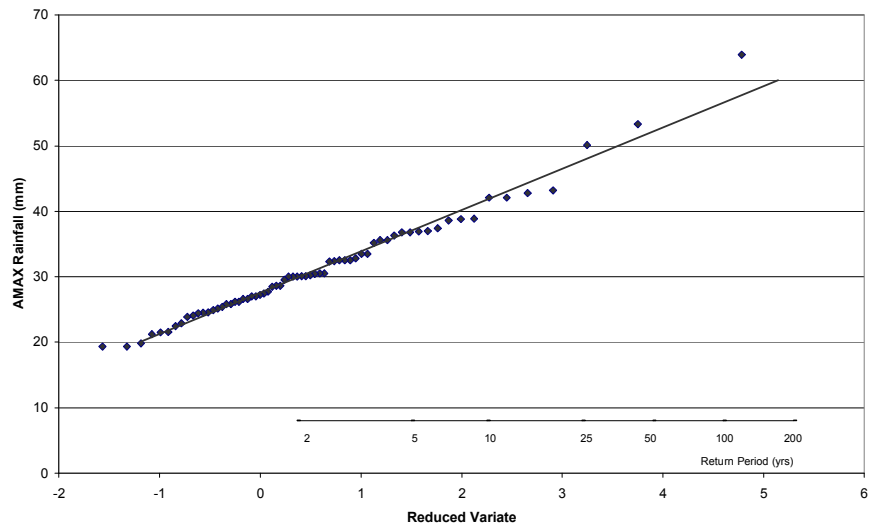
Appendix C 1 day and 4 day Rainfall Probability Plots



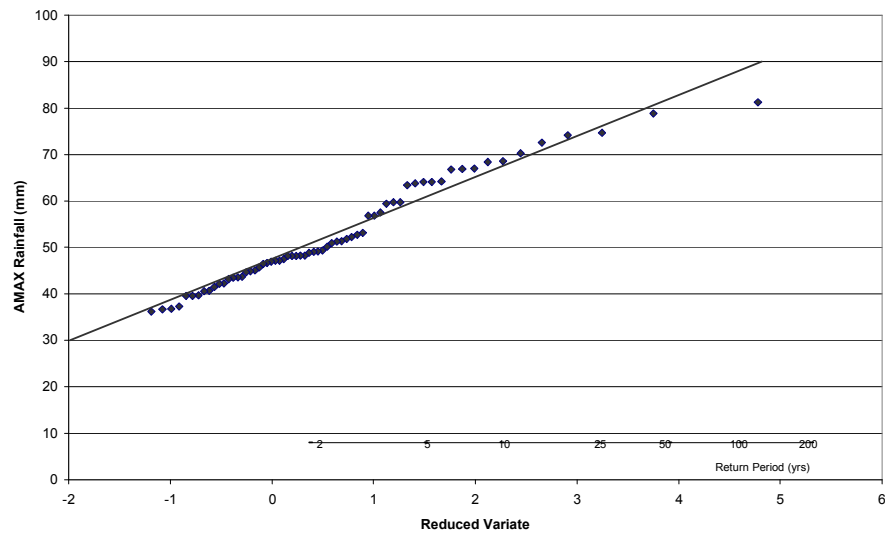
1128 Loughlin raingauge 1 day duration probability plot



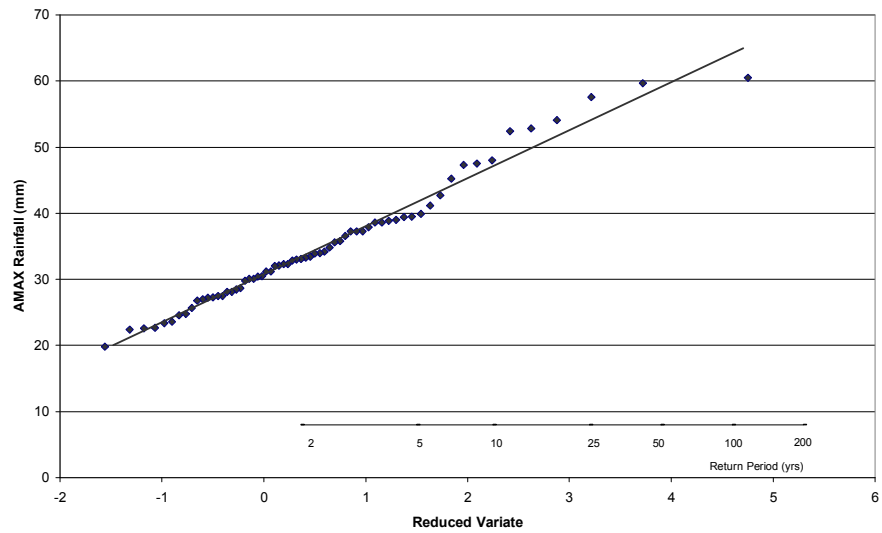
1128 Loughlin raingauge 4 day duration probability plot



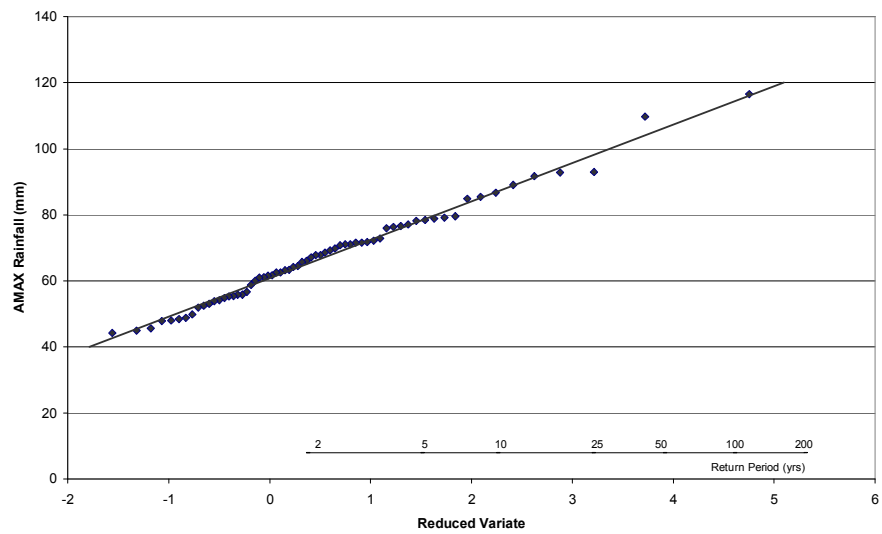
1719 Bannagher raingauge 1 day duration probability plot



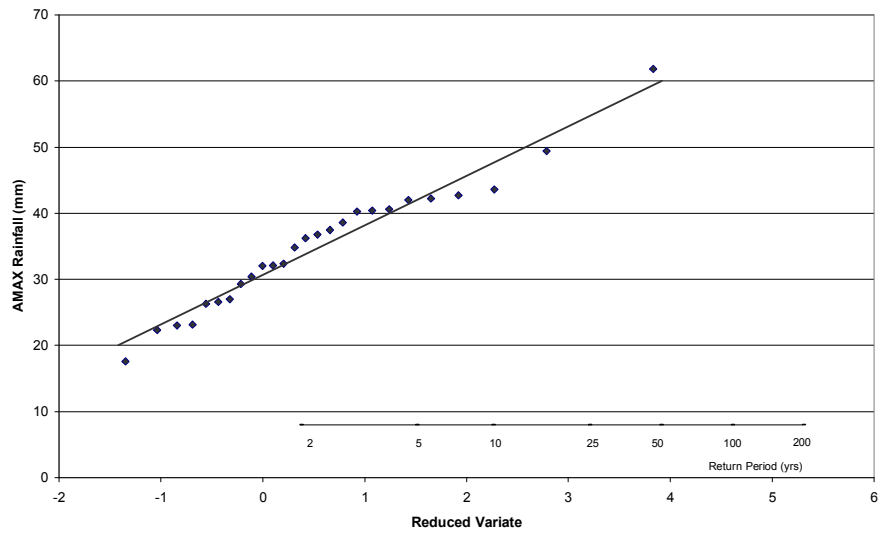
1719 Bannagher raingauge 4 day duration probability plot



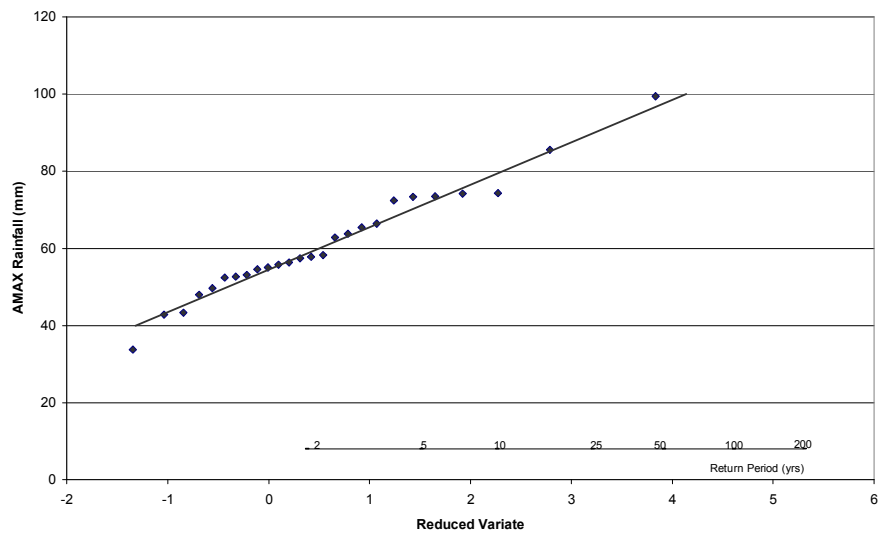
1729 Drumshanbo raingauge 1 day duration probability plot



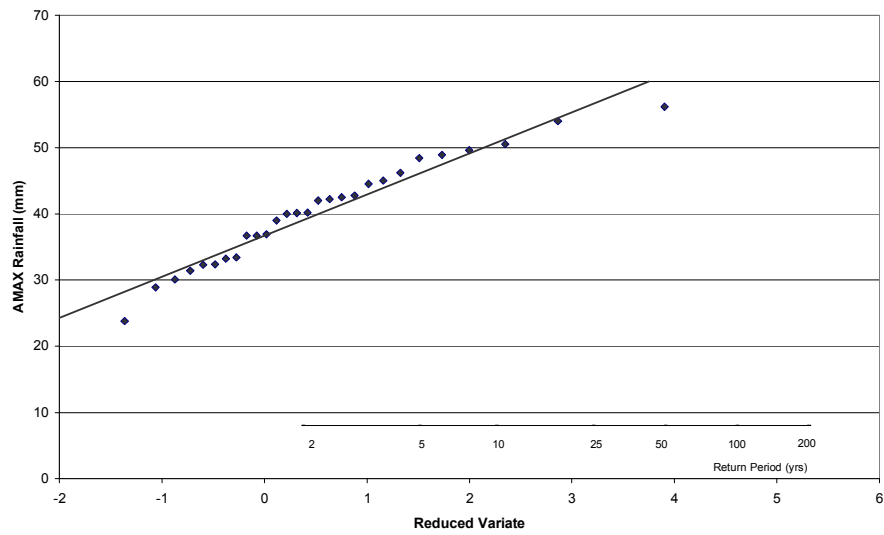
1729 Drumshanbo raingauge 4 day duration probability plot



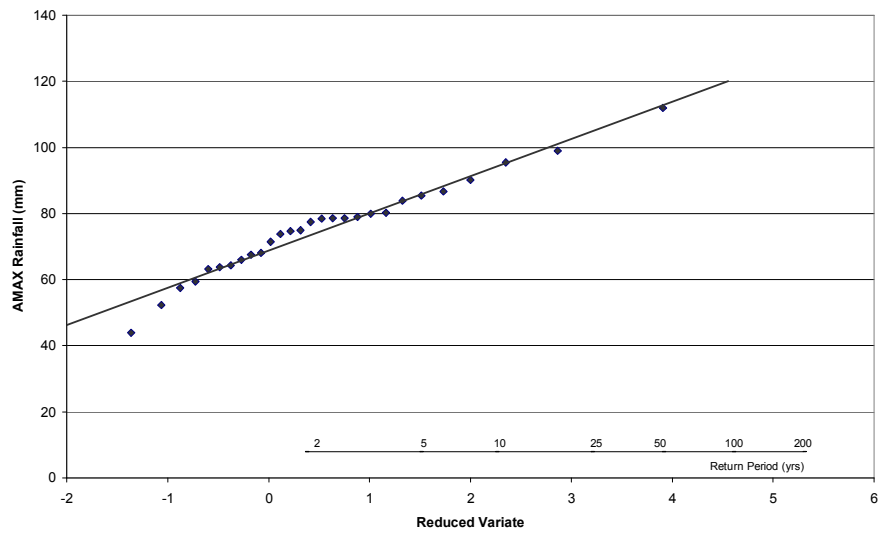
2628 Balinasloe raingauge 1 day duration probability plot



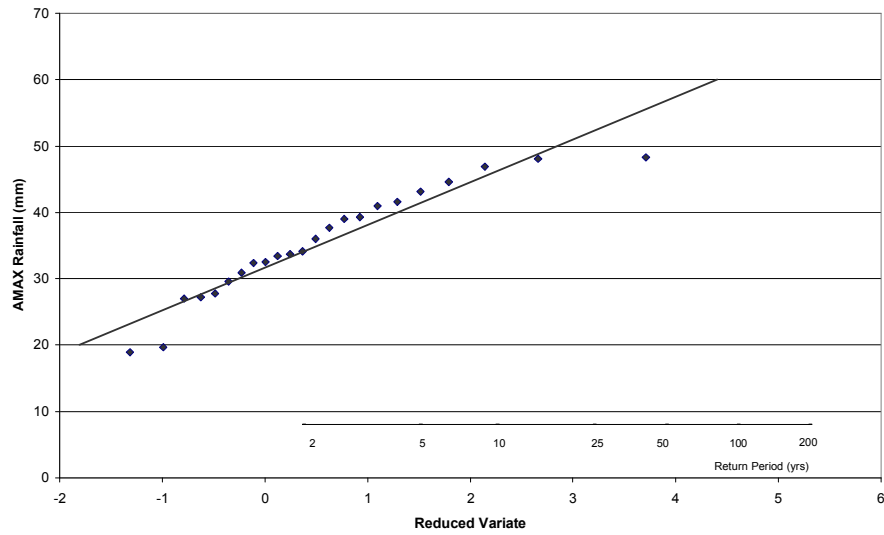
2628 Balinasloe raingauge 4 day duration probability plot



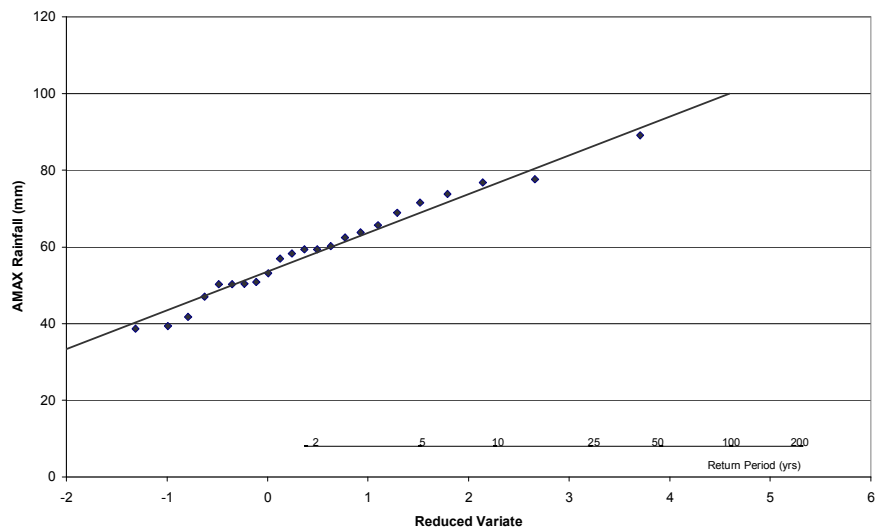
6019 Killaloe raingauge 1 day duration probability plot



6019 Killaloe raingauge 4 day duration probability plot



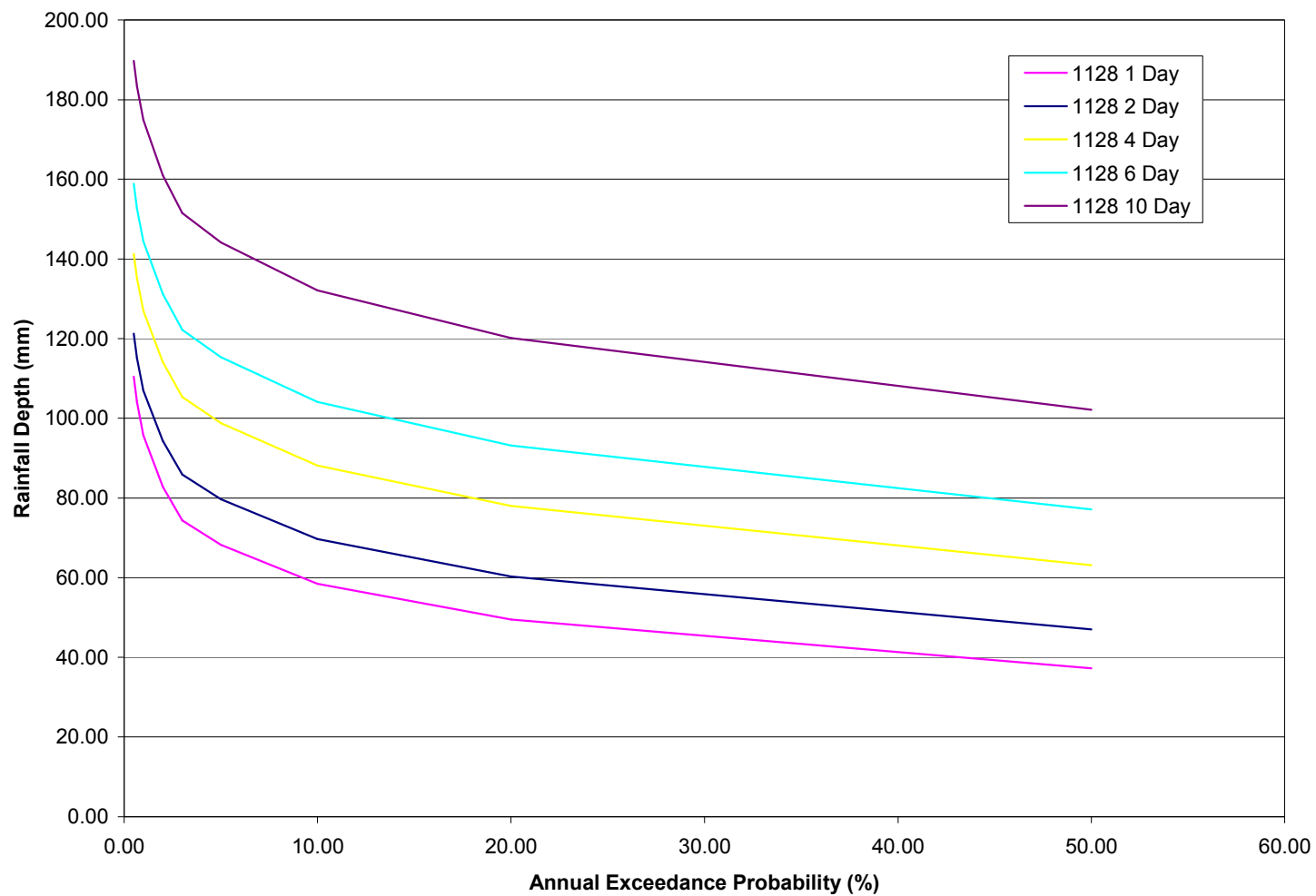
6119 Roscrea raingauge 1 day duration probability plot



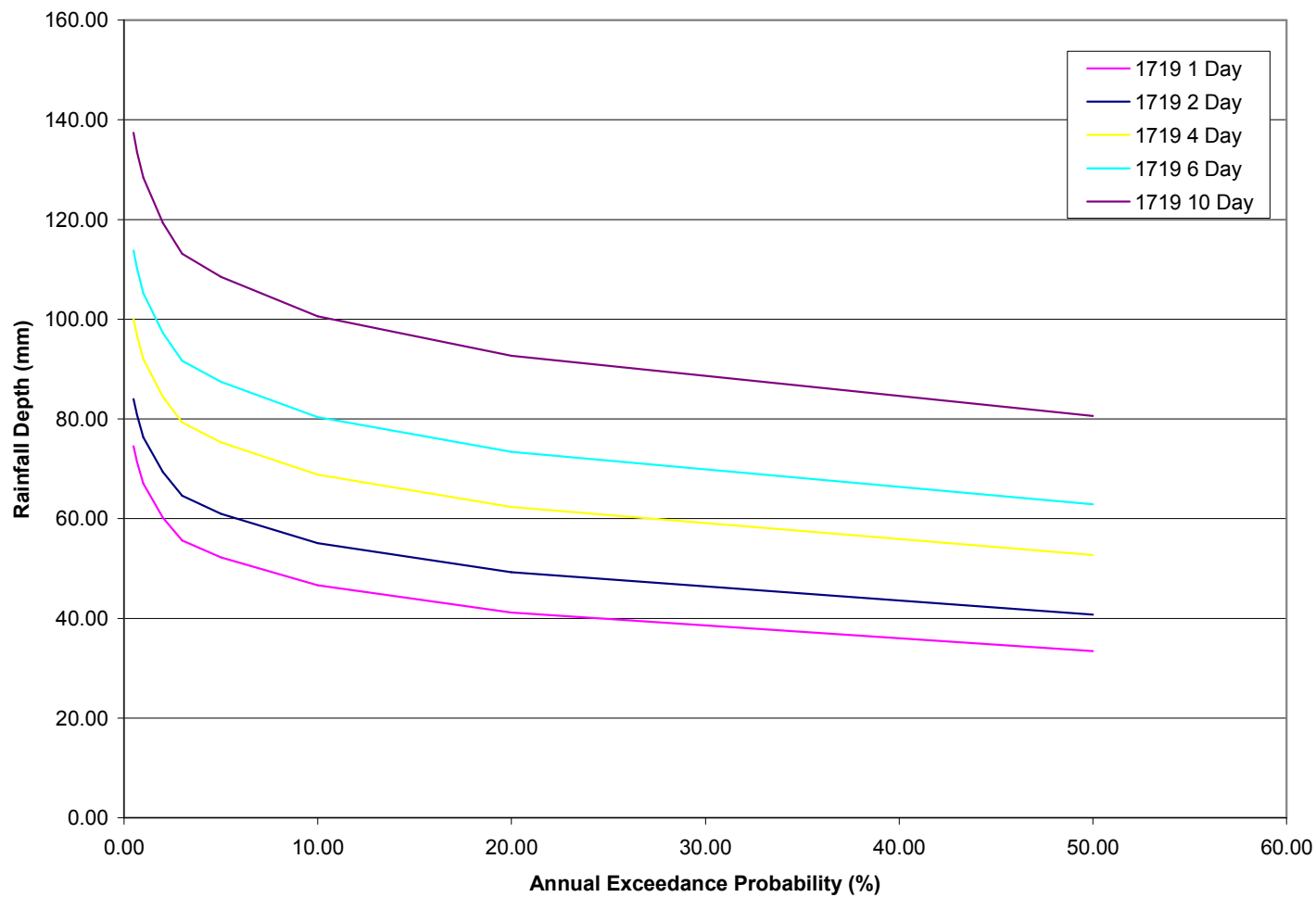
6119 Roscrea raingauge 4 day duration probability plot

Appendix D FSU Depth Duration Frequency Plots

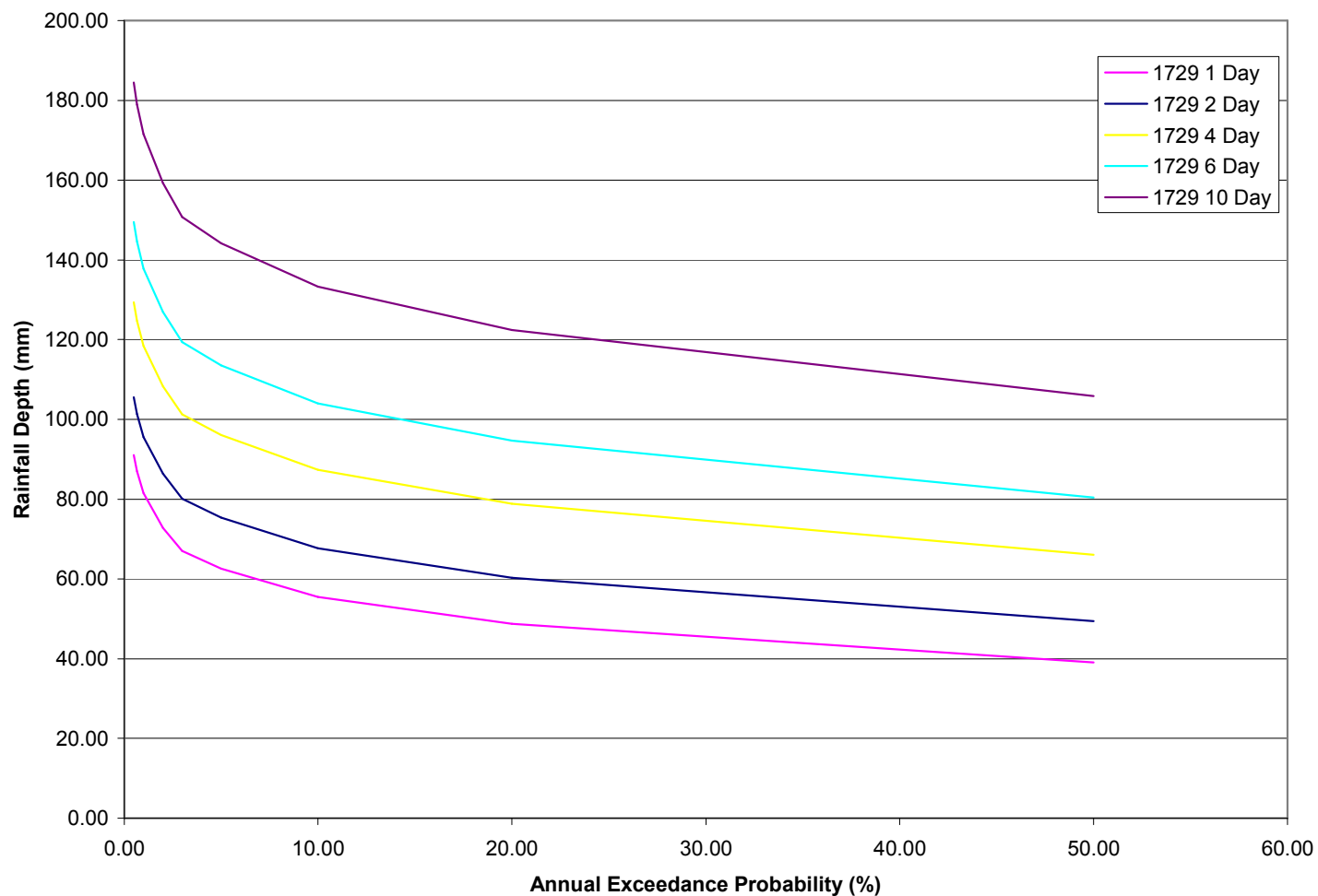
Depth Duration Frequency Curves for Raingauge 1128 (From FSU Workpackage 2.2)



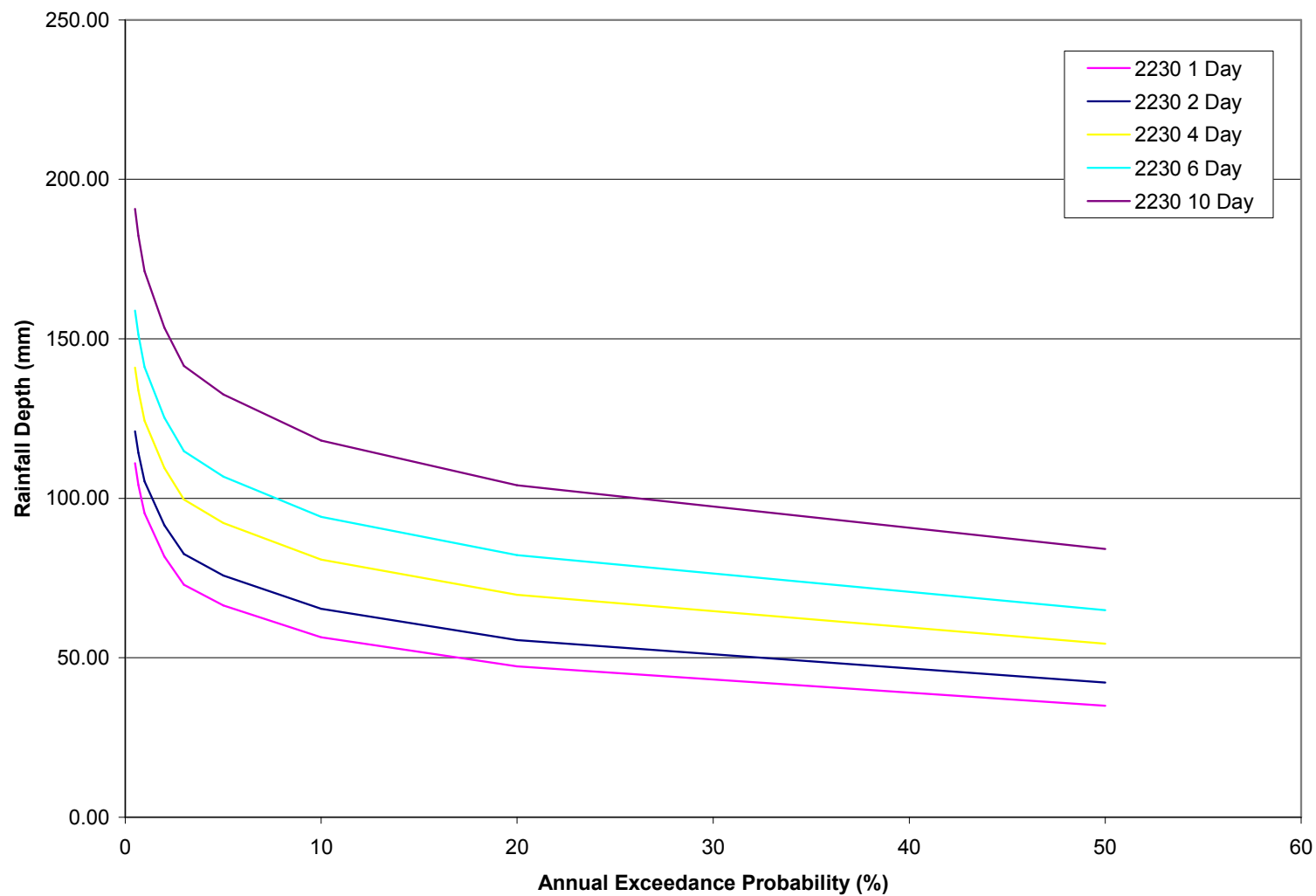
Depth Duration Frequency Curves for Raingauge 1719 (From FSU Workpackage 2.2)



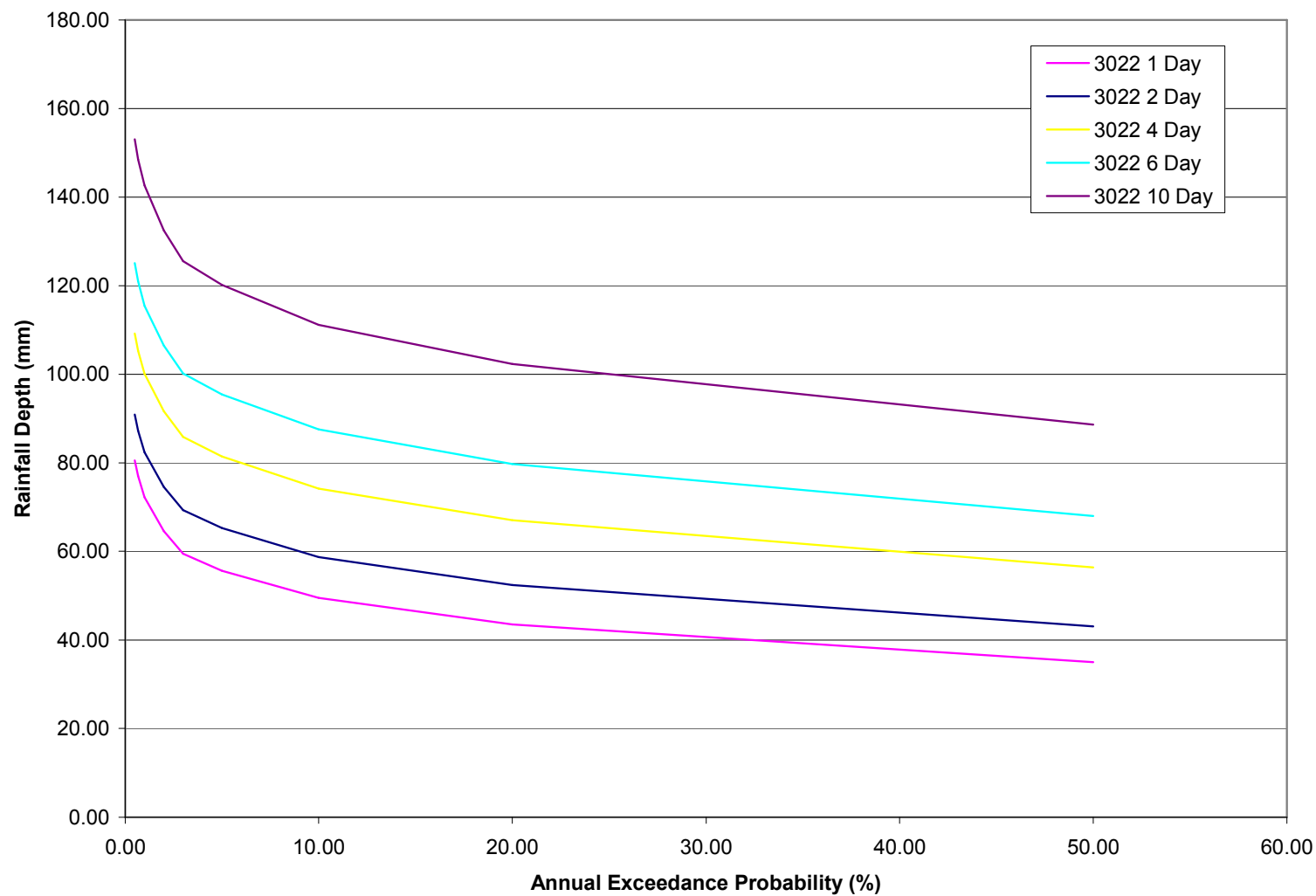
Depth Duration Frequency Curves for Raingauge 1729 (From FSU Workpackage 2.2)



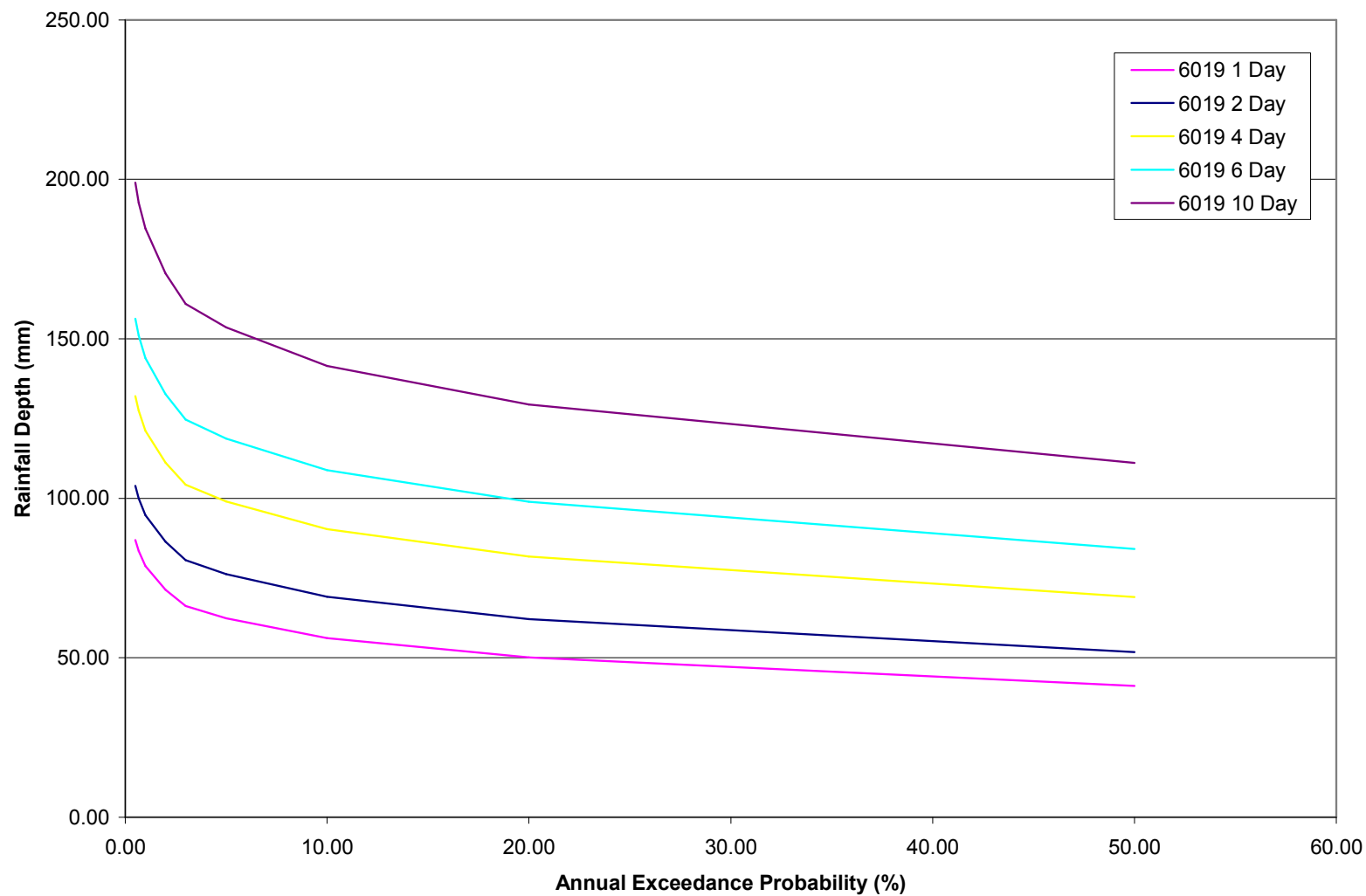
Depth Duration Frequency Curves for Raingauge 2230 (From FSU Workpackage 2.2)



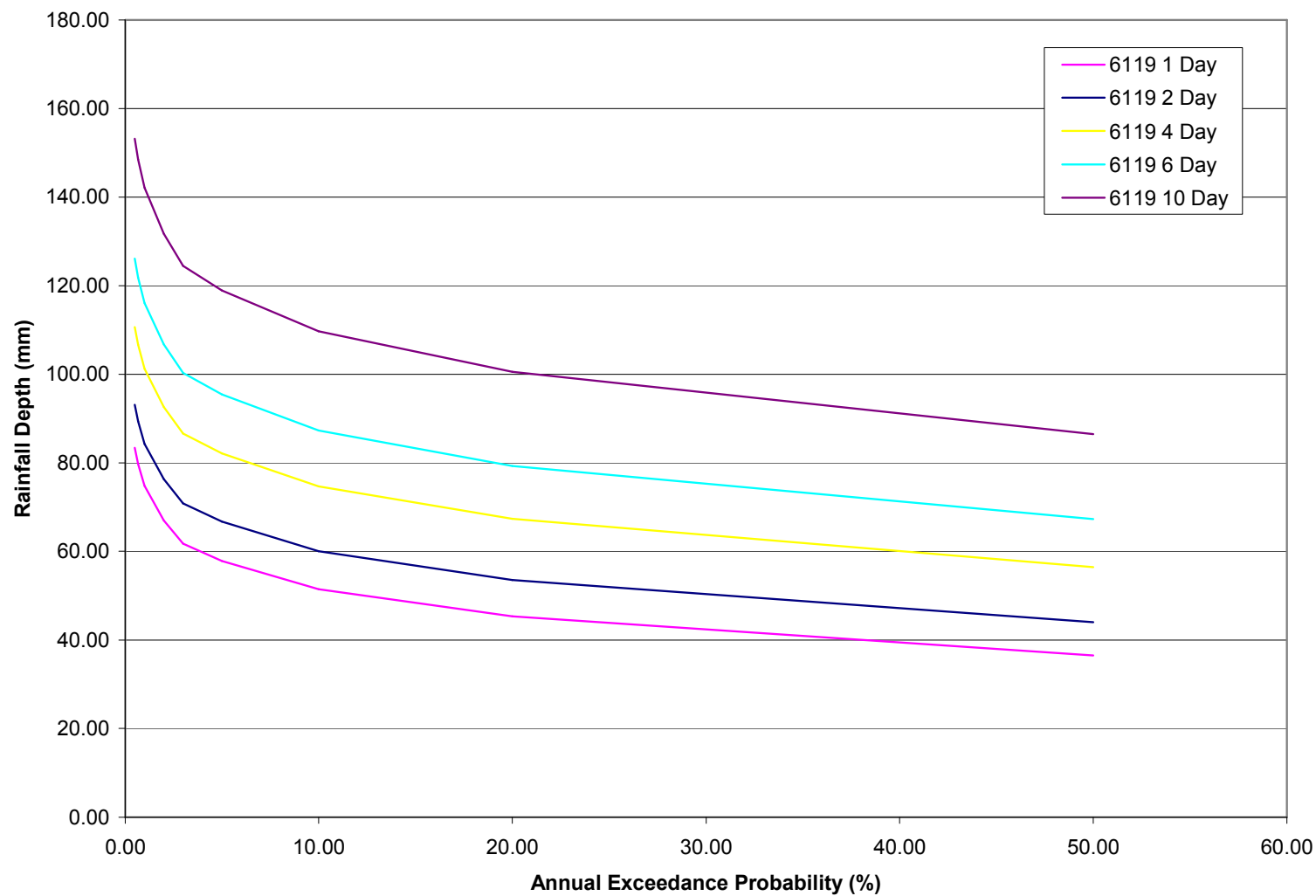
Depth Duration Frequency Curves for Raingauge 3022 (From FSU Workpackage 2.2)



Depth Duration Frequency Curves for Raingauge 6019 (From FSU Workpackage 2.2)



Depth Duration Frequency Curves for Raingauge 6119 (From FSU Workpackage 2.2)



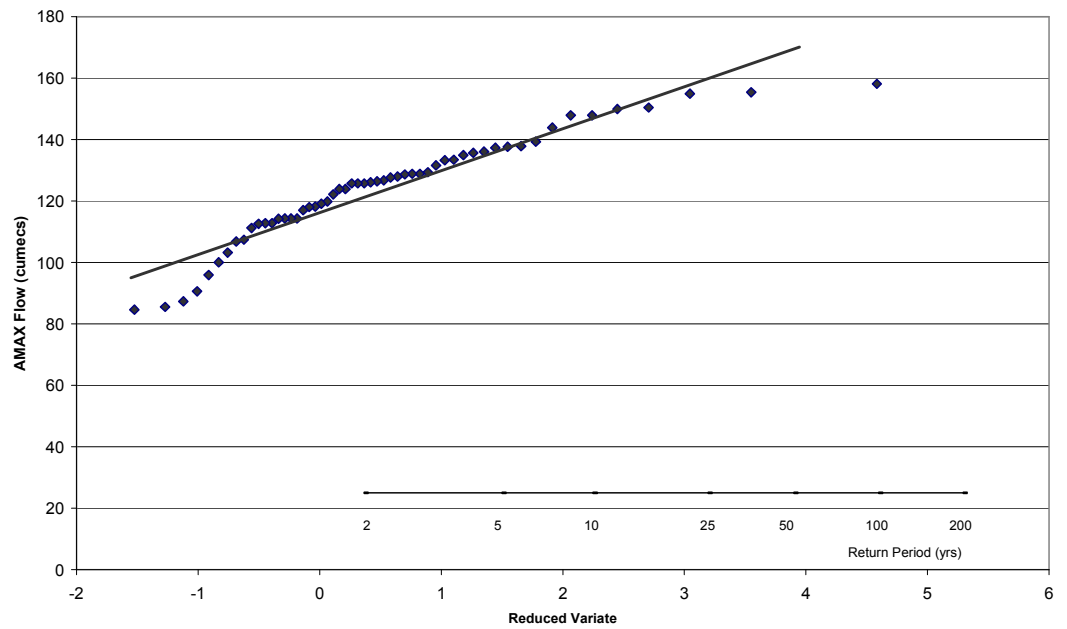
Appendix E Daily Mean Flow Review

				Daily Flow data only									Daily Level data only							
Station no.	Station name	Waterbody	Record start	No. of good days	No. of fair days	No. of poor days	No. of beyond limit days	No. of unchecked days	No. of cautionary days	No. of missing days	Unknown	Total number of days	No. of good days	No. of beyond limit days	No. of unchecked days	No. of cautionary days	No. of missing days	Unknown	Total number of days	Comment on visual inspection of record
25001	ANNACOTTY	MULKEAR	09/1953	12409	0	0	0	0	156	1289	5	13859	12409	0	156	0	1289	5	13859	Evidence of increasing baseflows
25002	BARRINGTON'S BR.	NEWPORT	06/1953	15234	0	0	0	0	16	910	3	16163	17526	0	372	5	705	117	18725	Post -1973 flow record has an increase in the frequency and size of peaks.
25003	ABINGTON	MULKEAR	09/1954	626	4729	0	0	0	156	101	28	5640	5381	2	155	0	101	0	5639	
25004	NEW BRIDGE	BILBOA	09/1954	1157	6634	0	0	0	0	675	0	8466	7799	0	0	0	667	0	8466	Increasing peak flows. Possible trend of declining low water levels but an increase in the range of flow levels over period of record. Data pre-28/1/78 different from rest of series.
25005	SUNVILLE	DEAD	09/1954	3359	0	0	0	0	14	6580	0	9953	4421	0	819	0	6545	0	11785	Apparent trend of increasing low flows between 1995 to 1999.
25006	FERBANE	BROSNA	07/1947	16701	3057	0	0	0	215	1447	18	21438	21087	0	214	0	1654	12	22967	No obvious trends or steps in flow record.Post 1949 is good record
25011	MOYSTOWN	BROSNA	01/1953	2548	1543	2812	0	0	192	1390	169	5813	6766	0	497	0	1390	0	8653	Post 2007 data looks inconsistent.
25012	GROODY BRIDGE	GROODY	08/1972										3	0	0	0	0	0	3	3 DMF values only.
25013	NEWELL'S BR.	BROSNA	08/1954										12201	0	539	0	1149	0	13889	No obvious trends or steps in level record.
25014	MILLBROOK	SILVER	10/1951	10026	1539	0	0	0	1031	1101	162	13859	11691	0	1053	0	1101	13	13858	
25015	POLLAGH	BROSNA	08/1947										10964	0	1267	0	1902	0	14133	
25016	RAHAN	CLODIAGH	08/1951	5263	10940	2682	0	0	1028	1337	280	21530	19139	0	1054	0	1337	0	21530	
25017	BANAGHER	SHANNON	05/1950	2520	0	0	0	126	38	5057	8	7749	7212	0	433	0	139	20	7804	All low flows missing - rating unreliable at low flows? Peak flows appear plausible.
25019	CONICAR	CAPPAGH	10/1966										9681	0	600	0	687	0	10968	Medium term (approx. 10yrs) oscillations in levels. Levels regulated?
25020	KILLEEN	KILLIMOR	08/1968	5153	0	1697	0	25	62	1993	0	8930	6934	0	70	0	1926	0	8930	Large gap in data between 11/8/03 to 3/8/07. Peaks appear to increase over period of record.
25021	CROGHAN	LITTLE BROSNA	09/1961	3921	12448	0	0	0	235	1169	113	17886	16482	0	235	0	1169	0	17886	Range of levels and flows gradually increasing over period of record.
25022	SYNGEFIELD	CAMCOR	09/1953	1958	15147	421	0	0	1546	872	863	20807	18282	1	1550	0	533	3	20369	Apparent decline in peak flows over period of record. Drop in water level between 1970 to 1972,
25023	MILLTOWN	LITTLE BROSNA	11/1953	0	12970	0	0	0	92	269	0	13331	12692	0	354	1	284	0	13331	Trend of rising water levels from approx. 2004 onwards (not so obvious in flow record). Possible gradual decline in water levels between 1972 and 1996, further investigation required. Missing data 25/11/01 to 26/10/03 - inappropriate linear infilling.
25024	NEW BRIDGE	LITTLE BROSNA	06/1953										10514	0	236	0	461	0	11211	Discontinuity in 1988
25025	BALLYHOONEY	BALLYFINBOY	10/1957	3818	1859	6617	0	0	87	802	0	13183	8161	0	0	2	180	0	8343	Increase in high flows following gap in record (20/5/84 to 30/11/85). Level series (post-1986 only) possibly slight trend of increasing flows.
25027	GOURDEEN	OLLATRIM	09/1962	7079	3674	1993	0	0	751	532	104	14133	12833	29	783	1	504	0	14150	Minor trend in peak flows. Review 30/4/09 peak.

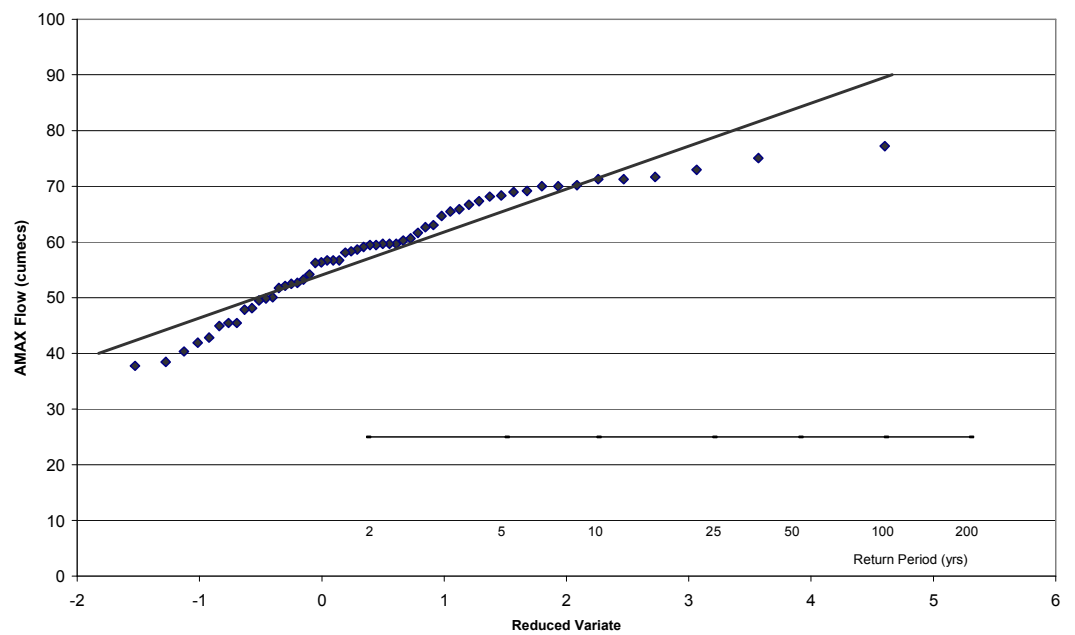
Station no.	Station name	Waterbody	Record start	Daily Flow data only									Daily Level data only									Comment on visual inspection of record
				No. of good days	No. of fair days	No. of poor days	No. of beyond limit days	No. of unchecked days	No. of cautionary days	No. of missing days	Unknown	Total number of days	No. of good days	No. of beyond limit days	No. of unchecked days	No. of cautionary days	No. of missing days	Unknown	Total number of days			
25029	CLARIANNA	NENAGH	06/1957	1715	0	9893	0	0	672	1115	738	14133	12249	0	715	0	1115	71	14150	Change in flow regime post 2000.		
25030	SCARRIFF	GRANEY	10/1957	11179	0	815	0	93	292	587	0	12966	8749	0	94	1	548	0	9392	Change in baseflow regime post-1990		
25050	MULLINGAR PUMP HSE.	BROSNA	10/1977	7484	2345	0	11	0	417	1066	0	11323	10909	11	247	0	239	0	11406	No obvious trend or step in water level.		
25056	MEELICK WEIR U/S	SHANNON	11/1985										1147	0	0	0	4	0	1151	Record too short to identify any trends.		
25058	VICTORIA LOCK	CANAL	11/1985										627	0	0	1	8	0	636	Record too short to identify any trends.		
25061	BALL'S BR.	ABBEY ESTY	07/1957										1171	0	0	1	107	0	1279	Record too short to identify any trends.		
25085	CLONSINGLE	ENNELL L.	09/1953										11273	0	0	2	418	249	11942	No obvious trend or step in water level.		
25213	CULLEEN FISH FARM	BROSNA	07/1957										798	0	3908	0	1733	0	6439	Record post 22/10/05 looks uncertain. Short-term variation in level minimal, with a few notable exceptions - artificial regulation of levels?		
25308	WATERPARK BRIDGE	NEWPORT	10/1999	3672	0	0	0	0	106	352	0	4130	3703	0	0	75	352	0	4130	No obvious trend in flow or levels, but more high flows in latter part of record (from 2004 onwards)		
26001	BALLINAMORE	SHIVEN	10/1952	11256	0	0	0	0	541	1873	189	13859	11256	0	722	0	1873	8	13859	Post 2006 data may be inconsistent with previous.		
26002	ROOKWOOD	SUCK	10/1952	6072	2228	2346	0	0	238	2346	1459	13859	12104	0	215	23	1463	1	13806			
26004	BOOKALA	ISLAND	11/1952	492	1429	0	0	0	0	0	0	1921	1919	0	0	0	0	0	1919	No obvious trend in flow or levels.		
26005	DERRYCAHILL	SUCK	09/1954	3076	6075	10383	0	0	254	629	17	20434	19652	0	230	0	552	0	20434	No obvious trend in flow or levels.		
26006	WILLSBROOK	SUCK	10/1952	272	1175	473	0	0	861	11076	2	13859	1920	0	863	0	11076	0	13859	Majority of data missing (7/1/78 to 5/5/08). Evidence of discontinuity		
26007	BELLAGILL	SUCK	11/1952	6326	4469	175	0	0	268	1816	805	13859	11775	0	268	0	1816	0	13859	No obvious trend in flow or levels. Missing data between 12/8/03 to 5/11/07		
26008	JOHNSTON'S BR.	RINN	09/1955	1375	5085	1378	0	0	2	872	0	8712	9711	0	523	0	1074	0	11308	No obvious trend in flow or levels.		
26009	BELLANTRA BR.	BLACK [South Leitrim]	10/1957	10134	123	0	0	328	0	147	0	10732	10257	0	421	0	54	0	10732	No obvious trend in flow or levels. Spurious level value (0.414 mAOD) on 18/10/01		
26009	BLACKROCK LOCK	BELLANTRA BR.	/	0	8039	947	0	0	745	1432	2696	13859								No obvious trend		
26010	RIVERSTOWN	CLOONE	05/1958										10272	0	0	0	454	0	10726	Gradual trend of increasing water levels		
26012	TINACARRA	BOYLE	02/1951	13735	4296	0	0	0	896	367	44	19338	18232	0	668	0	353	0	19253	Caution! 3 apparent datum shifts evident in levels and flows.		
26014	BANADA BRIDGE	LUNG	08/1975	3638	506	143	0	0	37	2616	0	6940	16793	0	1664	0	2333	126	20916	Caution- 3 major changes in levels - water level artificially regulated?		
26015	CORRASCOFFY	ESLIN	10/1956	1299	1259	1164	0	0	108	188	0	4018	10581	0	431	0	266	0	11278	Upward trend in water level record, evident in low flows only.		
26016	BALLYMURRAY	HIND	06/1958										11245	0	219	0	2395	0	13859			
26017	GILLSTOWN	MOUNTAIN	10/1956										10369	0	307	0	568	0	11244	Increase in high flows over period of record - a result of natural variability?		
26018	BELLAVAHAN	OWENURE	10/1956	9873	0	0	0	1176	0	0	0	11049	10763	0	299	0	980	0	12042	Increase in high flows over period of record - a result of natural variability?		

				Daily Flow data only									Daily Level data only								
Station no.	Station name	Waterbody	Record start	No. of good days	No. of fair days	No. of poor days	No. of beyond limit days	No. of unchecked days	No. of cautionary days	No. of missing days	Unknown	Total number of days	No. of good days	No. of beyond limit days	No. of unchecked days	No. of cautionary days	No. of missing days	Unknown	Total number of days	Comment on visual inspection of record	
26019	MULLAGH	CAMLIN	09/1953	0	14423	4333	0	0	1241	805	12	20814	18756	0	1206	40	805	7	20814	Major changes in flow regime evident in level and flow.	
26020	ARGAR	CAMLIN	10/1957										10678	0	180	0	1444	0	12302	Missing data 18/3/02 to 18/3/05. No obvious trends in water level record.	
26021	BALLYMAHON	INNY	07/1965	11867	983	0	2	0	1	908	100	13859	12634	0	2	0	907	64	13607	Flow record reveals a trend of rising high flows. Step up in level series after gap (7/7/74 to 14/11/75). Between Jan 04 and Nov 09 several suspicious sudden drops in water level (to a value of 44.25mAOD).	
26022	KILMORE	FALLAN	10/1957	0	3039	1361	0	0	2957	6482	20	13859	4411	0	2966	0	6482	0	13859	Post 2000 data differsfrom pre 1984 data (gap between)	
26025	CAMAGH	INNY	10/1952										1919	0	243	1	9828	0	11991	Majority of record missing - gap in data between 1/1/78 to 30/8/04. Short record of data post 2004, difficult to determine validity.	
26027	ATHLONE	SHANNON	10/1952										13383	125	117	0	389	0	14014	No obvious trends in water levels.	
26028	SHANNONBRIDGE	SHANNON	09/1954										9414	0	146	0	312	0	9872	No obvious trends in water levels. Missing data 31/12/00 to 4/10/01.	
26074	BLACKROCK LOCK	L. ALLEN	07/1994										2563	0	829	0	300	0	3692	Large variation in water level at start of record (1994 to 1996) - water level artificially regulated?	
26075	CUPPANAGH	L. GARA	09/1980										821	0	36	0	0	0	857	Record too short to identify any trends.	
26082	LOUGH DERRAVARAGH	L. DERRAVARAGH	11/1952										1052	0	0	0	0	0	1052	Record too short to identify any trends.	
26083	MOUNT NUGENT	L. SHEELIN	11/1952										869	0	0	0	5	0	874	Record too short to be conclusive but possible upwards trend in water levels over period of record.	
26087	LOMCLOON	L. GARA	01/1981										8841	6	121	37	694	174	9873	Trend of rising peak flows from approximately 1990 onwards.	
26088	HODSON'S BAY	L. REE	07/1981										1005	0	0	0	14	0	1019	Record too short to identify any trends. No obvious issues.	
26093	DERRY BAY	L. REE	05/2002										2161	0	0	7	1000	17	3185	Periods of missing data make it difficult to identify long-term trends or steps in data. Specific observations 14/06/08 to 11/08/08 - linearly infilled? and 15/9/09 to 15/10/09 - level same value.	
26108	BOYLE ABBEY BR.	BOYLE	11/1990	3772	1831	0	30	0	526	1088	7	7254	4446	22	6	0	192	0	4666	No obvious trend or step in level series except for sudden rise in level 13/8/03 to 9/9/03 (deleted from flow record). Flow series reveals step change (change in rating?) downwards around 1995.	
26333	ATHLONE WEIR U/S	SHANNON	10/2003										1377	0	0	1	31	0	1409	Levels rise up at start of record (2003). No other obvious trend or step in record.	

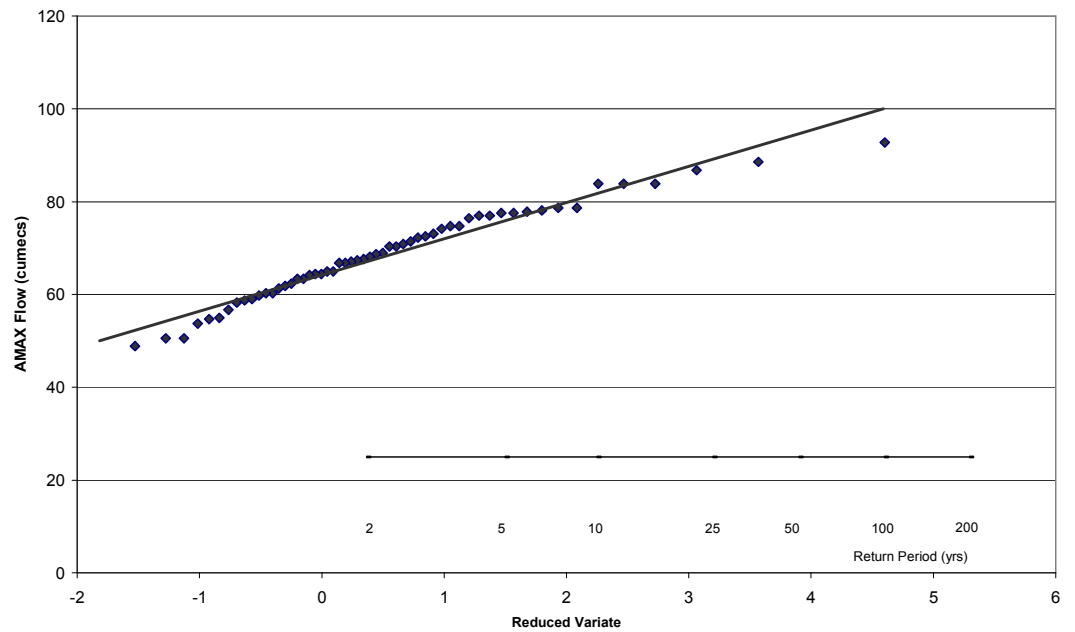
Appendix F Flood Frequency Probability Plots for HA25 and HA26



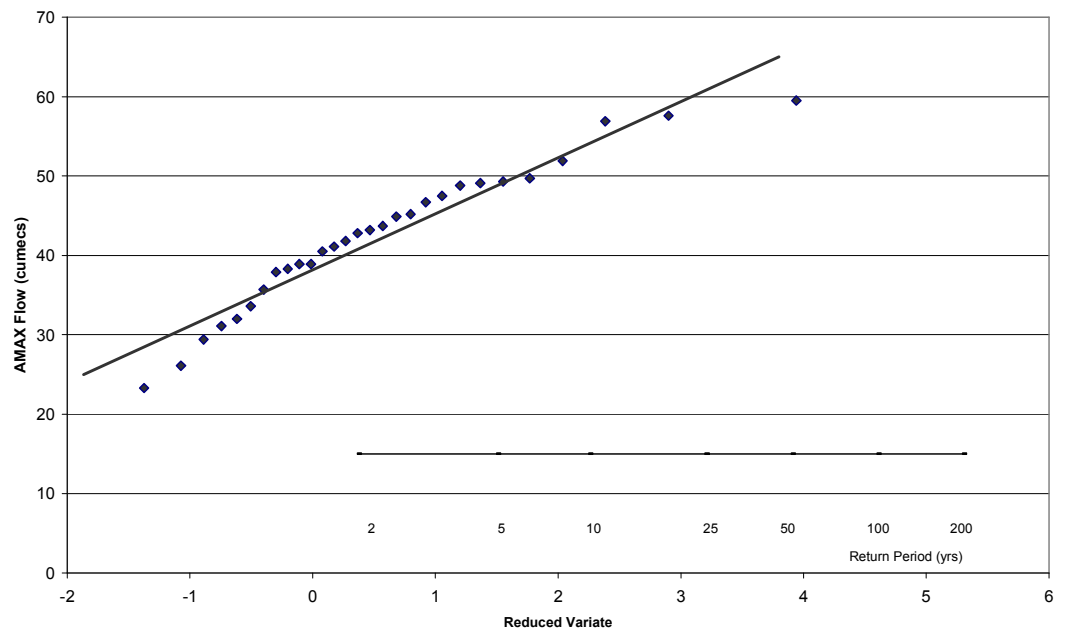
Gauging Station 25001 Flow



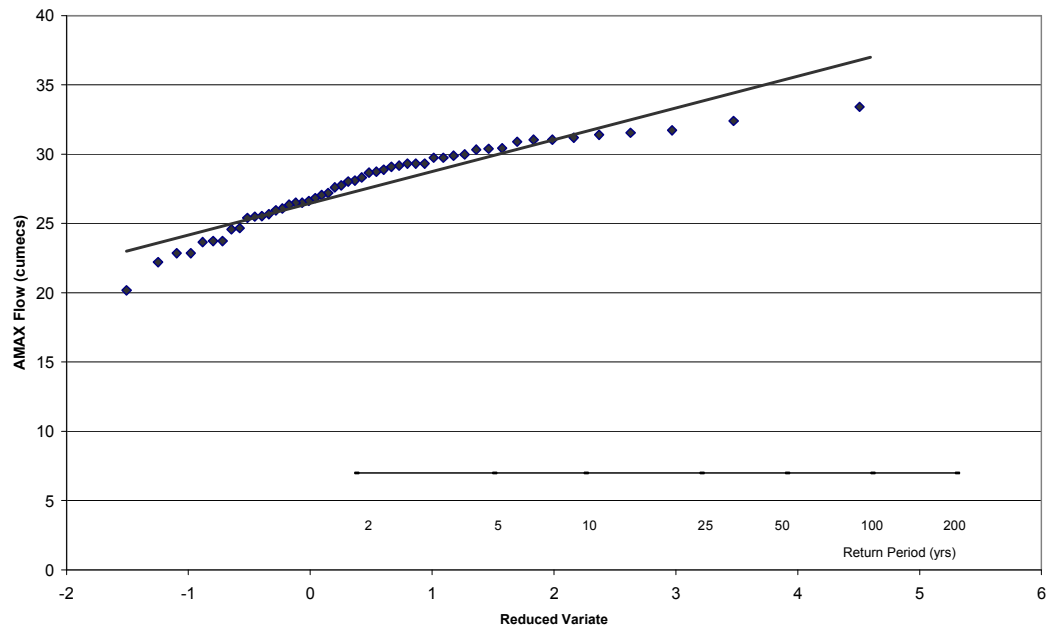
Gauging Station 25002 Flow



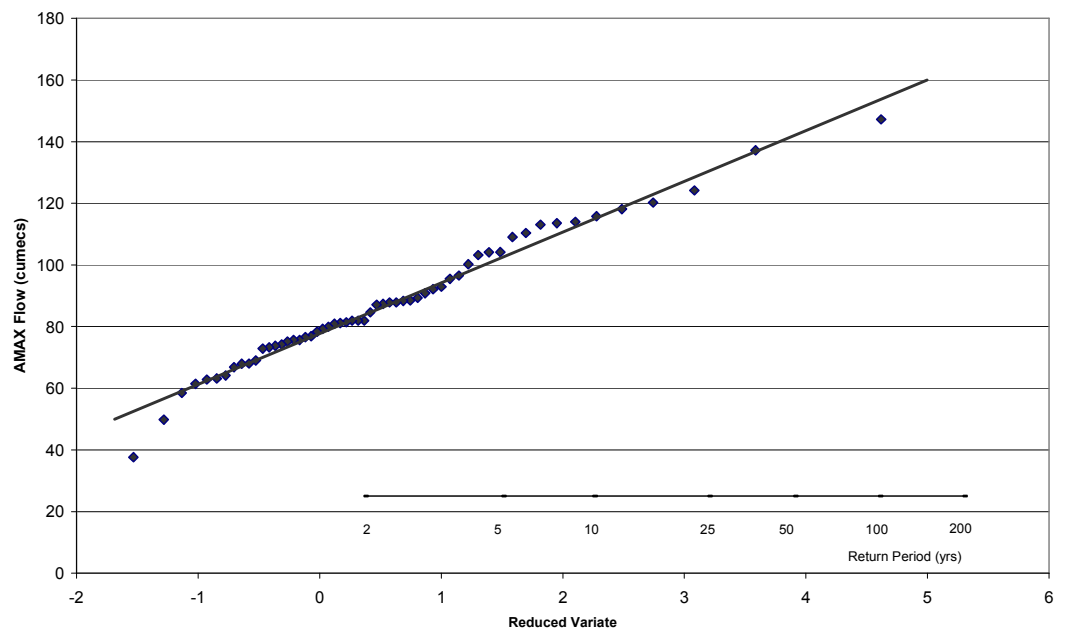
Gauging Station 25003 Flow



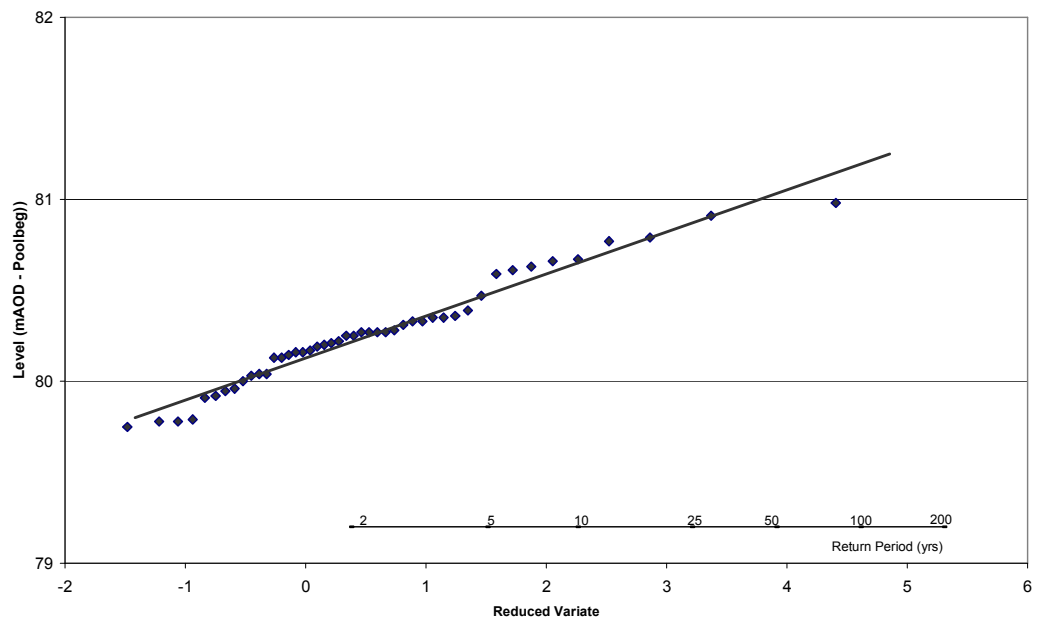
Gauging Station 25004 Flow



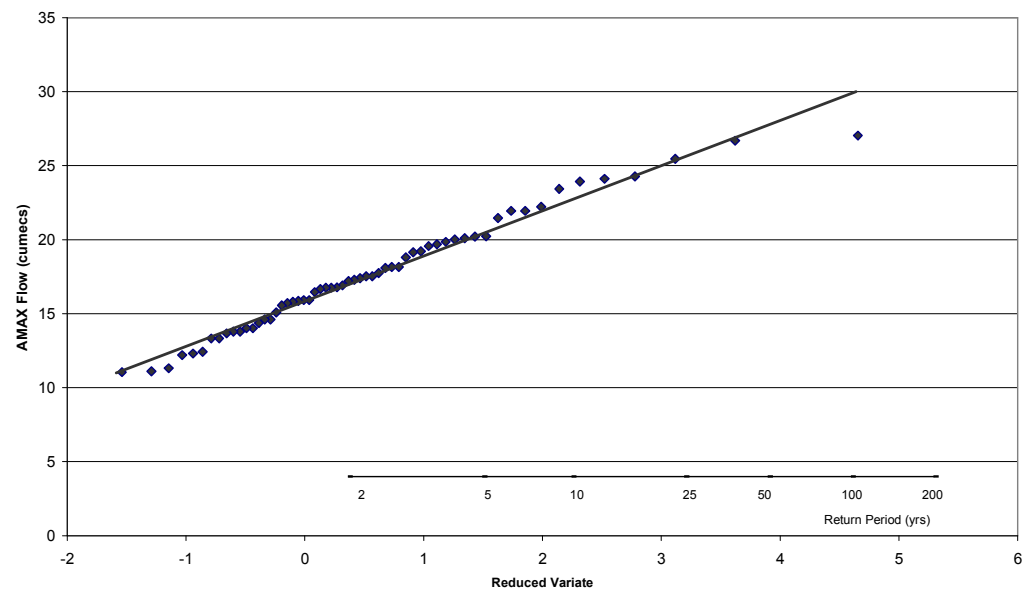
Gauging Station 25005 Flow



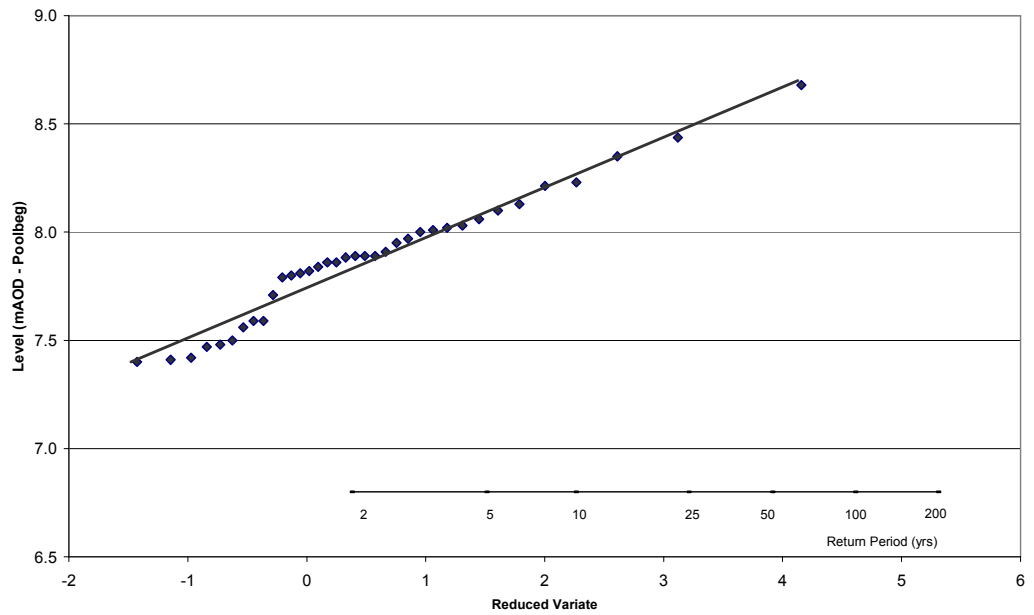
Gauging Station 25006 Flow



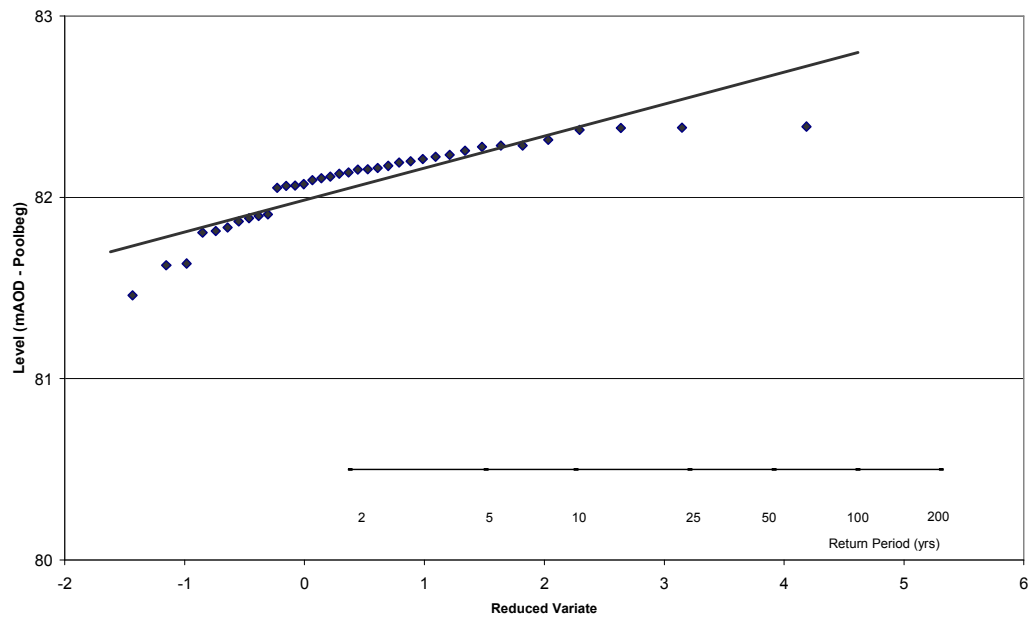
Gauging Station 25007 Levels



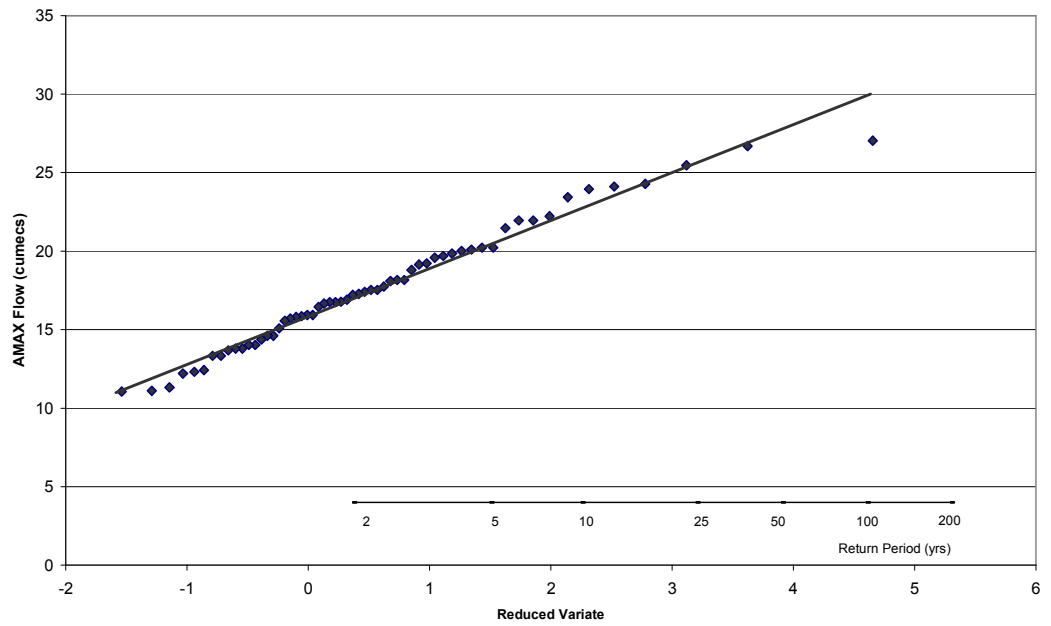
Gauging Station 25011 Flow

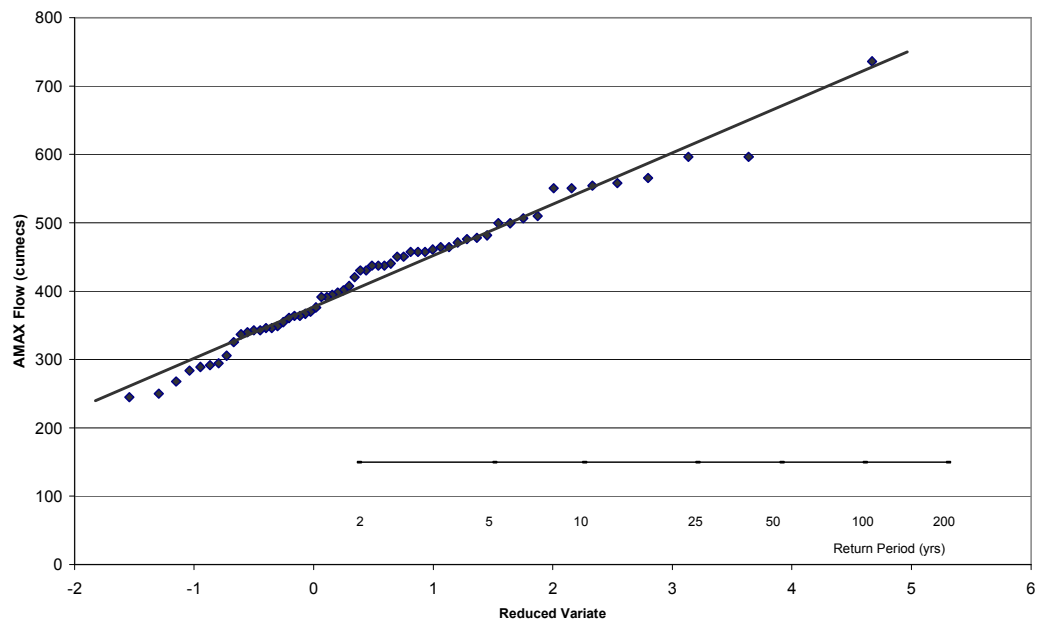


Gauging Station 25012 Flow

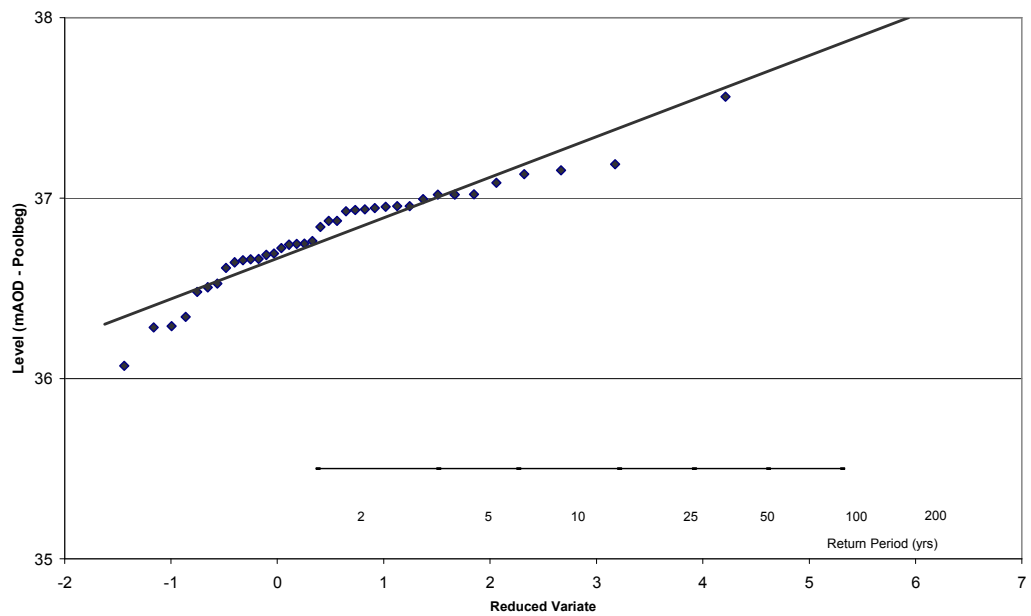


Gauging Station 25013 Flow

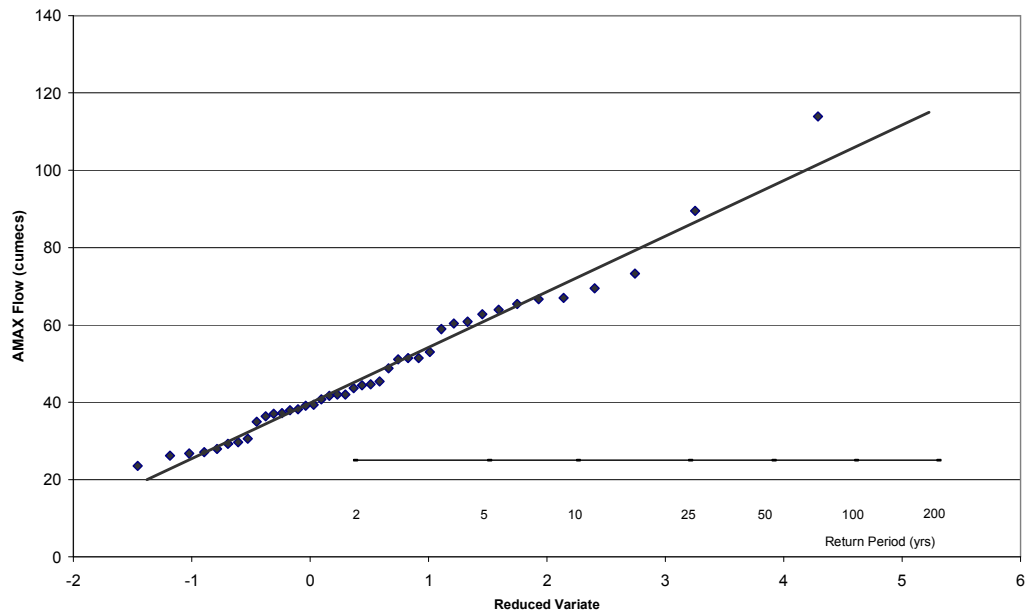




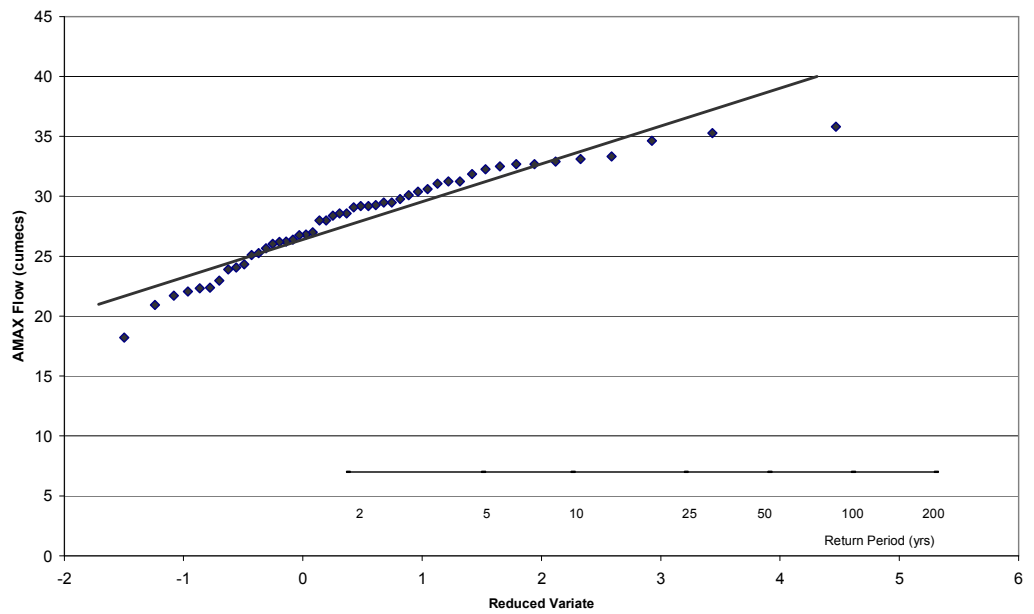
Gauging Station 25017 Flow



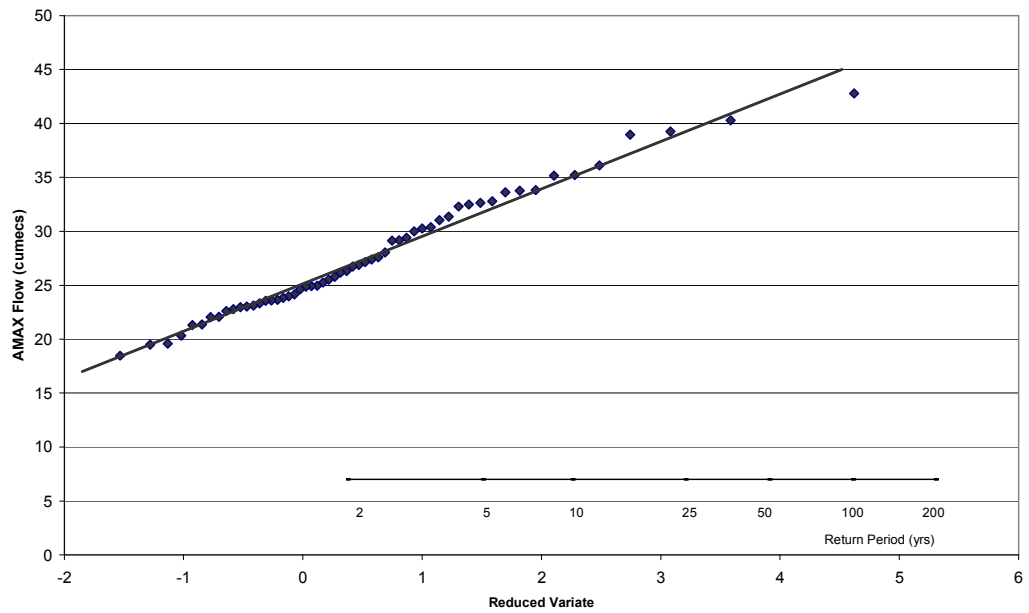
Gauging Station 25019 Flow



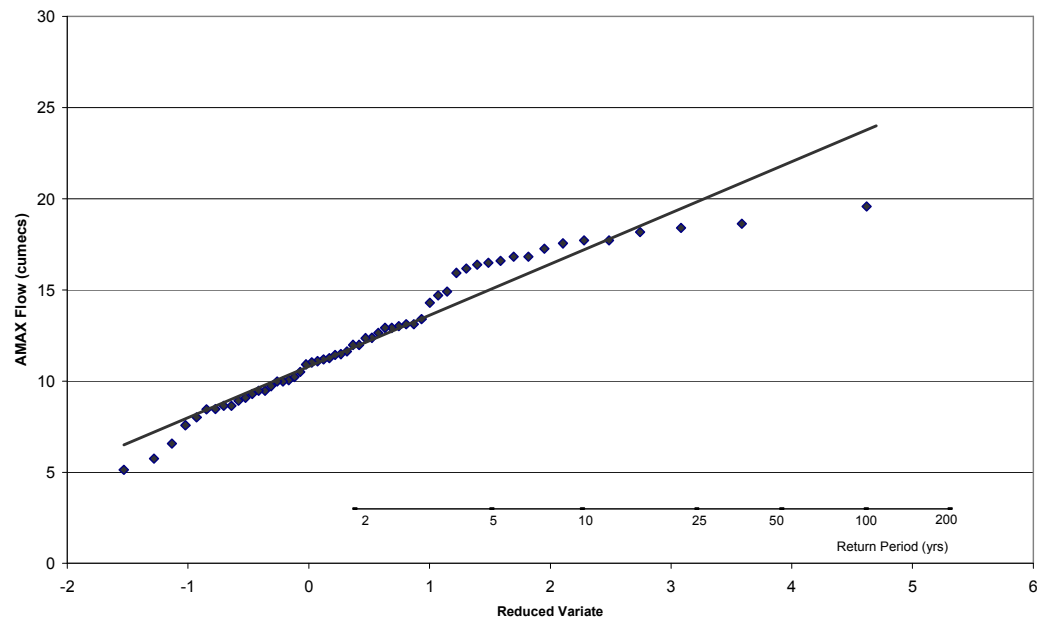
Gauging Station 25020 Flow



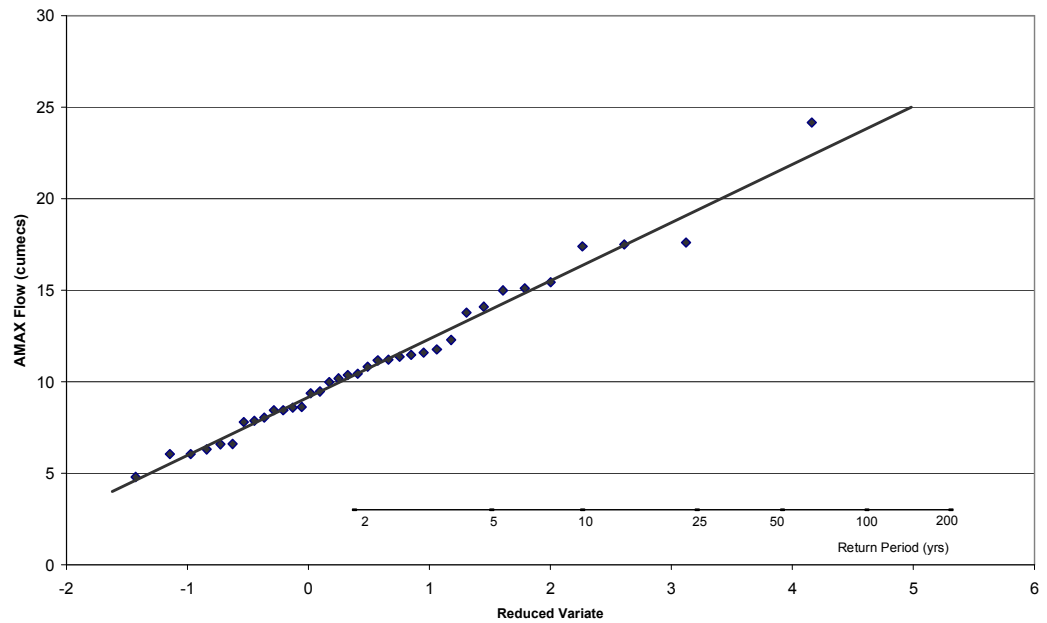
Gauging Station 25021 Flow



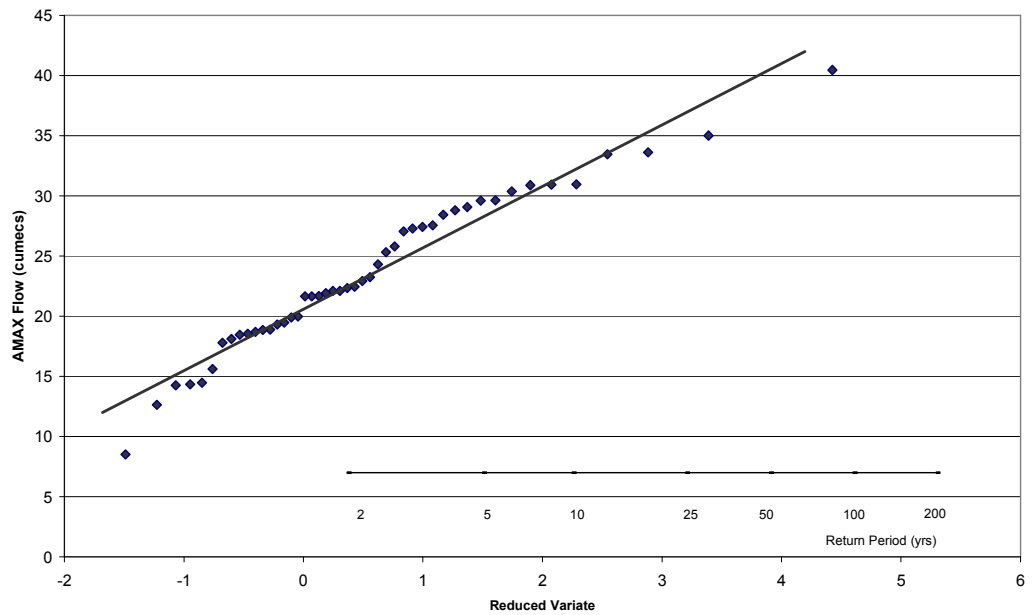
Gauging Station 25022 Flow



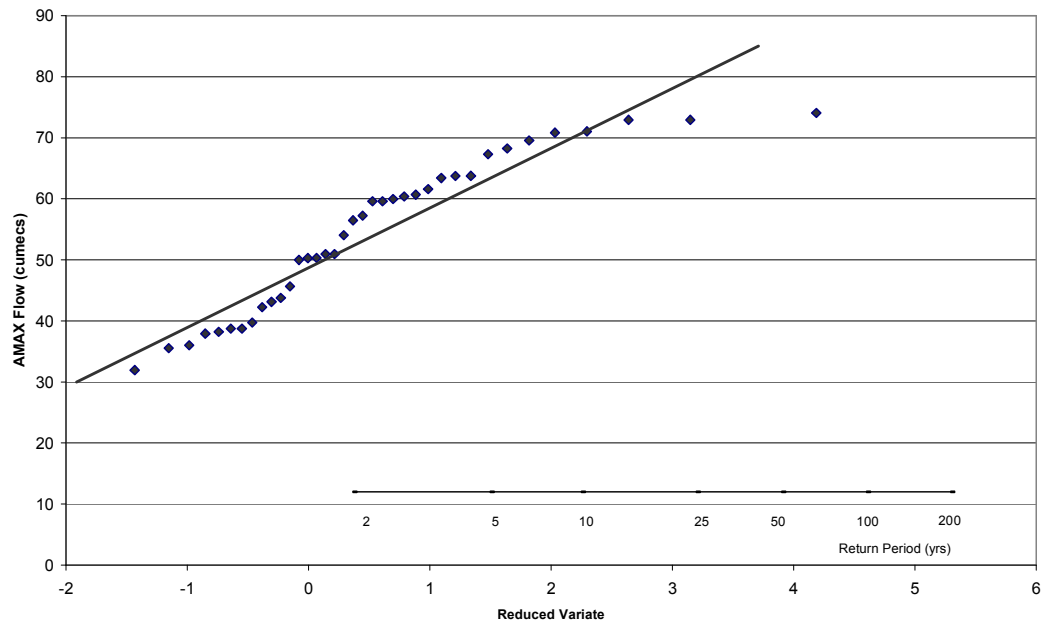
Gauging Station 25023 Flow



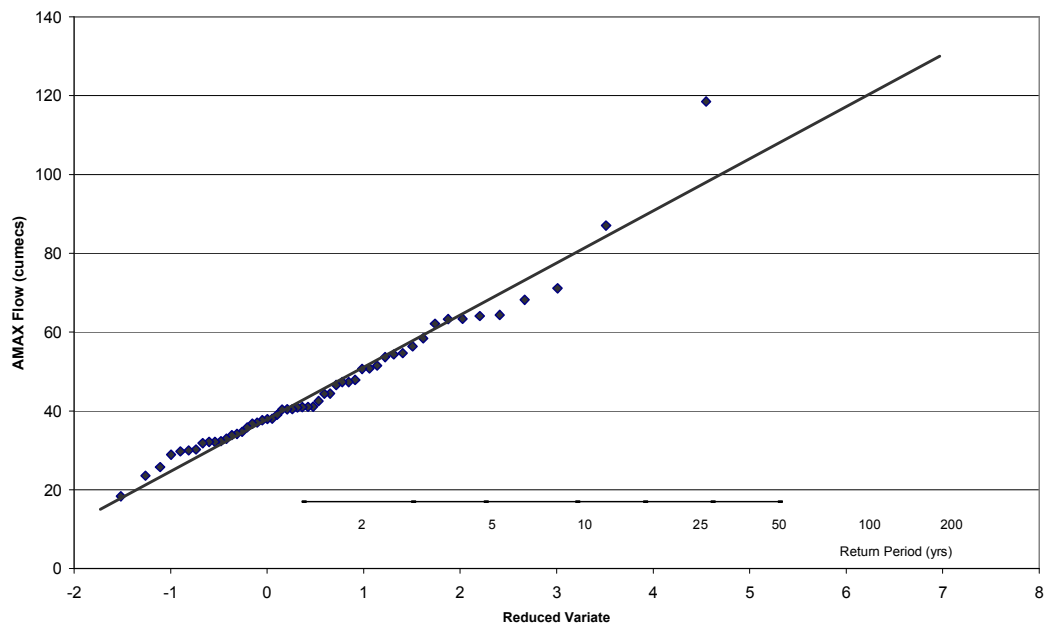
Gauging Station 25025 Flow



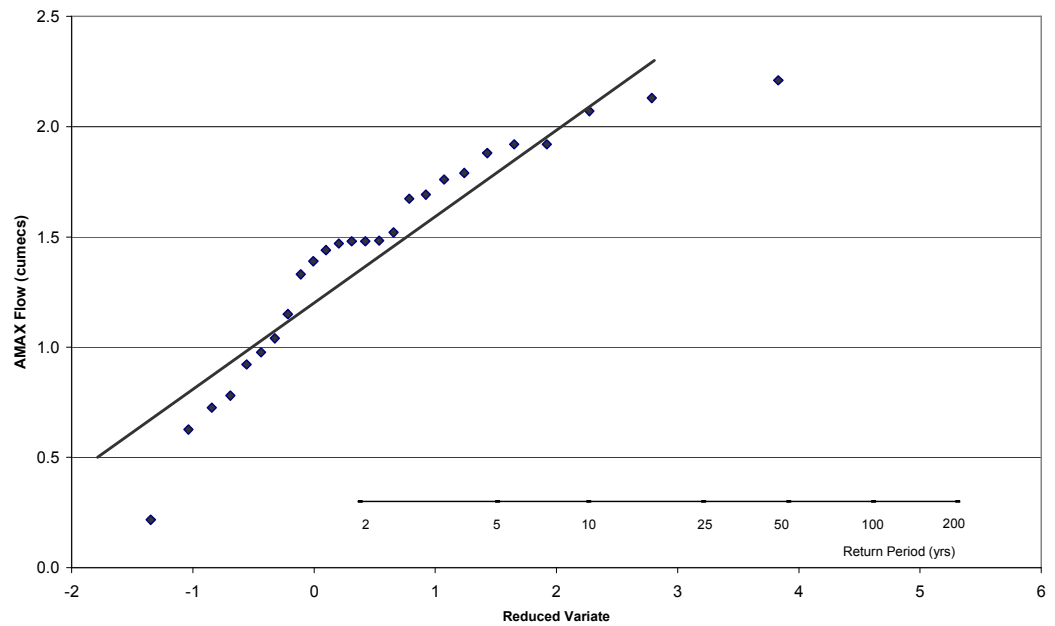
Gauging Station 25027 Flow



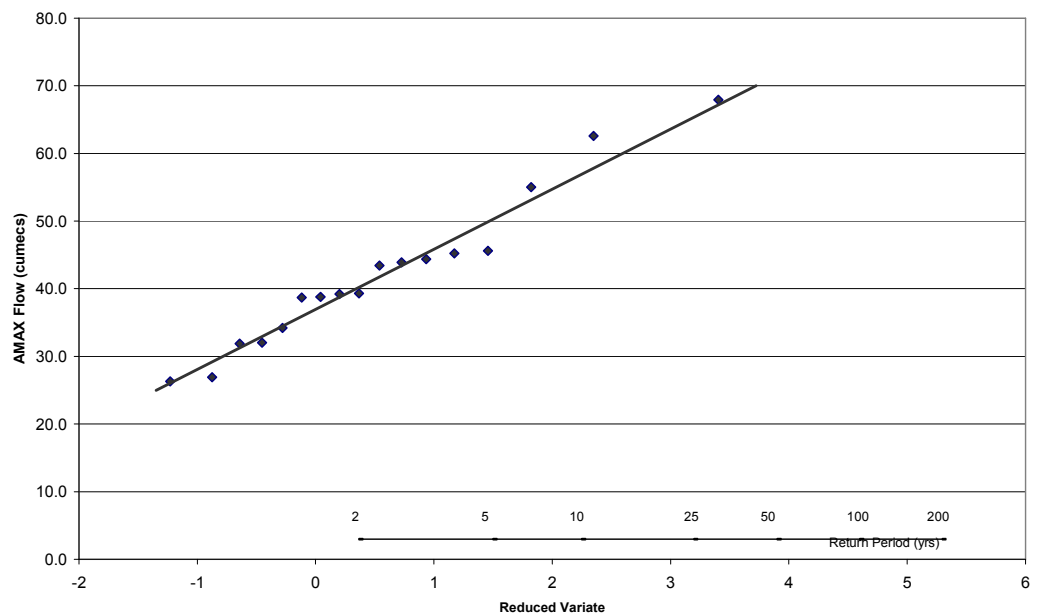
Gauging Station 25029 Flow



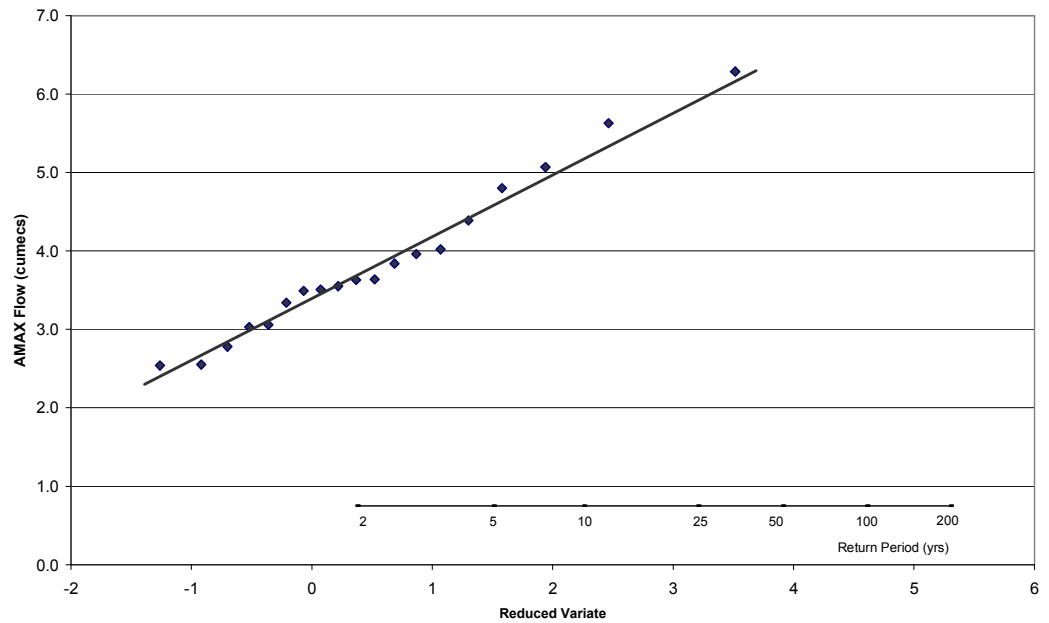
Gauging Station 25030 Flow



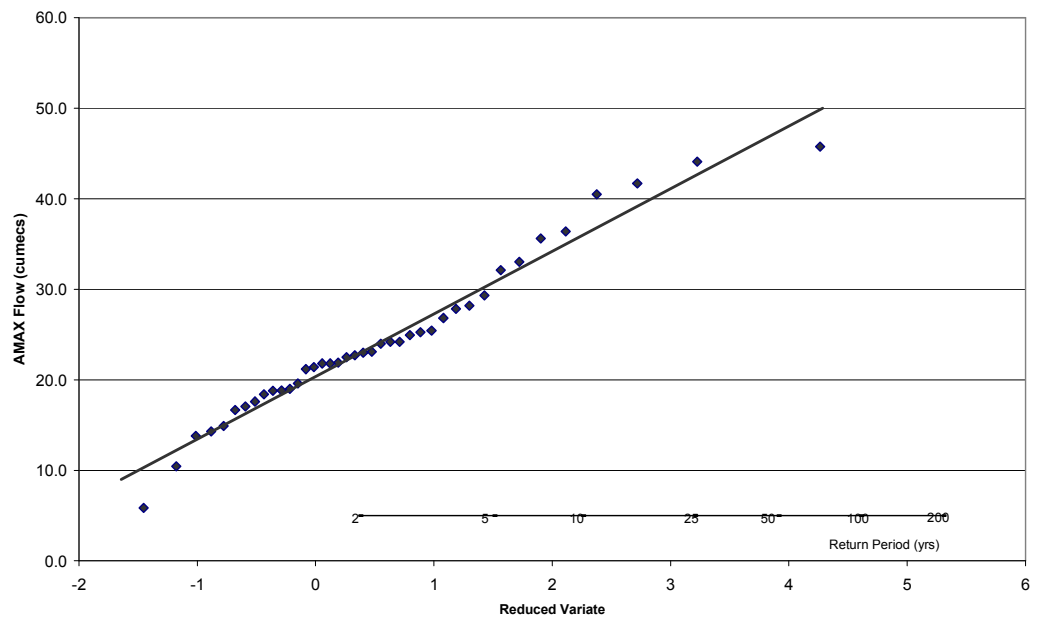
Gauging Station 25034 Flow



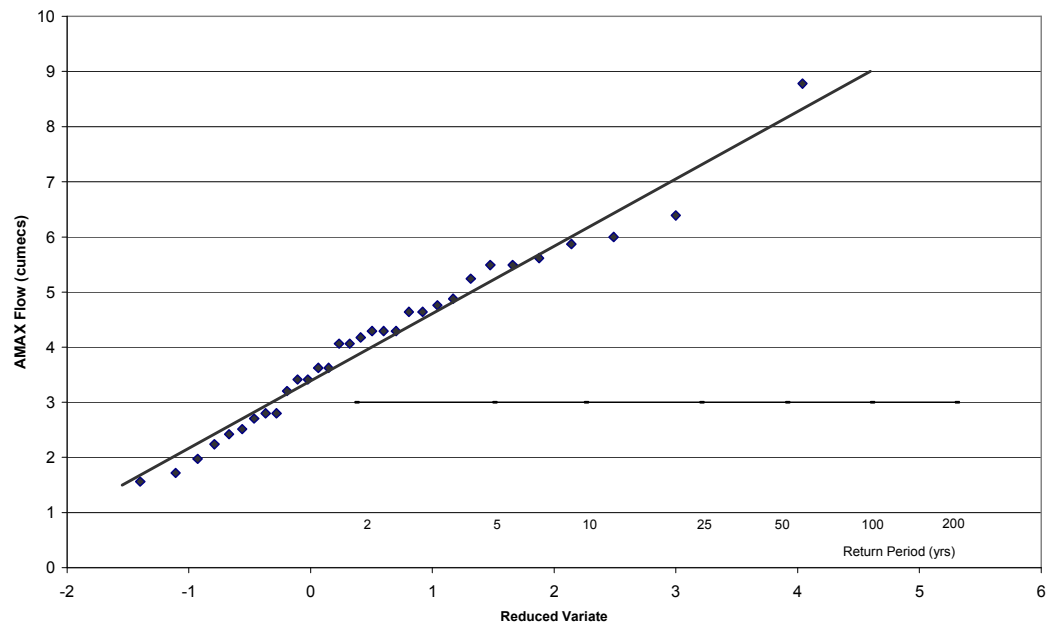
Gauging Station 25038 Flow



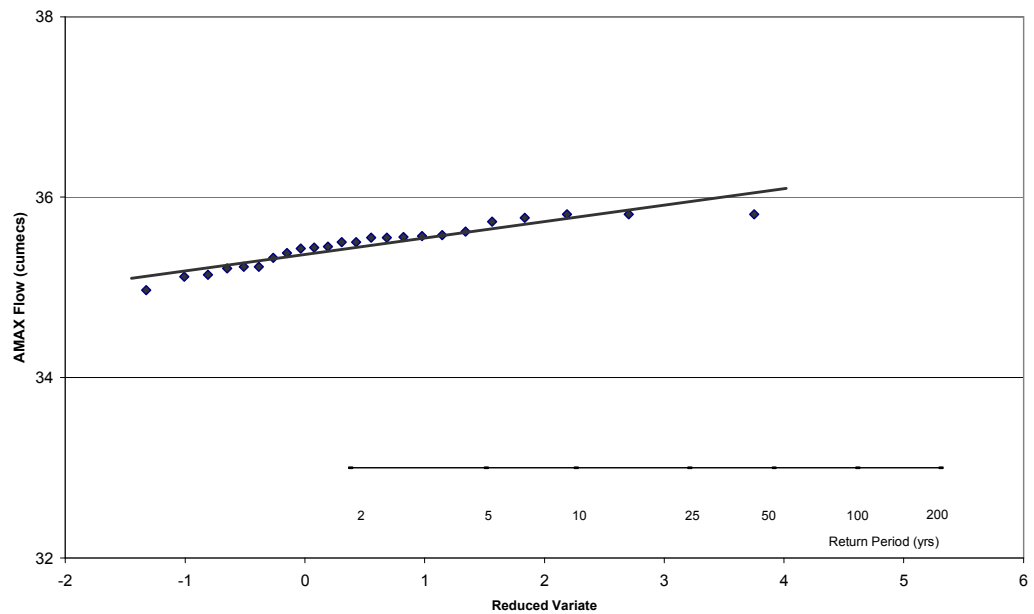
Gauging Station 25040 Flow



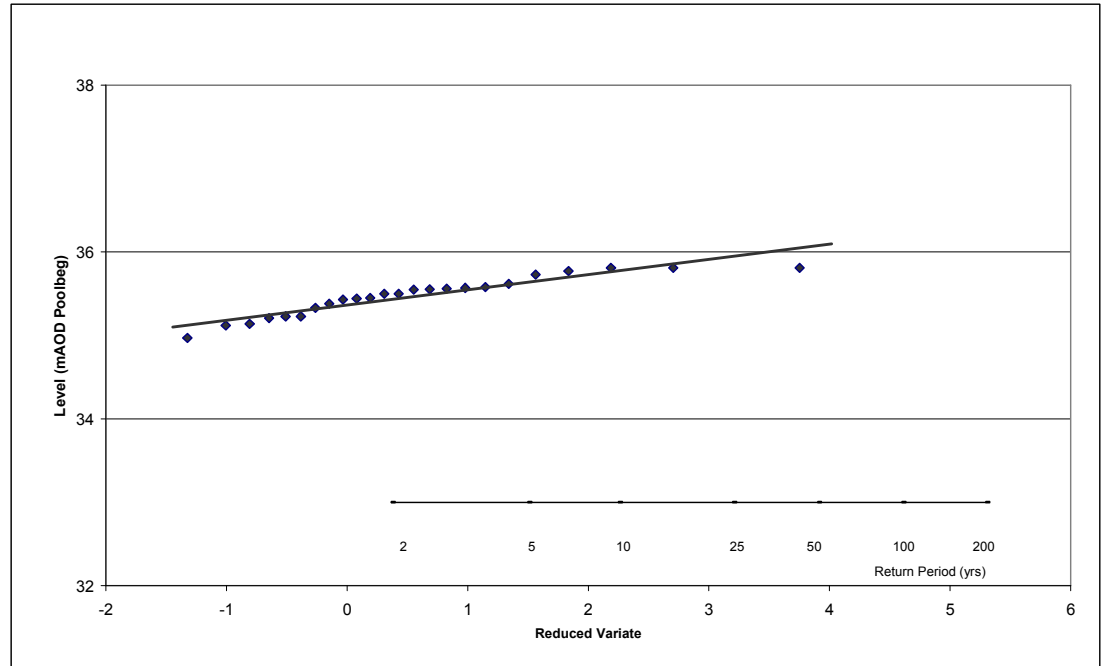
Gauging Station 25044 Flow



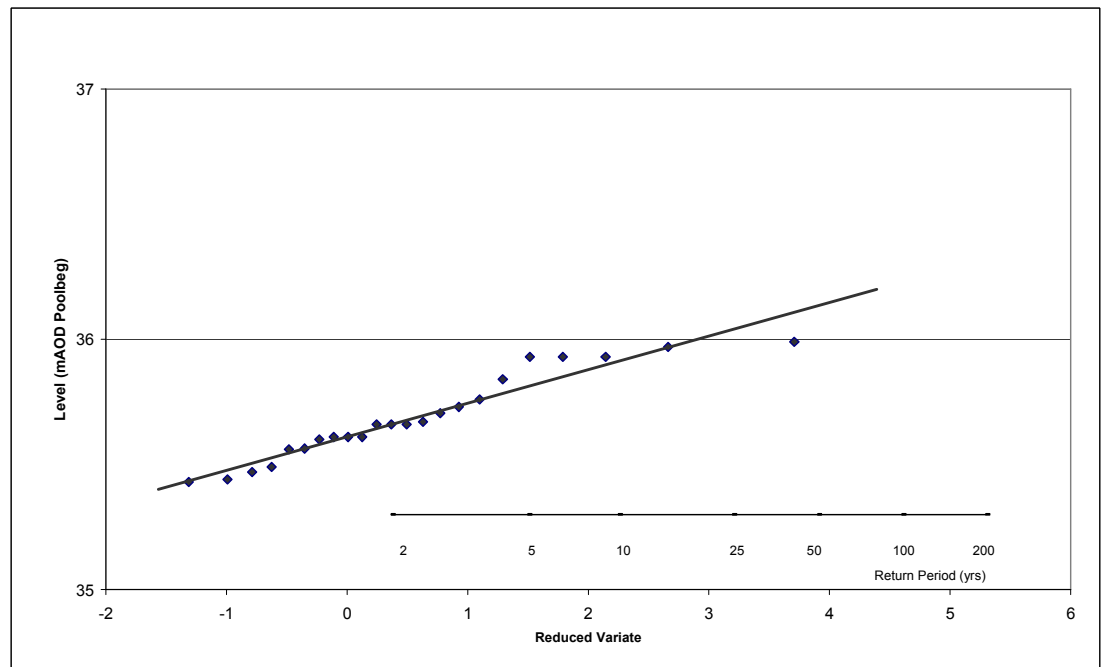
Gauging Station 25050 Flow



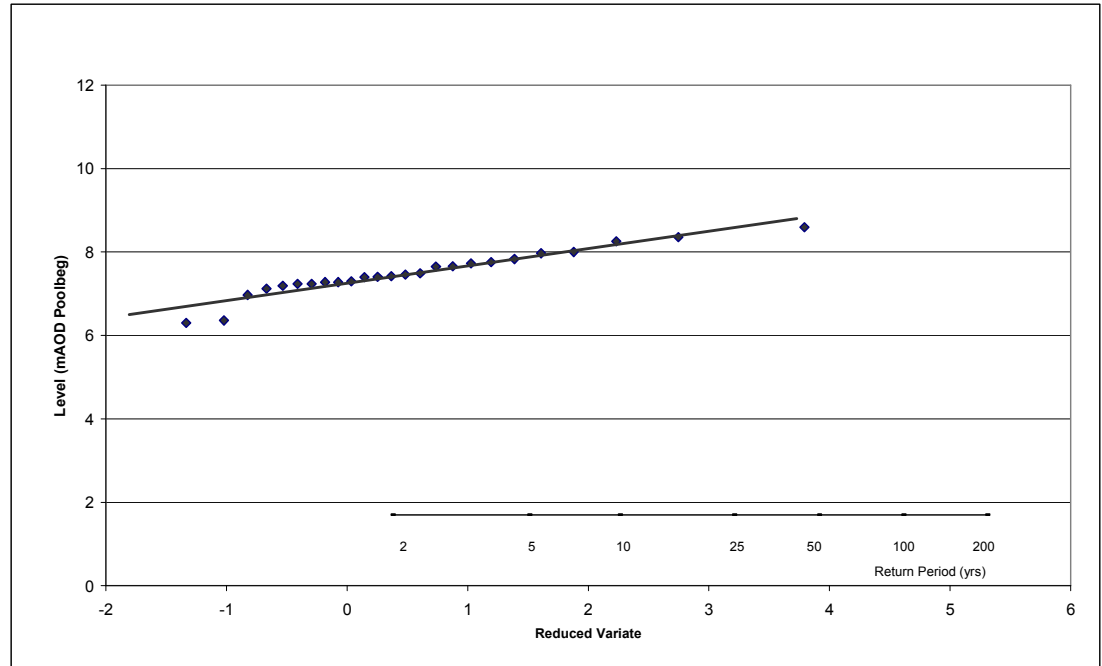
Gauging Station 25056 Flow



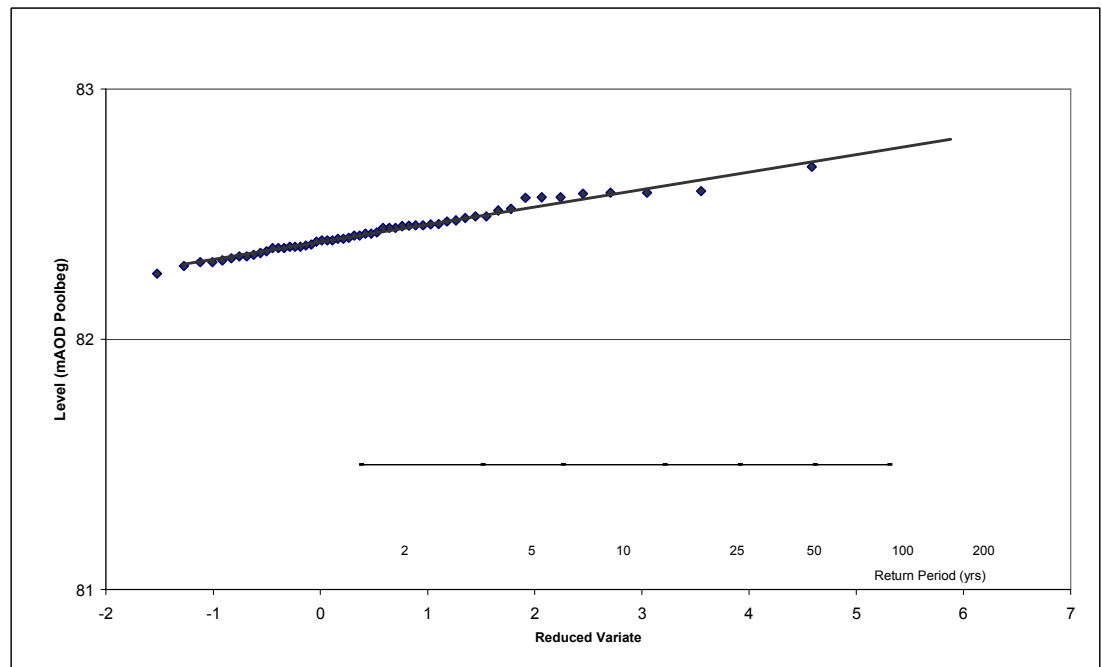
Gauging Station 25056 Flow

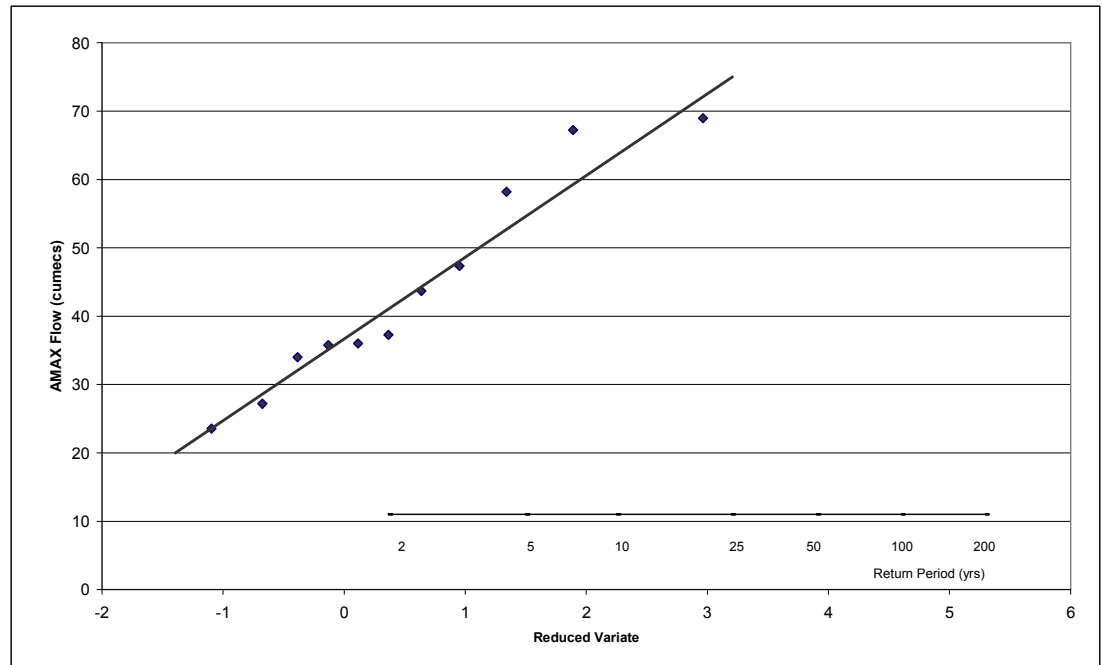


Gauging Station 25058 Flow

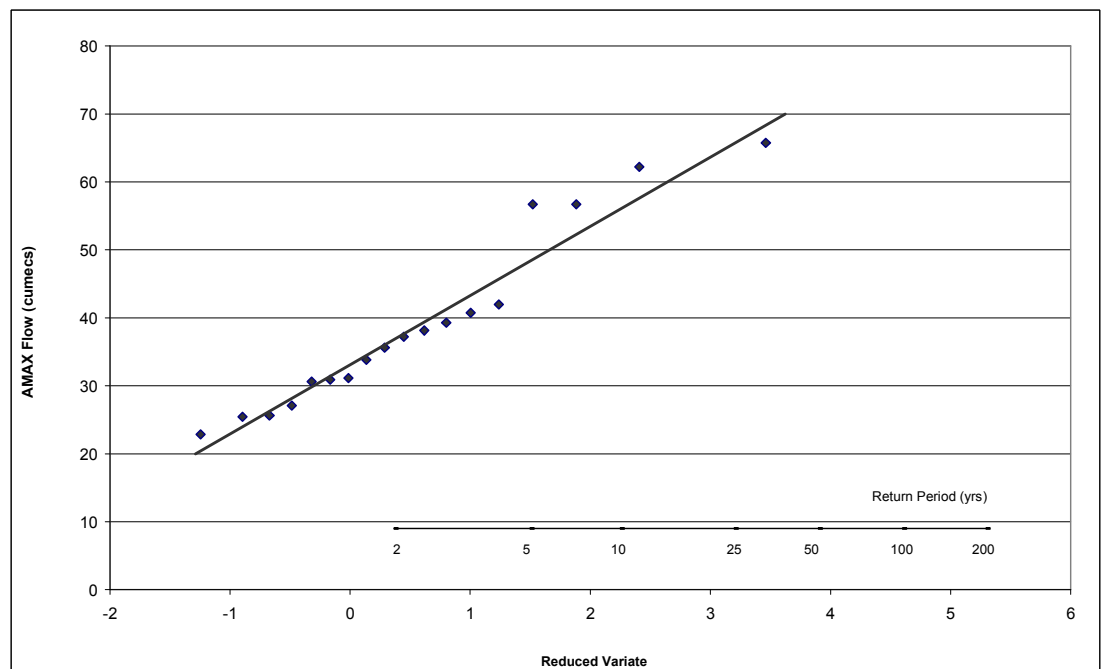


Gauging Station 25076 Flow

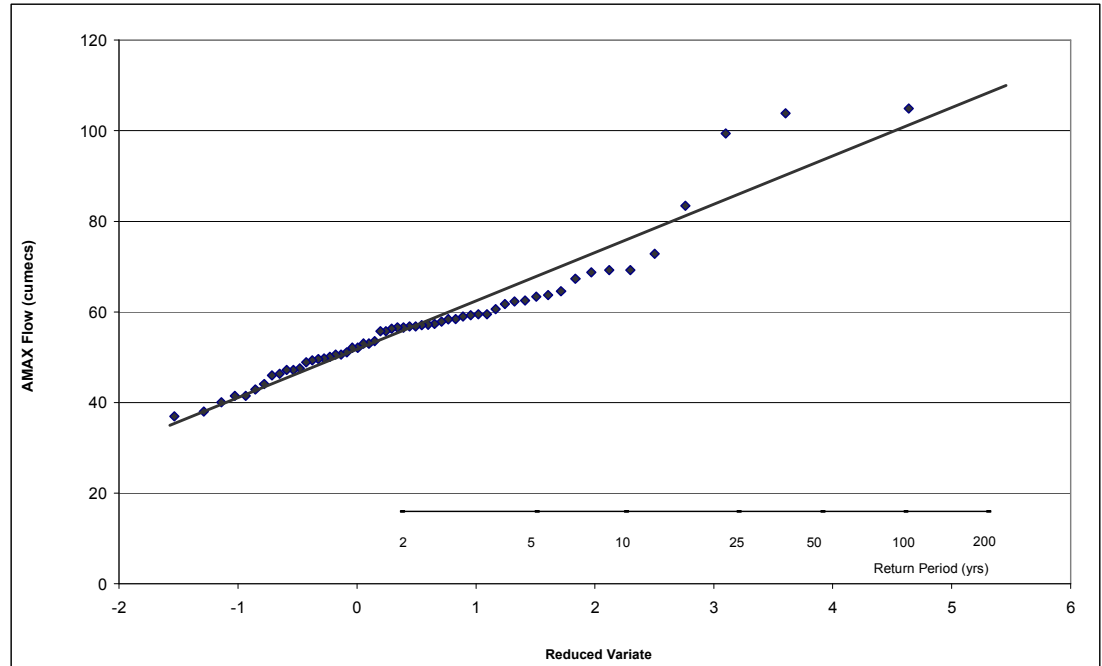




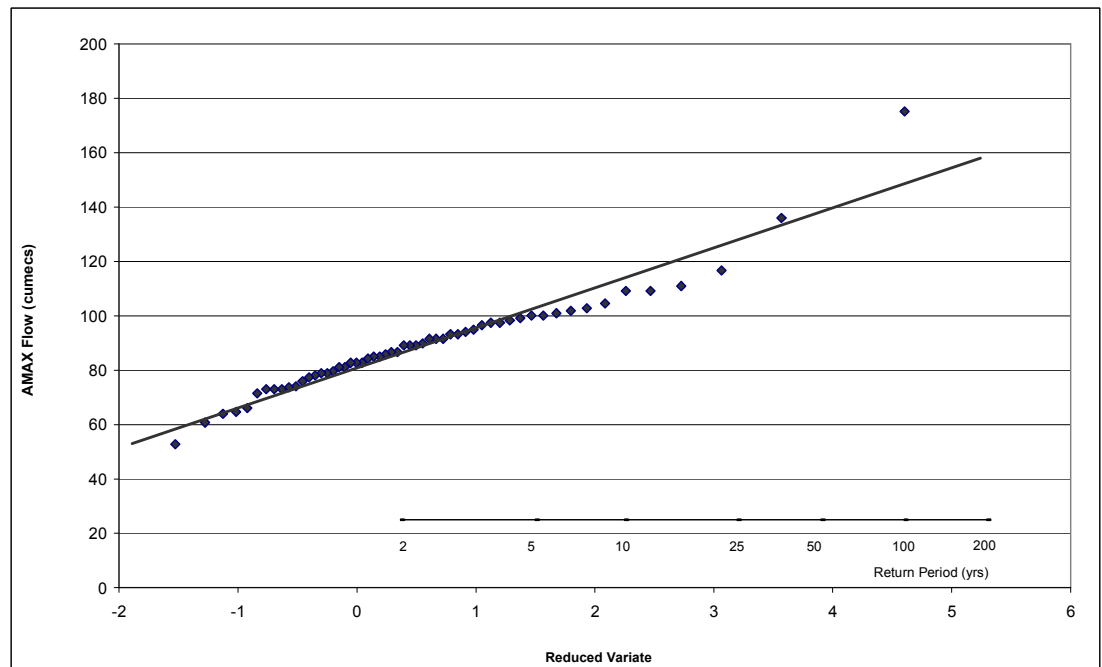
Gauging Station 25308 Flow



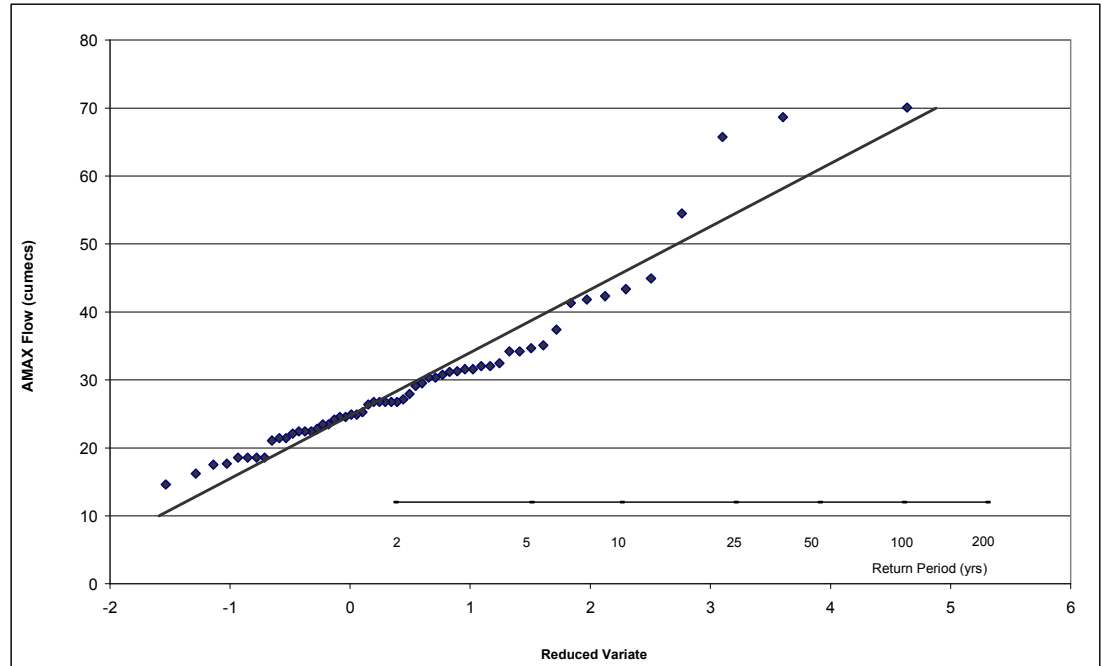
Gauging Station 26001 Flow



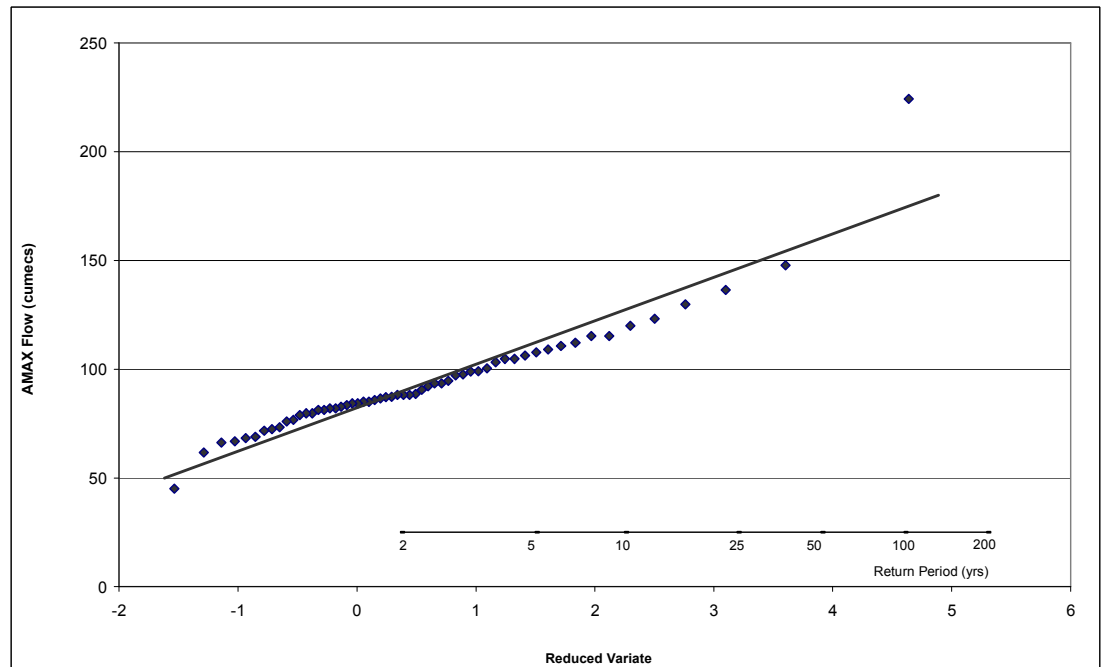
Gauging Station 26002 Flow



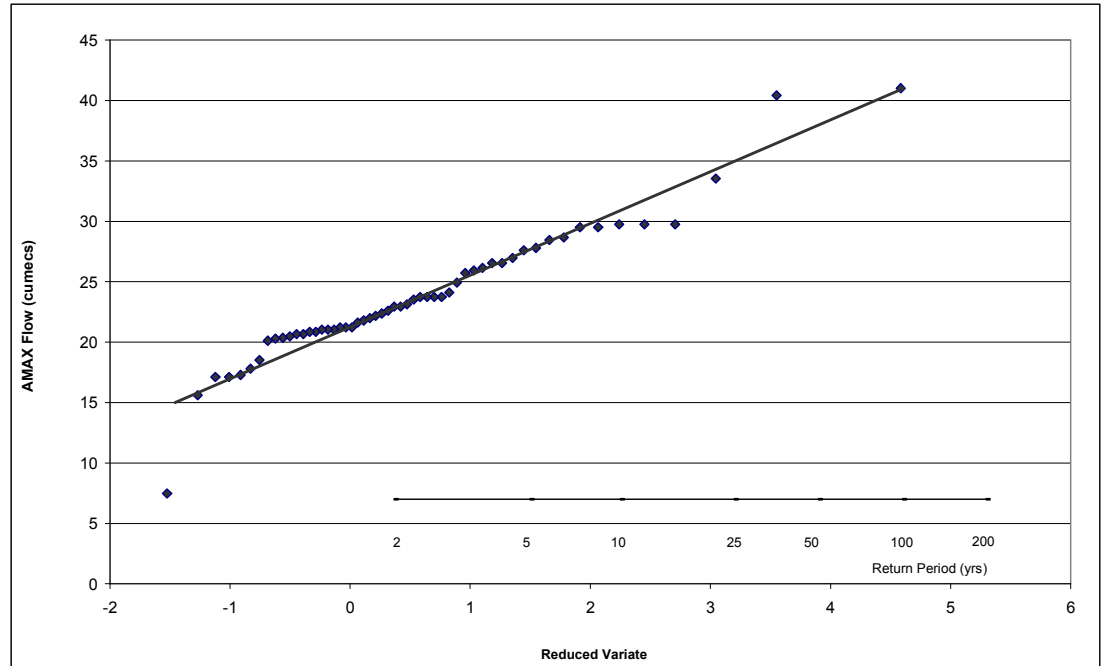
Gauging Station 26005 Flow



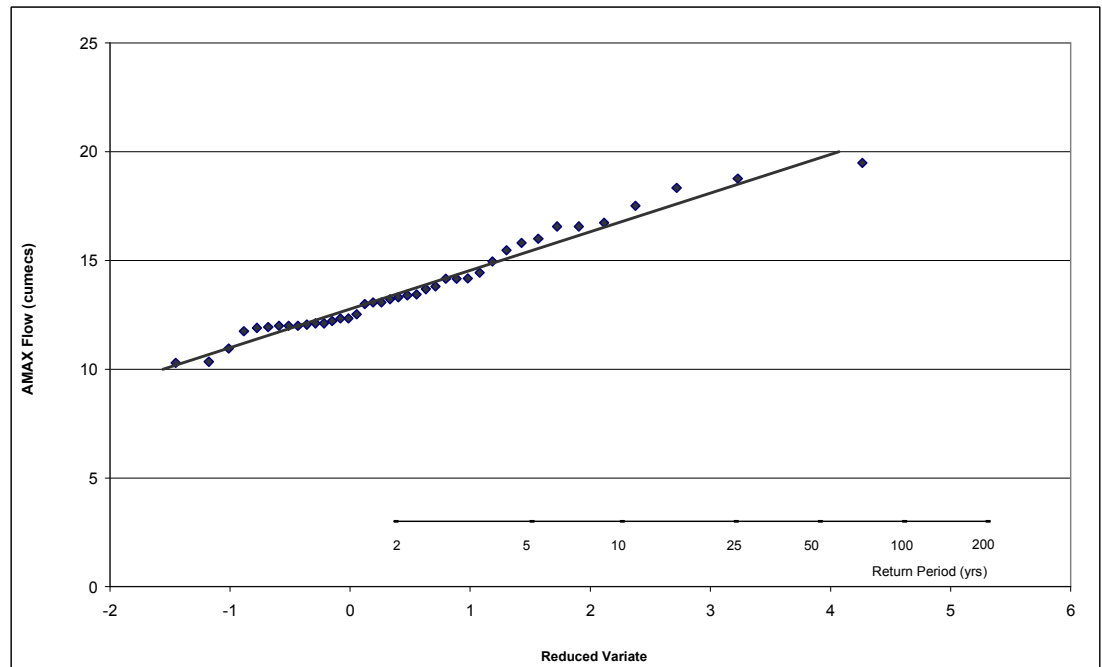
Gauging Station 26006 Flow



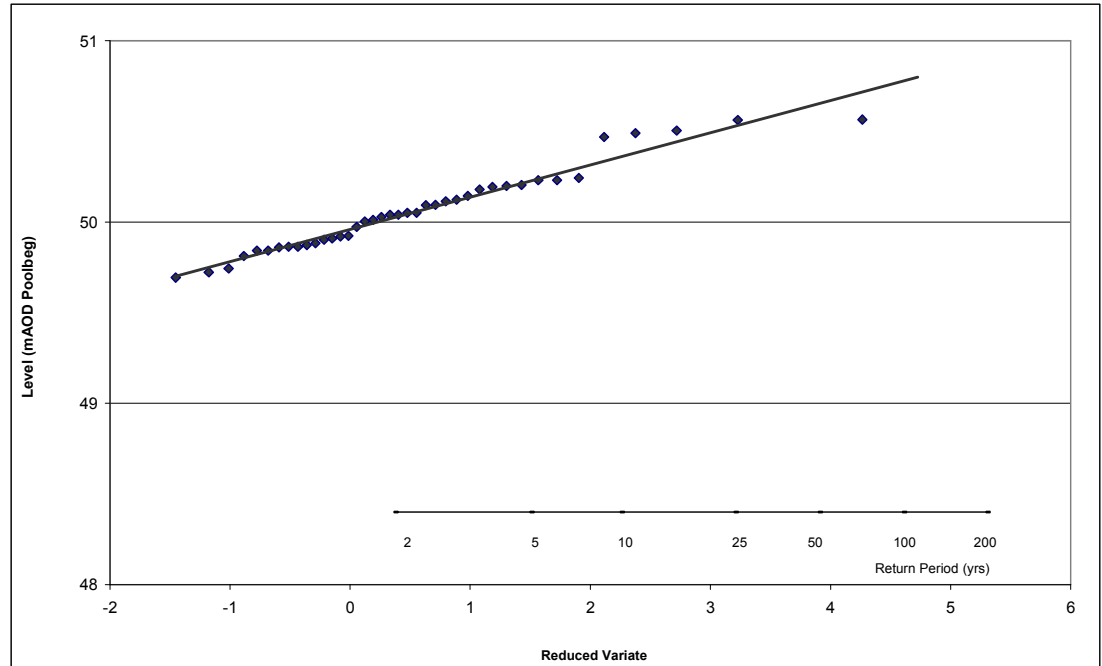
Gauging Station 26007 Flow



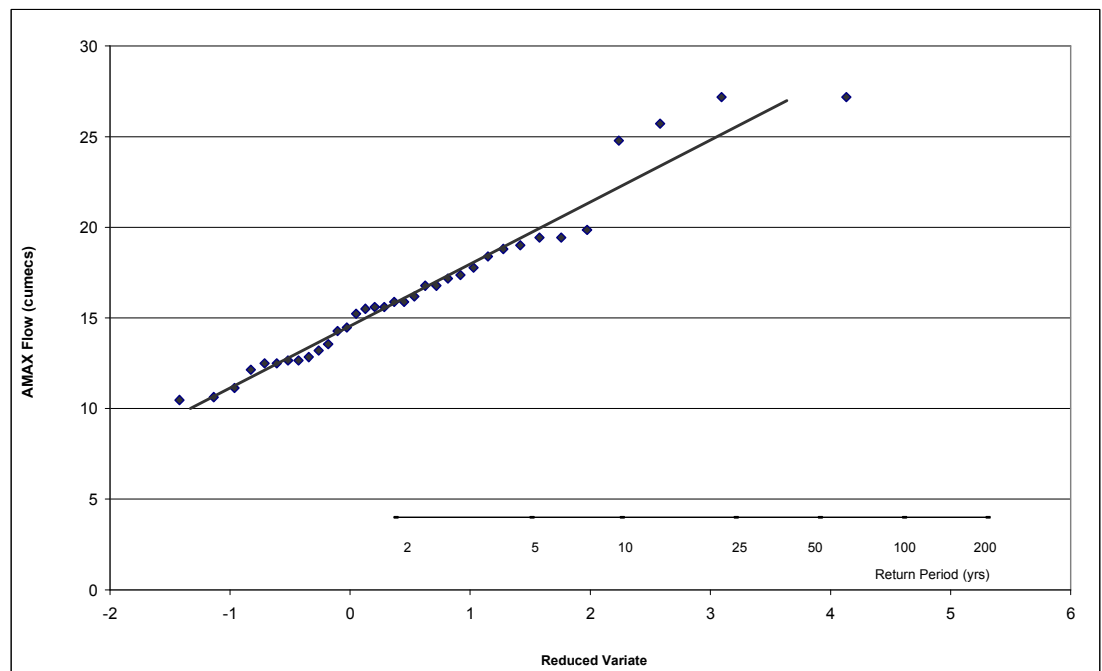
Gauging Station 26008 Flow



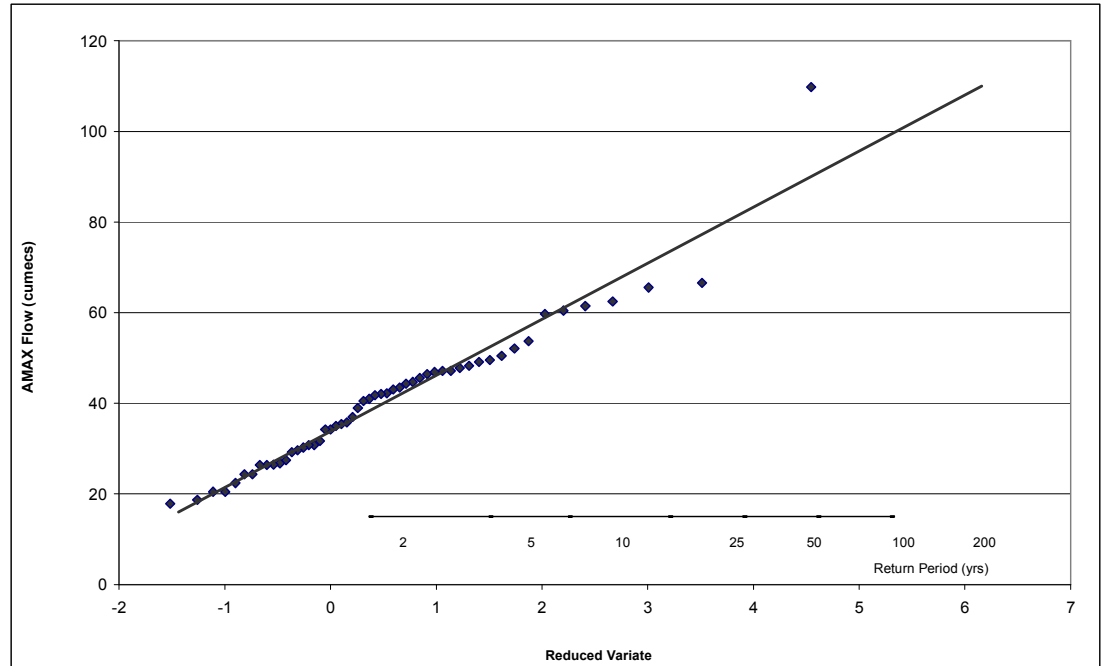
Gauging Station 26009 Flow



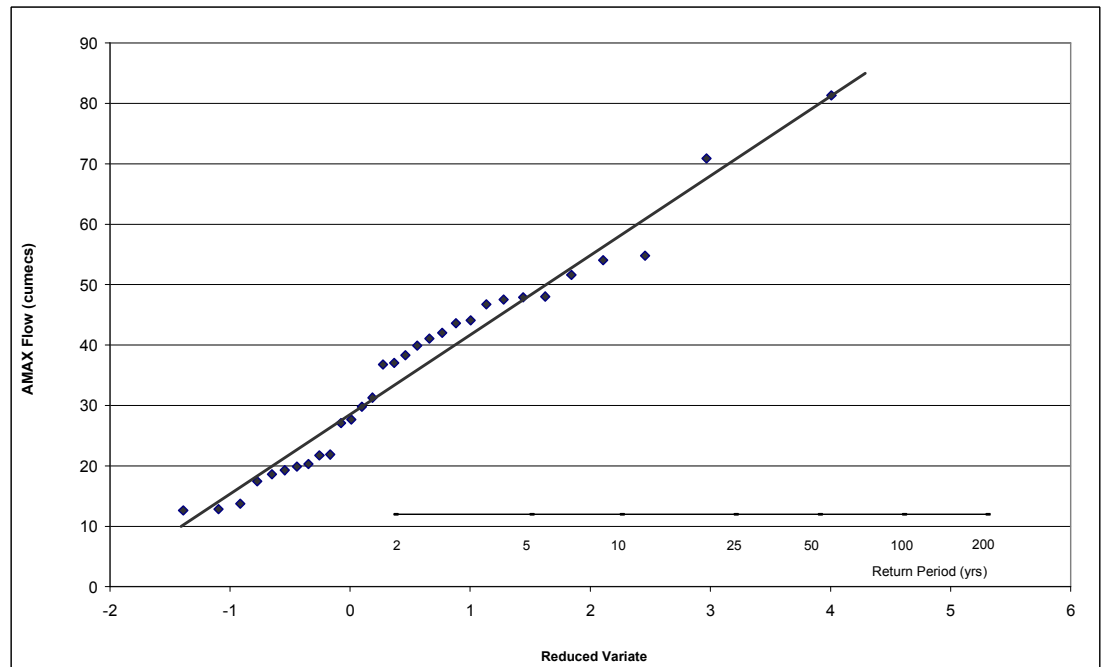
Gauging Station 26010 Levels



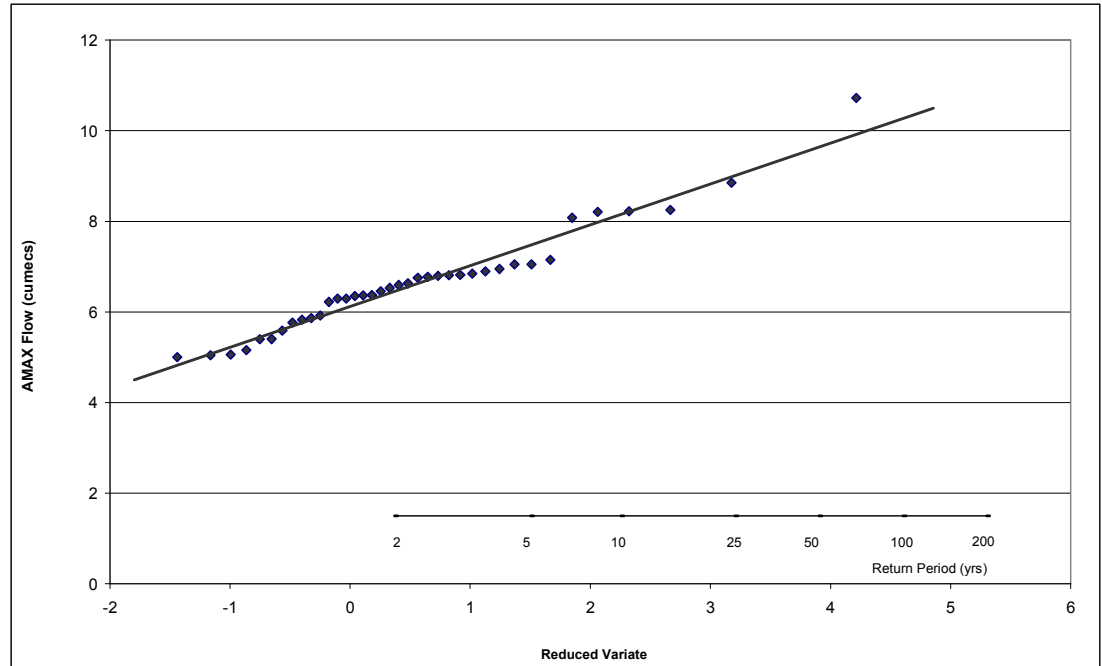
Gauging Station 26010 Flow



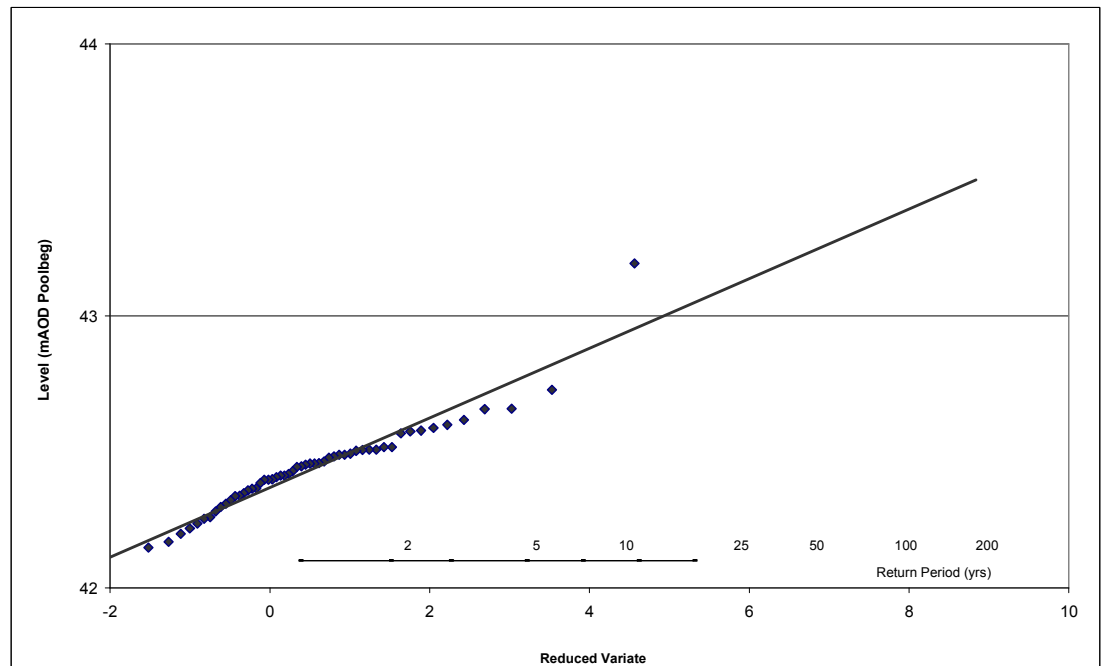
Gauging Station 26012 Flow



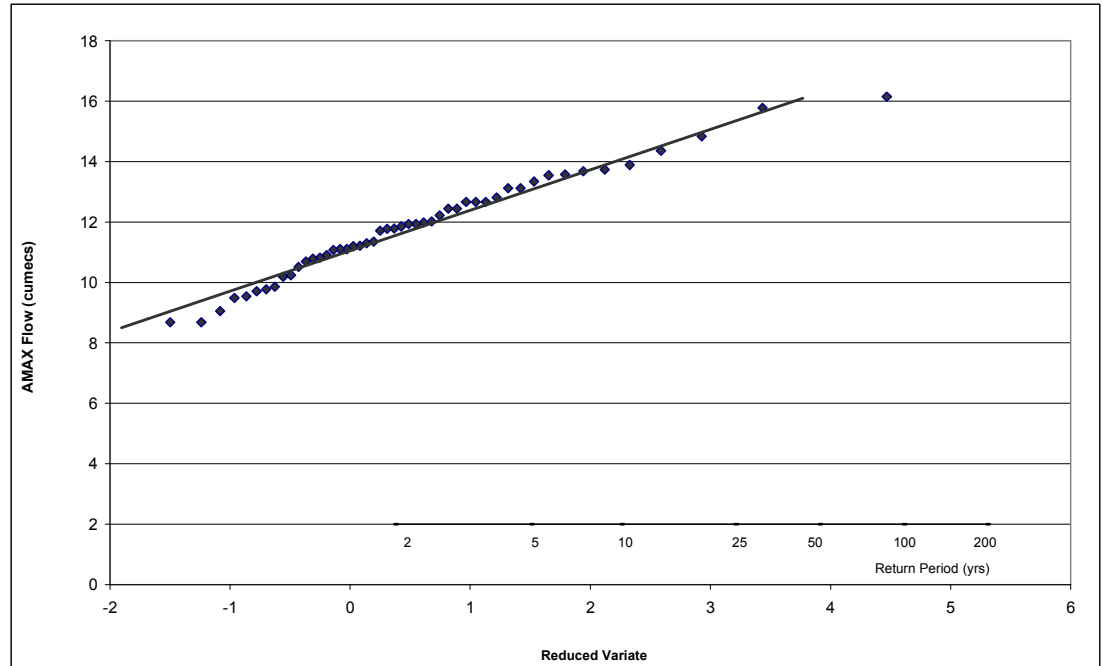
Gauging Station 26014 Flow



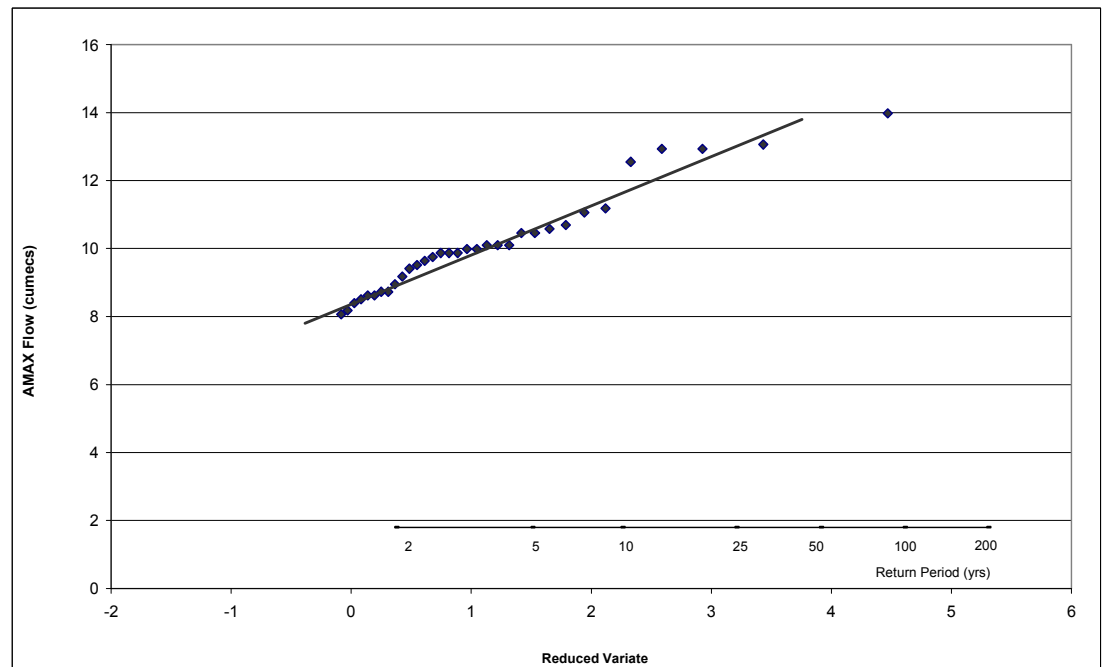
Gauging Station 26015 Flow



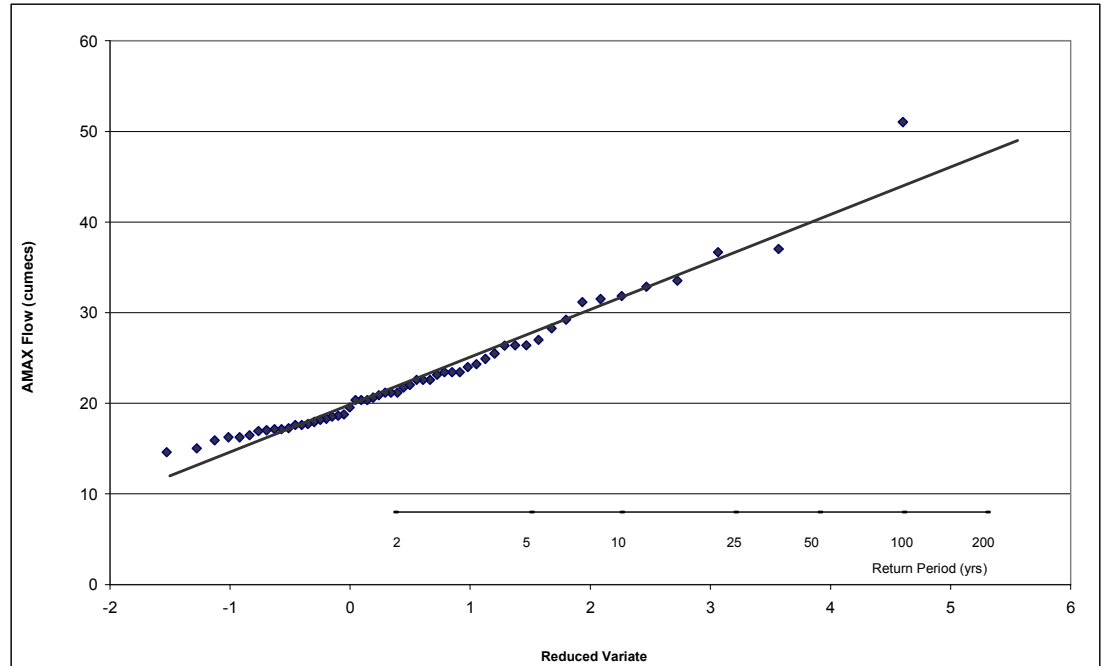
Gauging Station 26017 Levels



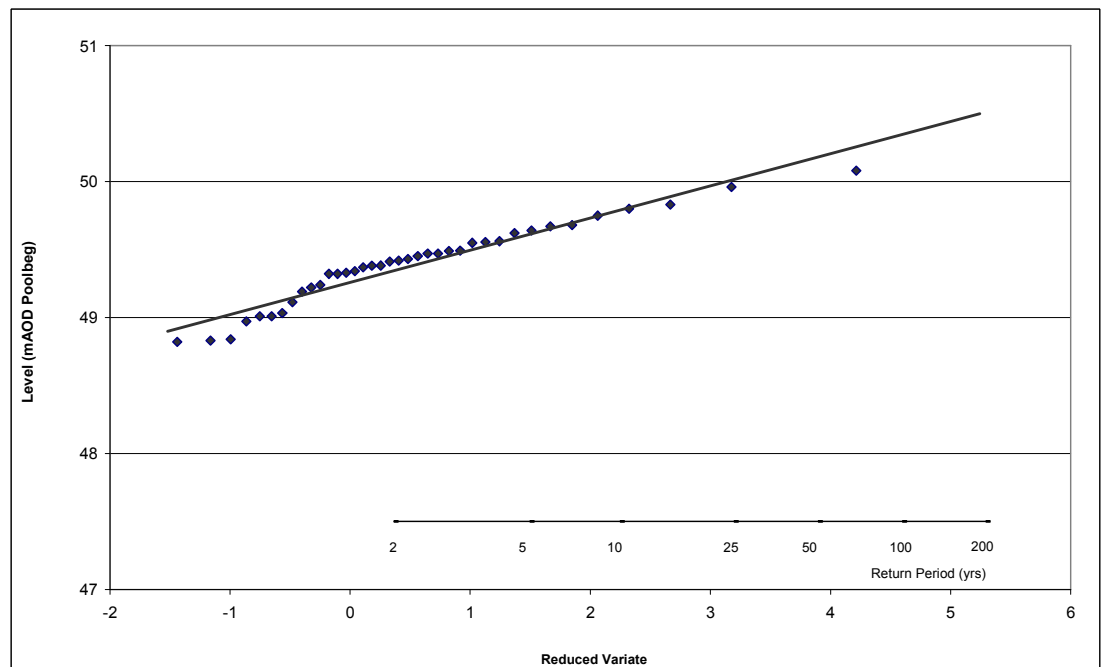
Gauging Station 26017 Flow



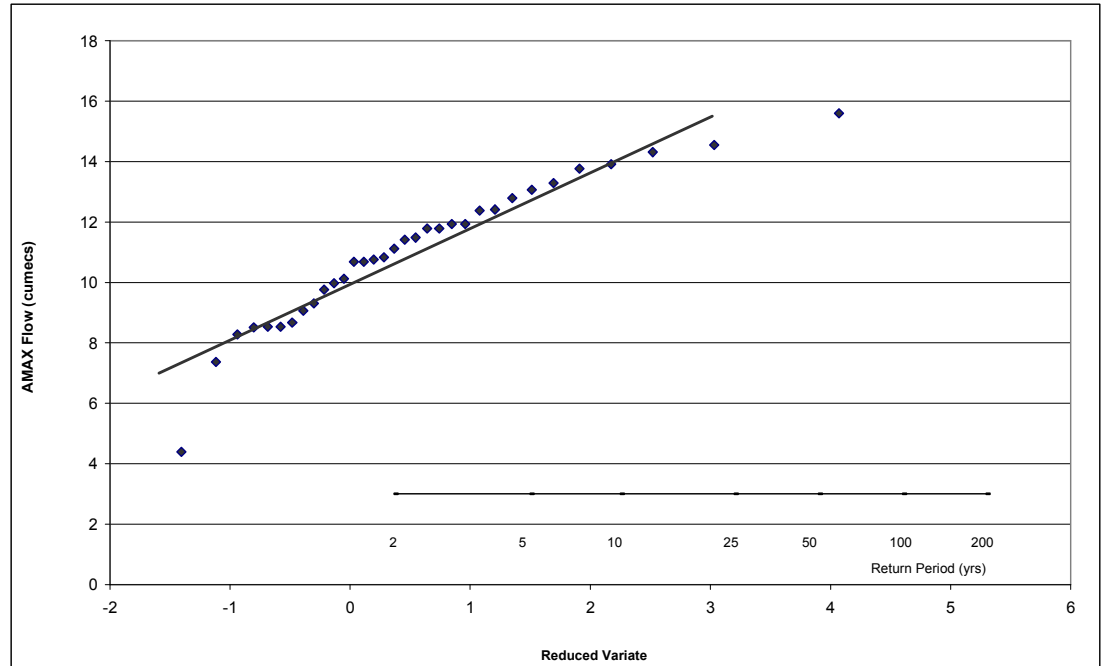
Gauging Station 26018 Flow



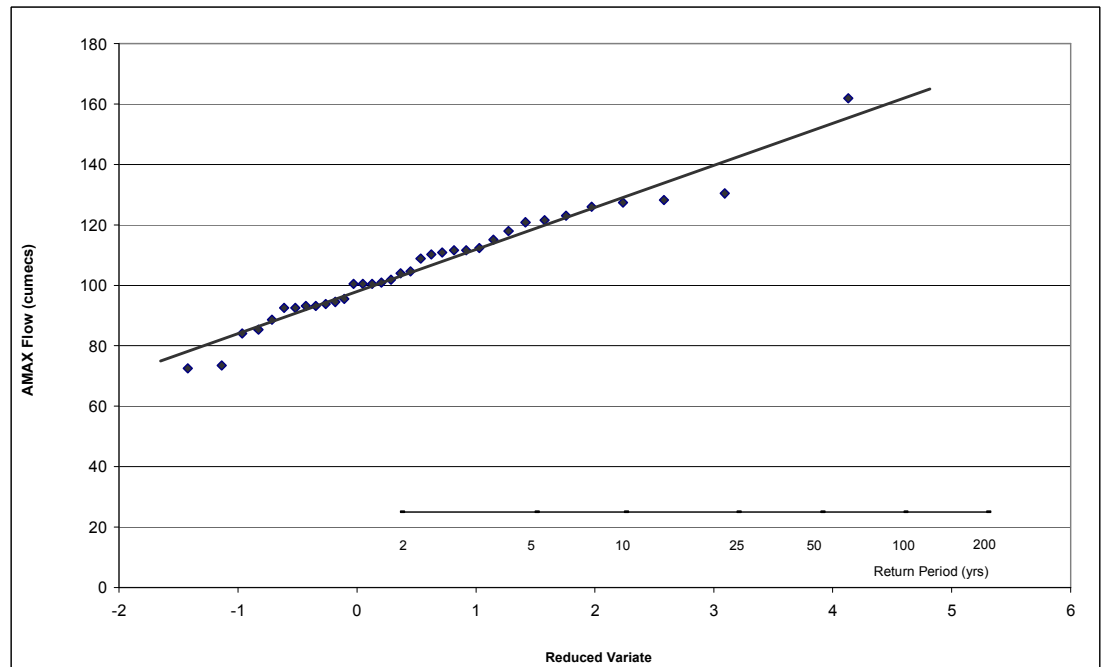
Gauging Station 26019 Flow



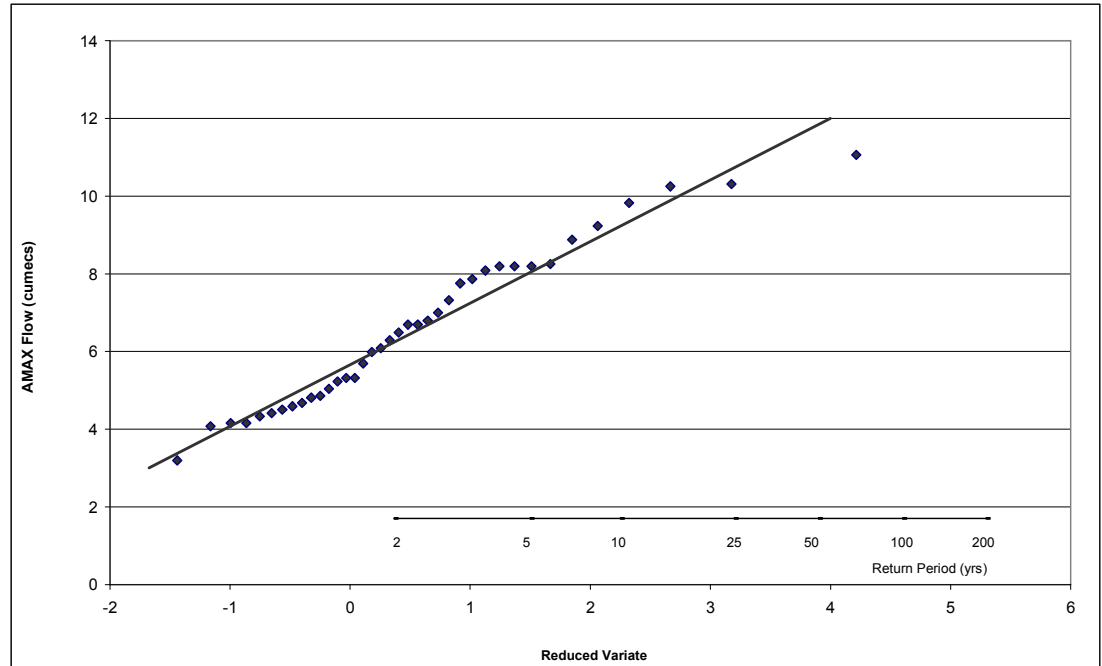
Gauging Station 26020 Levels



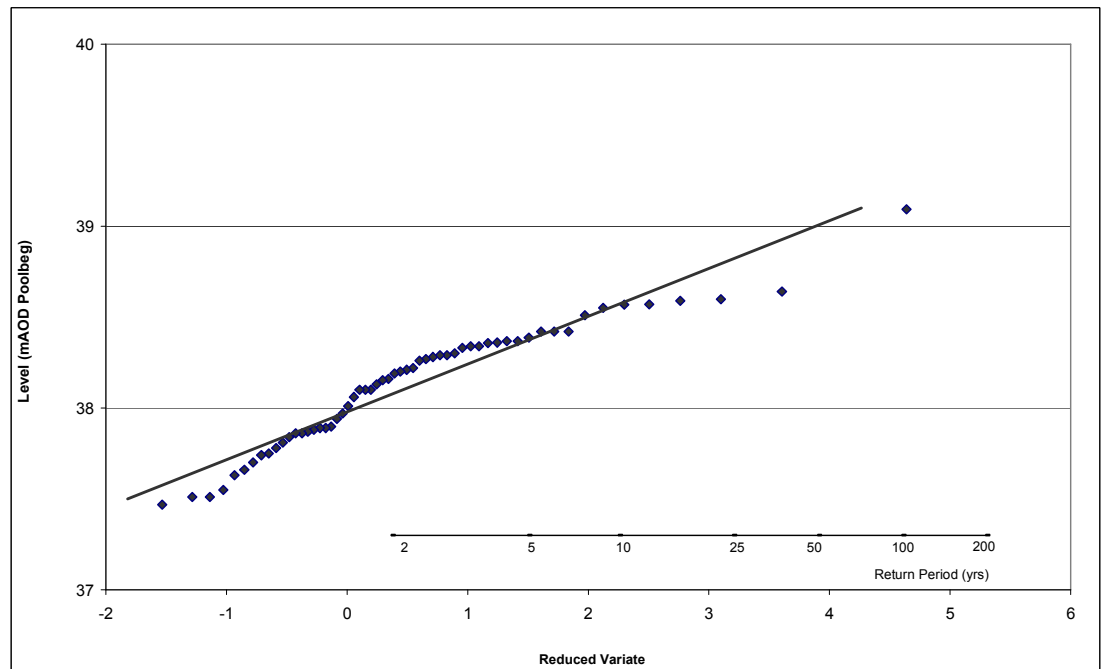
Gauging Station 26020 Flow



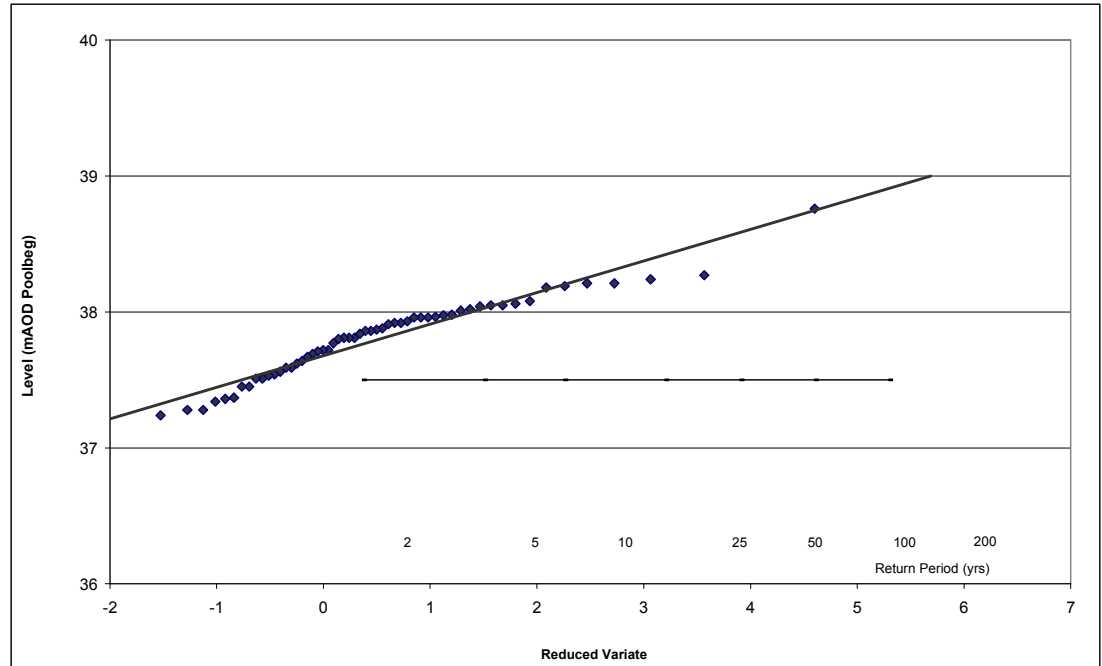
Gauging Station 26021 Flow



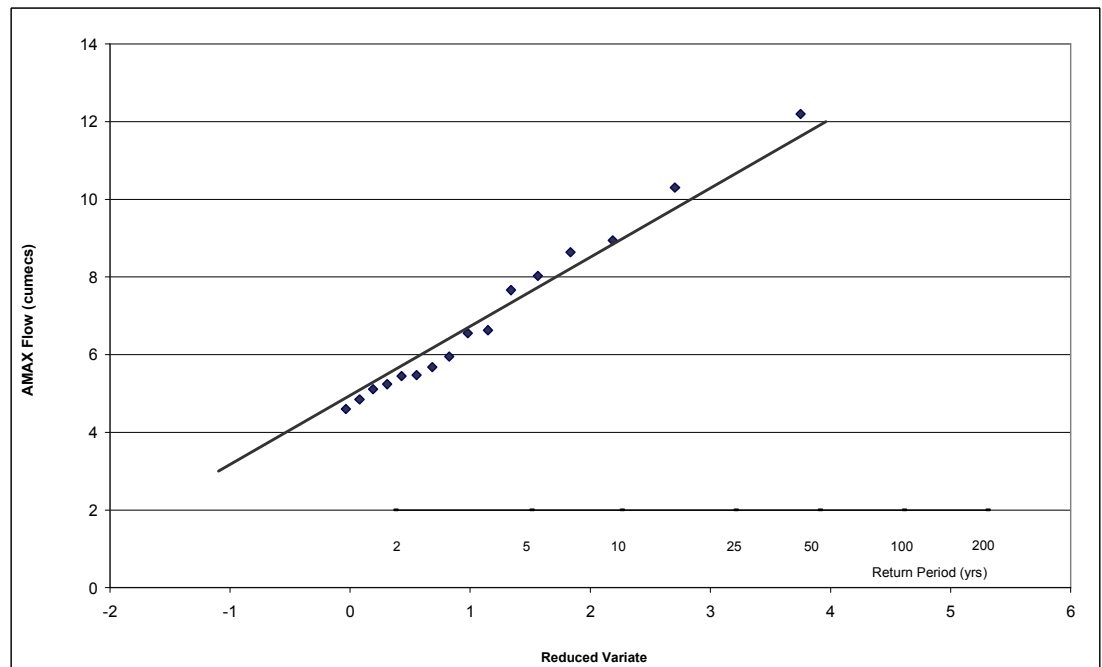
Gauging Station 26024 Flow



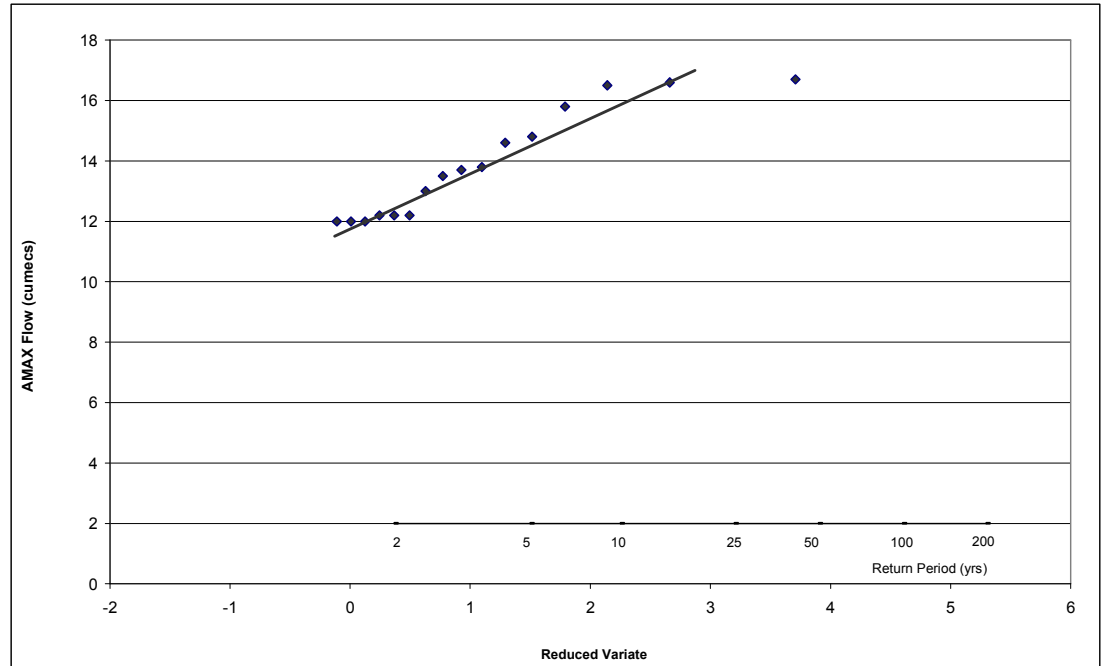
Gauging Station 26027 Levels



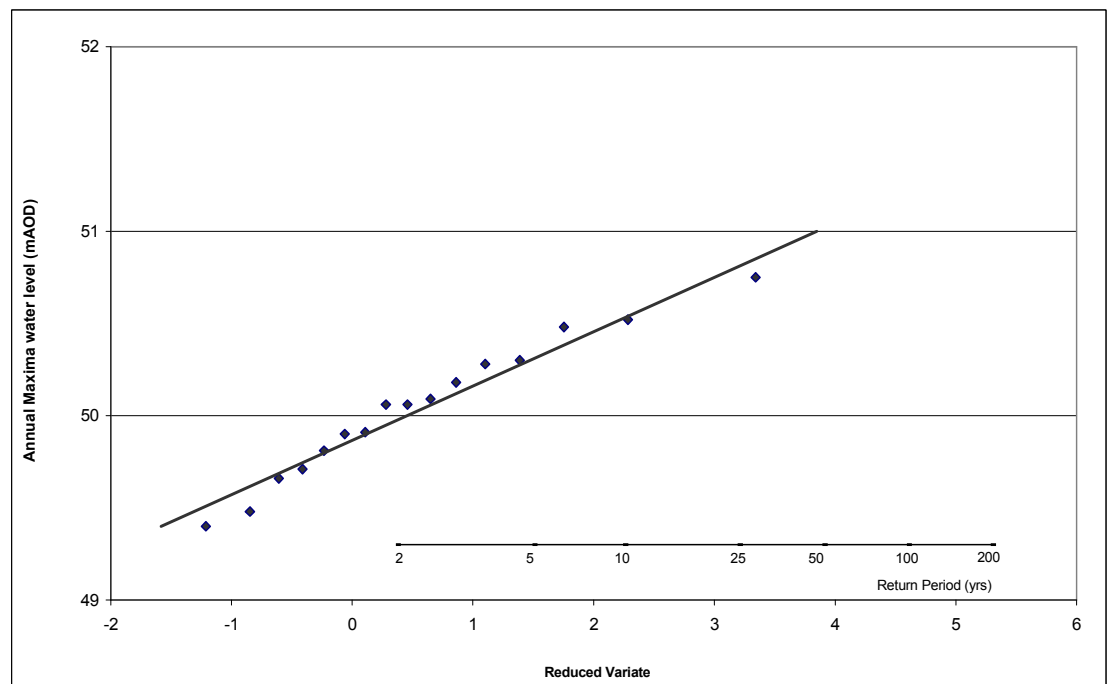
Gauging Station 26028 Levels



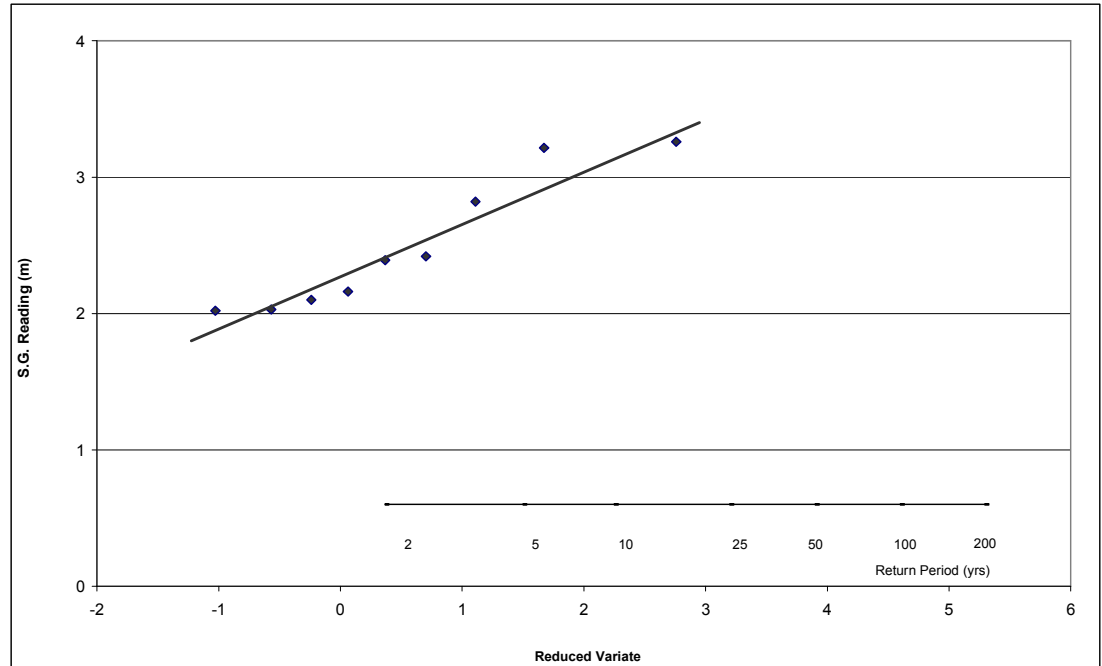
Gauging Station 26058 Flow



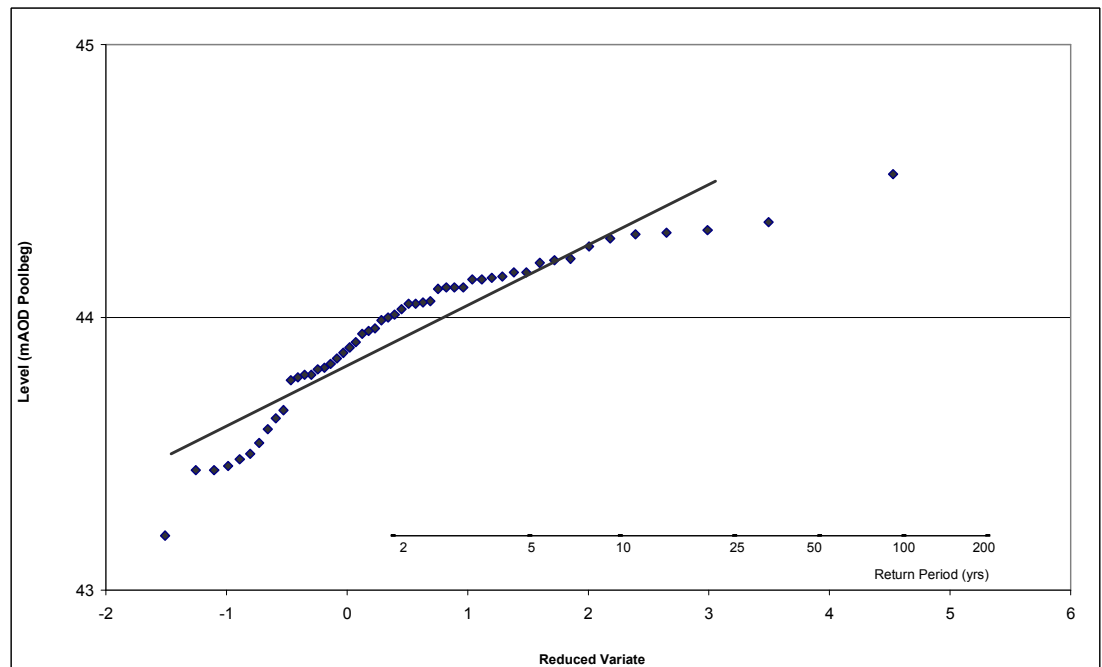
Gauging Station 26059 Flow



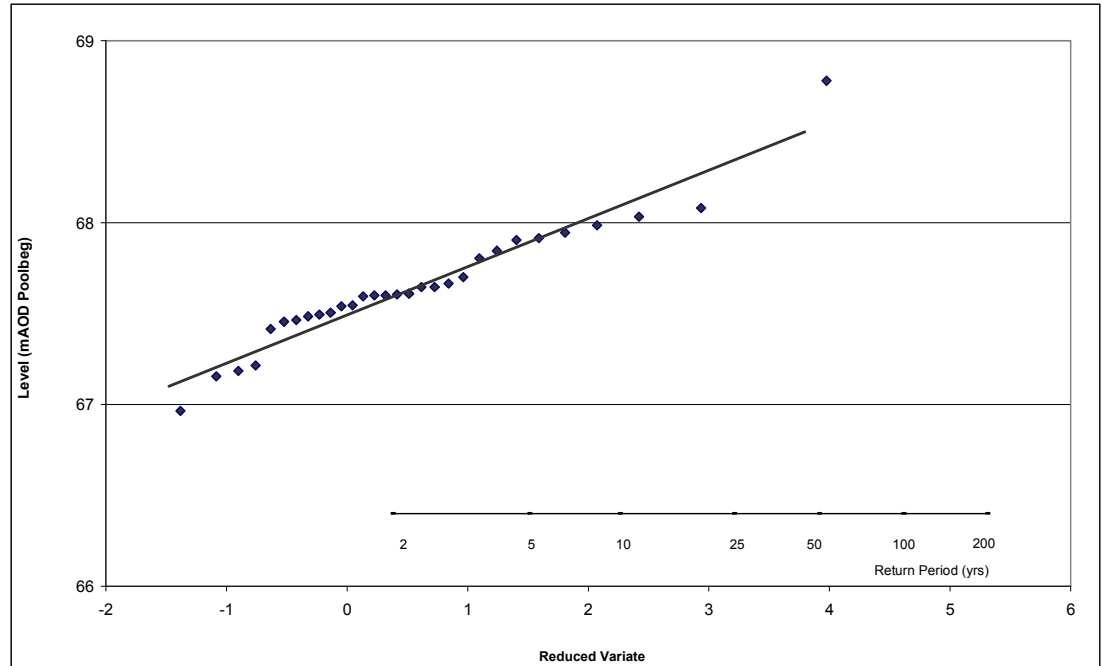
Gauging Station 26074 Level



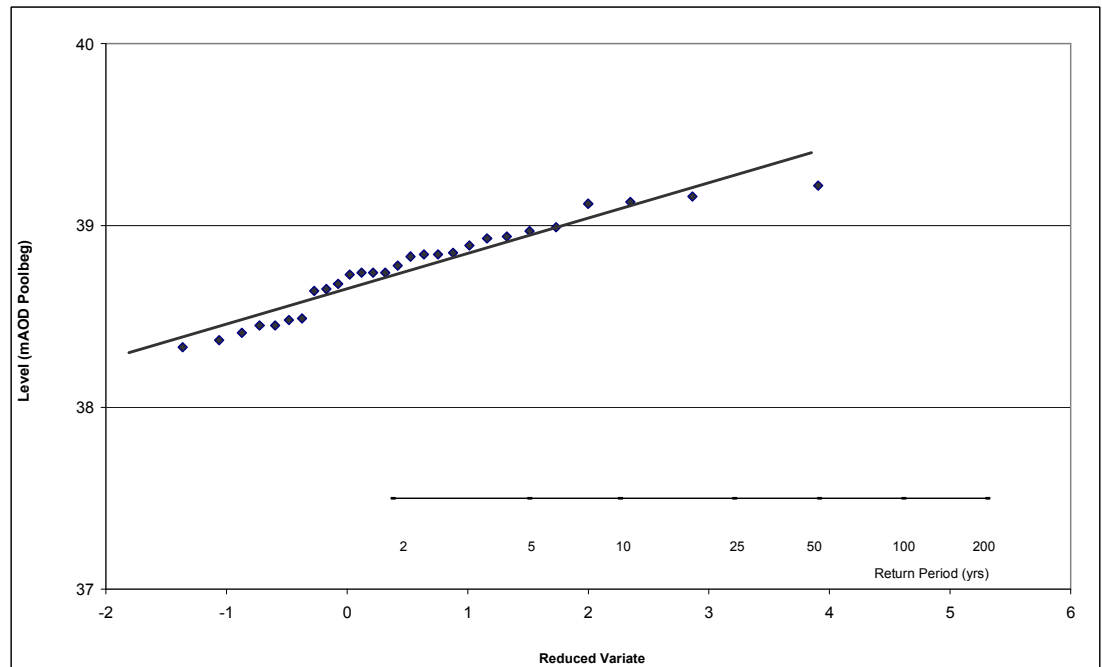
Gauging Station 26079 Levels



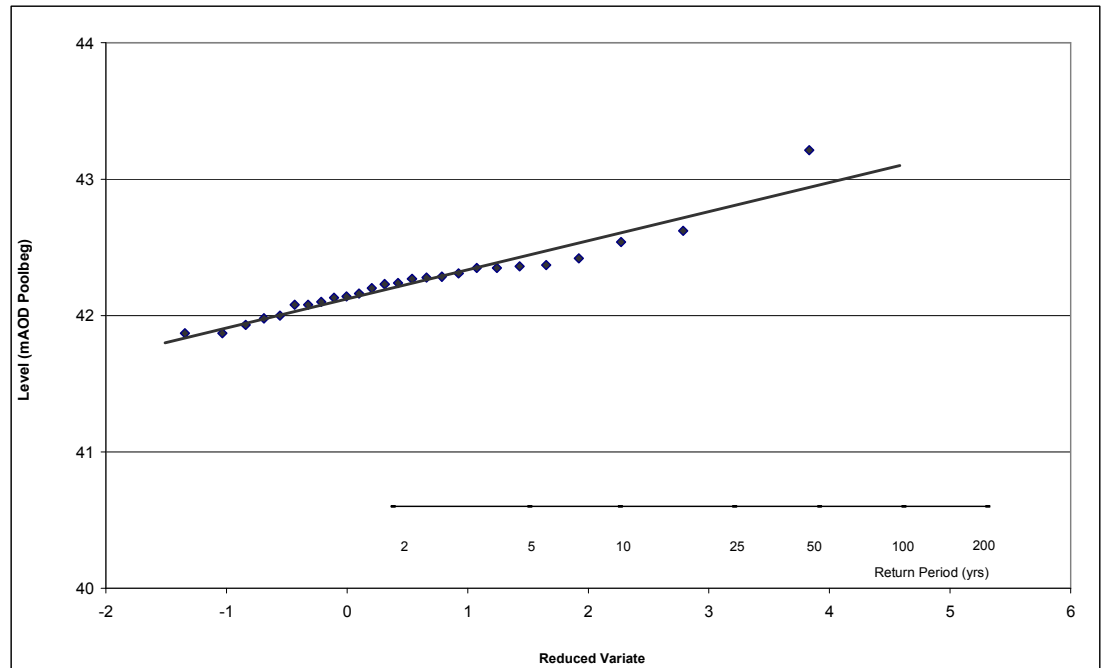
Gauging Station 26085 Levels



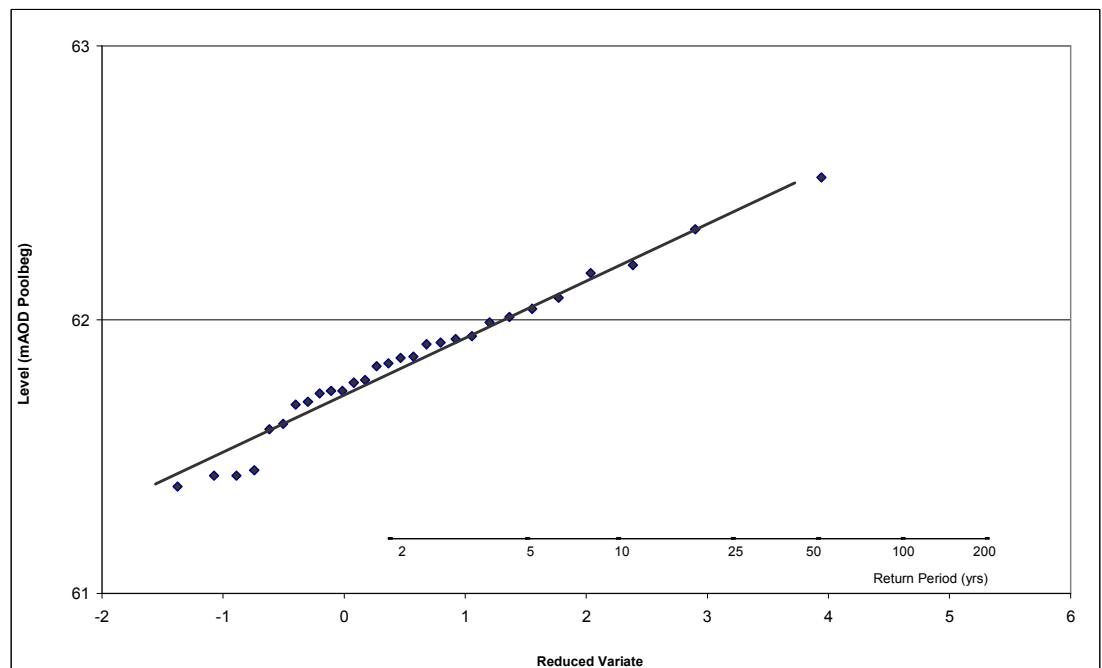
Gauging Station 26087 Levels



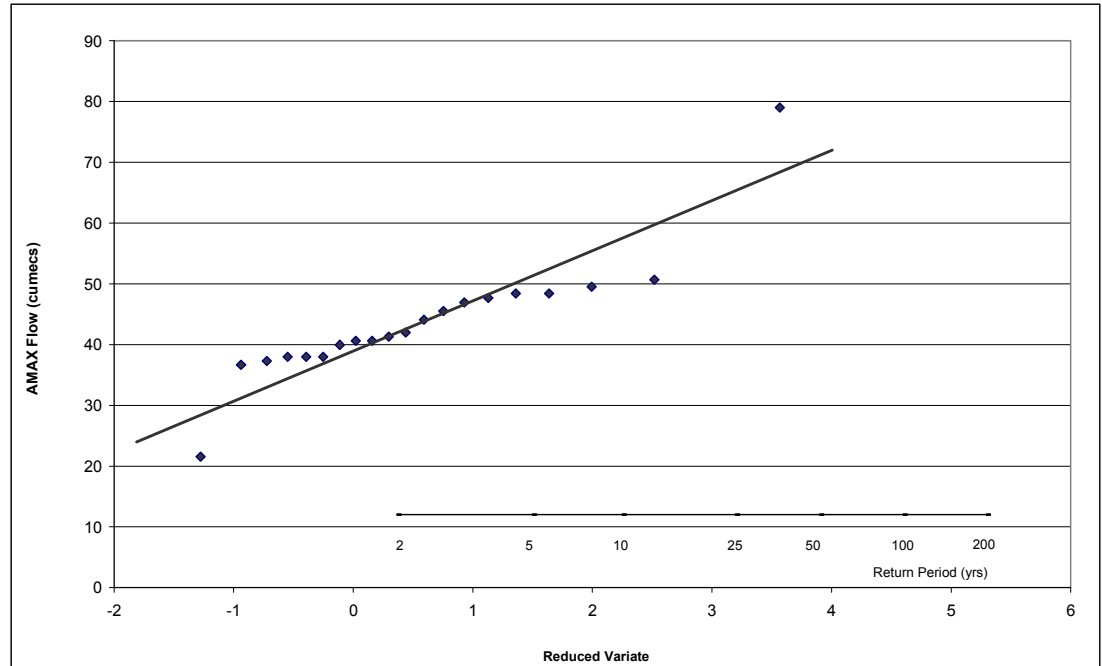
Gauging Station 26088 Levels



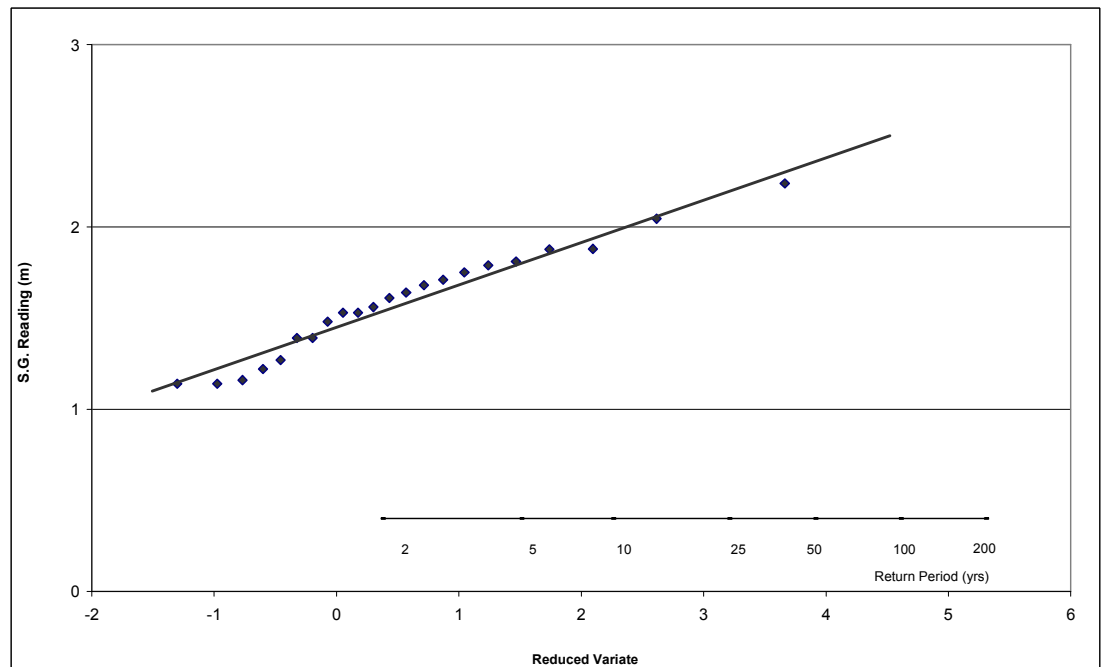
Gauging Station 26089 Levels



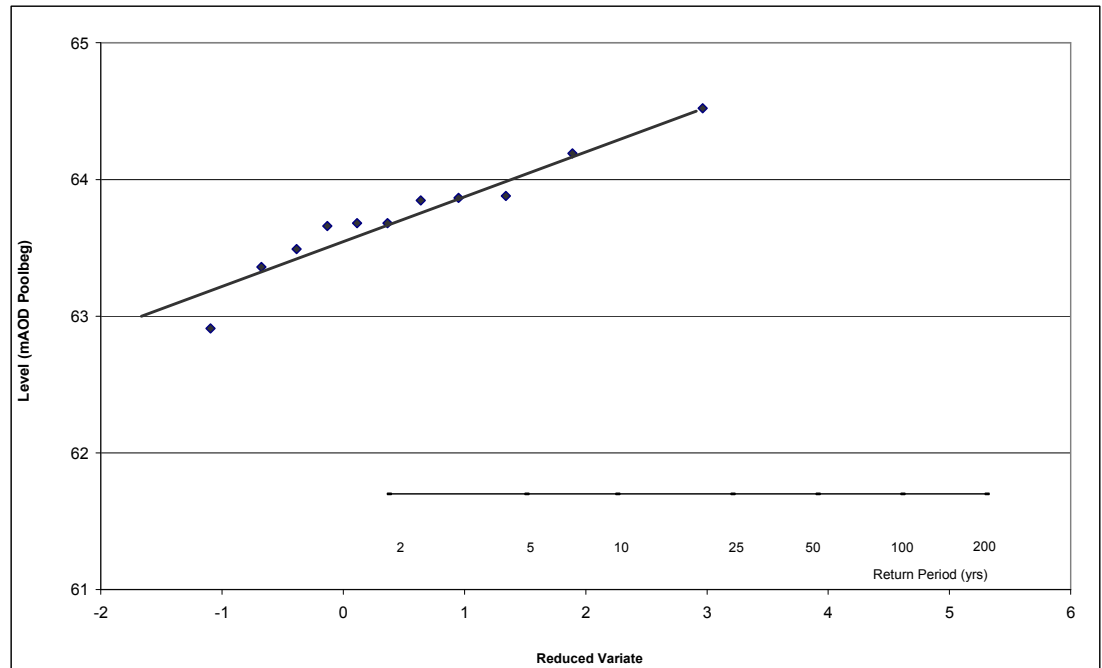
Gauging Station 26104 Levels



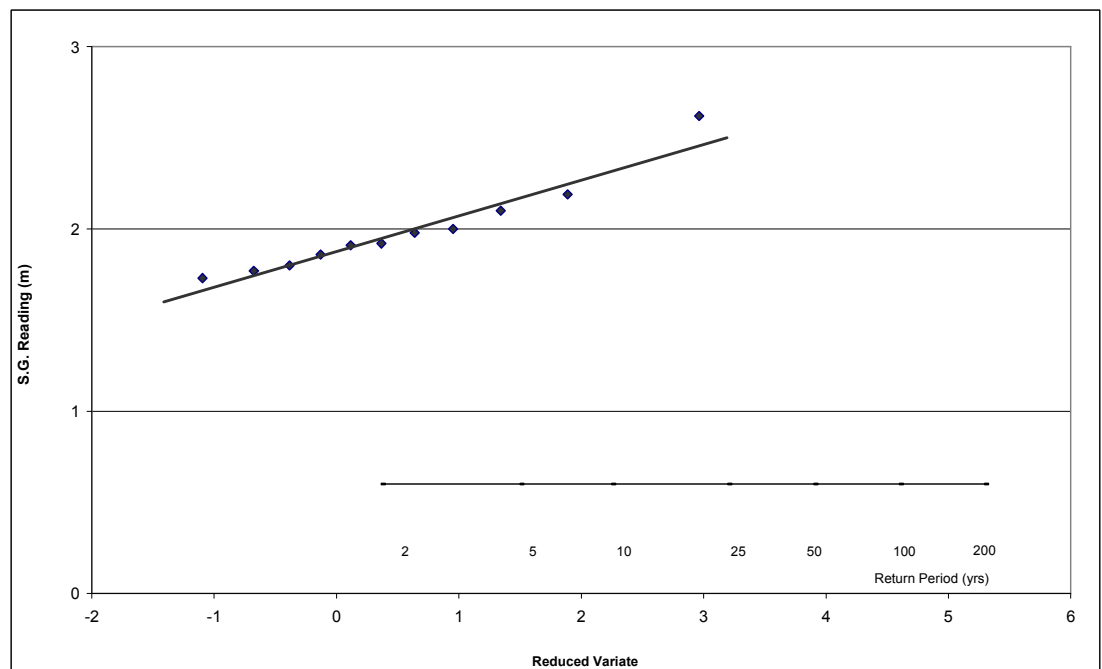
Gauging Station 26108 Flow



Gauging Station 26140 Levels



Gauging Station 26305 Levels



Gauging Station 26306 Levels

Appendix G Catchment Boundary Discrepancies

Appendix G is provided in electronic format via the Sharepoint file sharing system.



Appendix H Gauging Station Summary Sheets

25001 – MULKEAR AT ANNACOTTY

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953	127.6	03/12/1953
1954	123.8	31/12/1954
1955	106.8	14/01/1956
1956	125.7	25/09/1957
1957	125.7	03/09/1958
1958	107.4	06/11/1958
1959	125.7	14/09/1960
1960	149.9	04/12/1960
1961	112.8	03/04/1962
1962	87.3	05/11/1962
1963	112.8	17/08/1964
1964	147.9	12/12/1964
1965	158.1	09/12/1965
1966	123.8	22/02/1967
1967	143.9	07/10/1967
1968	155.3	25/12/1968
1969	126.4	22/02/1970
1970	103.2	19/11/1970
1971	117.0	21/11/1971
1972	118.1	13/11/1972
1973	137.9	28/11/1973
1974	137.3	22/01/1975
1975	135.6	30/01/1976
1976	N/A	N/A
1977	133.4	21/04/1978
1978	119.8	28/12/1978
1979	127.9	25/10/1979
1980	N/A	N/A
1981	90.6	14/12/1981
1982	139.3	31/01/1983
1983	147.9	06/02/1984
1984	95.9	14/08/1985
1985	137.6	06/08/1986
1986	112.6	19/11/1986
1987	114.2	01/02/1988
1988	128.7	22/10/1988
1989	154.9	06/02/1990
1990	122.1	02/01/1991
1991	126.6	13/09/1992
1992	119.1	30/09/1993
1993	129.4	12/12/1993
1994	150.4	22/02/1995
1995	114.3	12/02/1996
1996	134.9	05/08/1997
1997	126.1	06/03/1998
1998	128.8	21/09/1999
1999	114.3	25/12/1999
2000	133.3	06/11/2000
2001	84.6	26/02/2002
2002	85.5	10/06/2003
2003	111.2	14/11/2003
2004	131.6	08/01/2005
2005	100.0	22/05/2006
2006	114.3	14/12/2006
2007	136.1	07/12/2007
2008	128.8	13/12/2008
2009	118.0	19/11/2009

Length of AMAX series: 55 years

Gauging Authority: Office of Public Works

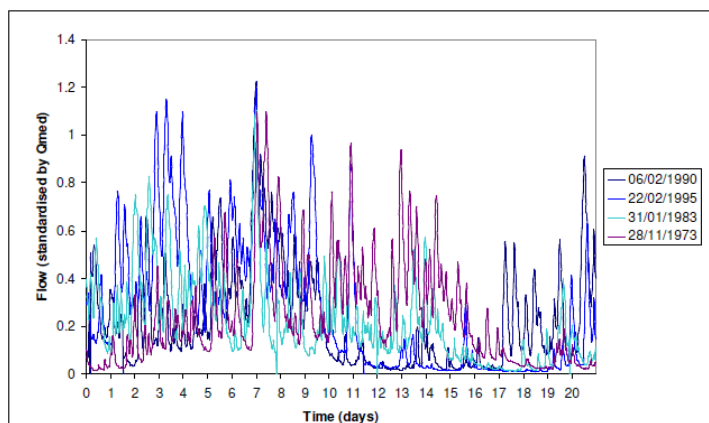
Easting: 164265	Northing: 157679
Catchment: Mulkear	Telemetry: Yes
Station Type: Recorder	Catchment Area: 647.60 km ²
QMED (gauged): 125.73 m ³ /s	AREA (FSU): 647.56 km ²
QMED (FSU): 126.64 m ³ /s	SAAR (FSU): 1166.21
QMED (predicted): 146.36 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.51	S1085: 4.07
URBEXT: 0.53	ARTDRAIN2: 5.00
DRAIN: 1.37	

Comments: Velocity area station installed in 1940 and automated in 1953. Gravel bed. Excavation for flood relief scheme in 1997 and 1999 doesn't appear to have any significant effect on stage discharge relationship.

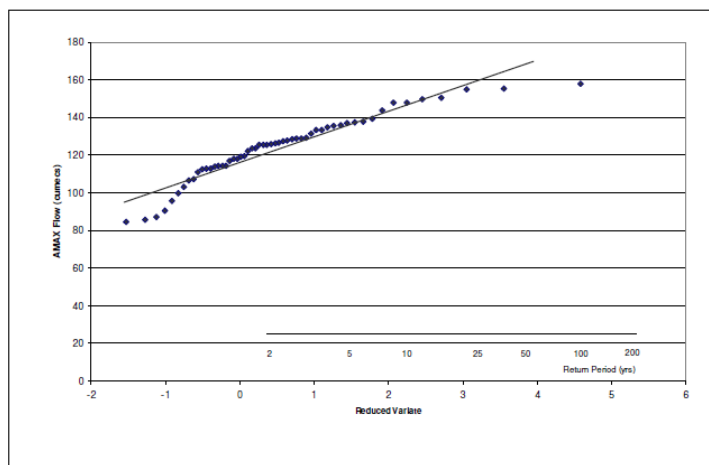
Nearby APSRs: To be confirmed

Jacobs Rating Review required: YES OPW Station Classification: A2

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25002 – NEWPORT AT BARRINGTON'S BR.

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953	71.3	27/10/1953
1954	68.3	31/12/1954
1955	64.7	26/09/1956
1956	75.1	25/09/1957
1957	72.9	29/10/1957
1958	60.2	06/11/1958
1959	77.2	14/09/1960
1960	59.7	03/12/1960
1961	45.5	02/04/1962
1962	42.8	08/12/1962
1963	54.2	17/08/1964
1964	59.7	12/12/1964
1965	59.1	09/12/1965
1966	52.7	27/02/1967
1967	59.7	07/10/1967
1968	58.3	25/12/1968
1969	56.2	21/02/1970
1970	48.1	19/11/1970
1971	N/A	N/A
1972	71.3	12/11/1972
1973	70.0	28/11/1973
1974	71.7	22/01/1975
1975	69.2	30/01/1976
1976	52.5	12/10/1976
1977	58.7	20/04/1978
1978	56.7	28/12/1978
1979	70.2	24/10/1979
1980	61.6	17/12/1980
1981	40.3	26/11/1981
1982	69.0	31/01/1983
1983	68.1	09/12/1983
1984	44.9	13/08/1985
1985	67.3	06/08/1986
1986	47.8	19/11/1986
1987	50.1	01/02/1988
1988	59.5	21/10/1988
1989	62.6	06/02/1990
1990	56.3	02/01/1991
1991	60.6	13/09/1992
1992	51.7	30/09/1993
1993	56.7	22/12/1993
1994	65.5	27/12/1994
1995	49.5	12/02/1996
1996	65.9	05/08/1997
1997	66.7	06/03/1998
1998	70.0	21/09/1999
1999	56.7	05/11/1999
2000	59.5	06/11/2000
2001	45.5	20/02/2002
2002	38.4	02/12/2002
2003	49.9	14/11/2003
2004	58.1	07/01/2005
2005	37.8	22/05/2006
2006	41.9	11/12/2006
2007	63.0	06/09/2008
2008	52.1	31/01/2009
2009	53.3	01/11/2009

Length of AMAX series: 56 years

1966 - WL estimated

Gauging Authority: Office of Public Works

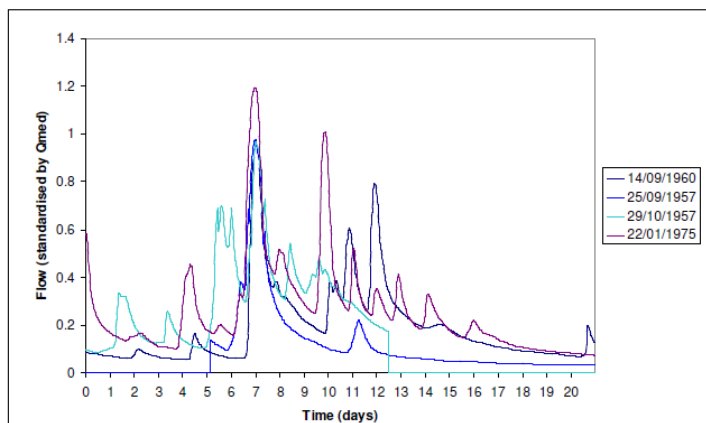
Easting: 167908	Northing: 154908
Catchment: Lower Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 221.60 km ²
QMED (gauged): 59.29 m ³ /s	AREA (FSU): 221.61 km ²
QMED (FSU): 62.64 m ³ /s	SAAR (FSU): 1299.96
QMED (predicted): 65.53 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.54	S1085: 6.88
URBEXT: 0.18	ARTDRAIN2: 5.00
DRAIN2: 1.42	

Comments: Velocity area station installed in 1940 and automated in 1953. Smooth concrete bed, negligible weed growth. Non standard weir acts as a control.

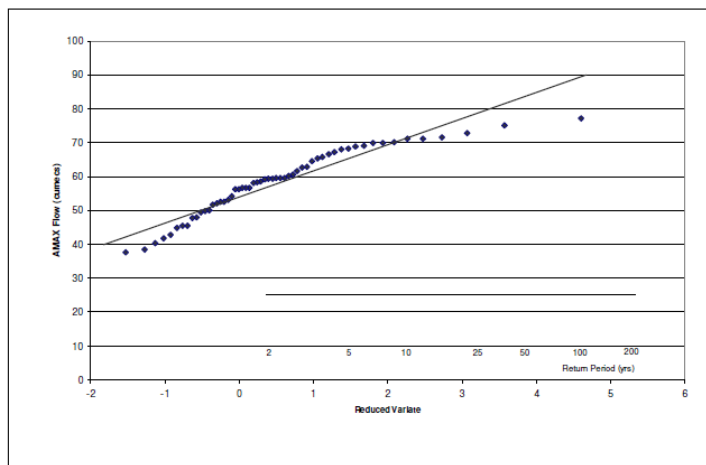
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: A2

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25003 – MULKEAR AT ABINGTON

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954	77.0	31/12/1954
1955	65.0	13/01/1956
1956	78.7	24/09/1957
1957	68.7	29/10/1957
1958	63.4	05/11/1958
1959	71.4	14/09/1960
1960	83.9	04/12/1960
1961	77.0	02/04/1962
1962	60.3	08/12/1962
1963	78.7	30/10/1963
1964	86.8	12/12/1964
1965	88.6	09/12/1965
1966	78.1	22/02/1967
1967	83.9	06/10/1967
1968	92.8	24/12/1968
1969	67.6	21/02/1970
1970	61.3	19/11/1970
1971	68.2	20/11/1971
1972	69.0	12/11/1972
1973	74.7	29/11/1973
1974	74.7	22/01/1975
1975	73.1	30/01/1976
1976	50.6	12/10/1976
1977	70.3	21/04/1978
1978	66.8	27/12/1978
1979	70.9	25/10/1979
1980	64.4	22/10/1980
1981	53.7	13/12/1981
1982	77.6	31/01/1983
1983	83.9	06/02/1984
1984	50.6	14/08/1985
1985	77.6	06/08/1986
1986	59.8	19/11/1986
1987	59.0	01/02/1988
1988	48.9	24/03/1989
1989	74.2	06/02/1990
1990	58.7	16/11/1990
1991	62.3	12/09/1992
1992	67.4	30/09/1993
1993	70.3	03/04/1994
1994	77.8	27/12/1994
1995	64.2	11/02/1996
1996	67.1	04/08/1997
1997	72.5	06/03/1998
1998	72.3	28/02/1999
1999	60.3	05/06/1999
2000	76.4	06/11/2000
2001	61.8	26/02/2002
2002	54.7	02/12/2002
2003	58.2	14/11/2003
2004	66.8	08/01/2005
2005	56.7	21/05/2006
2006	55.0	04/12/2006
2007	63.4	19/01/2008
2008	64.4	31/01/2009
2009	65.0	01/11/2009

Length of AMAX series: 56 years

Gauging Authority: Office of Public Works

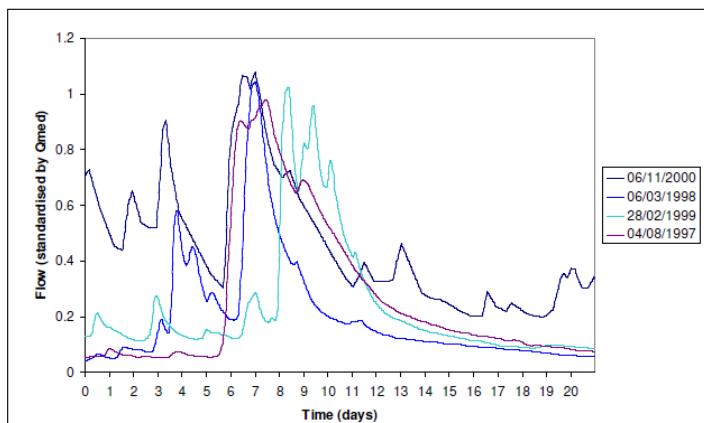
Easting: 171538	Northing: 153428
Catchment: Lower Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 399.10 km ²
QMED (gauged): 67.90 m ³ /s	AREA (FSU): 399.06 km ²
QMED (FSU): 68.71 m ³ /s	SAAR (FSU): 1106.40
QMED (predicted): 84.85 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.55	S1085: 5.34
URBEXT: 0.58	ARTDRAIN2: 3.00
DRAIN2: 1.37	

Comments: Velocity-area station installed in 1940 and automated in 1954. Bridge location. Natural channel control. Weed growth effects low flows in summer and autumn.

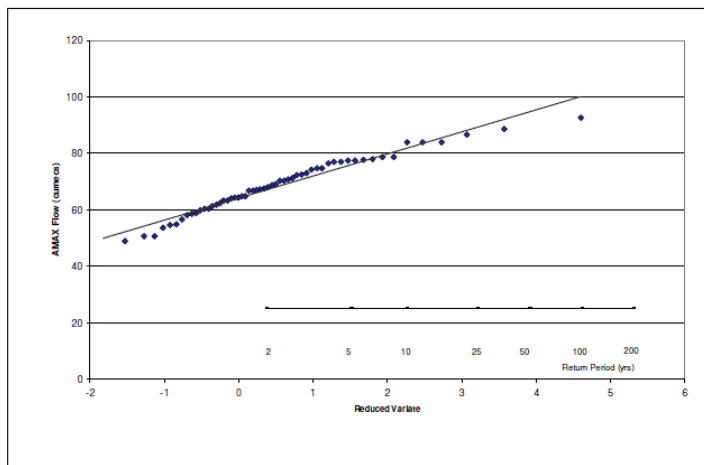
Nearby APSRs: To be confirmed

Jacobs Rating Review required: YES OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25004 – BILBOA AT NEW BRIDGE

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970	33.6	18/11/1970
1971	41.1	20/11/1971
1972	43.7	12/11/1972
1973	42.8	28/11/1973
1974	48.8	22/01/1975
1975	43.2	29/01/1976
1976	23.3	12/10/1976
1977	38.9	31/10/1977
1978	35.7	07/12/1978
1979	38.3	24/10/1979
1980	31.1	22/10/1980
1981	26.1	14/12/1981
1982	56.9	31/01/1983
1983	49.3	16/01/1984
1984	29.4	14/08/1985
1985	57.6	06/08/1986
1986	37.9	24/11/1986
1987	32.0	23/01/1988
1988	41.8	20/10/1988
1989	45.2	06/02/1990
1990	44.9	17/11/1990
1991	46.7	12/09/1992
1992	40.5	30/09/1993
1993	47.5	22/12/1993
1994	59.5	27/12/1994
1995	38.9	12/02/1996
1996	49.1	29/11/1996
1997	49.7	17/10/1997
1998	51.9	01/03/1999
1999	N/A	N/A
2000	N/A	N/A
2001	N/A	26/02/2002
2002	N/A	08/11/2002
2003	N/A	14/11/2003
2004	N/A	12/02/2005
2005	N/A	21/05/2006
2006	N/A	14/12/2006
2007	N/A	06/12/2007
2008	N/A	04/12/2008
2009	N/A	01/11/2009

Length of AMAX series: 29 years

1998-Station removed due to works
20/03/1999

Gauging Authority: Office of Public Works

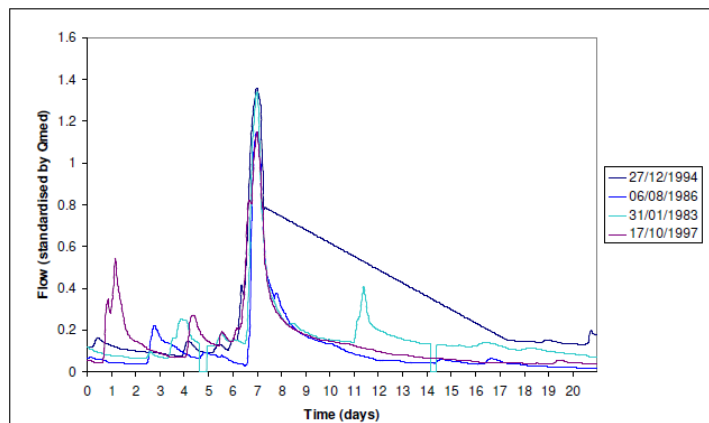
Easting: 178734	Northing: 148965
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 122.20 km ²
QMED (gauged): 42.80 m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

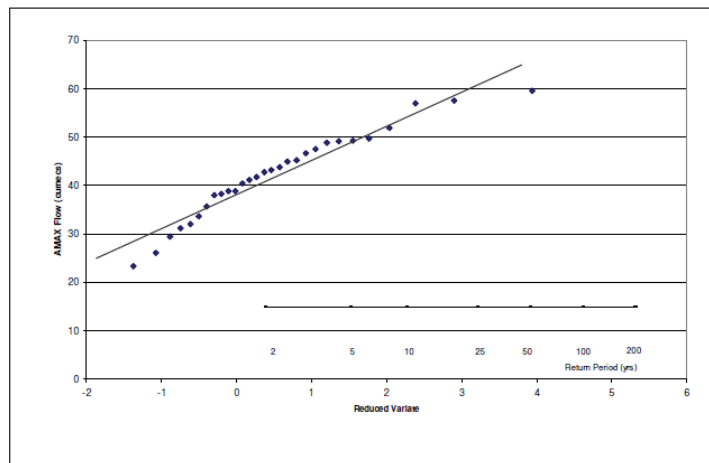
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25005 – DEAD AT SUNVILLE

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954	30.4	31/12/1954
1955	26.6	13/01/1956
1956	31.5	25/09/1957
1957	30.0	29/10/1957
1958	24.7	06/11/1958
1959	N/A	N/A
1960	32.4	04/12/1960
1961	23.7	03/04/1962
1962	23.7	05/11/1962
1963	N/A	N/A
1964	N/A	N/A
1965	31.7	09/12/1965
1966	28.3	27/02/1967
1967	31.4	07/10/1967
1968	N/A	N/A
1969	25.5	21/02/1970
1970	20.2	19/11/1970
1971	23.6	02/02/1972
1972	26.4	12/11/1972
1973	33.4	28/11/1973
1974	31.2	22/01/1975
1975	31.0	30/01/1976
1976	22.9	12/10/1976
1977	29.7	21/10/1977
1978	29.9	07/12/1978
1979	29.3	25/10/1979
1980	27.7	22/10/1980
1981	26.1	13/12/1981
1982	30.9	31/01/1983
1983	29.3	06/02/1984
1984	N/A	N/A
1985	28.7	06/08/1986
1986	22.2	19/11/1986
1987	24.6	01/02/1988
1988	25.9	21/10/1988
1989	27.6	07/02/1990
1990	25.7	17/11/1990
1991	26.5	12/09/1992
1992	28.0	30/09/1993
1993	28.1	22/12/1993
1994	30.3	27/12/1994
1995	27.2	12/02/1996
1996	29.2	05/08/1997
1997	29.1	17/10/1997
1998	29.3	01/03/1999
1999	28.9	10/12/1999
2000	31.0	06/11/2000
2001	27.0	20/02/2002
2002	25.5	02/12/2002
2003	28.7	14/11/2003
2004	30.4	12/02/2005
2005	25.4	21/05/2006
2006	22.9	14/12/2006
2007	29.7	06/12/2007
2008	26.5	31/01/2009
2009	26.8	01/11/2009

Length of AMAX series: 51 years

Gauging Authority: Office of Public Works

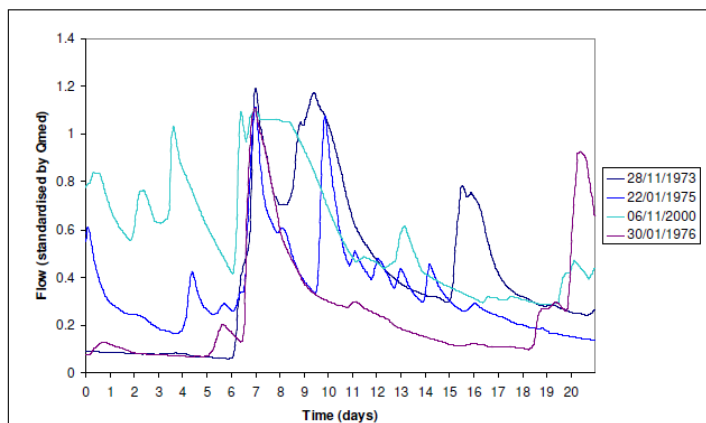
Easting: 177723	Northing: 147809
Catchment: Lower Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 192.60 km ²
QMED (gauged): 28.10 m ³ /s	AREA (FSU): 192.62 km ²
QMED (FSU): 29.63 m ³ /s	SAAR (FSU): 1023.31
QMED (predicted): 30.95 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.59	S1085: 2.99
URBEXT: 0.65	ARTDRAIN2: N/A
DRAIN2: 1.19	

Comments: Velocity-area station installed 1940 and automated in 1954. Bridge acts as a control at medium and high flows.

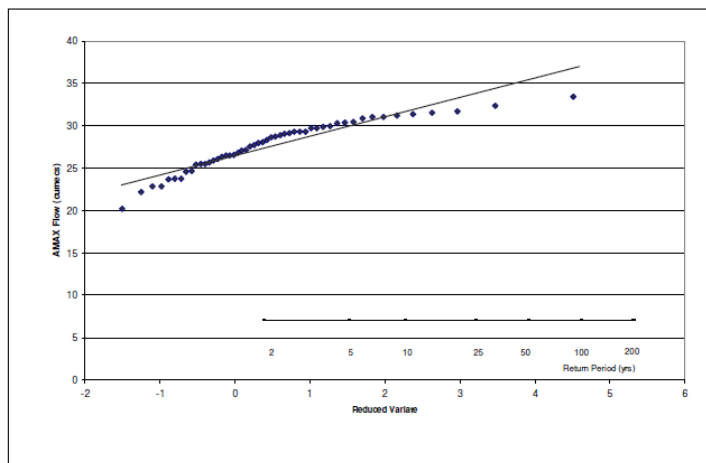
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: A2

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25006 – BROSNA AT FERBANE

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953	96.5	05/12/1953
1954	147.2	09/12/1954
1955	78.3	26/01/1956
1956	103.2	24/01/1957
1957	113.5	10/02/1958
1958	76.9	07/01/1959
1959	113.0	28/12/1959
1960	118.1	04/12/1960
1961	58.5	11/12/1961
1962	69.0	06/11/1962
1963	79.9	21/11/1963
1964	114.0	13/12/1964
1965	100.2	18/11/1965
1966	120.2	28/02/1967
1967	109.0	09/01/1968
1968	137.2	26/12/1968
1969	88.5	25/04/1970
1970	68.0	28/11/1970
1971	63.2	19/01/1972
1972	37.6	19/11/1972
1973	84.6	30/01/1974
1974	81.9	22/01/1975
1975	49.8	02/12/1975
1976	87.1	23/02/1977
1977	73.3	04/02/1978
1978	81.9	28/12/1978
1979	76.6	27/12/1979
1980	66.8	20/12/1980
1981	75.2	03/01/1982
1982	75.7	01/02/1983
1983	87.8	17/01/1984
1984	68.0	16/08/1985
1985	79.2	26/08/1986
1986	81.4	19/12/1986
1987	80.9	19/01/1988
1988	61.5	22/10/1988
1989	124.2	09/02/1990
1990	72.8	06/01/1991
1991	90.9	06/01/1992
1992	92.1	15/06/1993
1993	87.8	27/02/1994
1994	115.8	29/01/1995
1995	73.8	12/02/1996
1996	62.8	26/02/1997
1997	81.2	18/10/1997
1998	75.7	16/01/1999
1999	92.9	25/12/1999
2000	89.3	07/11/2000
2001	88.3	12/02/2002
2002	81.9	15/11/2002
2003	74.2	16/01/2004
2004	104.1	09/01/2005
2005	64.1	22/05/2006
2006	87.3	08/12/2006
2007	95.5	18/08/2008
2008	104.2	01/02/2009
2009	110.4	21/11/2009

Length of AMAX series: 57 years

1959-1969 No flow gaugings

Gauging Authority: Office of Public Works

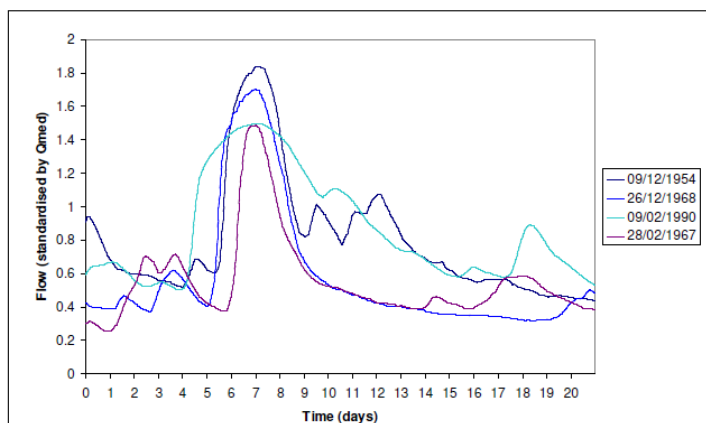
Easting: 211536	Northing: 224406
Catchment: Brosna	Telemetry: Yes
Station Type: Recorder	Catchment Area: 1162.80 km ²
QMED (gauged): 81.91 m ³ /s	AREA (FSU): 1162.76 km ²
QMED (FSU): 81.90 m ³ /s	SAAR (FSU): 931.99
QMED (predicted): 81.39 m ³ /s	FARL (FSU): 0.96
BFIsoils (FSU): 0.76	S1085: 0.75
URBEXT: 1.89	ARTDRAIN2: 51.00
DRAIN2: 0.73	

Comments: Velocity-area station installed in 1940 and automated in 1947. Drainage 48-55. Stable sand/silt bed. Natural channel control.

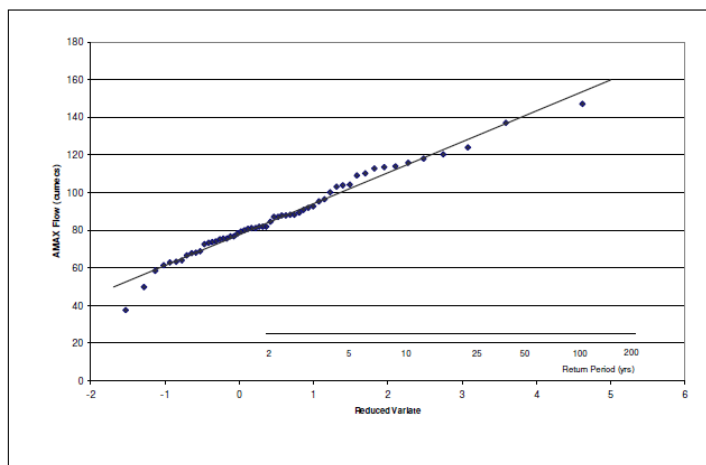
Nearby APSRs: To be confirmed

Jacobs Rating Review required: YES OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25011 – BROSNA AT MOYSTOWN

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954	194.3	09/12/1954
1955	106.3	26/01/1956
1956	98.7	24/01/1957
1957	118.8	11/02/1958
1958	77.6	07/01/1959
1959	133.9	28/12/1959
1960	83.5	04/12/1960
1961	54.6	16/01/1962
1962	46.5	08/12/1962
1963	41.1	31/10/1963
1964	82.0	13/12/1964
1965	86.6	13/12/1965
1966	94.6	28/02/1967
1967	82.8	09/01/1968
1968	118.8	26/12/1968
1969	73.2	26/04/1970
1970	63.6	29/11/1970
1971	41.4	03/02/1972
1972	38.3	12/12/1972
1973	73.2	30/01/1974
1974	77.9	25/01/1975
1975	40.0	02/12/1975
1976	82.0	23/02/1977
1977	64.2	02/04/1978
1978	76.8	28/12/1978
1979	75.4	15/12/1979
1980	58.4	20/12/1980
1981	69.0	01/03/1982
1982	79.0	02/01/1983
1983	83.2	17/01/1984
1984	87.0	15/12/1984
1985	68.3	26/08/1986
1986	85.9	19/12/1986
1987	78.3	02/03/1988
1988	54.6	15/03/1989
1989	126.3	02/09/1990
1990	76.8	01/06/1991
1991	81.6	01/06/1992
1992	86.6	15/06/1993
1993	90.6	28/02/1994
1994	135.9	29/01/1995
1995	62.9	13/02/1996
1996	78.3	26/02/1997
1997	88.2	01/09/1998
1998	89.0	16/01/1999
1999	119.7	26/12/1999
2000	109.8	07/11/2000
2001	113.4	12/02/2002
2002	100.4	16/11/2002
2003	84.3	16/01/2004
2004	133.9	09/01/2005
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 59 years

Gauging Authority: Office of Public Works

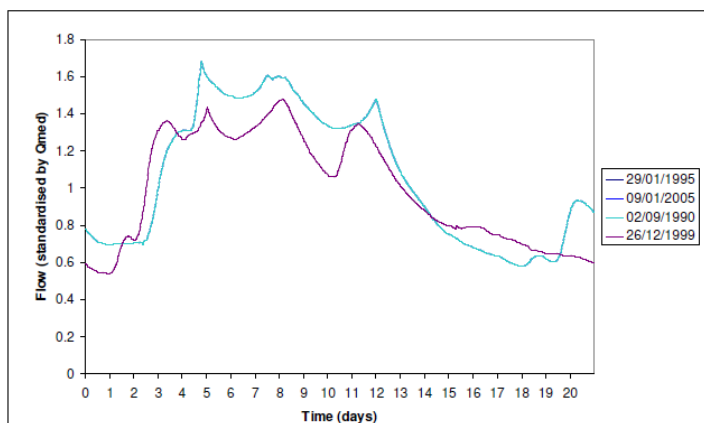
Easting: 204607	Northing: 220857
Catchment: Brosna	Telemetry: Yes
Station Type: Recorder	Catchment Area: 1180.20 km ²
QMED (gauged): 82.02 m ³ /s	AREA (FSU): 1180.21 km ²
QMED (FSU): 82.02 m ³ /s	SAAR (FSU): 930.98
QMED (predicted): 86.95 m ³ /s	FARL (FSU): 0.96
BFIsoils (FSU): 0.71	S1085: 0.69
URBEXT: 1.93	ARTDRAIN2: 51.00
DRAIN2: 0.72	

Comments: Velocity area station installed in 1939 and automated in 1953. Drainage 48-55. Stable rock / gravel bed. Negligible weed growth. Natural channel control.

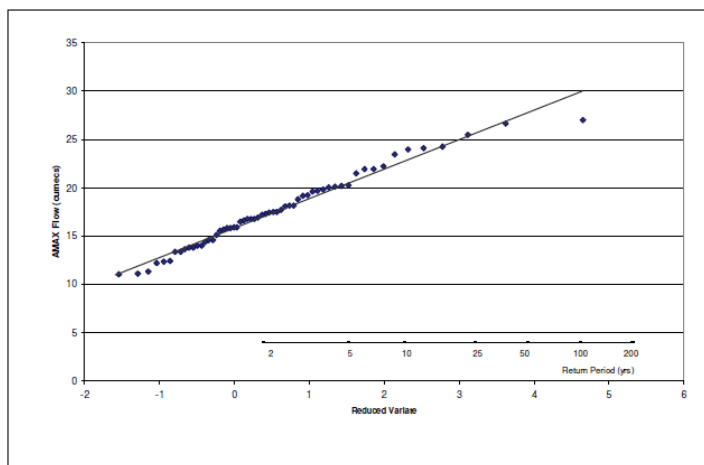
Nearby APSRs: To be confirmed

Jacobs Rating Review required: YES OPW Station Classification: B

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25012 – GROODY AT GROODY BRIDGE

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972	7.5	12/11/1972
1973	8.0	01/12/1973
1974	8.0	25/01/1975
1975	7.6	01/12/1975
1976	7.8	24/02/1977
1977	7.4	31/10/1977
1978	7.4	27/12/1978
1979	7.8	13/08/1980
1980	7.6	22/10/1980
1981	7.4	20/03/1982
1982	7.8	07/01/1983
1983	8.1	07/02/1984
1984	7.9	14/08/1985
1985	8.0	06/08/1986
1986	7.9	22/12/1986
1987	7.9	04/02/1988
1988	7.7	22/10/1988
1989	8.4	12/02/1990
1990	7.8	02/01/1991
1991	7.8	13/09/1992
1992	7.9	30/09/1993
1993	8.0	22/12/1993
1994	8.7	01/02/1995
1995	8.1	11/02/1996
1996	8.2	05/08/1997
1997	8.0	08/01/1998
1998	7.9	18/11/1998
1999	N/A	N/A
2000	7.9	07/11/2000
2001	8.1	11/02/2002
2002	7.5	21/11/2002
2003	7.5	14/11/2003
2004	8.0	08/01/2005
2005	7.6	22/05/2006
2006	8.4	15/12/2006
2007	8.2	20/01/2008
2008	7.9	31/01/2009
2009		

Length of AMAX series: 36 years

Gauging Authority: Office of Public Works

Easting: 160559	Northing: 157142
Catchment:	Telemetry: No
Station Type: Recorder	Catchment Area: 55.80 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

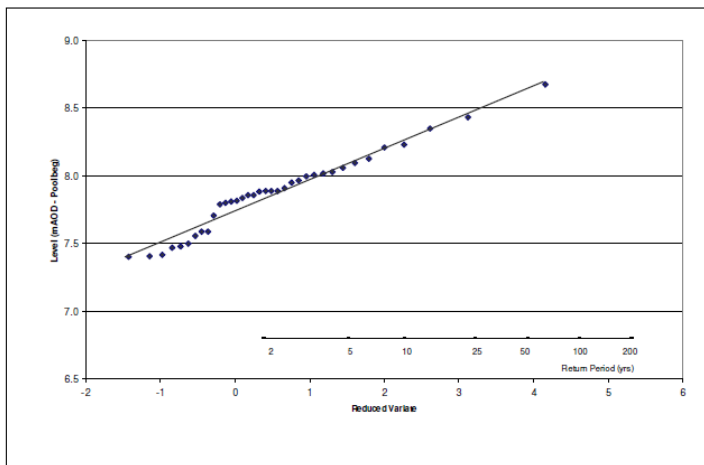
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25013 – BROSNA AT NEWELL'S BR.

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973	82.1	30/01/1974
1974	82.1	25/01/1975
1975	81.6	02/12/1975
1976	82.2	23/02/1977
1977	82.1	04/02/1978
1978	82.3	28/12/1978
1979	82.4	15/12/1979
1980	82.2	07/10/1980
1981	81.8	03/01/1982
1982	82.1	31/01/1983
1983	81.8	07/02/1984
1984	82.2	15/12/1984
1985	82.2	26/08/1986
1986	82.1	18/12/1986
1987	82.2	24/01/1988
1988	81.9	26/10/1988
1989	82.4	06/02/1990
1990	82.1	06/01/1991
1991	82.1	08/01/1992
1992	81.9	15/06/1993
1993	81.9	03/01/1994
1994	82.4	31/01/1995
1995	81.6	12/02/1996
1996	81.8	26/02/1997
1997	82.2	18/10/1997
1998	82.2	24/10/1998
1999	82.2	25/12/1999
2000	82.3	06/11/2000
2001	82.3	11/02/2002
2002	82.1	15/11/2002
2003	81.9	17/01/2004
2004	82.1	08/01/2005
2005	81.5	22/05/2006
2006	82.3	11/12/2006
2007	82.3	17/08/2008
2008	82.2	20/08/2009
2009	82.4	20/11/2009

Length of AMAX series: 37 years

Gauging Authority: Office of Public Works

Easting: 238327

Northing: 242315

Catchment:

Telemetry: Yes

Station Type: Recorder

Catchment Area: 188.00 km²

QMED (gauged): N/A m³/s

AREA (FSU): N/A km²

QMED (FSU): N/A m³/s

SAAR (FSU): N/A

QMED (predicted): N/A m³/s

FARL (FSU): N/A

BFIsoils (FSU): N/A

S1085: N/A

URBEXT: N/A

ARTDRAIN2: N/A

DRAIN2: N/A

Comments:

Nearby APSRs: To be confirmed

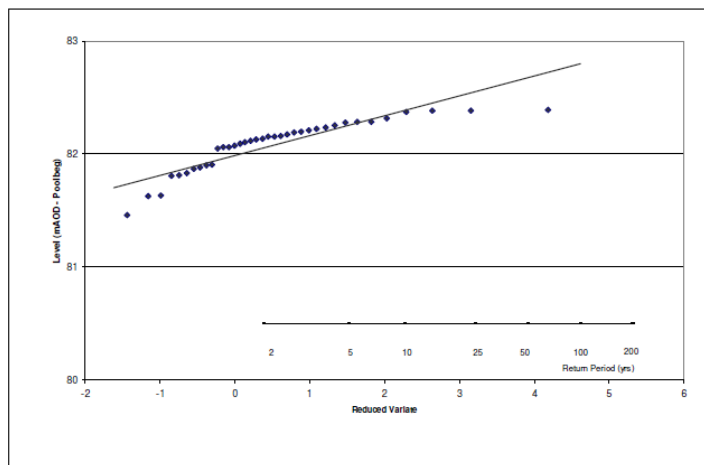
Jacobs Rating Review required: YES

OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25014 – SILVER AT MILLBROOK

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951	20.0	24/12/1951
1952	11.1	18/09/1953
1953	16.8	03/12/1953
1954	21.9	08/12/1954
1955	15.7	06/09/1956
1956	19.9	30/12/1956
1957	23.4	10/02/1958
1958	19.2	19/12/1958
1959	23.9	27/12/1959
1960	26.7	03/12/1960
1961	15.9	28/09/1962
1962	16.9	05/11/1962
1963	17.2	30/10/1963
1964	24.1	13/12/1964
1965	21.9	17/11/1965
1966	21.5	27/02/1967
1967	19.7	08/01/1968
1968	27.0	24/12/1968
1969	24.3	25/04/1970
1970	16.5	23/11/1970
1971	14.6	19/01/1972
1972	15.9	20/01/1973
1973	20.1	30/01/1974
1974	18.2	22/01/1975
1975	13.7	17/05/1976
1976	16.8	22/02/1977
1977	16.7	22/02/1978
1978	17.4	01/02/1979
1979	17.5	31/01/1980
1980	17.3	19/12/1980
1981	14.0	03/01/1982
1982	18.8	02/05/1983
1983	14.0	17/01/1984
1984	18.1	15/12/1984
1985	25.5	26/08/1986
1986	19.1	05/04/1987
1987	20.2	19/01/1988
1988	17.7	22/10/1988
1989	20.2	07/02/1990
1990	12.2	25/12/1990
1991	15.1	05/01/1992
1992	15.6	13/06/1993
1993	13.3	28/02/1994
1994	19.6	29/01/1995
1995	11.3	09/02/1996
1996	14.4	11/05/1997
1997	15.9	18/10/1997
1998	13.3	30/12/1998
1999	14.6	22/12/1999
2000	15.8	06/11/2000
2001	12.3	11/02/2002
2002	11.1	15/11/2002
2003	12.4	16/01/2004
2004	17.5	08/01/2005
2005	13.8	22/05/2006
2006	13.8	08/12/2006
2007	16.8	18/08/2008
2008	22.2	01/02/2009
2009	18.2	20/11/2009

Length of AMAX series: 59 years

Gauging Authority: Office of Public Works

Easting: 213546

Northing: 218813

Catchment: Offaly

Telemetry: Yes

Station Type: Recorder

Catchment Area: 152.50 km²

QMED (gauged): 17.21 m³/s

AREA (FSU): 164.41 km²

QMED (FSU): 17.25 m³/s

SAAR (FSU): 1007.65

QMED (predicted): 28.45 m³/s

FARL (FSU): 1.00

BFIsoils (FSU): 0.64

S1085: 5.90

URBEXT: 0.47

ARTDRAIN2: 37.00

DRAIN2: 0.91

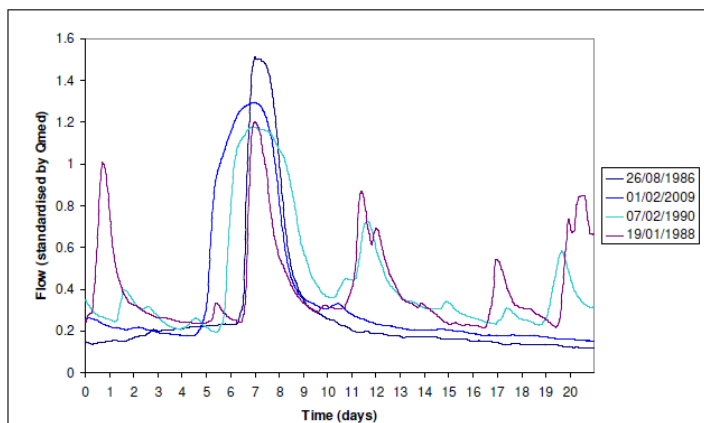
Comments: Automated velocity-area station installed in 1939 and automated in 1951. Stable bed. Seasonal weed growth. Natural channel. Bridge downstream.

Nearby APSRs: To be confirmed

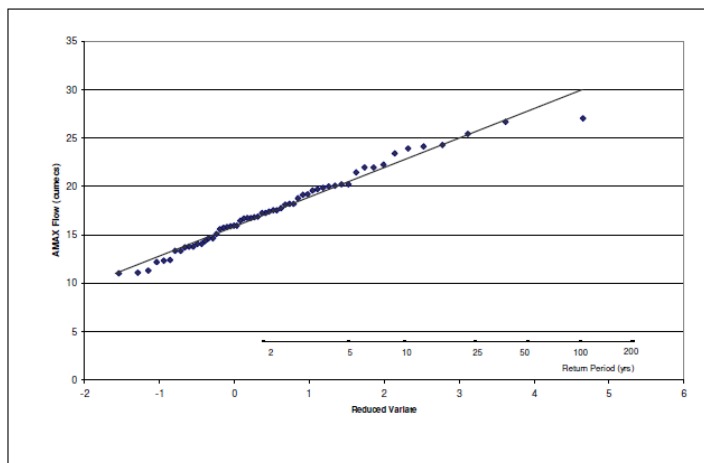
Jacobs Rating Review required: YES

OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25016 – CLODIAGH AT RAHAN

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954	26.6	09/12/1954
1955	N/A	N/A
1956	N/A	N/A
1957	N/A	N/A
1958	20.3	20/12/1958
1959	30.7	27/12/1959
1960	33.0	04/12/1960
1961	23.1	30/09/1962
1962	25.7	05/11/1962
1963	22.0	30/10/1963
1964	26.9	12/12/1964
1965	24.2	18/11/1965
1966	25.0	06/10/1966
1967	27.7	09/01/1968
1968	33.7	25/12/1968
1969	20.9	21/02/1970
1970	16.9	23/11/1970
1971	17.6	19/01/1972
1972	16.2	15/07/1973
1973	22.0	30/01/1974
1974	20.0	25/01/1975
1975	16.9	03/10/1975
1976	17.6	23/02/1977
1977	18.1	31/10/1977
1978	24.9	28/12/1978
1979	20.5	25/12/1979
1980	17.4	23/10/1980
1981	13.1	04/01/1982
1982	15.1	06/11/1982
1983	22.8	09/12/1983
1984	25.2	15/12/1984
1985	23.8	26/08/1986
1986	22.3	15/12/1986
1987	24.6	21/10/1987
1988	20.9	22/10/1988
1989	36.1	08/02/1990
1990	22.0	25/12/1990
1991	24.4	06/01/1992
1992	28.7	15/06/1993
1993	26.0	27/02/1994
1994	34.1	29/01/1995
1995	18.6	04/01/1996
1996	19.4	20/02/1997
1997	27.2	18/10/1997
1998	23.4	16/01/1999
1999	26.7	25/12/1999
2000	25.2	06/11/2000
2001	22.3	01/02/2002
2002	30.8	29/10/2002
2003	20.8	16/01/2004
2004	25.5	08/01/2005
2005	22.3	22/05/2006
2006	22.5	08/12/2006
2007	31.8	18/08/2008
2008	24.7	01/02/2009
2009	28.2	20/11/2009

Length of AMAX series: 53 years

Gauging Authority: Office of Public Works

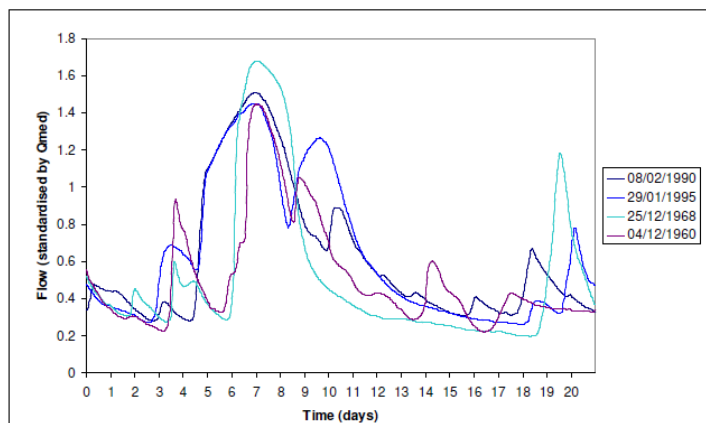
Easting: 225669	Northing: 225645
Catchment: Brosna	Telemetry: Yes
Station Type: Recorder	Catchment Area: 253.80 km ²
QMED (gauged): 23.43 m ³ /s	AREA (FSU): 275.17 km ²
QMED (FSU): 23.26 m ³ /s	SAAR (FSU): 947.09
QMED (predicted): 38.48 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.66	S1085: 6.00
URBEXT: 2.75	ARTDRAIN2: 53.00
DRAIN2: 0.65	

Comments: Velocity-area station installed in 1939 and automated in 1951. Bridge location. Seasonal weed growth. Natural channel control. Stable bed consisting of mud/silt/sand.

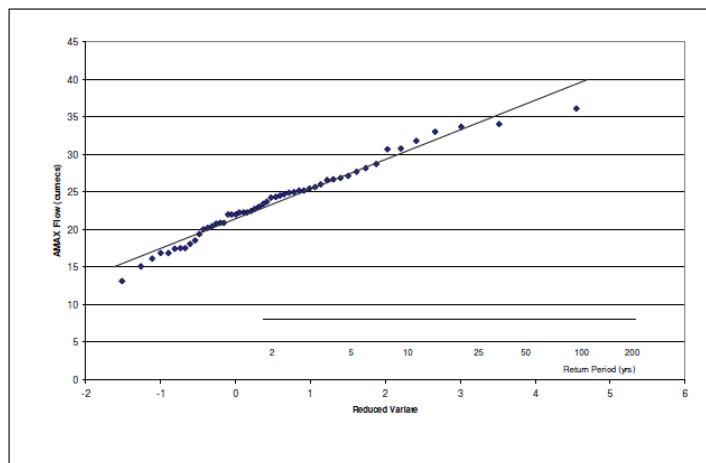
Nearby APSRs: To be confirmed

Jacobs Rating Review required: YES OPW Station Classification: B

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25017 – SHANNON AT BANAGHER

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950	337.0	05/02/1951
1951	430.5	02/01/1952
1952	267.9	29/12/1952
1953	354.8	28/02/1954
1954	596.5	10/12/1954
1955	283.8	31/01/1956
1956	450.6	05/01/1957
1957	363.9	15/02/1958
1958	342.9	07/01/1959
1959	550.6	28/12/1959
1960	457.4	06/12/1960
1961	366.9	14/12/1961
1962	291.9	13/12/1962
1963	440.5	27/11/1963
1964	506.5	20/01/1965
1965	510.1	10/12/1965
1966	370.0	01/03/1967
1967	464.3	17/01/1968
1968	499.3	22/01/1969
1969	363.9	26/02/1970
1970	391.7	29/11/1970
1971	289.2	11/04/1972
1972	245.0	16/12/1972
1973	391.7	17/01/1974
1974	471.2	29/01/1975
1975	305.6	12/01/1976
1976	437.2	23/02/1977
1977	345.9	06/02/1978
1978	401.3	16/12/1978
1979	457.4	17/12/1979
1980	376.1	26/12/1980
1981	394.9	16/03/1982
1982	407.7	10/01/1983
1983	457.4	18/01/1984
1984	348.8	27/12/1984
1985	360.8	24/01/1986
1986	460.9	22/12/1986
1987	499.3	04/02/1988
1988	325.4	16/03/1989
1989	558.1	09/02/1990
1990	481.6	08/01/1991
1991	345.9	09/01/1992
1992	398.1	07/12/1992
1993	437.2	04/01/1994
1994	550.6	02/02/1995
1995	294.6	19/02/1996
1996	437.2	26/02/1997
1997	420.7	10/01/1998
1998	430.5	20/01/1999
1999	565.7	27/12/1999
2000	478.1	14/12/2000
2001	554.3	13/02/2002
2002	340.0	11/11/2002
2003	342.9	08/02/2004
2004	476.4	11/01/2005
2005	250.0	17/01/2006
2006	596.5	16/12/2006
2007	464.3	24/01/2008
2008	450.6	02/02/2009
2009	736.4	27/11/2009

Length of AMAX series: 60 years

2009-incomplete year

Gauging Authority: Office of Public Works

Easting: 200506	Northing: 215829
Catchment: Lower Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 7980.40 km ²

QMED (gauged): 425.60 m ³ /s	AREA (FSU): 7980.41 km ²
QMED (FSU): 414.17 m ³ /s	SAAR (FSU): 1024.05
QMED (predicted): 321.71 m ³ /s	FARL (FSU): 0.79
BFIsoils (FSU): 0.65	S1085: 0.25
URBEXT: 0.82	ARTDRAIN2: 21.00
DRAIN2: 0.81	

Comments: Automated velocity-area station installed in 1950. Stable sand/silt bed. Negligible weed growth.

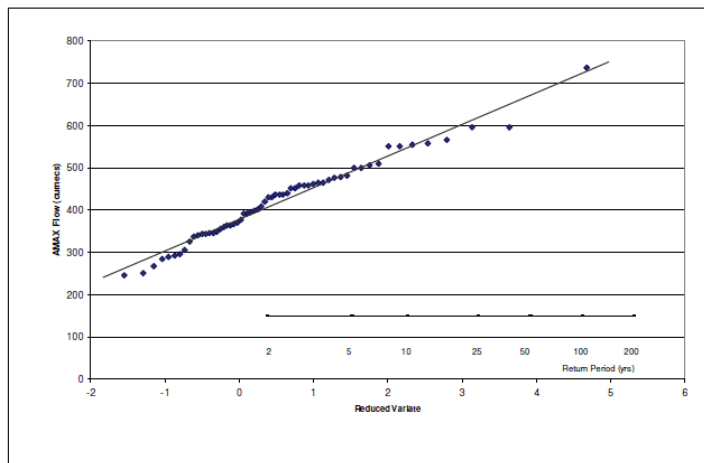
Nearby APSRs: To be confirmed

Jacobs Rating Review required: YES OPW Station Classification: A2

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25019 – CAPPAGH AT CONICAR

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972	36.7	12/11/1972
1973	37.1	01/12/1973
1974	36.7	22/01/1975
1975	36.3	09/01/1976
1976	36.6	28/04/1977
1977	36.5	09/11/1977
1978	36.7	14/12/1978
1979	36.7	06/11/1979
1980	36.5	11/12/1980
1981	36.3	09/03/1982
1982	37.0	31/01/1983
1983	36.7	16/01/1984
1984	36.9	15/08/1985
1985	37.2	06/08/1986
1986	36.7	19/11/1986
1987	36.9	19/01/1988
1988	36.5	23/12/1988
1989	36.1	25/01/1990
1990	36.3	01/01/1991
1991	36.7	12/09/1992
1992	36.7	22/11/1992
1993	37.0	08/12/1993
1994	36.9	29/01/1995
1995	36.9	26/10/1995
1996	37.0	05/08/1997
1997	36.8	06/03/1998
1998	36.9	21/09/1999
1999	37.0	25/12/1999
2000	36.6	06/11/2000
2001	37.0	11/02/2002
2002	36.9	22/10/2002
2003	36.7	15/01/2004
2004	37.2	08/01/2005
2005	36.8	21/09/2006
2006	37.0	10/01/2007
2007	37.1	17/08/2008
2008	37.0	25/10/2008
2009	37.6	19/11/2009

Length of AMAX series: 38 years

1988- WL estimated

Gauging Authority: Office of Public Works

Easting: 175226	Northing: 207153
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 129.10 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

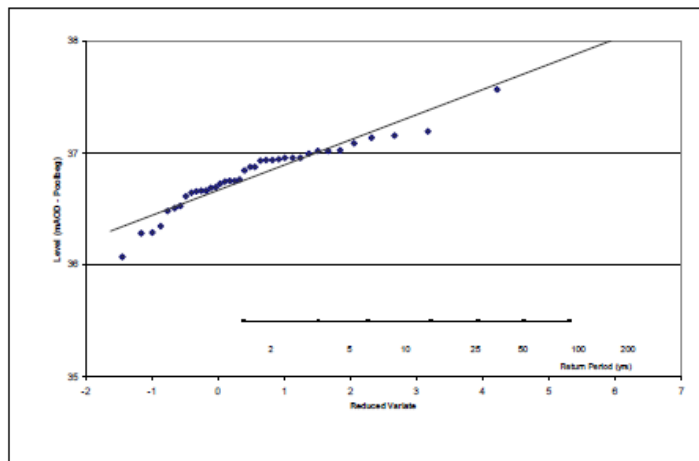
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25020 – KILLIMOR AT KILLEEN

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969	43.7	25/04/1970
1970	26.7	28/11/1970
1971	39.1	20/11/1971
1972	29.7	12/11/1972
1973	67.0	01/12/1973
1974	48.7	22/01/1975
1975	23.5	09/01/1976
1976	30.5	20/02/1977
1977	29.3	03/02/1978
1978	53.0	14/12/1978
1979	37.0	10/12/1979
1980	36.3	22/10/1980
1981	27.9	03/01/1982
1982	51.1	31/01/1983
1983	44.6	16/01/1984
1984	39.3	19/09/1985
1985	58.9	06/08/1986
1986	37.2	18/12/1986
1987	51.4	19/01/1988
1988	37.9	14/03/1989
1989	60.4	06/02/1990
1990	35.0	24/02/1991
1991	63.9	07/01/1992
1992	27.1	13/01/1993
1993	44.4	08/12/1993
1994	73.3	04/02/1995
1995	38.2	12/02/1996
1996	45.4	19/02/1997
1997	41.9	18/10/1997
1998	41.7	12/11/1998
1999	69.4	31/12/1999
2000	62.7	07/11/2000
2001	66.7	23/01/2002
2002	51.4	02/12/2002
2003	41.9	16/01/2004
2004	89.5	08/01/2005
2005	26.2	13/01/2006
2006	40.7	11/12/2006
2007	60.8	08/12/2007
2008	65.4	31/01/2009
2009	113.9	20/11/2009

Length of AMAX series: 41 years

1969 & 1994- peak WL estimated

Gauging Authority: Office of Public Works

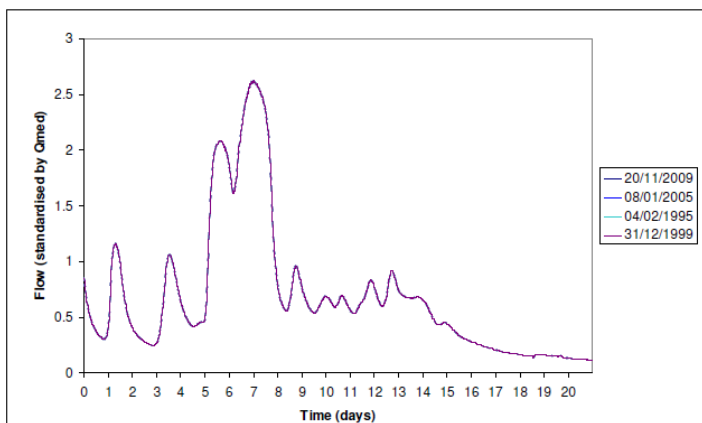
Easting: 179761	Northing: 211030
Catchment: Killimor	Telemetry: Yes
Station Type: Recorder	Catchment Area: 185.90 km ²
QMED (gauged): 43.65 m ³ /s	AREA (FSU): 197.09 km ²
QMED (FSU): 44.40 m ³ /s	SAAR (FSU): 1014.70
QMED (predicted): 29.80 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.67	S1085: 1.84
URBEXT: 0.44	ARTDRAIN2: 78.00
DRAIN2: 0.97	

Comments: Automated velocity-area station installed in 1968. Stable, mud bed. Natural channel control. Some seasonal weed growth. Bridge location.

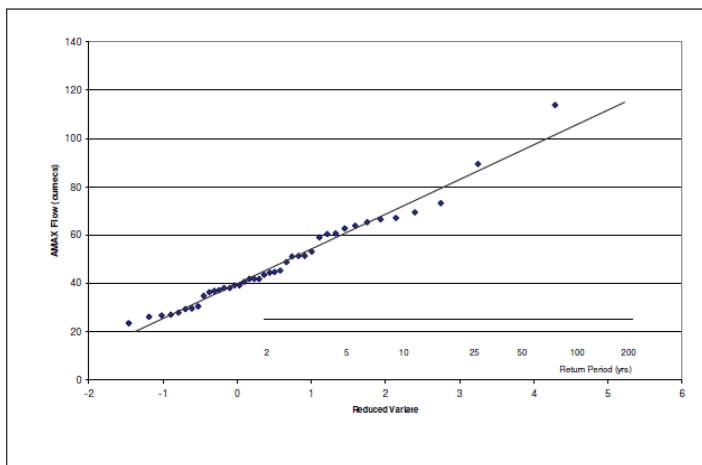
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: B

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25021 – LITTLE BROSNA AT CROGHAN

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m³/s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961	24.3	10/12/1961
1962	35.8	05/11/1962
1963	23.9	30/10/1963
1964	29.5	12/12/1964
1965	26.4	18/12/1964
1966	26.8	06/10/1966
1967	26.2	09/01/1968
1968	31.1	26/12/1968
1969	20.9	25/04/1970
1970	22.4	28/11/1970
1971	23.0	02/02/1972
1972	24.1	19/01/1973
1973	30.1	01/12/1973
1974	29.5	26/01/1975
1975	22.1	04/10/1975
1976	25.1	22/02/1977
1977	22.3	22/02/1978
1978	29.1	15/12/1978
1979	26.8	27/12/1979
1980	28.6	19/12/1980
1981	25.7	03/01/1982
1982	30.6	01/02/1983
1983	31.2	16/01/1984
1984	28.4	16/08/1985
1985	32.7	26/08/1986
1986	28.6	18/12/1986
1987	29.8	13/02/1988
1988	25.3	23/10/1988
1989	32.3	08/02/1990
1990	26.2	31/12/1990
1991	27.0	06/01/1992
1992	32.9	13/06/1993
1993	29.3	27/02/1994
1994	33.1	28/01/1995
1995	29.2	12/02/1996
1996	26.0	25/02/97 (1)
1997	32.5	19/10/1997
1998	30.4	02/11/1998
1999	33.3	25/12/1999
2000	35.3	06/11/00 (1)
2001	31.2	11/02/2002
2002	29.2	15/11/2002
2003	18.2	15/01/2004
2004	21.7	08/01/2005
2005	28.0	03/11/2005
2006	31.8	11/12/2006
2007	28.0	03/11/2007
2008	32.7	31/01/2009
2009	34.6	23/11/2009

Length of AMAX series: 49 years

Orange highlighted data uncertain

Gauging Authority: Office of Public Works

Easting: 205365

Northing: 205654

Catchment: Little Brosna

Telemetry: Yes

Station Type: Recorder

Catchment Area: 479.20 km²

QMED (gauged): 28.58 m³/s

AREA (FSU): 479.25 km²

QMED (FSU): 28.27 m³/s

SAAR (FSU): 927.77

QMED (predicted): 48.32 m³/s

FARL (FSU): 0.99

BFIsols (FSU): 0.58

S1085: 1.47

URBEXT: 1.23

ARTDRAIN2: N/A

DRAIND: 0.77

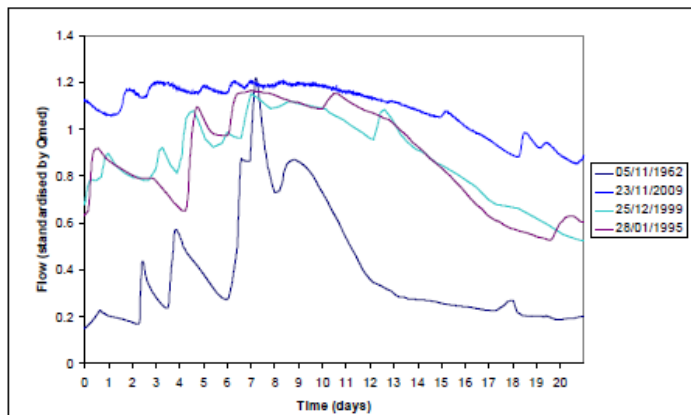
Comments: Velocity-area station installed in 1956, automated in 1961. Sedimentation a problem. Bridge.

Nearby APSRs: To be confirmed

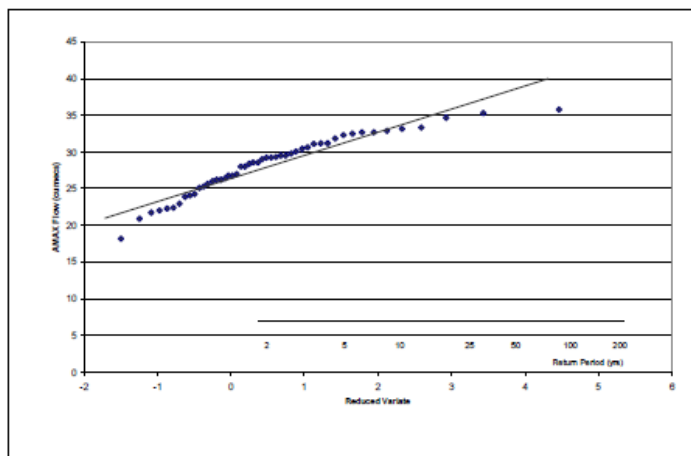
Jacobs Rating Review required: Yes

OPW Station Classification: A2

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25022 – CAMCOR AT SYNGEFIELD

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953	27.4	03/12/1953
1954	33.6	07/02/1955
1955	26.2	13/12/1955
1956	23.6	30/12/1956
1957	38.9	24/09/1958
1958	31.4	18/12/1958
1959	30.4	14/09/1960
1960	33.8	04/12/1960
1961	31.0	30/09/1962
1962	35.2	05/11/1962
1963	26.7	30/10/1963
1964	32.3	12/12/1964
1965	39.3	12/06/1966
1966	42.8	06/10/1966
1967	27.2	09/01/1968
1968	40.3	24/12/1968
1969	27.6	25/04/1970
1970	23.6	19/11/1970
1971	24.9	03/02/1972
1972	28.0	19/01/1973
1973	32.5	08/01/1974
1974	32.8	25/01/1975
1975	23.0	17/05/1976
1976	21.4	10/02/1977
1977	23.3	31/10/1977
1978	23.6	07/12/1978
1979	22.0	21/09/1980
1980	24.6	19/12/1980
1981	18.5	03/01/1982
1982	24.9	31/01/1983
1983	25.2	09/12/1983
1984	22.8	15/08/1985
1985	32.6	26/08/1986
1986	24.0	08/12/1986
1987	26.9	19/01/1988
1988	29.2	22/10/1988
1989	36.1	06/02/1990
1990	22.6	24/11/1990
1991	23.8	25/11/1991
1992	30.3	12/06/1993
1993	25.5	25/02/1994
1994	35.1	28/01/1995
1995	25.8	24/10/1995
1996	19.5	01/09/1997
1997	29.1	17/10/1997
1998	23.1	29/12/1998
1999	25.0	25/12/1999
2000	30.0	06/11/2000
2001	23.0	26/02/2002
2002	22.1	22/11/2002
2003	20.3	15/01/2004
2004	26.3	08/01/2005
2005	19.6	03/11/2005
2006	21.3	12/08/2007
2007	29.4	17/08/2008
2008	33.8	31/01/2009
2009	24.1	01/11/2009

Length of AMAX series: 57 years

NB: Gauge moved 1974.

Gauging Authority: Office of Public Works

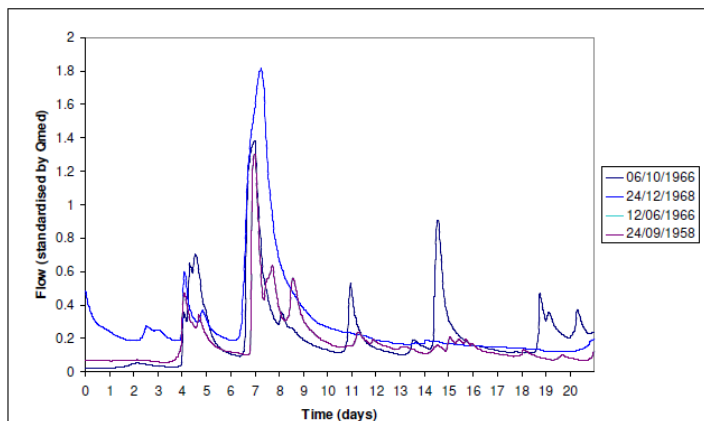
Easting: 207996	Northing: 204655
Catchment: Little Brosna	Telemetry: No
Station Type: Recorder	Catchment Area: 147.90 km ²
QMED (gauged): 26.31 m ³ /s	AREA (FSU): 161.34 km ²
QMED (FSU): 31.20 m ³ /s	SAAR (FSU): 984.46
QMED (predicted): 27.09 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.59	S1085: 9.77
URBEXT: 0.19	ARTDRAIN2: N/A
DRAIN2: 0.80	

Comments: Velocity-area station installed in 1940 and automated in 1953. Bridge location. Natural channel control. Negligible weed growth. Site moved in 1975 downstream of Syngefield Bridge.

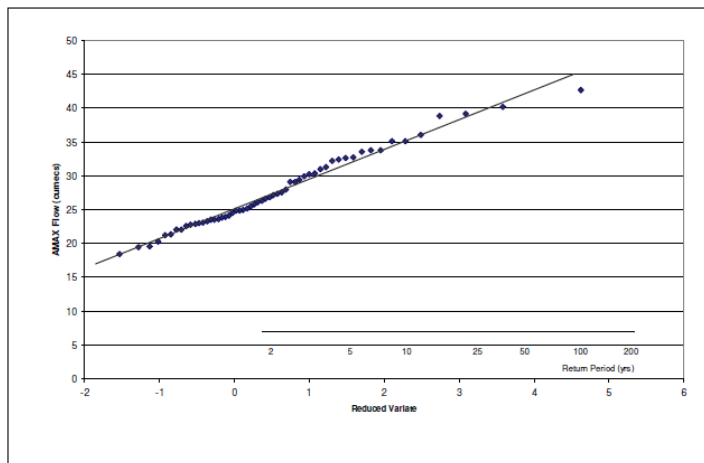
Nearby APSRs: To be confirmed

Jacobs Rating Review required: YES OPW Station Classification: B

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25023 – LITTLE BROSNA AT MILLTOWN

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953	10.5	05/02/1954
1954	10.2	12/08/1954
1955	11.5	09/06/1956
1956	10.1	30/12/1956
1957	8.5	25/02/1958
1958	10.0	20/12/1958
1959	10.0	30/12/1959
1960	11.0	12/04/1960
1961	5.7	30/09/1962
1962	9.7	11/06/1962
1963	8.6	31/11/1963
1964	9.5	14/12/1964
1965	6.6	29/01/1966
1966	9.3	28/02/1967
1967	12.4	01/09/1968
1968	17.6	25/12/1968
1969	8.6	22/02/1970
1970	9.5	29/11/1970
1971	7.6	23/02/1972
1972	8.0	20/01/1973
1973	17.7	26/11/1973
1974	13.4	25/01/1975
1975	11.1	12/02/1975
1976	12.0	20/02/1977
1977	14.3	30/02/1978
1978	14.9	15/12/1978
1979	12.0	27/12/1979
1980	13.1	02/09/1981
1981	12.6	29/12/1981
1982	13.0	11/09/1982
1983	17.3	17/01/1984
1984	11.4	16/08/1985
1985	18.2	26/08/1986
1986	18.6	16/12/1986
1987	12.9	02/03/1988
1988	8.5	22/10/1988
1989	19.6	02/07/1990
1990	10.9	29/12/1990
1991	11.6	13/09/1992
1992	5.1	30/09/1993
1993	13.1	16/01/1994
1994	18.4	28/01/1995
1995	11.3	01/07/1996
1996	16.2	08/06/1997
1997	16.6	18/10/1997
1998	15.9	30/12/1998
1999	16.8	26/12/1999
2000	17.7	04/11/2000
2001	11.2	02/02/2002
2002	8.9	02/12/2002
2003	9.1	16/01/2004
2004	16.5	08/01/2005
2005	12.4	04/11/2005
2006	12.9	08/12/2006
2007	14.7	10/01/2008
2008	16.4	01/02/2009
2009	16.8	23/11/2009

Length of AMAX series: 57 years

1957 & 58 - peak legible WL

Gauging Authority: Office of Public Works

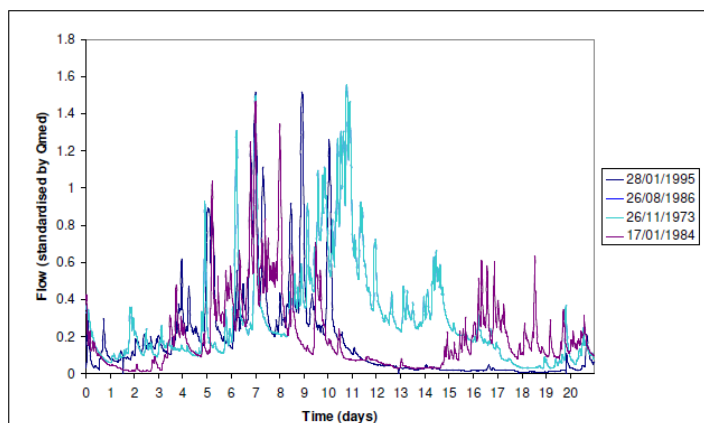
Easting: 206952	Northing: 190914
Catchment: Little Brosna	Telemetry: Yes
Station Type: Recorder	Catchment Area: 113.90 km ²
QMED (gauged): 11.99 m ³ /s	AREA (FSU): 113.86 km ²
QMED (FSU): 13.11 m ³ /s	SAAR (FSU): 922.49
QMED (predicted): 12.23 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.71	S1085: 2.88
URBEXT: 0.25	ARTDRAIN2: N/A
DRAIN2: 0.84	

Comments: Velocity area station installed in 1940 and automated in 1953. Stable mud bed, seasonal weed growth. Natural channel control.

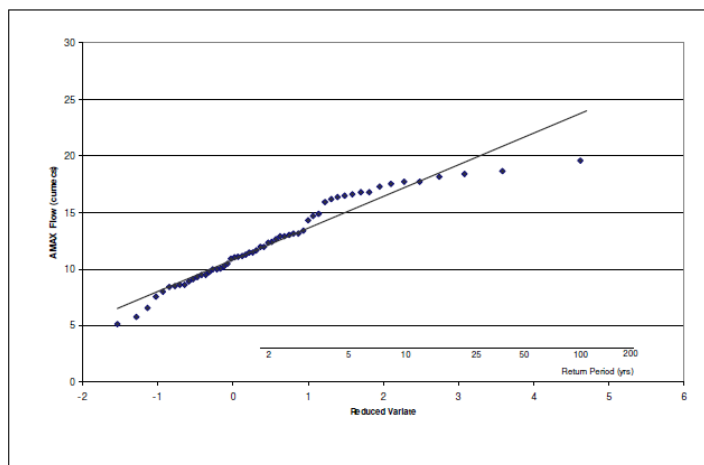
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: A2

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25025 – BALLYFINBOY AT BALLYHOONEY

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972	6.0	12/12/1972
1973	11.6	02/12/1973
1974	10.8	27/01/1975
1975	6.0	05/01/1976
1976	8.4	23/02/1977
1977	6.6	05/02/1978
1978	11.2	16/12/1978
1979	9.5	28/12/1979
1980	7.8	20/12/1980
1981	8.4	05/01/1982
1982	10.4	09/01/1983
1983	N/A	N/A
1984	N/A	N/A
1985	6.3	26/08/1986
1986	8.6	18/12/1986
1987	9.4	04/02/1988
1988	4.8	28/03/1989
1989	13.8	08/02/1990
1990	8.0	02/01/1991
1991	8.6	06/01/1992
1992	7.9	14/06/1993
1993	11.5	24/12/1993
1994	17.4	31/01/1995
1995	10.2	12/02/1996
1996	14.1	08/08/1997
1997	11.4	08/01/1998
1998	11.2	05/01/1999
1999	15.1	26/12/1999
2000	11.8	03/11/2000
2001	12.3	11/02/2002
2002	10.0	29/10/2002
2003	10.4	15/01/2004
2004	15.4	08/01/2005
2005	6.6	04/11/2005
2006	15.0	15/12/2006
2007	17.6	21/01/2008
2008	17.5	31/01/2009
2009	24.2	25/11/2009

Length of AMAX series: 36 years

Gauging Authority: Office of Public Works

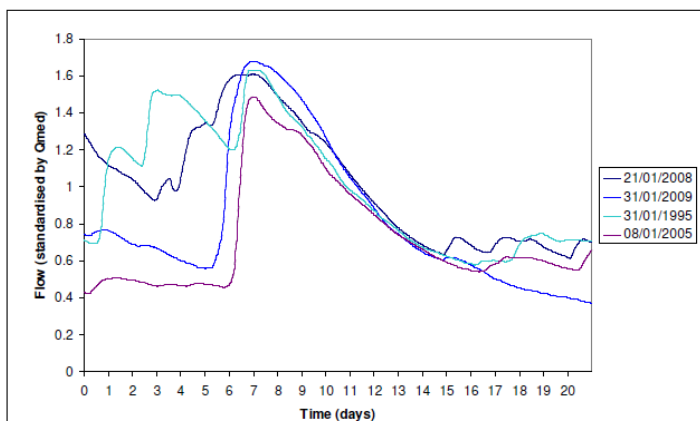
Easting: 186247	Northing: 195967
Catchment: Ballyfinboy	Telemetry: Yes
Station Type: Recorder	Catchment Area: 182.60 km ²
QMED (gauged): 10.40 m ³ /s	AREA (FSU): 161.20 km ²
QMED (FSU): 10.43 m ³ /s	SAAR (FSU): 904.54
QMED (predicted): 14.92 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.70	S1085: 2.62
URBEXT: 0.90	ARTDRAIN2: 1.00
DRAIN2: 0.64	

Comments: Velocity area station installed in 1940 and automated in 1957. Stable mud bed. Seasonal weed growth. Bridge. Natural channel control.

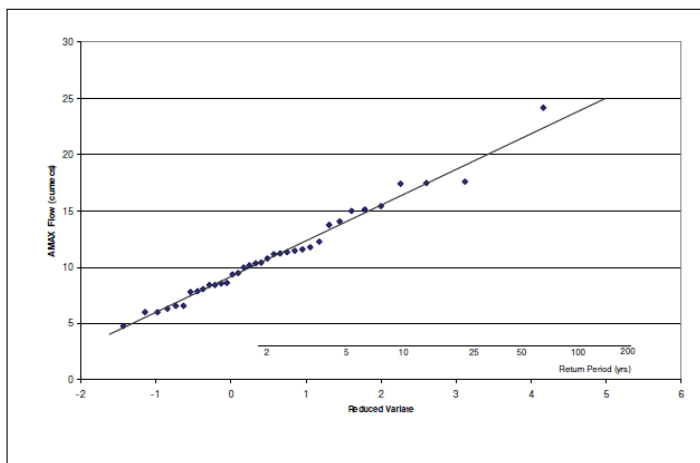
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25027 – OLLATRIM AT GOURDEEN

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962	29.6	05/11/1962
1963	21.9	17/08/1964
1964	29.1	12/12/1964
1965	18.5	09/12/1965
1966	27.4	22/02/1967
1967	21.7	07/10/1967
1968	40.5	25/12/1968
1969	14.3	21/02/1970
1970	19.5	28/11/1970
1971	18.7	19/01/1972
1972	14.5	19/01/1973
1973	27.1	08/01/1974
1974	21.6	25/01/1975
1975	8.5	30/01/1976
1976	14.3	20/02/1977
1977	21.6	29/02/1978
1978	22.9	07/12/1978
1979	18.9	25/10/1979
1980	23.2	22/10/1980
1981	15.6	14/12/1981
1982	19.9	31/01/1983
1983	31.0	16/01/1984
1984	12.6	08/02/1985
1985	28.4	26/08/1986
1986	22.1	15/12/1986
1987	22.1	12/01/1988
1988	22.3	22/10/1988
1989	35.0	06/02/1990
1990	20.0	02/01/1991
1991	18.5	13/09/1992
1992	18.9	30/09/1993
1993	25.8	15/01/1994
1994	29.6	22/02/1995
1995	25.3	07/01/1996
1996	30.9	05/08/1997
1997	27.5	17/10/1997
1998	30.4	29/12/1998
1999	27.3	24/12/1999
2000	33.6	03/11/2000
2001	22.4	01/02/2002
2002	19.3	21/10/2002
2003	17.8	15/01/2004
2004	28.8	08/01/2005
2005	18.1	03/11/2005
2006	24.3	11/01/2007
2007	30.9	30/03/2008
2008	33.5	31/01/2009
2009		

Length of AMAX series: 47 years

1969 -incomplete hydrological year

Gauging Authority: Office of Public Works

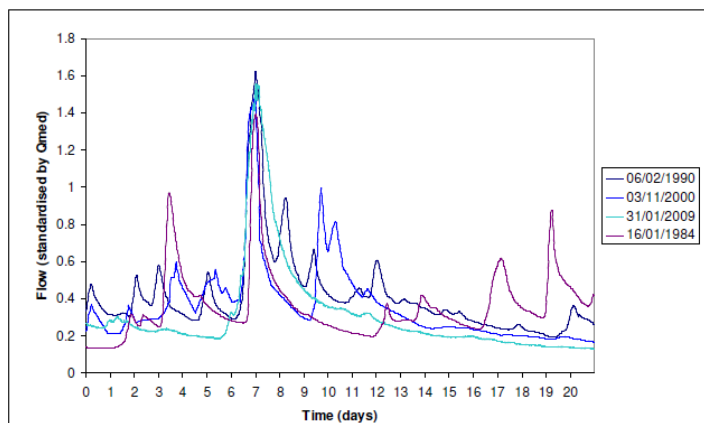
Easting: 188697	Northing: 179707
Catchment: Lower Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 118.90 km ²
QMED (gauged): 22.35 m ³ /s	AREA (FSU): 118.86 km ²
QMED (FSU): 22.10 m ³ /s	SAAR (FSU): 1021.15
QMED (predicted): 21.25 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.62	S1085: 3.90
URBEXT: 0.62	ARTDRAIN2: 48.00
DRAIN2: 0.94	

Comments: Velocity area station installed in 1940 and automated in 1962. Drainage 1955 to 1960. Stable, gravel bed. Negligible weed growth. Bridge down stream.

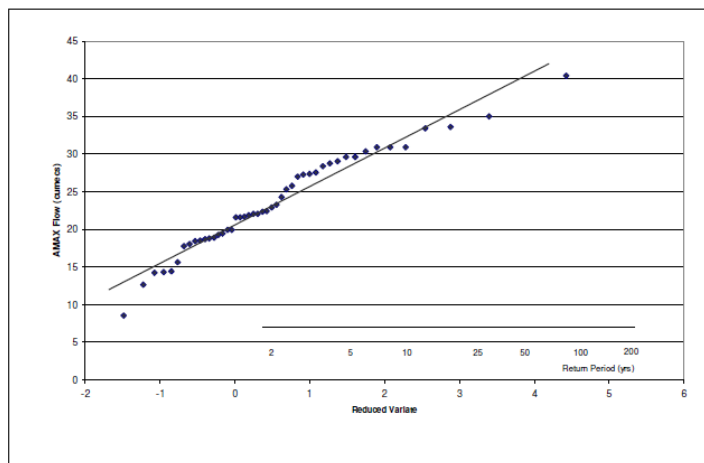
Nearby APSRs: To be confirmed

Jacobs Rating Review required: YES OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25029 – NENAGH AT CLARIANNA

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972	35.5	19/01/1973
1973	63.7	08/01/1974
1974	57.2	25/01/1975
1975	39.8	30/01/1976
1976	42.2	12/10/1976
1977	38.2	22/02/1978
1978	50.3	07/12/1978
1979	37.9	27/12/1979
1980	38.7	22/10/1980
1981	36.0	14/12/1981
1982	51.0	31/01/1983
1983	60.0	16/01/1984
1984	31.9	14/08/1985
1985	59.6	26/08/1986
1986	50.3	15/12/1986
1987	61.6	01/02/1988
1988	45.7	22/10/1988
1989	74.1	06/02/1990
1990	60.7	01/01/1991
1991	51.0	12/09/1992
1992	38.7	30/09/1993
1993	59.6	11/01/1994
1994	72.9	22/02/1995
1995	63.8	07/01/1996
1996	72.9	05/08/1997
1997	63.4	06/03/1998
1998	70.8	29/12/1998
1999	71.0	25/12/1999
2000	69.5	03/11/2000
2001	56.5	01/02/2002
2002	50.0	02/12/2002
2003	43.1	15/01/2004
2004	68.2	08/01/2005
2005	43.8	03/11/2005
2006	54.1	11/01/2007
2007	60.4	10/01/2008
2008	67.3	31/01/2009
2009		

Length of AMAX series: 37 years

Gauging Authority: Office of Public Works

Easting: 186054	Northing: 182277
Catchment: Nenagh	Telemetry: Yes
Station Type: Recorder	Catchment Area: 292.70 km ²

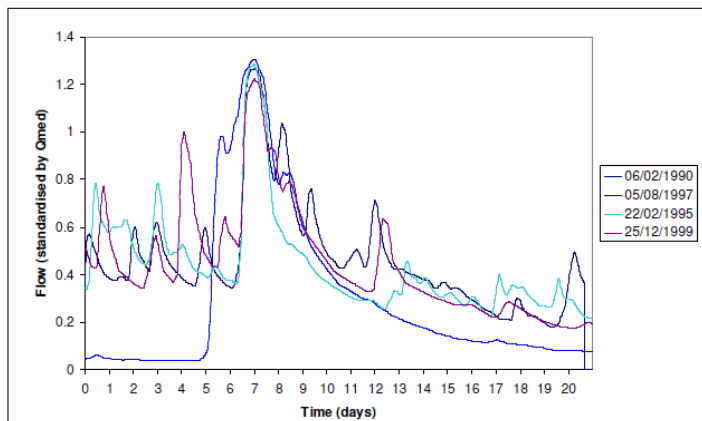
QMED (gauged): 56.48 m ³ /s	AREA (FSU): 292.67 km ²
QMED (FSU): 56.48 m ³ /s	SAAR (FSU): 1108.68
QMED (predicted): 54.72 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.62	S1085: 4.76
URBEXT: 1.34	ARTDRAIN2: 41.00
DRAIN2: 0.89	

Comments: Automated velocity-area station installed in 1957. Natural channel. Subject to weed growth.

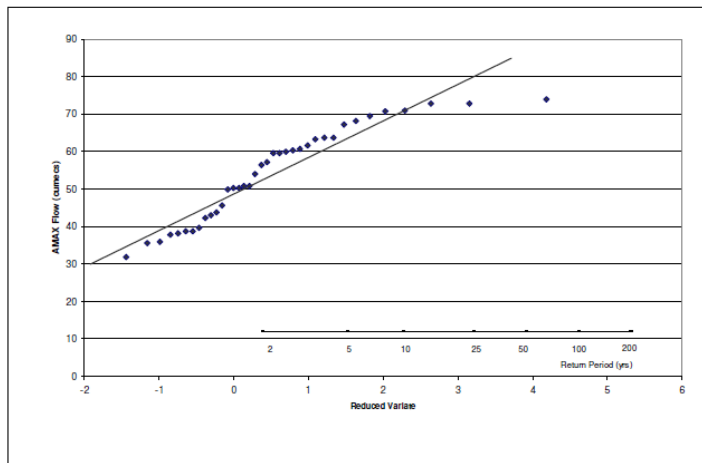
Nearby APSRs: To be confirmed

Jacobs Rating Review required: YES OPW Station Classification: A2

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25030 – GRANEY AT SCARRIFF

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957	54.7	31/10/1957
1958	18.3	07/01/1959
1959	87.0	28/12/1959
1960	54.3	04/12/1960
1961	33.9	17/01/1962
1962	23.6	12/12/1962
1963	32.9	26/11/1963
1964	68.2	13/12/1964
1965	34.2	18/12/1965
1966	44.4	01/03/1967
1967	34.7	24/03/1968
1968	71.1	31/12/1968
1969	37.6	23/04/1970
1970	32.3	03/11/1970
1971	30.2	27/01/1972
1972	28.9	13/12/1972
1973	64.1	02/12/1973
1974	56.4	23/01/1975
1975	37.9	03/12/1975
1976	29.7	08/02/1977
1977	41.0	02/11/1977
1978	40.4	15/12/1978
1979	41.0	28/11/1979
1980	40.8	20/12/1980
1981	32.1	13/03/1982
1982	51.5	20/12/1982
1983	37.0	17/01/1984
1984	36.8	17/08/1985
1985	31.8	08/08/1986
1986	30.0	18/12/1986
1987	47.9	04/06/1988
1988	25.7	15/03/1989
1989	58.4	08/02/1990
1990	50.8	27/12/1990
1991	63.4	06/01/1992
1992	32.1	23/11/1992
1993	41.0	22/12/1993
1994	62.1	29/12/1994
1995	44.4	28/10/1995
1996	42.5	19/02/1997
1997	40.4	07/03/1998
1998	40.4	03/03/1999
1999	64.3	26/12/1999
2000	46.6	30/10/2000
2001	47.3	11/02/2002
2002	35.9	10/11/2002
2003	39.0	15/01/2004
2004	63.3	08/01/2005
2005	38.0	24/09/2006
2006	50.7	11/12/2006
2007	53.6	30/12/2007
2008	47.3	26/10/2008
2009	118.5	20/11/2009

Length of AMAX series: 53 years

Orange highlighted - recorder malfunction, peak may be higher 5/6 Dec

Gauging Authority: Office of Public Works

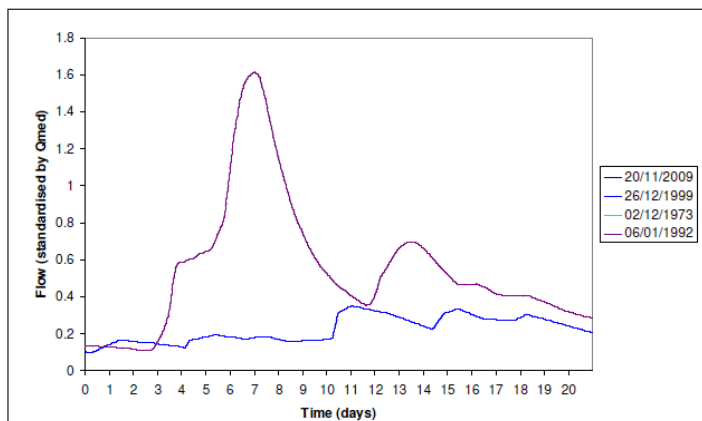
Easting: 164180	Northing: 184277
Catchment: Lower Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 280.00 km ²
QMED (gauged): 40.97 m ³ /s	AREA (FSU): 280.02 km ²
QMED (FSU): 40.64 m ³ /s	SAAR (FSU): 1183.81
QMED (predicted): 39.07 m ³ /s	FARL (FSU): 0.85
BFIsoils (FSU): 0.59	S1085: 3.94
URBEXT: 0.13	ARTDRAIN2: N/A
DRAINID: 1.22	

Comments: Velocity-area station installed in 1940 and automated in 1957. Natural channel control. Stable bed consisting of boulders.

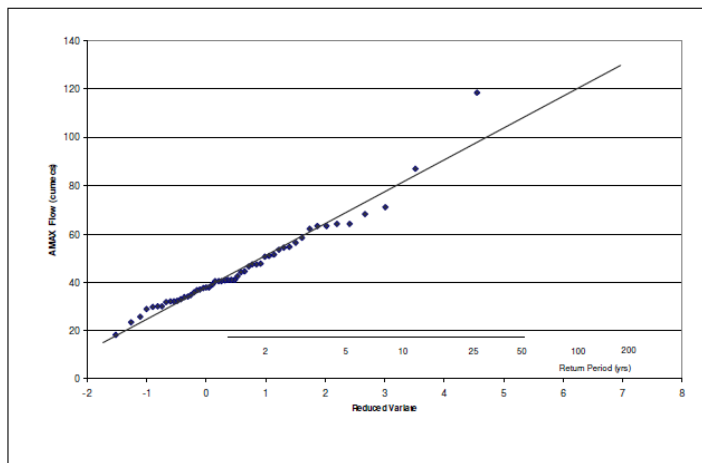
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25034 – L. ENNELL TRIB AT ROCHFORD

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977	1.2	03/02/1978
1978	1.5	28/12/1978
1979	2.2	15/12/1979
1980	1.5	23/10/1980
1981	1.5	14/12/1981
1982	2.1	31/01/1983
1983	1.8	16/01/1984
1984	2.1	14/12/1984
1985	1.3	06/08/1986
1986	.9	17/12/1986
1987	1.8	21/10/1987
1988	.6	23/12/1988
1989	1.9	06/02/1990
1990	1.0	05/01/1991
1991	1.4	05/01/1992
1992	1.9	12/06/1993
1993	1.5	08/12/1993
1994	1.9	27/01/1995
1995	1.0	24/10/1995
1996	.7	31/08/1997
1997	1.4	17/10/1997
1998	.8	22/11/1998
1999	.2	29/09/2000
2000	1.7	06/11/2000
2001	1.5	11/02/2002
2002	1.7	15/11/2002
2003		
2004		
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 26 years

Gauging Authority: Westmeath County Council

Easting: 241597	Northing: 246359
Catchment:	Telemetry: No
Station Type: Recorder	Catchment Area: 10.80 km ²
QMED (gauged): 1.48 m ³ /s	AREA (FSU): 10.77 km ²
QMED (FSU): 1.48 m ³ /s	SAAR (FSU): 968.60
QMED (predicted): 1.20 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.70	S1085: 2.57
URBEXT: N/A	ARTDRAIN2: 68.00
DRAIN2: 0.27	

Comments:

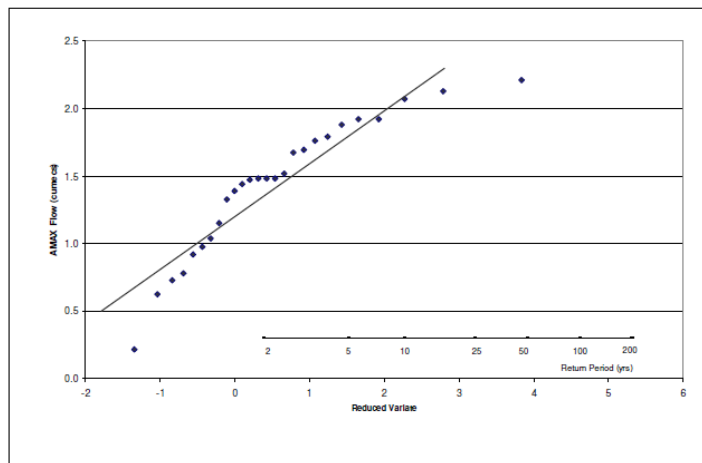
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25038 – NENAGH AT TYONE

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987	32.0	01/02/1988
1988	26.3	14/03/1989
1989	43.4	06/02/1990
1990	43.9	01/01/1991
1991	44.4	12/09/1992
1992	26.9	26/05/1993
1993	38.8	22/12/1993
1994	67.9	22/02/1995
1995	45.2	07/01/1996
1996	62.6	05/08/1997
1997	38.7	08/01/1998
1998	39.2	15/01/1999
1999	45.6	25/12/1999
2000	39.3	02/11/2000
2001	34.2	11/02/2002
2002	31.9	01/12/2002
2003	---	14/11/2003
2004	55.0	08/01/2005
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 17 years

Gauging Authority: North Tipperary County Council

Easting: 187565	Northing: 177807
Catchment:	Telemetry: No
Station Type: Recorder	Catchment Area: 136.10 km ²
QMED (gauged): 39.30 m ³ /s	AREA (FSU): 136.10 km ²
QMED (FSU): 39.30 m ³ /s	SAAR (FSU): 1249.29
QMED (predicted): 34.40 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.59	S1085: 7.34
URBEXT: 0.21	ARTDRAIN2: 27.00
DRAIN2: 0.92	

Comments:

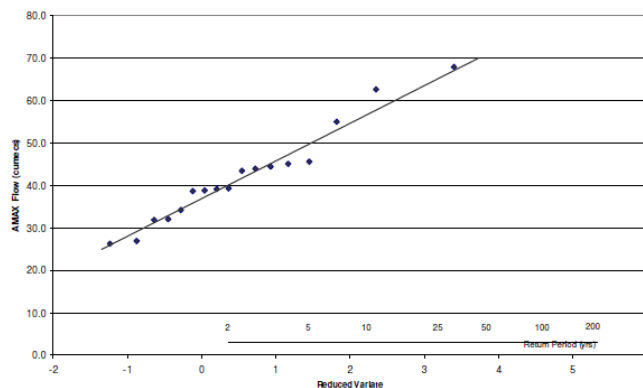
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25040 – BUNOW AT ROSCREA

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980	3.3	22/10/1980
1981	3.0	29/12/1981
1982	2.6	17/05/1983
1983	3.6	17/12/1983
1984	2.5	16/08/1985
1985	5.6	26/08/1986
1986	3.6	08/12/1986
1987	4.4	03/02/1988
1988	3.5	21/10/1988
1989	4.0	25/01/1990
1990	3.6	25/12/1990
1991	3.1	25/11/1991
1992	4.0	12/06/1993
1993	3.8	27/02/1994
1994	5.1	22/02/1995
1995	3.5	07/01/1996
1996	2.8	05/08/1997
1997	6.3	17/10/1997
1998	4.8	02/11/1998
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 19 years

Gauging Authority: North Tipperary County Council

Easting: 213572	Northing: 189027
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 28.00 km ²
QMED (gauged): 3.63 m ³ /s	AREA (FSU): 28.02 km ²
QMED (FSU): 3.63 m ³ /s	SAAR (FSU): 989.64
QMED (predicted): 6.58 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.58	S1085: 13.49
URBEXT: 6.18	ARTDRAIN2: N/A
DRAIND: 1.20	

Comments:

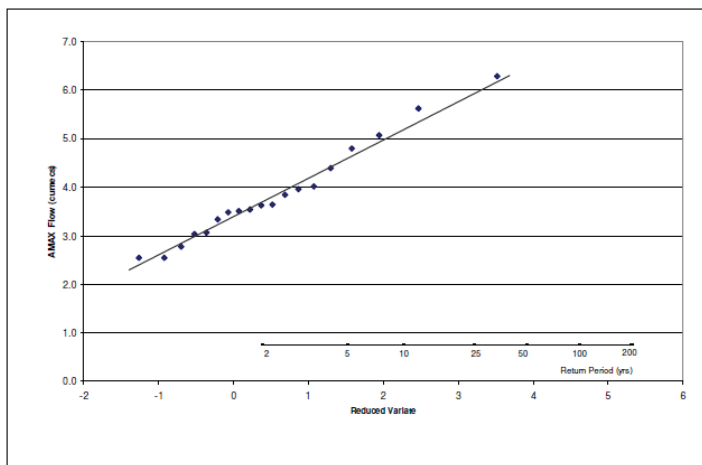
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25044 – KILMASTULLA AT COOLE

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961	18.8	02/04/1962
1962	13.8	05/11/1962
1963	17.1	21/11/1963
1964	45.8	12/12/1964
1965	22.5	09/12/1965
1966	33.0	27/02/1967
1967	25.4	07/10/1967
1968	41.7	24/12/1968
1969	17.6	25/04/1970
1970	21.2	18/11/1970
1971	19.0	20/11/1971
1972	24.0	12/11/1972
1973	24.9	08/01/1974
1974	36.4	22/01/1975
1975	27.8	01/12/1975
1976	10.4	30/09/1977
1977	16.6	30/10/1977
1978	---	01/10/1978
1979	---	01/10/1979
1980	---	01/10/1980
1981	---	01/10/1981
1982	28.2	31/01/1983
1983	40.5	09/12/1983
1984	21.8	30/11/1984
1985	23.1	26/08/1986
1986	22.7	08/12/1986
1987	21.8	01/02/1988
1988	21.9	21/10/1988
1989	44.1	06/02/1990
1990	24.2	26/12/1990
1991	23.0	12/09/1992
1992	14.3	06/04/1993
1993	24.2	18/12/1993
1994	5.8	02/10/1994
1995	21.4	11/02/1996
1996	32.1	04/08/1997
1997	29.3	06/03/1998
1998	25.2	02/03/1999
1999	26.8	04/11/1999
2000	14.9	27/10/2000
2001	19.6	23/01/2002
2002	18.4	21/10/2002
2003	18.8	15/01/2004
2004	35.6	07/01/2005
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 40 years

Gauging Authority: North Tipperary County Council

Easting: 170946	Northing: 169510
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 92.50 km ²
QMED (gauged): 22.85 m ³ /s	AREA (FSU): 92.55 km ²
QMED (FSU): 22.85 m ³ /s	SAAR (FSU): 1186.86
QMED (predicted): 19.69 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.57	S1085: 2.67
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: 1.37	

Comments:

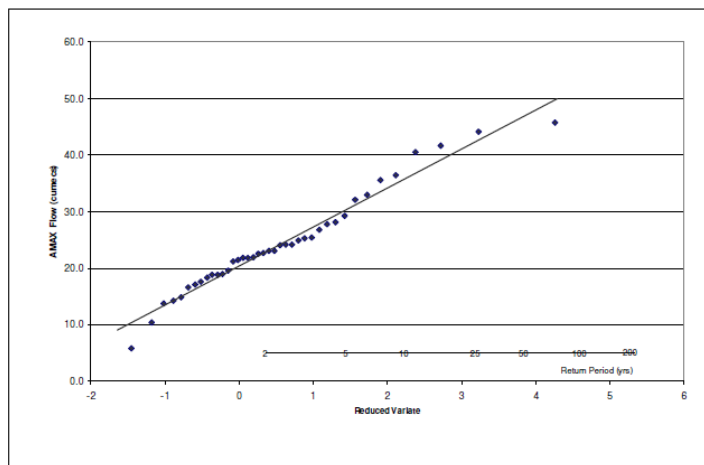
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25050 – BROSNA AT MULLINGAR PUMP HSE.

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977	1.7	03/02/1978
1978	2.8	27/12/1978
1979	4.1	15/12/1979
1980	5.2	09/06/1981
1981	2.7	03/01/1982
1982	4.9	31/01/1983
1983	3.2	16/01/1984
1984	4.3	14/12/1984
1985	6.0	26/08/1986
1986	1.6	18/12/1986
1987	4.2	19/01/1988
1988	4.1	23/12/1988
1989	4.3	06/02/1990
1990	2.2	24/02/1991
1991	2.4	05/01/1992
1992	4.6	12/06/1993
1993	4.6	27/02/1994
1994	5.5	31/01/1995
1995	2.8	24/10/1995
1996	3.4	19/02/1997
1997	3.6	17/10/1997
1998	6.4	24/10/1998
1999	5.5	22/12/1999
2000	4.8	05/11/2000
2001	4.3	11/02/2002
2002	2.5	10/06/2003
2003	3.6	16/01/2004
2004	2.0	29/10/2004
2005	3.4	28/09/2006
2006	5.6	03/12/2006
2007	8.8	16/08/2008
2008	5.9	30/01/2009
2009		

Length of AMAX series: 32 years

2008 - incomplete hydrological year

Gauging Authority: Office of Public Works

Easting: 244171

Northing: 253301

Catchment:

Telemetry: Yes

Station Type: Recorder

Catchment Area: 23.60 km²

QMED (gauged): 4.12 m³/s

AREA (FSU): N/A km²

QMED (FSU): N/A m³/s

SAAR (FSU): N/A

QMED (predicted): N/A m³/s

FARL (FSU): N/A

BFIsoils (FSU): N/A

S1085: N/A

URBEXT: N/A

ARTDRAIN2: N/A

DRAIN2: N/A

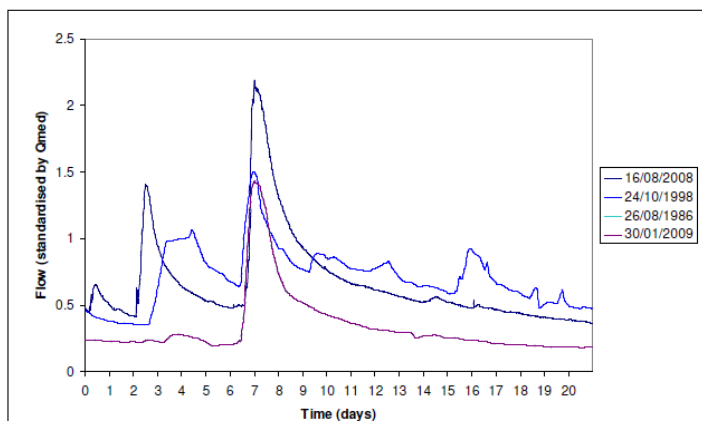
Comments:

Nearby APSRs: To be confirmed

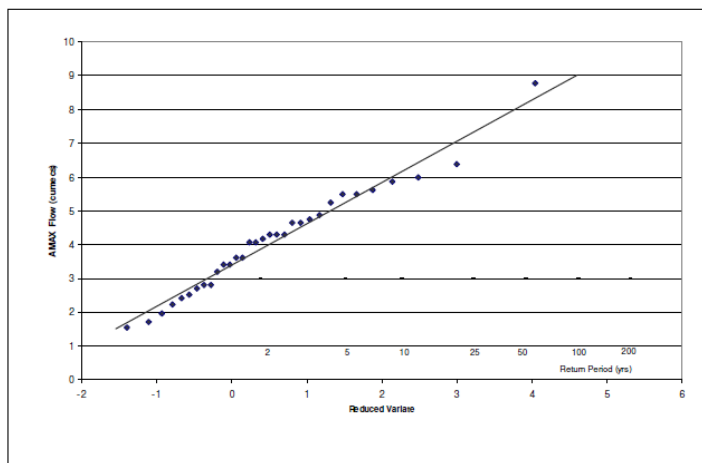
Jacobs Rating Review required: No

OPW Station Classification: None

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25056 – SHANNON AT MEELICK WEIR U/S

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985	35.2	24/01/86
1986	35.6	20/12/86
1987	35.5	02/05/1988
1988	35.1	28/03/89
1989	35.8	02/12/1990
1990	35.6	01/07/1991
1991	35.2	01/09/1992
1992	35.3	12/07/1992
1993	35.4	01/06/1994
1994	35.8	02/01/1995
1995	35.1	19/02/96
1996	35.5	26/02/97
1997	35.4	01/10/1998
1998	35.5	19/01/99
1999	35.8	28/12/1999
2000	35.6	15/12/2000
2001	35.8	13/02/2002
2002	35.6	16/11/2002
2003	35.2	07/02/2004
2004	35.6	11/01/2005
2005	35.0	03/04/2006
2006	35.7	01/12/2006
2007	35.6	22/01/2008
2008	35.4	03/02/2009
2009		

Length of AMAX series: 24 years

Gauging Authority: Office of Public Works

Easting: 194922	Northing: 213788
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 8124.50 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

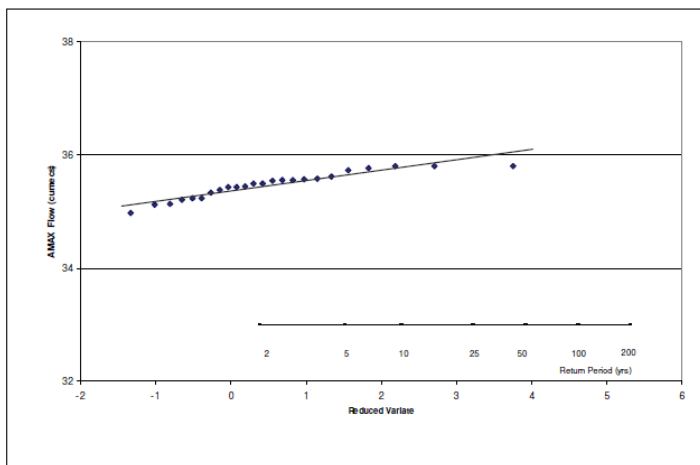
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25058 – CANAL AT VICTORIA LOCK

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985	35.5	24/01/1986
1986	35.7	20/12/1986
1987	35.7	02/05/1988
1988	35.4	15/03/1989
1989	35.9	02/09/1990
1990	35.8	01/05/1991
1991	35.5	01/09/1992
1992	35.6	12/07/1992
1993	35.7	01/04/1994
1994	36.0	02/01/1995
1995	35.4	19/02/1996
1996	35.7	27/02/1997
1997	35.6	01/11/1998
1998	35.6	20/01/1999
1999	36.0	27/12/1999
2000	35.6	07/11/2000
2001	35.9	13/02/2002
2002	35.8	16/11/2002
2003	N/A	N/A
2004	35.7	11/01/2005
2005	35.7	27/05/2006
2006	35.9	16/12/2006
2007	35.6	22/01/2008
2008	35.6	03/02/2009
2009		

Length of AMAX series: 23 years

Gauging Authority: Office of Public Works

Easting: 194699	Northing: 212962
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 579.40 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

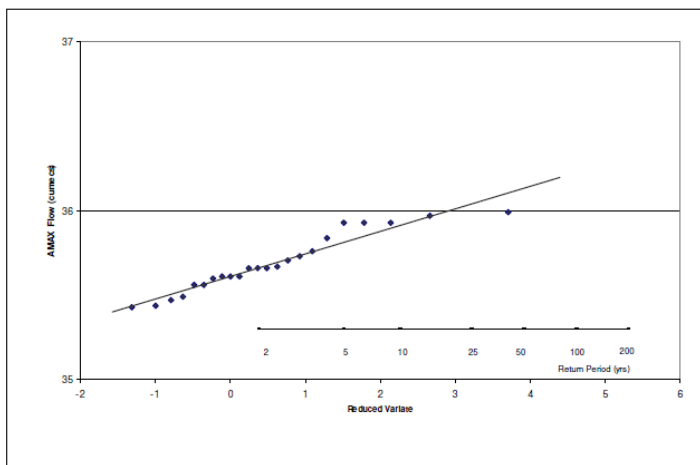
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25085 – ENNELL L. AT CLONSINGLE

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954	82.6	10/12/1954
1955	82.3	29/01/1956
1956	82.5	29/01/1957
1957	82.4	29/08/1958
1958	82.4	07/10/1958
1959	82.6	30/12/1959
1960	82.4	07/12/1960
1961	82.3	10/04/1962
1962	82.3	03/10/1962
1963	82.3	29/03/1964
1964	82.5	20/01/1965
1965	82.7	29/11/1965
1966	82.3	03/03/1967
1967	82.5	02/11/1967
1968	82.3	25/12/1968
1969	82.4	23/02/1970
1970	82.4	29/11/1970
1971	82.4	11/04/1972
1972	82.3	01/02/1973
1973	82.5	17/01/1974
1974	82.5	30/01/1975
1975	82.3	11/01/1976
1976	82.5	23/02/1977
1977	82.4	05/02/1978
1978	82.5	29/12/1978
1979	82.6	14/12/1979
1980	82.4	27/10/1980
1981	82.4	05/12/1981
1982	82.5	02/02/1983
1983	82.4	18/01/1984
1984	82.5	15/12/1984
1985	82.4	26/08/1986
1986	82.4	18/12/1986
1987	82.4	10/01/1988
1988	82.4	27/02/1989
1989	82.6	12/02/1990
1990	82.5	06/01/1991
1991	82.4	09/01/1992
1992	82.3	11/12/1992
1993	82.4	05/01/1994
1994	82.6	01/02/1995
1995	82.4	18/02/1996
1996	82.4	26/02/1997
1997	82.4	10/01/1998
1998	82.4	30/10/1998
1999	82.5	26/12/1999
2000	82.5	06/11/2000
2001	82.6	12/02/2002
2002	82.4	21/11/2002
2003	82.4	05/02/2004
2004	82.4	10/01/2005
2005	82.3	02/04/2006
2006	82.6	15/12/2006
2007	82.5	17/08/2008
2008	82.4	01/02/2009
2009		

Length of AMAX series: 55 years

Gauging Authority: Office of Public Works

Easting: 238118	Northing: 243224
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 148.10 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

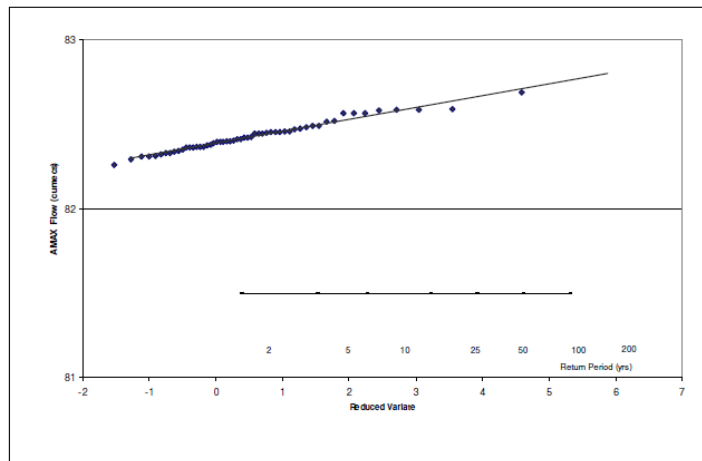
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25124 – BROSNA AT BALLYNAGORE

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986	10.4	01/01/1987
1987	14.6	23/01/1988
1988	9.5	26/02/1989
1989	22.5	06/02/1990
1990	14.3	06/01/1991
1991	14.3	05/01/1992
1992		12/06/1993
1993	14.0	27/02/1994
1994	18.0	31/01/1995
1995	9.1	12/02/1996
1996	11.4	25/02/1997
1997	12.5	17/10/1997
1998	10.5	31/12/1998
1999	4.7	16/03/2000
2000	13.3	06/11/2000
2001	16.3	11/02/2002
2002	16.0	14/11/2002
2003	3.4	06/05/2004
2004	15.4	08/01/2005
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 18 years

NB: FSU AMAX flows separated into 2 series: 1986-1993 and 1994 to 2004.

Gauging Authority: Westmeath County Council

Easting: 235696	Northing: 239704
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 215.50 km ²
QMED (gauged): 13.65 m ³ /s	AREA (FSU): 215.45 km ²
QMED (FSU): 13.65 m ³ /s	SAAR (FSU): 954.84
QMED (predicted): 10.79 m ³ /s	FARL (FSU): 0.78
BFIsoils (FSU): 0.81	S1085: 1.01
URBEXT: 3.54	ARTDRAIN2: 56.00
DRAIN2: 0.64	

Comments:

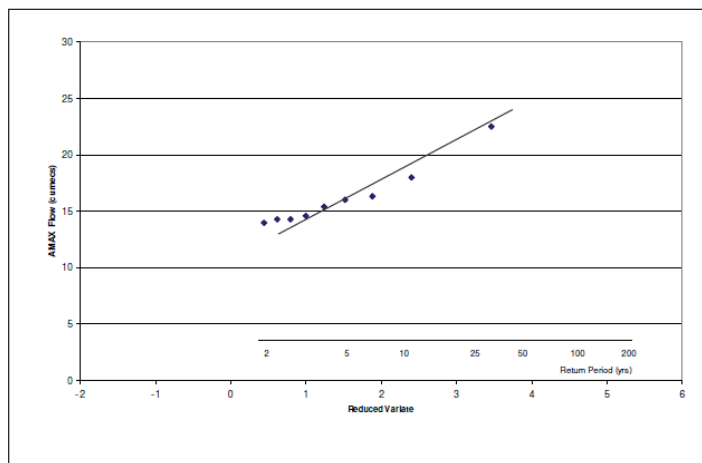
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



25149 – TULLAMORE RIVER AT TULLAMORE

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988		
1989		
1990		
1991		
1992		
1993		
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001	7.8	27/02/2002
2002	7.7	16/11/2002
2003	8.7	16/01/2004
2004	9.3	09/01/2005
2005	8.5	22/05/2006
2006	9.6	08/12/2006
2007	16.0	18/08/2008
2008	8.3	01/02/2009
2009	10.5	20/11/2009

Length of AMAX series: 9 years

2002 to 2006 - flow estimates unreliable due to excessive weed growth

Gauging Authority: Office of Public Works

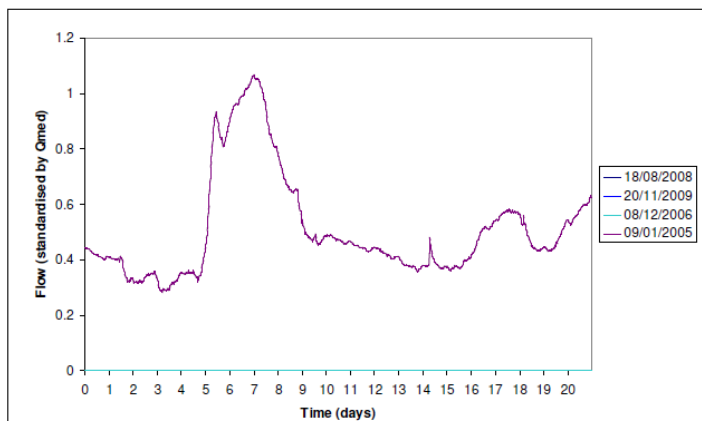
Easting: 233324	Northing: 224852
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 111.30 km ²
QMED (gauged): 8.75 m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

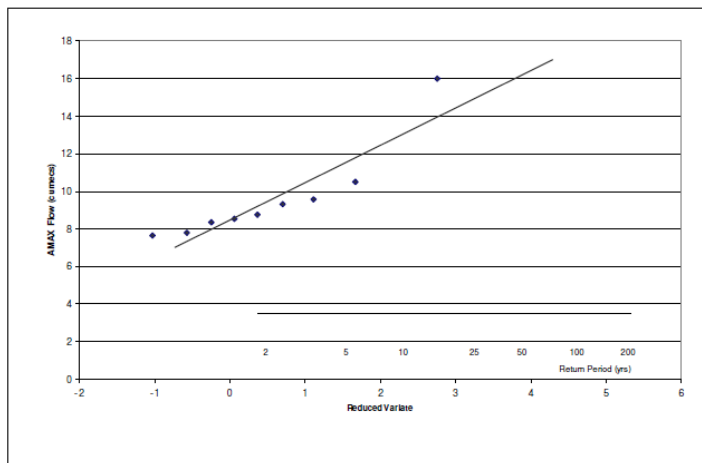
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



25308 – NEWPORT AT WATERPARK BRIDGE

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988		
1989		
1990		
1991		
1992		
1993		
1994		
1995		
1996		
1997		
1998		
1999	43.7	05/11/1999
2000	37.3	05/11/2000
2001	36.0	23/01/2002
2002	27.2	10/06/2003
2003	35.7	14/11/2003
2004	58.2	07/01/2005
2005	23.5	02/03/2006
2006	34.0	11/12/2006
2007	67.2	05/09/2008
2008	69.0	12/12/2008
2009	47.3	01/11/2009

Length of AMAX series: 11 years

Gauging Authority: Office of Public Works

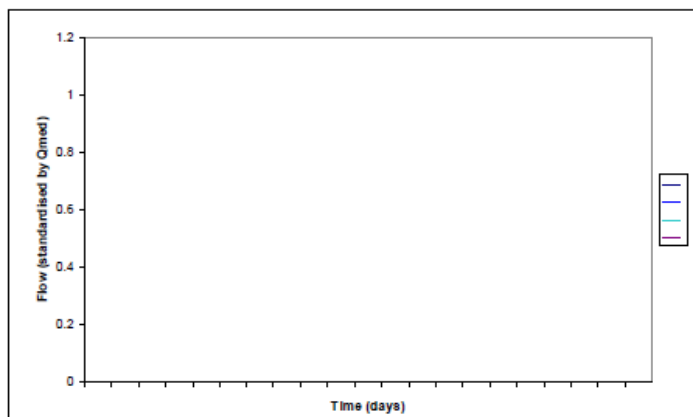
Easting: 168685	Northing: 160558
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 97.30 km ²
QMED (gauged): 37.27 m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsols (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

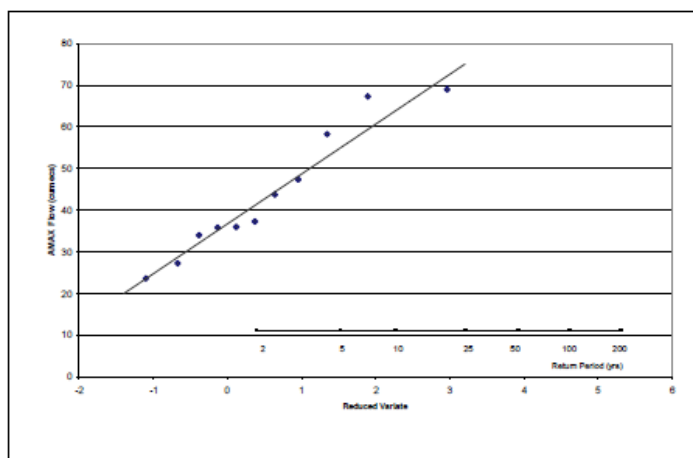
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26001 – SHIVEN AT BALLINAMORE

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m³/s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952	25.4	31/08/1953
1953	38.1	16/09/1954
1954	56.7	18/10/1954
1955	25.6	21/01/1956
1956	30.6	22/01/1957
1957	33.8	11/02/1958
1958	22.9	29/12/1958
1959	30.9	24/12/1959
1960	35.6	12/07/1961
1961	31.1	11/12/1961
1962	37.2	08/12/1962
1963	40.8	30/10/1963
1964	65.7	07/10/1964
1965	42.0	25/11/1965
1966	27.1	27/02/1967
1967	56.7	09/10/1967
1968	62.2	01/11/1968
1969	39.3	22/12/1969
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988		
1989		
1990		
1991		
1992		
1993		
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 18 years

Gauging Authority: Office of Public Works

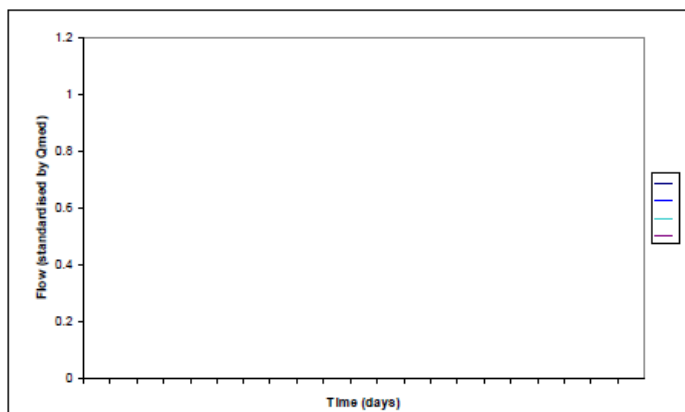
Easting: 175752	Northing: 248877
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 240.30 km²
QMED (gauged): 36.40 m³/s	AREA (FSU): N/A km²
QMED (FSU): N/A m³/s	SAAR (FSU): N/A
QMED (predicted): N/A m³/s	FARL (FSU): N/A
BFIsols (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

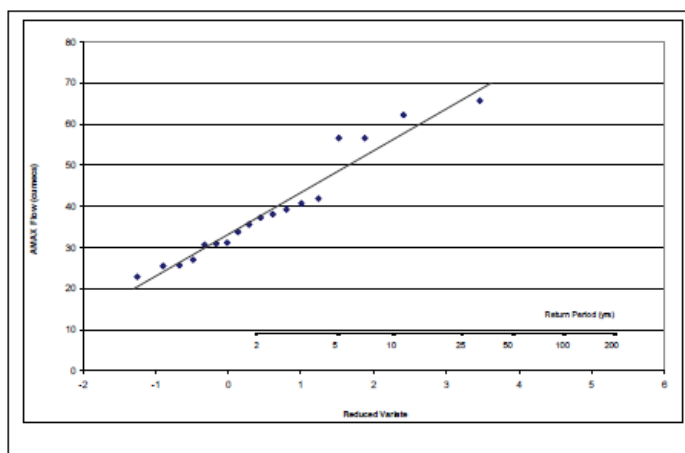
Nearby APSRs: To be confirmed

Jacobs Rating Review required: Yes OPW Station Classification: None

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26002 – SUCK AT ROOKWOOD

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952	40.1	03/09/1953
1953	49.7	18/09/1954
1954	104.9	20/10/1954
1955	37.0	09/09/1956
1956	56.8	02/01/1957
1957	53.0	13/02/1958
1958	47.6	21/12/1958
1959	53.0	30/12/1959
1960	58.4	07/12/1960
1961	62.3	13/12/1961
1962	49.3	11/12/1962
1963	59.3	26/11/1963
1964	67.3	09/10/1964
1965	83.5	20/11/1965
1966	41.5	04/12/1966
1967	68.7	11/10/1967
1968	103.8	03/11/1968
1969	62.5	23/12/1969
1970	56.6	03/11/1970
1971	41.5	26/11
1972	46.4	14/12/1972
1973	63.7	03/12/1973
1974	57.2	24/01/1975
1975	56.6	11/01/1976
1976	42.9	23/01/1977
1977	60.6	11/11/1977
1978	50.6	29/12/1978
1979	56.8	29/11/1979
1980	50.6	05/11/1980
1981	46.0	06/01/1982
1982	55.8	25/11/1982
1983	53.6	18/01/1984
1984	55.8	18/08/1985
1985	57.3	09/08/1986
1986	57.9	27/11/1986
1987	57.1	05/02/1988
1988	44.1	25/12/1988
1989	69.2	08/02/1990
1990	72.8	26/12/1990
1991	58.4	11/01/1992
1992	59.5	04/12/1992
1993	52.1	11/11/1993
1994	50.1	31/01/1995
1995	61.7	29/10/1995
1996	56.3	21/02/1997
1997	47.2	10/01/1998
1998	52.1	30/10/1998
1999	64.5	26/12/1999
2000	47.2	07/12/2000
2001	59.0	06/02/2002
2002	49.6	31/10/2002
2003	51.1	05/02/2004
2004	59.5	11/01/2005
2005	38.0	25/09/2006
2006	69.2	07/12/2006
2007	63.4	12/12/2007
2008	48.9	26/08/2009
2009	99.4	21/11/2009

Length of AMAX series: 58 years

Gauging Authority: Office of Public Works

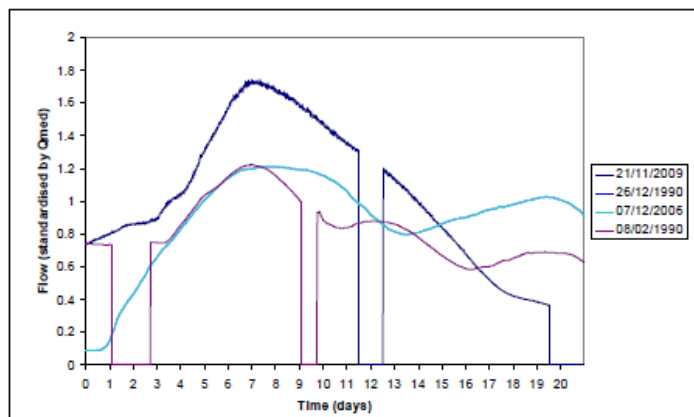
Easting: 180656	Northing: 257075
Catchment: Upper Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 641.50 km ²
QMED (gauged): 56.56 m ³ /s	AREA (FSU): 641.45 km ²
QMED (FSU): 56.56 m ³ /s	SAAR (FSU): 1067.03
QMED (predicted): 60.15 m ³ /s	FARL (FSU): 0.98
BFIsols (FSU): 0.60	S1085: 0.56
URBEXT: 0.26	ARTDRAIN2: N/A
DRAIN2: 0.80	

Comments: Automated velocity-area station installed in 1939 and automated in 1952. Stable rock/gravel bed. Natural channel control.

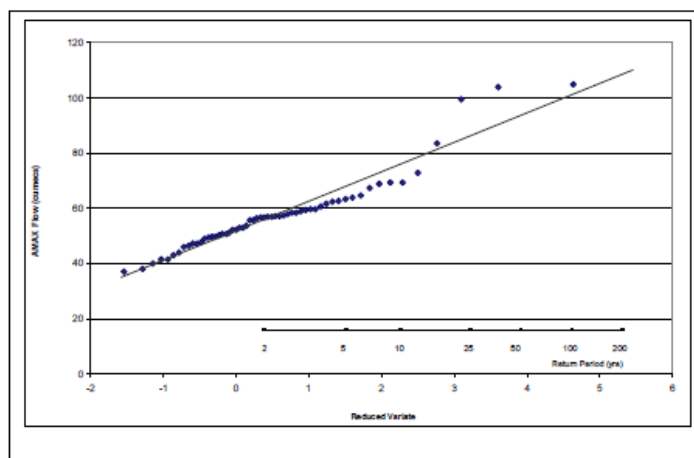
Nearby APSRs: To be confirmed

Jacobs Rating Review required: Yes OPW Station Classification: A2

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26005 – SUCK AT DERRYCAHILL

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954	116.7	21/10/1954
1955	60.7	30/01/1956
1956	91.5	02/01/1957
1957	73.0	15/02/1958
1958	66.0	03/01/1959
1959	94.1	28/12/1959
1960	84.3	07/12/1960
1961	86.7	19/01/1962
1962	77.4	11/12/1962
1963	89.1	25/11/1963
1964	93.2	15/01/1965
1965	100.1	22/11/1965
1966	64.0	31/01/1967
1967	111.0	11/10/1967
1968	135.9	04/11/1968
1969	89.9	23/12/1969
1970	82.7	03/11/1970
1971	64.7	04/04/1972
1972	71.5	15/12/1972
1973	94.9	03/12/1973
1974	93.2	26/01/1975
1975	81.2	11/01/1976
1976	73.0	08/02/1977
1977	109.1	11/11/1977
1978	78.9	20/11/1978
1979	98.3	28/11/1979
1980	78.1	21/12/1980
1981	78.9	13/03/1982
1982	91.5	25/11/1982
1983	101.0	18/01/1984
1984	97.5	24/09/1985
1985	85.1	23/12/1985
1986	100.1	27/11/1986
1987	91.5	05/02/1988
1988	73.0	16/01/1989
1989	102.7	08/02/1990
1990	104.5	30/12/1990
1991	75.9	10/01/1992
1992	89.1	16/06/1993
1993	82.7	17/12/1993
1994	99.2	01/02/1995
1995	85.9	29/10/1995
1996	96.6	23/02/1997
1997	86.7	10/01/1998
1998	82.7	29/10/1998
1999	109.1	26/12/1999
2000	79.6	08/11/2000
2001	101.8	06/02/2002
2002	81.2	12/11/2002
2003	74.1	06/02/2004
2004	97.5	10/01/2005
2005	52.8	25/09/2006
2006	73.7	08/12/2006
2007	89.1	11/12/2007
2008	85.1	26/08/2009
2009	175.2	21/11/2009

Length of AMAX series: 56 years

Gauging Authority: Office of Public Works

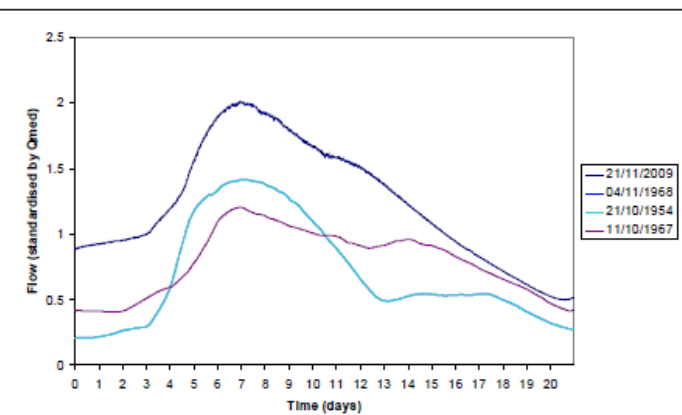
Easting: 182557	Northing: 242372
Catchment: Upper Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 1085.40 km ²
QMED (gauged): 87.86 m ³ /s	AREA (FSU): 1085.38 km ²
QMED (FSU): 93.21 m ³ /s	SAAR (FSU): 1054.40
QMED (predicted): 88.98 m ³ /s	FARL (FSU): 0.98
BFIsoils (FSU): 0.63	S1085: 0.46
URBEXT: 0.23	ARTDRAIN2: N/A
DRAIN2: 0.76	

Comments: Automated velocity-area station installed in 1939 and automated in 1954. Stable silt/sand bed. Natural channel control. Weed growth effects bottom end of rating all year round.

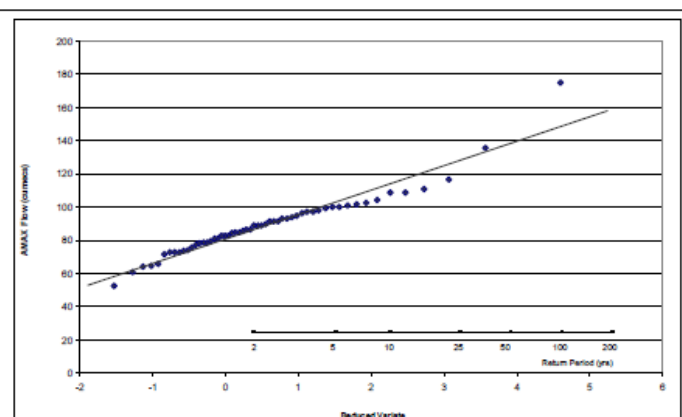
Nearby APSRs: To be confirmed

Jacobs Rating Review required: Yes OPW Station Classification: A2

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26006 – SUCK AT WILLSBROOK

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952	16.2	01/09/1953
1953	30.3	02/11/1953
1954	70.1	20/10/1954
1955	14.6	14/12/1955
1956	22.4	01/01/1957
1957	34.2	12/02/1958
1958	24.5	21/12/1958
1959	22.4	23/12/1959
1960	21.4	22/01/1961
1961	26.8	12/12/1961
1962	17.7	11/12/1962
1963	23.5	26/11/1963
1964	30.3	09/10/1964
1965	41.8	19/11/1965
1966	18.6	11/12/1966
1967	31.6	10/01/1968
1968	68.7	02/11/1968
1969	24.5	23/12/1969
1970	23.5	03/11/1970
1971	18.6	11/01/1972
1972	18.6	12/12/1972
1973	26.8	02/12/1973
1974	21.1	16/01/1975
1975	18.6	10/01/1976
1976	17.5	21/01/1977
1977	24.2	08/11/1977
1978	26.8	16/12/1978
1979	27.9	29/11/1979
1980	31.6	03/11/1980
1981	21.4	06/01/1982
1982	22.1	23/11/1982
1983	22.8	17/01/1984
1984	26.8	16/08/1985
1985	34.2	07/08/1986
1986	27.1	07/12/1986
1987	26.4	20/01/1988
1988	24.9	24/12/1988
1989	32.0	07/02/1990
1990	37.4	24/12/1990
1991	42.3	09/01/1992
1992	32.0	02/12/1992
1993	30.8	09/12/1993
1994	32.4	22/01/1995
1995	54.5	27/10/1995
1996	24.9	25/02/1997
1997	25.3	10/01/1998
1998	29.5	23/10/1998
1999	44.9	36493
2000	26.8	06/12/00 (2)
2001	31.2	04/02/2002
2002	29.1	28/10/2002
2003	34.6	03/02/2004
2004	35.1	09/01/2005
2005	22.4	26/10/2005
2006	43.3	04/12/2006
2007	41.3	10/12/2007
2008	31.3	01/02/2009
2009	65.7	20/11/2009

Length of AMAX series: 58 years

Gauging Authority: Office of Public Works

Easting: 169281	Northing: 275594
Catchment: Suck	Telemetry: Yes
Station Type: Recorder	Catchment Area: 184.80 km ²

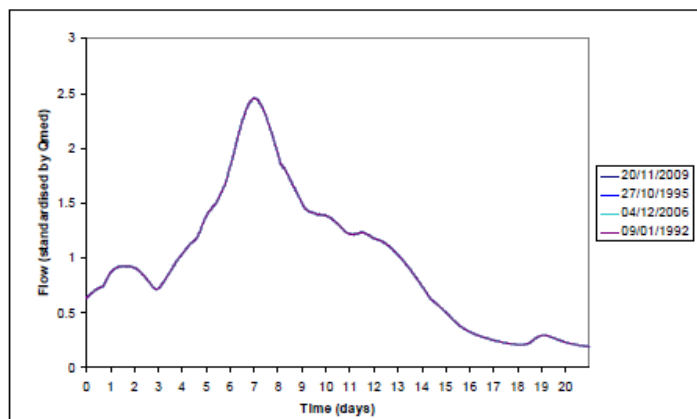
QMED (gauged): 26.76 m ³ /s	AREA (FSU): 184.76 km ²
QMED (FSU): 24.23 m ³ /s	SAAR (FSU): 1120.64
QMED (predicted): 27.87 m ³ /s	FARL (FSU): 0.97
BFIsoils (FSU): 0.49	\$1085: 0.97
URBEXT: 0.55	ARTDRAIN2: N/A
DRAIN2: 0.94	

Comments: Velocity-area station installed in 1939 and automated in 1952. Stable sand/silt bed. Seasonal weed growth. Natural channel control.

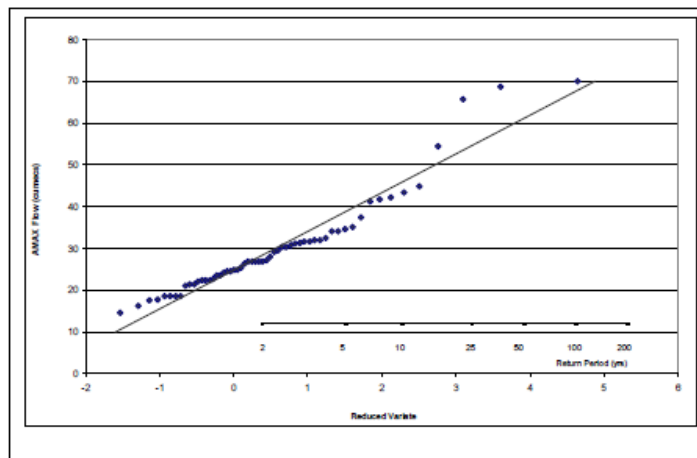
Nearby APSRs: To be confirmed

Jacobs Rating Review required: Yes OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26007 – SUCK AT BELLAGILL

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952	68.3	02/09/1953
1953	76.0	16/11/1953
1954	136.5	20/10/1954
1955	66.9	29/01/1956
1956	112.2	31/12/1956
1957	115.3	15/02/1958
1958	69.0	02/01/1959
1959	98.9	29/12/1959
1960	87.2	06/12/1960
1961	88.2	14/12/1961
1962	82.7	12/12/1962
1963	94.7	26/11/1963
1964	103.3	11/10/1964
1965	110.7	21/11/1965
1966	72.4	28/02/1967
1967	107.7	11/10/1967
1968	147.8	25/147
1969	90.6	23/12/1969
1970	88.6	03/11/1970
1971	61.6	12/01/1972
1972	71.7	15/12/1972
1973	92.1	03/12/1973
1974	93.5	26/01/1975
1975	81.9	11/01/1976
1976	76.8	09/02/1977
1977	109.2	11/11/1977
1978	79.7	14/12/1978
1979	93.5	28/11/1979
1980	79.0	14/12/1980
1981	79.7	14/03/1982
1982	88.2	25/11/1982
1983	104.7	18/01/1984
1984	85.0	24/09/1985
1985	81.2	23/12/1985
1986	97.6	27/11/1986
1987	86.6	07/02/1988
1988	66.2	29/12/1988
1989	120.0	08/02/1990
1990	99.0	07/01/1991
1991	81.2	10/01/1992
1992	88.2	16/06/1993
1993	85.0	16/12/1993
1994	106.2	31/01/1995
1995	83.5	30/10/1995
1996	100.4	22/02/1997
1997	87.3	11/01/1998
1998	84.2	20/01/1999
1999	123.2	29/12/1999
2000	81.9	08/11/2000
2001	115.3	06/02/2002
2002	84.3	31/10/2002
2003	73.3	06/02/2004
2004	104.7	11/01/2005
2005	45.1	24/09/2006
2006	129.7	08/12/2006
2007	97.2	11/12/2007
2008	85.8	02/02/2009
2009	224.3	21/11/2009

Length of AMAX series: 58 years

Gauging Authority: Office of Public Works

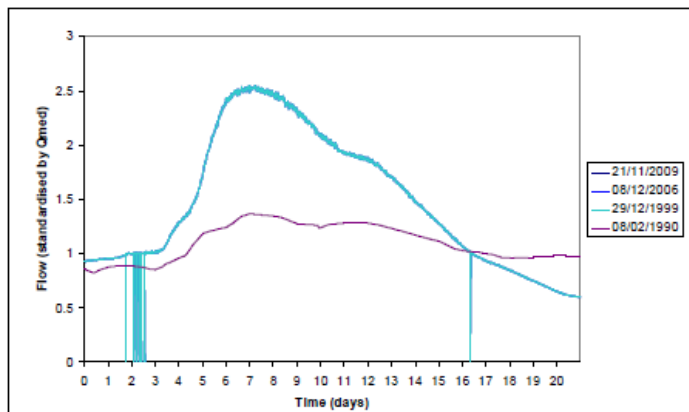
Easting: 184175	Northing: 234570
Catchment: Suck	Telemetry: Yes
Station Type: Recorder	Catchment Area: 1207.20 km ²
QMED (gauged): 88.15 m ³ /s	AREA (FSU): 1207.22 km ²
QMED (FSU): 88.15 m ³ /s	SAAR (FSU): 1045.62
QMED (predicted): 102.87 m ³ /s	FARL (FSU): 0.98
BFIsoils (FSU): 0.58	S1085: 0.41
URBEXT: 0.21	ARTDRAIN2: N/A
DRAIN2: 0.75	

Comments: Velocity-area station installed in 1940 and automated in 1952. Stable gravel bed and seasonal weed growth. Natural channel control at all flows.

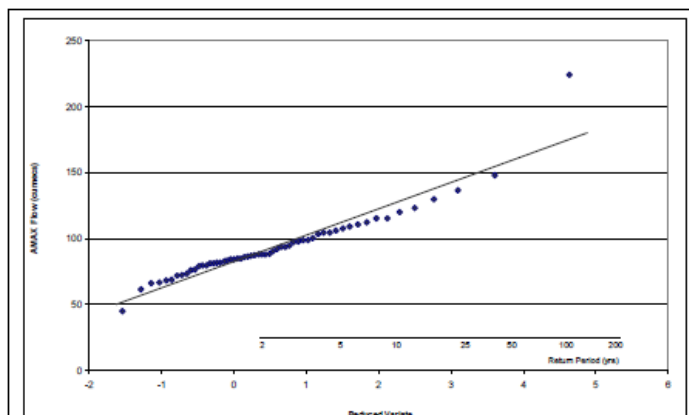
Nearby APSRs: To be confirmed

Jacobs Rating Review required: Yes OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26008 – RINN AT JOHNSTON'S BR.

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955	17.3	30/01/1956
1956	26.6	02/01/1957
1957	20.3	14/08/1958
1958	18.5	02/01/1959
1959	17.1	03/02/1960
1960	22.9	22/01/1961
1961	24.1	12/12/1961
1962	20.9	12/12/1962
1963	25.9	25/11/1963
1964	29.5	11/10/1964
1965	41.0	18/11/1965
1966	17.1	16/12/1966
1967	27.0	10/01/1968
1968	33.5	03/11/1968
1969	23.7	23/12/1969
1970	21.8	04/11/1970
1971	20.1	22/11/1971
1972	15.6	11/12/1972
1973	20.5	08/09/1974
1974	7.5	25/01/1975
1975	21.0	10/01/1976
1976	20.9	22/02/1977
1977	21.2	12/11/1977
1978	22.4	29/12/1978
1979	22.0	28/11/1979
1980	21.0	21/12/1980
1981	21.0	13/03/1982
1982	20.4	25/11/1982
1983	25.7	17/01/1984
1984	23.7	23/09/1985
1985	23.5	08/08/1986
1986	21.6	19/12/1986
1987	28.7	23/10/1987
1988	23.7	27/12/1988
1989	29.7	08/02/1990
1990	29.7	07/01/1991
1991	21.2	10/01/1992
1992	29.5	03/12/1992
1993	20.7	28/02/1994
1994	23.7	11/02/1995
1995	24.9	28/10/1995
1996	23.1	21/02/1997
1997	22.9	04/01/1998
1998	22.2	18/10/1998
1999	29.7	26/12/1999
2000	21.2	10/12/2000
2001	27.6	06/02/2002
2002	26.6	28/10/2002
2003	20.7	04/02/2004
2004	26.1	10/01/2005
2005	17.8	14/03/2006
2006	27.8	09/12/2006
2007	28.4	09/12/2007
2008	22.6	02/02/2009
2009	40.4	21/11/2009

Length of AMAX series: 55 years

1997-Clock stopped during peak flows

Gauging Authority: Office of Public Works

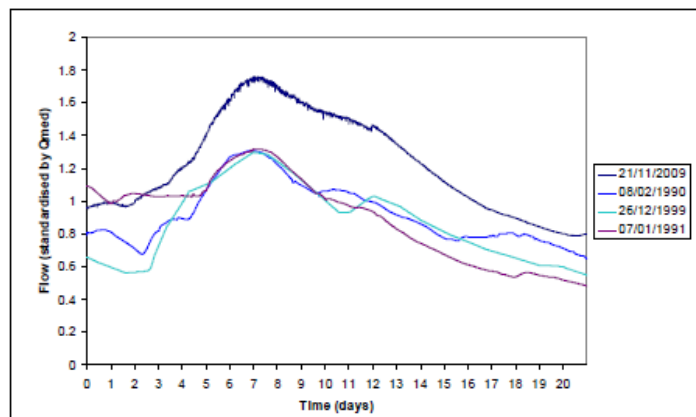
Easting: 209006	Northing: 286138
Catchment: Upper Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 280.60 km ²
QMED (gauged): 22.94 m ³ /s	AREA (FSU): 280.31 km ²
QMED (FSU): 22.66 m ³ /s	SAAR (FSU): 1035.47
QMED (predicted): 25.74 m ³ /s	FARL (FSU): 0.86
BFIsols (FSU): 0.59	S1085: 1.11
URBEXT: 0.26	ARTDRAIN2: N/A
DRAIN: 1.13	

Comments: Automated velocity-area station installed in 1939 and automated in 1955. Stable stony bed. Natural channel control.

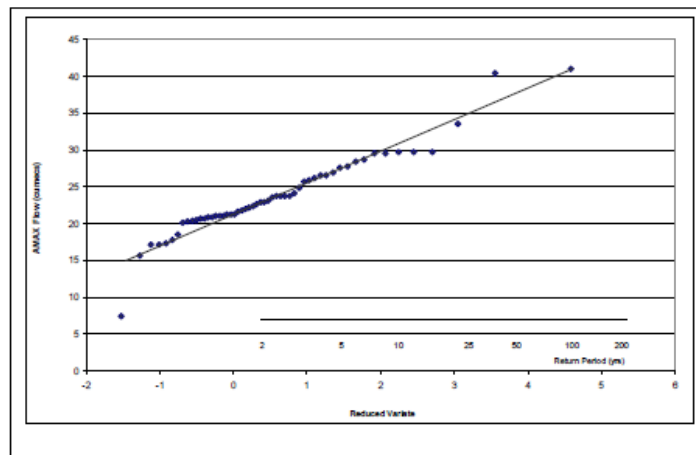
Nearby APSRs: To be confirmed

Jacobs Rating Review required: Yes OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26009 – BLACK [South Leitrim] AT BELLANTRA BR.

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970	16.6	05/08/1971
1971	16.6	21/11/1971
1972	14.2	13/11/1972
1973	17.5	05/11/1973
1974	13.4	22/01/1975
1975	11.9	09/01/1976
1976	13.2	20/02/1977
1977	14.2	02/02/1978
1978	16.0	28/12/1978
1979	13.4	26/11/1979
1980	12.3	25/12/1980
1981	10.3	12/03/1982
1982	12.0	01/02/1983
1983	13.7	09/12/1983
1984	12.3	19/09/1985
1985	15.8	07/08/1986
1986	11.8	25/11/1986
1987	18.8	22/10/1987
1988	12.1	25/12/1988
1989	13.1	07/02/1990
1990	13.8	17/03/1991
1991	10.3	08/01/1992
1992	14.4	02/12/1992
1993	11.9	09/12/1993
1994	12.5	23/01/1995
1995	13.1	25/10/1995
1996	12.1	18/02/1997
1997	12.0	03/04/1998
1998	12.0	25/10/1998
1999	15.5	22/12/1999
2000	11.0	30/10/2000
2001	13.3	05/02/2002
2002	18.3	22/10/2002
2003	12.0	29/11/2003
2004	16.7	09/01/2005
2005	12.2	22/09/2006
2006	14.2	26/10/2006
2007	13.0	17/11/2008
2008	14.9	11/10/2008
2009	19.5	20/11/2009

Length of AMAX series: 40 years

Gauging Authority: Office of Public Works

Easting: 212848

Northing: 289416

Catchment: Upper Shannon

Telemetry: No

Station Type: Recorder

Catchment Area: 90.50 km²

QMED (gauged): 13.26 m³/s

AREA (FSU): 98.22 km²

QMED (FSU): 13.22 m³/s

SAAR (FSU): 1018.79

QMED (predicted): 14.26 m³/s

FARL (FSU): 0.94

BFIsoils (FSU): 0.54

S1085: 2.99

URBEXT: N/A

ARTDRAIN2: N/A

DRAIN2: 0.96

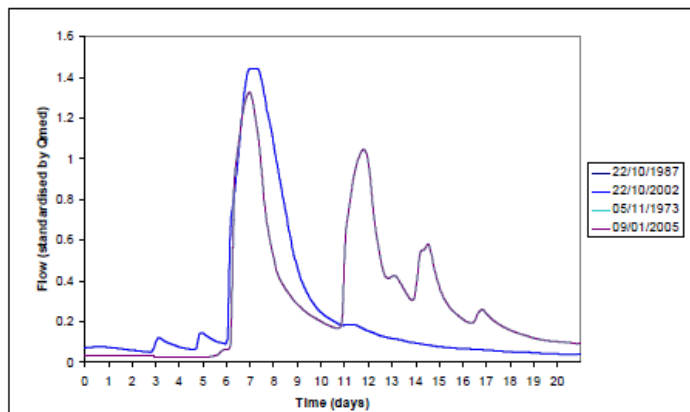
Comments: Automated velocity-area station installed in 1939 and automated in 1957. Unstable gravel bed. Natural channel control. Seasonal weed effects at lower end of rating.

Nearby APSRs: To be confirmed

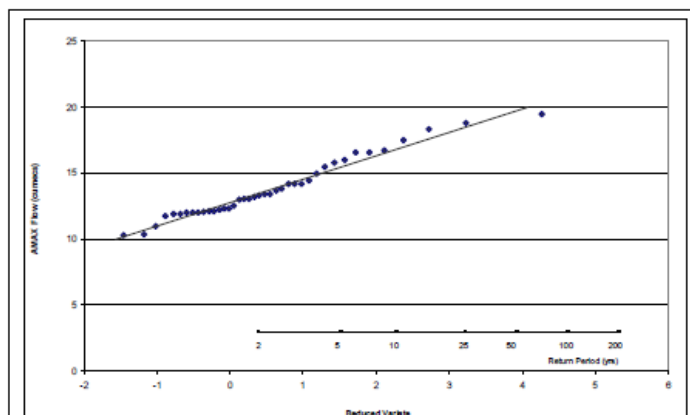
Jacobs Rating Review required: No

OPW Station Classification: A2

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26010 – CLOONE AT RIVERSTOWN

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970	12.7	28/11/1970
1971	16.2	21/11/1971
1972	10.6	19/02/1973
1973	14.3	05/11/1973
1974	11.1	22/01/1975
1975	13.2	03/01/1976
1976	10.5	18/02/1977
1977	12.5	02/03/1978
1978	15.2	28/12/1978
1979	12.5	26/11/1979
1980	14.5	23/10/1980
1981	12.1	04/01/1982
1982	13.6	23/11/1982
1983	12.8	17/01/1984
1984	12.7	16/08/1985
1985	16.8	07/08/1986
1986	17.4	25/11/1986
1987	27.2	22/10/1987
1988	19.9	23/12/1988
1989	15.5	29/10/1989
1990	18.8	06/01/1991
1991	17.8	09/01/1992
1992	27.2	10/04/1993
1993	16.8	09/12/1993
1994	15.9	14/11/1994
1995	25.7	28/10/1995
1996	19.0	18/02/1997
1997	15.9	07/03/1998
1998	17.2	25/10/1998
1999	19.4	28/11/1999
2000	15.6	28/10/2000
2001	18.4	05/02/2002
2002	24.8	23/10/2002
2003	15.6	02/02/2004
2004	19.4	08/01/2005
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 35 years

Gauging Authority: Office of Public Works

Easting: 212182

Northing: 297961

Catchment: Upper Shannon

Telemetry: Yes

Station Type: Recorder

Catchment Area: 94.50 km²

QMED (gauged): 15.89 m³/s

AREA (FSU): 94.53 km²

QMED (FSU): 15.89 m³/s

SAAR (FSU): 1064.26

QMED (predicted): 14.14 m³/s

FARL (FSU): 0.94

BFIsols (FSU): 0.58

S1085: 1.91

URBEXT: N/A

ARTDRAIN2: N/A

DRAIND: 1.35

Comments: Velocity-area station installed in 1939 and automated in 1956. Natural channel control. Unstable rock bed. Weed growth all year.

Nearby APSRs: To be confirmed

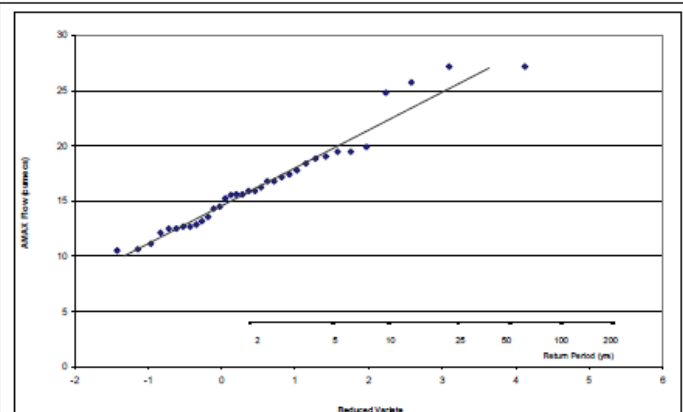
Jacobs Rating Review required: No

OPW Station Classification: B

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26012 – BOYLE AT TINACARRA

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957	18.7	17/02/1958
1958	20.5	06/01/1959
1959	30.7	29/12/1959
1960	22.4	07/02/1961
1961	26.4	15/12/1961
1962	17.8	16/12/1962
1963	27.4	28/11/1963
1964	42.1	20/01/1965
1965	30.7	14/12/1965
1966	24.3	20/12/1966
1967	29.6	19/01/1968
1968	44.7	06/11/1968
1969	26.4	24/02/1970
1970	24.3	08/11/1970
1971	20.5	24/11/1971
1972	29.2	15/12/1972
1973	34.3	15/01/1974
1974	47.8	30/01/1975
1975	30.2	12/01/1976
1976	26.5	13/02/1977
1977	38.9	14/11/1977
1978	31.7	13/12/1978
1979	41.0	13/12/1979
1980	40.5	24/12/1980
1981	35.0	18/03/1982
1982	36.9	29/11/1982
1983	43.5	08/02/1984
1984	35.8	31/08/1985
1985	34.3	25/12/1985
1986	42.2	26/11/1986
1987	45.6	09/02/1988
1988	35.4	03/03/1989
1989	66.6	09/02/1990
1990	53.7	08/01/1991
1991	49.6	10/01/1992
1992	44.3	03/12/1992
1993	41.8	03/01/1994
1994	50.5	31/01/1995
1995	43.0	28/10/1995
1996	46.9	26/02/1997
1997	48.2	11/01/1998
1998	49.1	29/10/1998
1999	61.5	26/12/1999
2000	46.5	14/12/2000
2001	62.5	12/02/2002
2002	47.1	11/11/2002
2003	47.1	05/02/2004
2004	59.7	12/01/2005
2005	26.8	24/05/2006
2006	65.5	10/12/2006
2007	60.5	11/12/2007
2008	52.1	01/02/2009
2009	109.8	25/11/2009

Length of AMAX series: 53 years

Gauging Authority: Office of Public Works

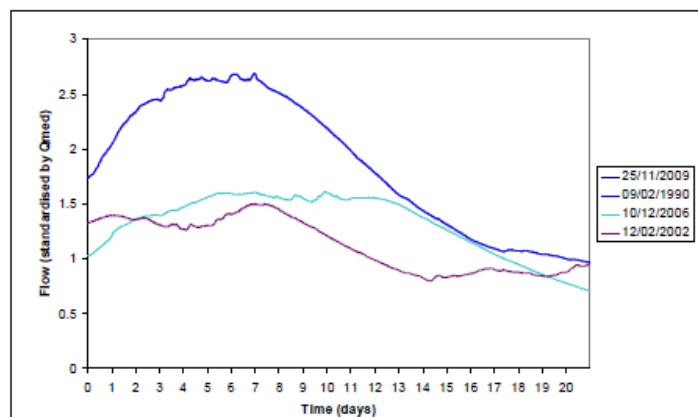
Easting: 177054	Northing: 301854
Catchment: Boyle	Telemetry: Yes
Station Type: Recorder	Catchment Area: 519.90 km ²
QMED (gauged): 40.95 m ³ /s	AREA (FSU): 519.92 km ²
QMED (FSU): 47.68 m ³ /s	SAAR (FSU): 1142.97
QMED (predicted): 36.79 m ³ /s	FARL (FSU): 0.82
BFIsols (FSU): 0.69	S1085: 0.34
URBEXT: 0.32	ARTDRAIN2: 53.00
DRAIN2: 0.89	

Comments: Automated velocity-area station installed in 1941 and automated in 1951. Stable rock bed. Natural channel control.

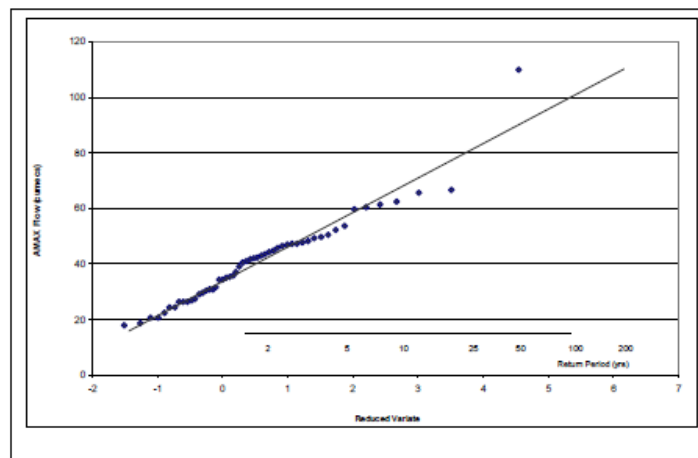
Nearby APSRs: To be confirmed

Jacobs Rating Review required: Yes OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26014 – LUNG AT BANADA BRIDGE

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975	13.7	02/01/1976
1976	12.6	10/02/1977
1977	20.3	10/11/1977
1978	21.9	15/11/1978
1979	21.7	26/11/1979
1980	27.7	02/11/1980
1981	19.9	12/03/1982
1982	18.6	23/11/1982
1983	17.5	16/10/1983
1984	12.8	28/11/1984
1985	N/A	N/A
1986	N/A	N/A
1987	N/A	N/A
1988	N/A	N/A
1989	46.7	06/02/1990
1990	37.0	06/01/1991
1991	47.9	08/01/1992
1992	31.3	01/12/1992
1993	43.6	08/12/1993
1994	42.0	21/01/1995
1995	54.8	26/10/1995
1996	38.3	21/02/1997
1997	36.8	10/01/1998
1998	54.0	24/10/1998
1999	70.9	28/11/1999
2000	29.8	12/12/2000
2001	44.1	10/03/2002
2002	39.9	27/10/2002
2003	41.0	01/02/2004
2004	47.5	08/01/2005
2005	27.1	21/05/2006
2006	48.0	04/12/2006
2007	51.6	08/12/2007
2008	19.3	11/10/2008
2009	81.3	19/11/2009

Length of AMAX series: 31 years

1985-1988 – drainage scheme

Gauging Authority: Office of Public Works

Easting: 163444

Northing: 294272

Catchment: Boyle

Telemetry: Yes

Station Type: Recorder

Catchment Area: 215.10 km²

QMED (gauged): 37.04 m³/s

AREA (FSU): 215.14 km²

QMED (FSU): 42.82 m³/s

SAAR (FSU): 1198.70

QMED (predicted): 25.23 m³/s

FARL (FSU): 0.94

BFIsoils (FSU): 0.63

S1085: 0.33

URBEXT: 0.32

ARTDRAIN2: 50.00

DRAIN2: 0.96

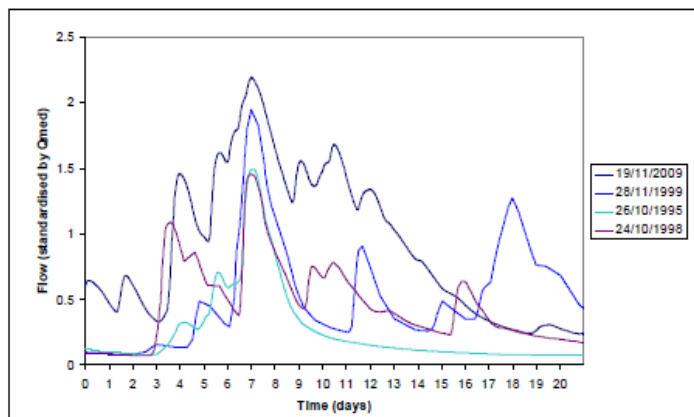
Comments: Automated velocity- area station installed in 1940, automated in 53. Natural channel with a gravel shoals combined with bridge as control.

Nearby APSRs: To be confirmed

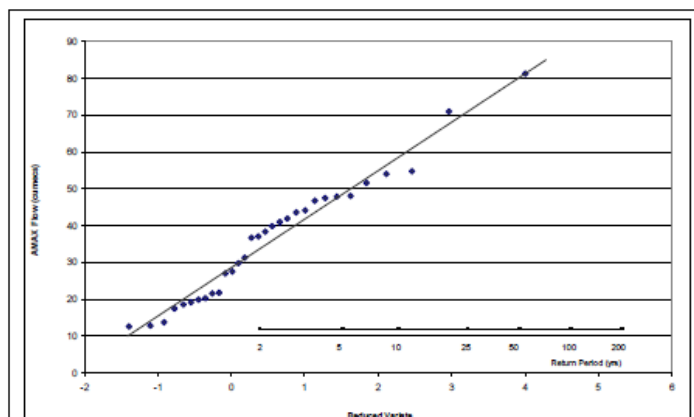
Jacobs Rating Review required: Yes

OPW Station Classification: B

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26015 – ESLIN AT CORRASCOFFY

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972	6.8	23/08/1973
1973	6.8	06/11/1973
1974	6.4	23/01/1975
1975	6.6	03/01/1976
1976	6.8	18/02/1977
1977	6.4	11/12/1977
1978	7.1	29/12/1978
1979	6.6	27/11/1979
1980	6.9	23/10/1980
1981	6.9	04/01/1982
1982	7.1	25/11/1982
1983	6.8	17/01/1984
1984	8.2	22/09/1985
1985	8.2	08/08/1986
1986	5.9	21/08/1987
1987	8.9	23/10/1987
1988	6.5	24/12/1988
1989	8.1	07/02/1990
1990	6.4	07/01/1991
1991	5.4	09/01/1992
1992	5.9	10/04/1993
1993	5.6	12/12/1993
1994	5.2	29/01/1995
1995	8.3	27/10/1995
1996	5.8	21/02/1997
1997	5.0	18/10/1997
1998	5.8	29/10/1998
1999	7.0	26/12/1999
2000	5.0	30/10/2000
2001	6.5	05/02/2002
2002	6.2	27/10/2002
2003	5.4	03/02/2004
2004	6.8	10/01/2005
2005	5.1	14/03/2006
2006	6.3	09/12/2006
2007	6.3	23/01/2008
2008	6.8	25/08/2009
2009	10.7	21/11/2009

Length of AMAX series: 38 years

Gauging Authority: Office of Public Works

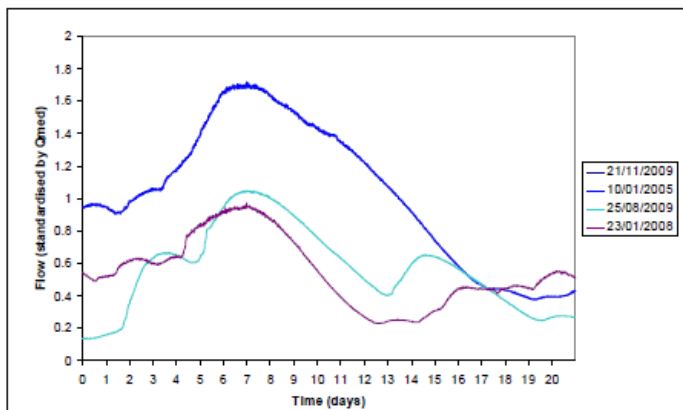
Easting: 205385	Northing: 293010
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 59.50 km ²
QMED (gauged): 6.56 m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

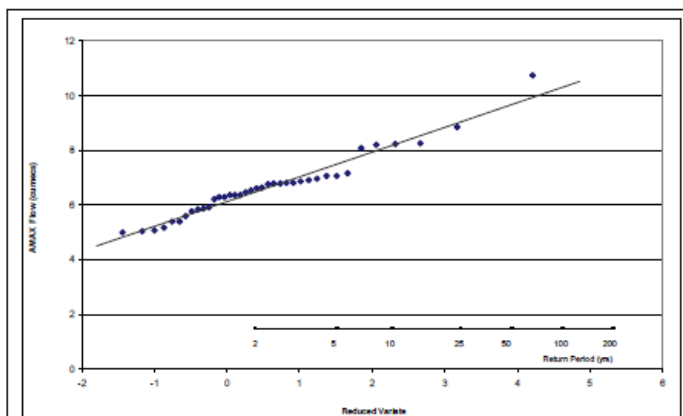
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26017 – MOUNTAIN AT GILLSTOWN

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956	13.5	02/01/1957
1957	11.2	02/11/1957
1958	9.8	07/01/1959
1959	12.4	30/12/1959
1960	10.7	07/12/1960
1961	11.8	11/12/1961
1962	9.5	16/03/1963
1963	12.7	25/11/1963
1964	15.8	20/01/1965
1965	14.8	21/11/1965
1966	10.9	16/12/1966
1967	13.1	18/01/1968
1968	13.3	22/01/1969
1969	12.0	22/12/1969
1970	9.9	02/11/1970
1971	8.7	02/01/1972
1972	9.1	14/12/1972
1973	10.5	16/02/1974
1974	13.1	31/01/1975
1975	10.2	11/01/1976
1976	11.1	23/02/1977
1977	10.8	17/11/1977
1978	10.8	15/12/1978
1979	11.7	15/12/1979
1980	11.1	25/12/1980
1981	11.3	13/03/1982
1982	11.9	25/11/1982
1983	11.9	06/02/1984
1984	11.2	03/09/1985
1985	9.7	07/08/1986
1986	12.7	19/12/1986
1987	11.8	05/02/1988
1988	9.5	12/04/1989
1989	14.4	11/02/1990
1990	13.9	07/01/1991
1991	10.2	10/02/1992
1992	11.9	04/12/1992
1993	12.0	03/01/1994
1994	12.8	01/02/1995
1995	11.1	30/10/1995
1996	11.4	27/02/1997
1997	12.2	11/01/1998
1998	12.7	02/11/1998
1999	16.1	27/12/1999
2000	13.7	14/12/2000
2001	13.6	13/02/2002
2002	13.7	15/11/2002
2003	8.7	05/02/2004
2004	12.4	11/01/2005
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 49 years

Chart traces up to 1970 are faint - peak levels may be unreliable.

Gauging Authority: Office of Public Works

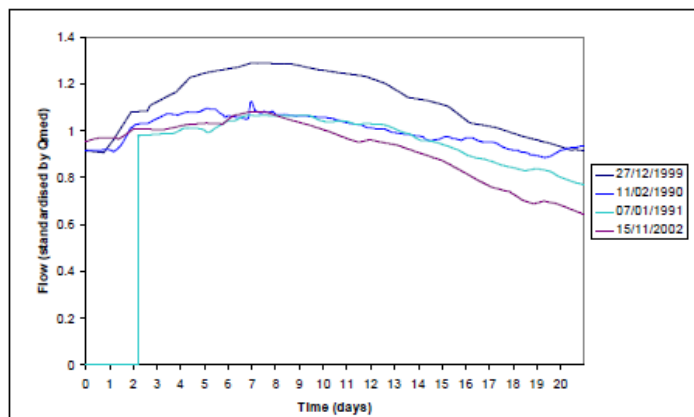
Easting: 196638	Northing: 283325
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 202.10 km ²
QMED (gauged): 11.79 m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsols (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

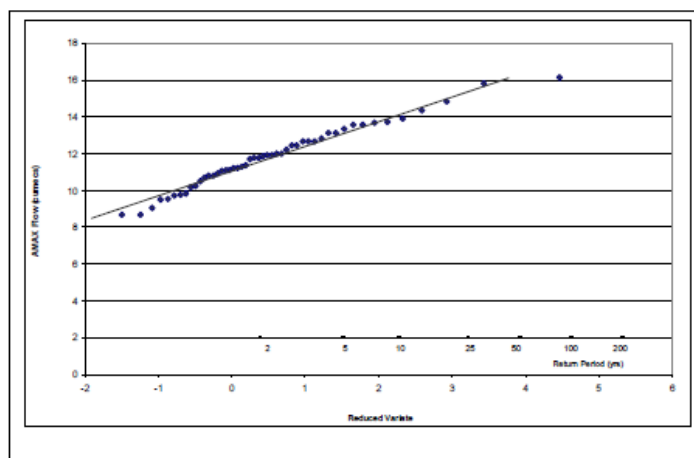
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26018 – OWENURE AT BELLAVAHAN

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956	10.0	24/12/1956
1957	7.1	02/11/1957
1958	7.4	04/01/1959
1959	9.5	04/02/1960
1960	8.1	22/01/1961
1961	9.9	13/12/1961
1962	7.0	18/03/1963
1963	10.1	25/11/1963
1964	13.1	20/01/1965
1965	12.9	19/11/1965
1966	8.5	16/12/1966
1967	10.5	16/01/1968
1968	11.2	04/11/1968
1969	10.7	23/12/1969
1970	6.5	09/10/1970
1971	6.3	03/04/1972
1972	8.6	22/12/1972
1973	7.6	16/02/1974
1974	10.5	31/02/1975
1975	7.3	12/01/1976
1976	7.5	23/02/1977
1977	7.9	15/11/1977
1978	7.4	14/12/1978
1979	7.9	06/12/1979
1980	6.2	25/10/1980
1981	8.4	14/03/1982
1982	9.2	25/11/1982
1983	10.0	08/02/1984
1984	7.2	04/09/1985
1985	7.2	17/12/1985
1986	9.4	19/12/1986
1987	9.0	11/02/1987
1988	8.2	29/12/1988
1989	12.9	10/02/1990
1990	14.0	07/01/1991
1991	8.1	10/01/1992
1992	9.8	04/12/1992
1993	8.7	04/01/1994
1994	10.1	01/02/1995
1995	10.1	28/10/1995
1996	9.9	26/02/1997
1997	9.6	10/01/1998
1998	8.7	04/11/1998
1999	12.6	27/12/1999
2000	8.6	10/12/2000
2001	11.1	12/02/2002
2002	9.9	12/11/2002
2003	7.7	05/02/2004
2004	10.6	11/01/2005
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: years

Gauging Authority: Office of Public Works

Easting: 195114	Northing: 286486
Catchment: Upper Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 104.80 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): 119.48 km ²
QMED (FSU): 8.95 m ³ /s	SAAR (FSU): 1043.90
QMED (predicted): 6.45 m ³ /s	FARL (FSU): 0.76
BFIsoils (FSU): 0.65	\$1085: 0.55
URBEXT: 0.34	ARTDRAIN2: N/A
DRAIN2: 0.83	

Comments: Velocity-area station installed in 1939 and automated in 1956. It is a stable, confined channel u/s of lake

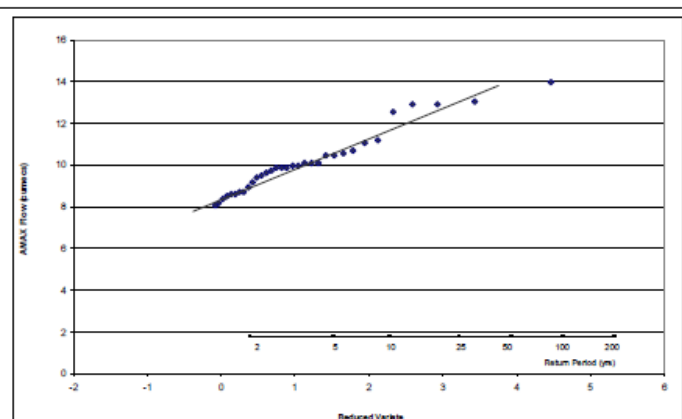
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: A1

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26019 – CAMLIN AT MULLAGH

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953	23.1	04/12/1953
1954	36.7	10/12/1954
1955	20.4	07/09/1956
1956	23.4	01/01/1957
1957	21.7	01/11/1957
1958	16.5	20/12/1958
1959	22.0	31/01/1960
1960	24.0	22/01/1961
1961	20.6	11/12/1961
1962	22.6	06/11/1962
1963	25.5	25/11/1963
1964	32.8	11/01/1965
1965	26.4	27/11/1965
1966	17.0	17/08/1967
1967	29.2	10/01/1968
1968	33.5	03/11/1968
1969	24.3	22/12/1969
1970	20.4	29/11/1970
1971	19.6	22/11/1971
1972	15.9	13/11/1972
1973	31.2	06/11/1973
1974	24.9	15/01/1975
1975	20.4	11/01/1976
1976	21.2	22/02/1977
1977	15.0	12/11/1977
1978	18.8	29/12/1978
1979	21.2	28/11/1979
1980	18.5	25/12/1980
1981	17.9	05/01/1982
1982	21.2	02/02/1983
1983	23.4	10/12/1983
1984	23.4	16/08/1985
1985	27.0	08/08/1986
1986	18.3	19/12/1986
1987	37.0	23/10/1987
1988	18.6	25/12/1988
1989	26.4	08/02/1990
1990	N/A	N/A
1991	14.6	09/01/1992
1992	18.2	15/06/1993
1993	16.2	09/12/1993
1994	17.3	14/12/1994
1995	17.7	27/10/1995
1996	17.6	20/02/1997
1997	17.1	09/01/1998
1998	17.6	22/09/1999
1999	31.8	25/12/1999
2000	17.1	05/11/2000
2001	22.6	05/02/2002
2002	31.5	23/10/2002
2003	16.9	03/02/2004
2004	28.3	09/01/2005
2005	16.2	14/01/2006
2006	22.6	05/12/2006
2007	26.3	10/12/2007
2008	20.9	01/02/2009
2009	51.0	20/11/2009

Length of AMAX series: 56 years

Post-1990 data uncertain.

Gauging Authority: Office of Public Works

Easting: 211674

Northing: 275911

Catchment: Camlin

Telemetry: Yes

Station Type: Recorder

Catchment Area: 253.00 km²

QMED (gauged): 21.18 m³/s

AREA (FSU): 252.96 km²

QMED (FSU): 21.18 m³/s

SAAR (FSU): 979.62

QMED (predicted): 23.53 m³/s

FARL (FSU): 0.99

BFIsoils (FSU): 0.60

S1085: 0.50

URBEXT: 1.29

ARTDRAIN2: N/A

DRAIN2: 0.91

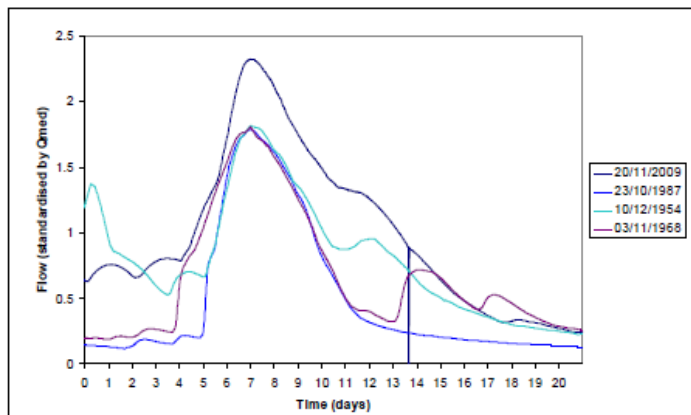
Comments: Automated velocity- area station installed in 1939, automated in 1953. Natural channel with a stable gravel bed.

Nearby APSRs: To be confirmed

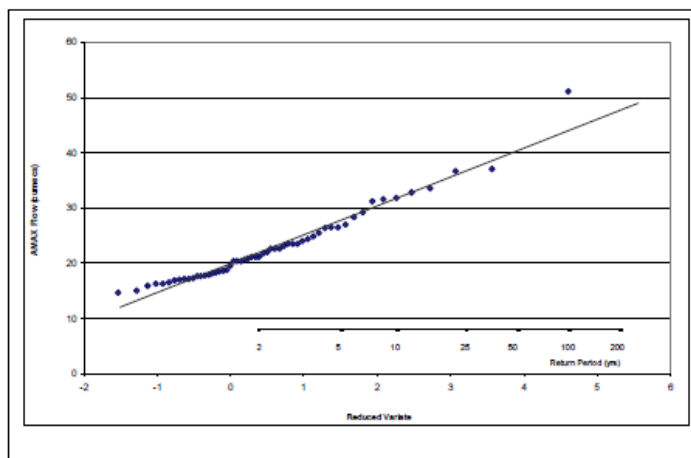
Jacobs Rating Review required: Yes

OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26020 – CAMLIN AT ARGAR

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972	4.4	14/12/1972
1973	12.8	09/08/1974
1974	13.8	15/01/1975
1975	8.5	01/11/1976
1976	9.1	21/02/1977
1977	9.3	13/11/1977
1978	8.7	28/12/1978
1979	10.8	27/11/1979
1980	9.8	23/10/1980
1981	8.3	01/04/1982
1982	10.0	02/01/1983
1983	10.7	12/09/1983
1984	11.1	20/08/1985
1985	11.9	08/06/1986
1986	10.1	16/12/1986
1987	15.6	22/10/1987
1988	10.7	24/12/1988
1989	13.1	02/08/1990
1990	13.9	20/03/1991
1991	11.9	22/12/1991
1992	14.3	14/06/1993
1993	11.5	12/09/1993
1994	13.3	13/12/1994
1995	12.4	26/10/1995
1996	11.8	19/02/1997
1997	11.8	13/10/1997
1998	10.8	19/01/1999
1999	14.5	23/12/1999
2000	8.5	10/11/2000
2001	12.4	04/02/2002
2002	8.5	23/10/2002
2003	7.4	03/02/2004
2004	11.4	09/01/2005
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 33 years

Gauging Authority: Office of Public Works

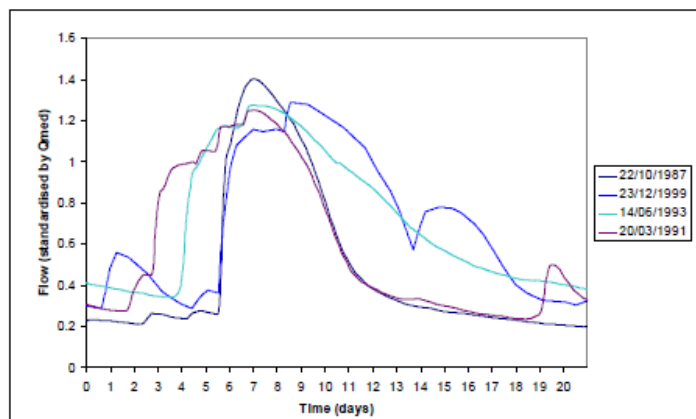
Easting: 218098	Northing: 279325
Catchment: Upper Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 122.40 km ²
QMED (gauged): 11.12 m ³ /s	AREA (FSU): 122.44 km ²
QMED (FSU): 11.12 m ³ /s	SAAR (FSU): 1003.36
QMED (predicted): 7.94 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.56	\$1085: 7.48
URBEXT: 0.07	ARTDRAIN2: N/A
DRAIN2: 0.04	

Comments: Velocity-area station installed in 1939 and automated in 1957. Natural channel control. Unstable sand bed. Seasonal weed growth all year.

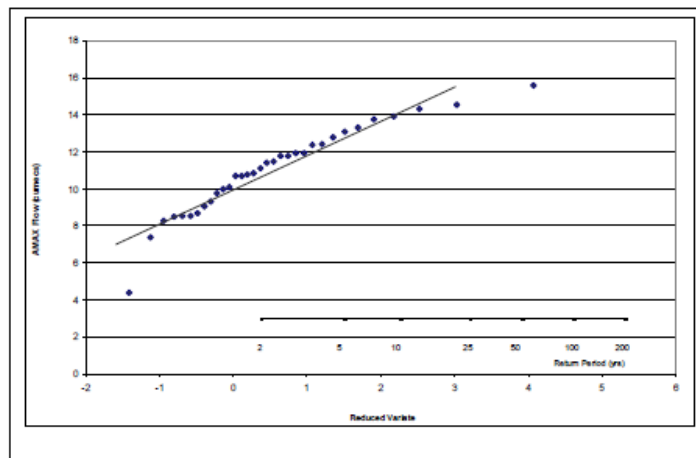
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: A1

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26021 – INNY AT BALLYMAHON

Annual Maxima Series (Source: OPW)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975	72.5	09/01/1976
1976	93.2	20/02/1977
1977	100.6	04/02/1978
1978	127.4	27/12/1978
1979	101.9	15/12/1979
1980	100.9	09/06/1981
1981	94.5	03/01/1982
1982	118.0	31/01/1983
1983	110.2	16/01/1984
1984	111.6	15/12/1984
1985	84.1	06/08/1986
1986	95.5	18/12/1986
1987	110.9	22/10/1987
1988	73.4	23/12/1988
1989	120.9	06/02/1990
1990	92.5	21/03/1991
1991	85.3	08/01/1992
1992	93.2	09/04/1993
1993	112.3	27/02/1994
1994	126.0	31/01/1995
1995	93.8	25/10/1995
1996	104.7	18/02/1997
1997	104.0	09/01/1998
1998	100.6	16/01/1999
1999	130.4	25/12/1999
2000	108.8	06/11/2000
2001	123.1	11/02/2002
2002	100.6	22/10/2002
2003	88.6	15/01/2004
2004	121.6	08/01/2005
2005	92.5	01/04/2006
2006	128.2	11/12/2006
2007	111.6	29/12/2007
2008	115.2	31/01/2009
2009	161.9	20/11/2009

Length of AMAX series: 35 years

1975 incomplete hydrological year
Hydrometric years 1978, 1982, 1987, 1989, 1993, 1996, 2003 & 2004 -water level estimated due to recorder malfunction.

Gauging Authority: Office of Public Works

Easting: 216107	Northing: 256987
Catchment: Inny	Telemetry: No
Station Type: Recorder	Catchment Area: 1098.80 km ²

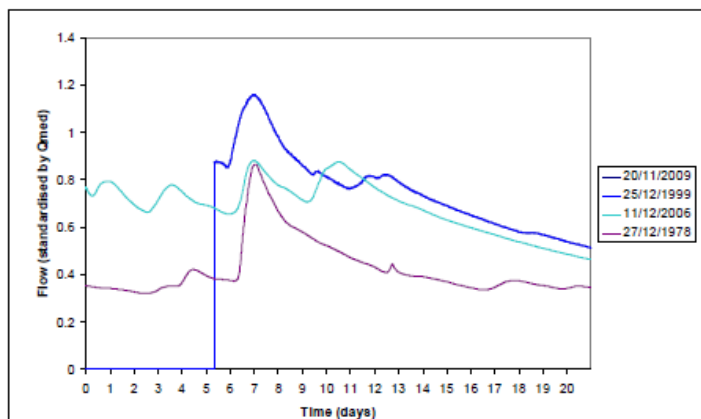
QMED (gauged): 103.97 m ³ /s	AREA (FSU): 1098.78 km ²
QMED (FSU): 66.34 m ³ /s	SAAR (FSU): 945.25
QMED (predicted): 44.58 m ³ /s	FARL (FSU): 0.81
BFIsoils (FSU): 0.75	S1085: 0.20
URBEXT: 0.41	ARTDRAIN2: 63.00
DRAIN2: 0.74	

Comments: Velocity-area station installed in 1939 and automated in 1965. Open channel with natural control.

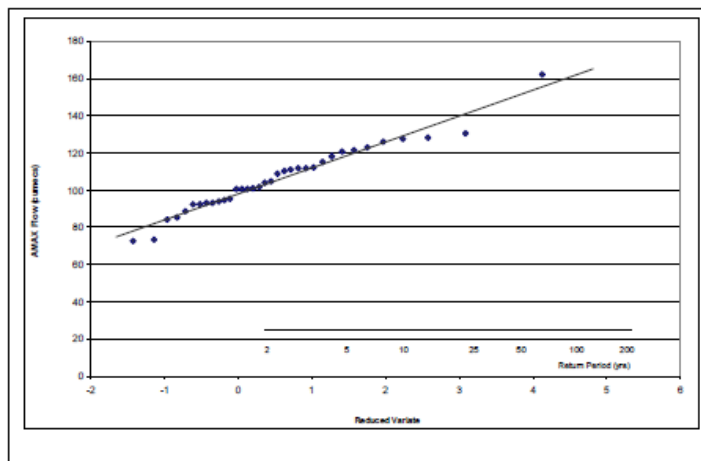
Nearby APSRs: To be confirmed

Jacobs Rating Review required: Yes OPW Station Classification: A2

Normalised Hydrographs



Flood Frequency (EV1 with Gringorten plotting positions)



26022 – FALLAN AT KILMORE

Annual Maxima Series (Source: OPW)

Gauging Authority: Office of Public Works

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972	3.2	13/11/1972
1973	7.3	05/11/1973
1974	6.3	07/01/1975
1975	5.7	10/01/1976
1976	5.0	21/02/1977
1977	4.8	02/03/78&10/11/77
1978	8.2	28/12/1978
1979	7.8	27/11/1979
1980	6.7	23/10/1980
1981	8.1	04/01/1982
1982	9.2	01/02/1983
1983	8.2	10/12/1983
1984	6.1	15/12/84&16/08/85
1985	8.2	07/08/1986
1986	6.5	22/09/1987
1987	11.1	22/10/1987
1988	7.0	10/03/1989
1989	10.3	07/02/1990
1990	9.8	29/12/1990
1991	4.4	23/12/1991
1992	6.0	13/06/1993
1993	5.2	28/02/1994
1994	5.3	15/01/1995
1995	4.5	27/10/1995
1996	6.7	20/02/1997
1997	4.9	09/01/1998
1998	4.2	22/09/1999
1999	8.9	24/12/1999
2000	4.7	07/11/2000
2001	4.6	27/02/2002
2002	8.3	12/10/2002
2003	4.1	03/02/2004
2004	7.9	09/01/2005
2005	4.3	02/04/2006
2006	6.8	05/12/2006
2007	5.3	09/12/2007
2008	4.2	01/02/2009
2009	10.3	20/11/2009

Easting: 208474

Northing: 273384

Catchment: Camlin

Telemetry: Yes

Station Type: Recorder

Catchment Area: 49.90 km²

QMED (gauged): 6.39 m³/s

AREA (FSU): 61.88 km²

QMED (FSU): 6.49 m³/s

SAAR (FSU): 915.82

QMED (predicted): 6.37 m³/s

FARL (FSU): 1.00

BFIsols (FSU): 0.60

S1085: 3.44

URBEXT: 0.56

ARTDRAIN2: N/A

DRAIN2: 0.39

Comments: Automated velocity-area station installed in 1940 and automated in 1957. Unstable gravel bed with concrete bridge apron. Natural channel with bridge as partial control.

Nearby APSRs: To be confirmed

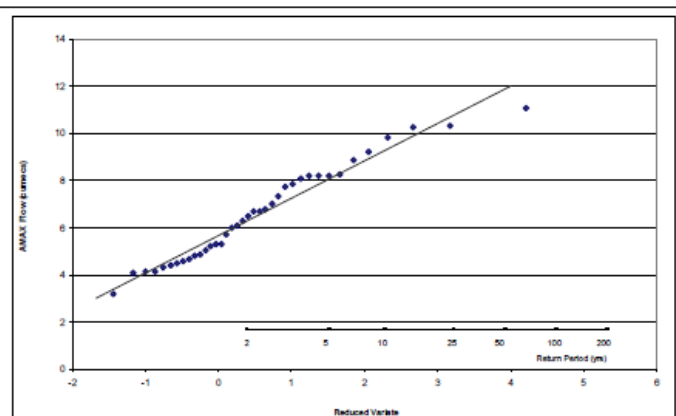
Jacobs Rating Review required: Yes

OPW Station Classification: A2

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



Length of AMAX series: 38 years

1989-recorder malfunction 4/10/88 to 24/10/88.
2005 - no record 10/5/06 to 20/06/06.

26027 – SHANNON AT ATHLONE

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952	37.5	08/11/1952
1953	37.8	27/02/1954
1954	38.6	14/12/1954
1955	37.5	31/01/1956
1956	38.3	05/01/1957
1957	37.7	27/02/1958
1958	37.9	08/01/1959
1959	38.4	29/12/1959
1960	38.2	06/02/1961
1961	38.0	15/12/1961
1962	37.7	15/12/1962
1963	38.2	27/11/1963
1964	38.4	23/01/1965
1965	38.3	28/11/1965
1966	37.8	19/12/1966
1967	38.3	18/01/1968
1968	38.3	24/01/1969
1969	37.9	25/02/1970
1970	37.9	30/11/1970
1971	37.6	10/04/1972
1972	37.6	17/12/1972
1973	38.1	18/01/1974
1974	38.4	30/01/1975
1975	37.8	12/01/1976
1976	38.1	25/02/1977
1977	37.9	14/11/1977
1978	38.0	17/12/1978
1979	38.3	17/12/1979
1980	38.1	29/12/1980
1981	38.1	16/03/1982
1982	38.2	08/01/1983
1983	38.3	08/02/1984
1984	37.9	28/12/1984
1985	37.9	10/10/1985
1986	38.3	20/12/1986
1987	38.4	09/02/1988
1988	37.9	23/03/1989
1989	38.6	13/02/1990
1990	38.5	05/01/1991
1991	37.8	13/01/1992
1992	38.1	23/01/1993
1993	38.3	04/01/1994
1994	38.6	02/02/1995
1995	37.7	17/02/1996
1996	38.3	01/03/1997
1997	38.2	11/01/1998
1998	38.2	23/01/1999
1999	38.6	30/12/1999
2000	38.4	15/12/2000
2001	38.6	11/02/2002
2002	38.4	16/11/2002
2003	37.9	07/02/2004
2004	38.4	10/01/2005
2005	37.5	18/01/2006
2006	38.6	13/12/2006
2007	38.4	25/01/2007
2008	38.2	06/02/2009
2009	39.1	25/11/2009

Length of AMAX series: 58 years

Gauging Authority: Office of Public Works

Easting: 204042	Northing: 241293
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 4600.60 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

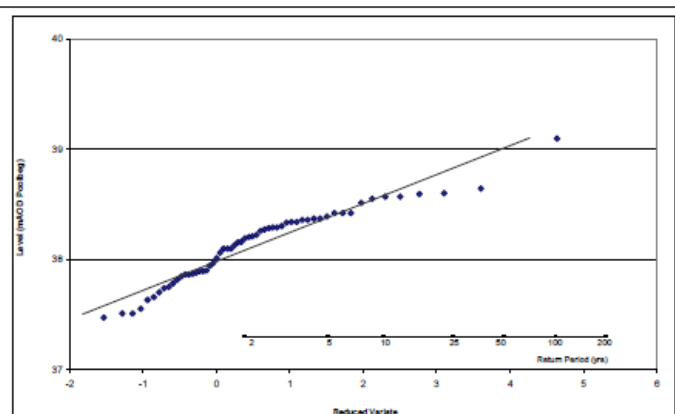
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26028 – SHANNON AT SHANNONBRIDGE

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954	38.2	10/12/1954
1955	37.3	31/01/1956
1956	37.9	06/01/1957
1957	37.5	16/02/1958
1958	37.5	07/01/1959
1959	38.1	30/12/1959
1960	37.8	07/12/1960
1961	37.7	16/12/1961
1962	37.3	13/12/1962
1963	37.8	26/11/1963
1964	38.0	20/01/1965
1965	38.0	29/11/1965
1966	37.5	29/02/67
1967	37.9	17/01/1968
1968	38.0	22/01/1969
1969	37.7	26/02/1970
1970	37.6	29/11/1970
1971	37.3	11/04/1972
1972	37.2	17/12/1972
1973	37.7	16/01/1974
1974	38.0	29/01/1975
1975	37.5	13/01/1976
1976	37.8	23/02/1977
1977	37.6	15/11/1977
1978	37.7	16/12/1978
1979	37.9	16/12/1979
1980	37.7	27/12/1980
1981	37.8	16/03/1982
1982	37.9	08/01/1983
1983	38.0	07/02/1984
1984	37.6	27/12/1984
1985	37.6	26/12/1985
1986	38.0	20/12/1986
1987	38.0	06/02/1988
1988	37.5	25/03/1989
1989	38.2	12/02/1990
1990	38.1	08/01/1991
1991	37.5	13/01/1992
1992	37.8	07/12/1992
1993	37.9	01/01/1994
1994	38.2	30/01/1995
1995	37.4	18/03/1996
1996	37.9	28/02/1997
1997	37.8	11/01/1998
1998	37.9	21/02/1999
1999	38.3	28/12/1999
2000	38.1	15/12/2000
2001	38.2	13/02/2002
2002	38.1	15/11/2002
2003	37.6	07/02/2004
2004	38.0	11/01/2005
2005	37.4	17/01/2006
2006	38.2	16/12/2006
2007	38.0	24/01/2007
2008	37.9	03/02/2009
2009	38.8	27/11/2009

Length of AMAX series: 56 years

Gauging Authority: Office of Public Works

Easting: 196707	Northing: 225451
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 4968.60 km ²

QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

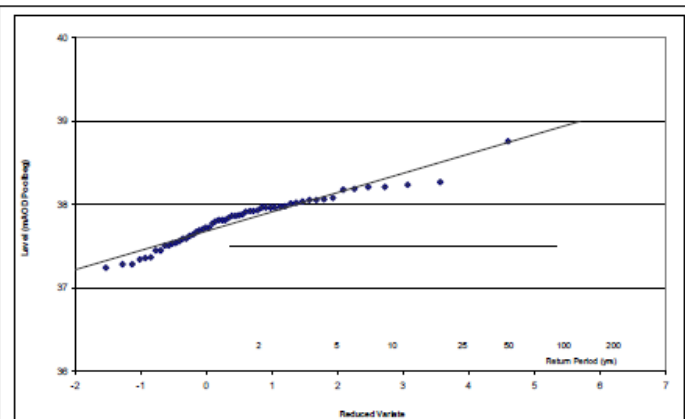
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26058 – INNY UPPER AT BALLINRINK BR.

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m ³ /s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981	5.1	04/01/1982
1982	4.0	31/01/1983
1983	4.5	16/01/1984
1984	4.6	19/09/1985
1985	4.5	06/08/1986
1986	4.5	18/12/1986
1987	4.2	21/10/1987
1988	4.2	26/10/1988
1989	10.3	06/02/1990
1990	8.6	06/01/1991
1991	6.6	21/12/1991
1992	5.7	12/06/1993
1993	5.5	06/10/1993
1994	8.9	27/01/1995
1995	6.6	27/11/1995
1996	5.5	19/02/1997
1997	4.9	06/03/1998
1998	5.2	21/09/1999
1999	2.6	22/12/1999
2000	6.0	08/12/2000
2001	7.7	28/02/2002
2002	8.0	14/11/2002
2003	3.6	31/01/2004
2004	12.2	08/01/2005
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 24 years

Gauging Authority: Cavan County Council

Easting: 249465	Northing: 280959
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 60.00 km ²
QMED (gauged): 5.35 m ³ /s	AREA (FSU): 59.98 km ²
QMED (FSU): 5.35 m ³ /s	SAAR (FSU): 973.50
QMED (predicted): 8.47 m ³ /s	FARL (FSU): 1.00
BFIsoils (FSU): 0.70	S1085: 5.53
URBEXT: 1.04	ARTDRAIN2: 71.00
DRAIN2: 0.49	

Comments:

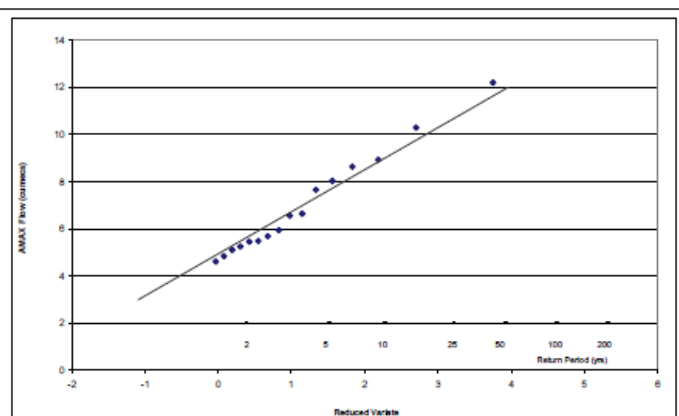
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26059 – INNY AT FINNEA BR.

Annual Maxima Series (Source: FSU)

Hydrological Year	Flow (m³/s)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982	14.8	12/01/1983
1983	13.5	21/01/1984
1984	13.8	25/09/1985
1985	12.0	12/10/1985
1986	12.0	17/12/1986
1987	16.6	09/02/1988
1988	8.2	31/10/1988
1989	15.8	06/03/1990
1990	16.7	10/01/1991
1991	10.7	15/01/1992
1992	13.7	08/12/1992
1993	16.5	09/02/1994
1994	13.0	02/02/1995
1995	11.9	14/01/1996
1996	12.2	02/03/1997
1997	12.2	11/01/1998
1998	12.2	21/01/1999
1999	14.6	27/12/1999
2000	11.4	13/12/2000
2001	11.8	01/03/2002
2002	12.0	16/11/2002
2003	8.0	05/02/2004
2004	10.6	11/01/2005
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 23 years

Gauging Authority: Cavan County Council

Easting: 240225	Northing: 281429
Catchment:	Telemetry: No
Station Type: Recorder	Catchment Area: 256.60 km ²
QMED (gauged): 12.20 m³/s	AREA (FSU): 256.64 km ²
QMED (FSU): 12.20 m³/s	SAAR (FSU): 976.44
QMED (predicted): 13.61 m³/s	FARL (FSU): 0.73
BFIsoils (FSU): N/A	\$1085: 2.04
URBEXT: 0.46	ARTDRAIN2: 50.00
DRAIN2: 0.75	

Comments:

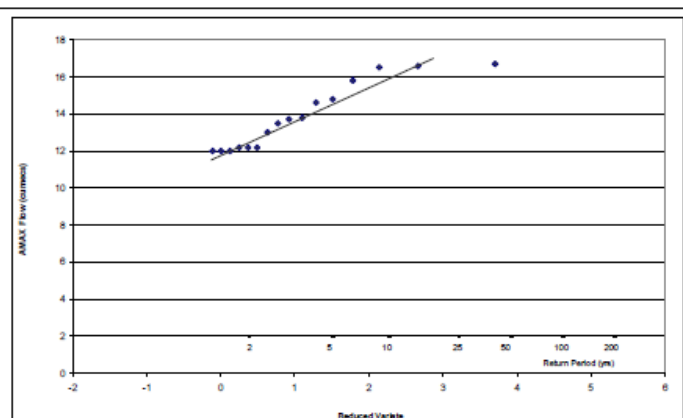
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26074 – L. ALLEN AT BLACKROCK LOCK

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988		
1989		
1990		
1991		
1992		
1993		
1994	50.5	11/03/1995
1995	49.8	11/06/1996
1996	50.1	06/11/1996
1997	50.2	08/01/1998
1998	50.3	02/11/1998
1999	50.5	24/12/1999
2000	50.3	09/12/2000
2001	50.1	27/05/2002
2002	49.9	15/11/2002
2003	49.4	07/05/2005
2004	50.1	21/01/2005
2005	49.5	22/05/2006
2006	49.7	21/01/2007
2007	49.7	18/08/2008
2008	49.9	01/02/2009
2009	50.8	25/11/2009

Length of AMAX series: 16 years

Gauging Authority: Office of Public Works

Easting: 196747	Northing: 310977
Catchment:	Telemetry: No
Station Type: Recorder	Catchment Area: 442.10 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	\$1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

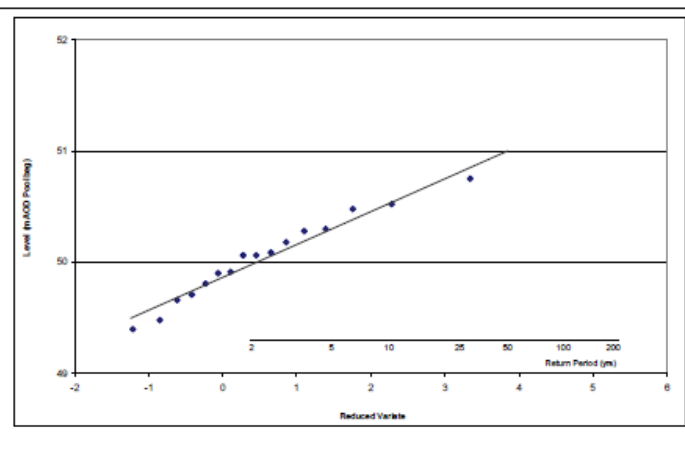
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Grinporten plotting positions)



26079 – LOUGH RINN AT LOUGH RINN

Annual Maxima Series (Source:)

Hydrological Year	Level (m)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988		
1989		
1990		
1991		
1992		
1993		
1994	2.1	10/01/1998
1995	2.2	29/10/1998
1996	2.0	26/12/1999
1997	2.0	31/10/2000
1998	2.4	05/02/2002
1999	2.4	27/10/2002
2000		
2001	3.2	10/01/2005
2002	2.8	15/03/2006
2003	3.3	07/12/2006
2004		
2005		
2006		
2007		
2008		
2009		

Length of AMAX series: 9 years

Staff Gauge Zero dropped by 1m on 19/08/2004

Gauging Authority: Office of Public Works

Easting: 209761

Northing: 293923

Catchment:

Telemetry: No

Station Type: Recorder

Catchment Area: 165.30 km²

QMED (gauged): N/A m³/s

AREA (FSU): N/A km²

QMED (FSU): N/A m³/s

SAAR (FSU): N/A

QMED (predicted): N/A m³/s

FARL (FSU): N/A

BFIsoils (FSU): N/A

S1085: N/A

URBEXT: N/A

ARTDRAIN2: N/A

DRAIND: N/A

Comments:

Nearby APSRs: To be confirmed

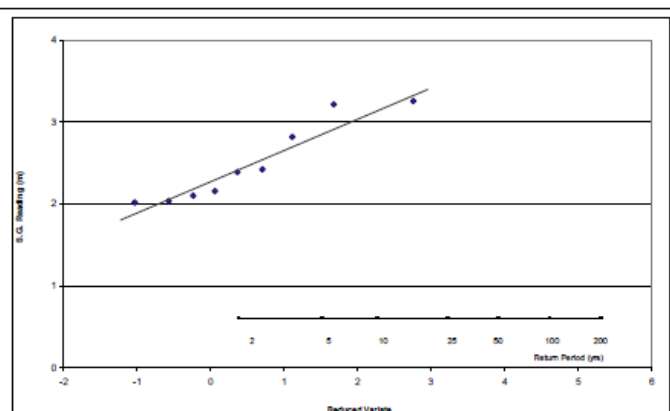
Jacobs Rating Review required: No

OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26085 – SHANNON AT JAMESTOWN

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957	43.5	26/01/1958
1958	43.5	07/01/1959
1959	44.1	04/02/1960
1960	43.9	06/02/1961
1961	44.0	25/01/1962
1962	43.5	10/12/1962
1963	43.8	26/11/1963
1964	44.4	20/01/1965
1965	44.1	20/11/1965
1966	43.8	19/12/1966
1967	44.1	19/01/1968
1968	44.1	21/01/1969
1969	44.0	26/02/1970
1970	43.7	03/11/1970
1971	43.6	23/11/1971
1972	43.4	15/12/1972
1973	44.0	16/02/1974
1974	44.3	31/01/1975
1975	43.4	31/01/1976
1976	43.8	23/02/1977
1977	44.0	18/11/1977
1978	43.8	13/12/1978
1979	44.1	12/12/1979
1980	44.2	26/12/1980
1981	44.1	17/03/1982
1982	44.0	25/11/1982
1983	44.3	07/02/1984
1984	43.6	06/12/1984
1985	43.9	09/08/1986
1986	44.1	19/12/1986
1987	44.2	11/02/1988
1988	43.8	27/03/1989
1989	44.3	27/02/1990
1990	44.3	07/01/1991
1991	43.9	11/01/1992
1992	44.0	29/01/1993
1993	43.9	07/02/1994
1994	44.2	13/03/1995
1995	43.9	28/10/1995
1996	43.8	02/03/1997
1997	44.1	11/01/1998
1998	44.2	01/11/1998
1999	44.5	31/12/1999
2000	44.2	14/12/2000
2001	44.2	12/02/2002
2002	44.1	12/11/2002
2003	43.8	06/02/2004
2004	43.2	12/01/2005
2005	43.5	14/03/2006
2006	44.3	15/12/2006
2007	44.1	25/01/2008
2008	44.1	02/02/2009
2009	N/A	N/A

Length of AMAX series: 52 years

2009- recorder flooded

Gauging Authority: Office of Public Works

Easting: 198041

Northing: 297095

Catchment:

Telemetry: Yes

Station Type: Recorder

Catchment Area: 1379.00 km²

QMED (gauged): 44.01 m³/s

AREA (FSU): N/A km²

QMED (FSU): N/A m³/s

SAAR (FSU): N/A

QMED (predicted): N/A m³/s

FARL (FSU): N/A

BFIsols (FSU): N/A

S1085: N/A

URBEXT: N/A

ARTDRAIN2: N/A

DRAIN2: N/A

Comments:

Nearby APSRs: To be confirmed

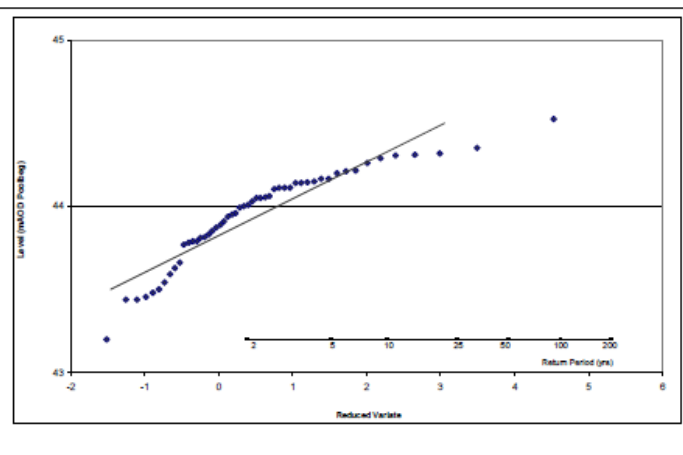
Jacobs Rating Review required: No

OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26087 – L. GARA AT LOMCLOON

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
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1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980	67.6	30/09/1981
1981	67.0	18/03/1982
1982	67.2	25/11/1982
1983	67.5	17/01/1984
1984	67.5	04/09/1985
1985	67.5	07/08/1986
1986	67.5	21/12/1986
1987	67.5	04/02/1988
1988	67.2	24/03/1989
1989	68.1	07/02/1990
1990	67.8	06/01/1991
1991	67.8	09/01/1992
1992	67.6	02/12/1992
1993	67.5	02/01/1994
1994	67.7	31/01/1995
1995	67.4	29/10/1995
1996	67.6	25/02/1997
1997	67.6	11/01/1998
1998	67.6	28/10/1998
1999	67.9	26/12/1999
2000	67.5	25/12/2000
2001	67.9	11/02/2002
2002	67.6	11/11/2002
2003	67.6	03/02/2004
2004	68.0	10/01/2005
2005	67.2	22/05/2006
2006	68.0	15/12/2006
2007	67.9	11/12/2007
2008	67.7	01/02/2009
2009	68.8	23/11/2009

Length of AMAX series: 30 years

Gauging Authority: Office of Public Works

Easting: 169336	Northing: 297289
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 443.60 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

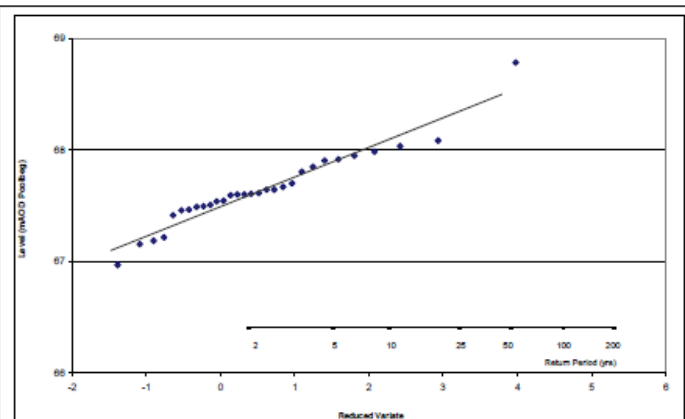
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26088 – L. REE AT HODSON'S BAY

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
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1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981	38.7	17/03/1982
1982	38.7	09/01/1983
1983	38.8	08/02/1984
1984	38.5	26/12/1984
1985	38.5	27/01/1986
1986	38.9	21/12/1986
1987	38.8	13/02/1988
1988	38.5	12/03/1989
1989	39.1	11/02/1990
1990	39.0	12/01/1991
1991	38.5	14/01/1992
1992	38.6	07/12/1992
1993	38.8	06/01/1994
1994	38.9	03/02/1995
1995	38.4	19/02/1996
1996	38.7	02/03/1997
1997	38.7	24/01/1998
1998	38.7	21/01/1999
1999	39.2	31/12/1999
2000	38.9	15/12/2000
2001	39.1	13/02/2002
2002	39.0	15/11/2002
2003	38.4	07/02/2004
2004	38.8	09/01/2005
2005	38.3	19/01/2006
2006	39.2	17/12/2006
2007	38.9	27/01/2008
2008	38.7	06/02/2009
2009		

Length of AMAX series: 28 years

Gauging Authority: Office of Public Works

Easting: 200843	Northing: 246267
Catchment:	Telemetry: No
Station Type: Recorder	Catchment Area: 4591.60 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAINID: N/A	

Comments:

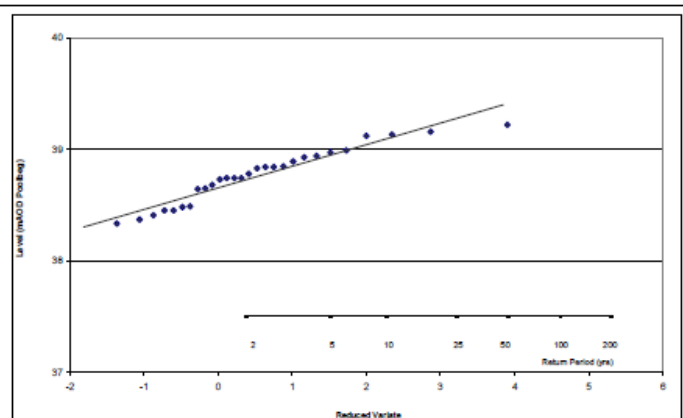
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26089 – SHANNON AT DRUMSNA

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
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1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984	42.0	04/09/1985
1985	41.9	11/08/1986
1986	42.2	28/11/1986
1987	42.2	13/02/1988
1988	41.9	29/03/1989
1989	42.4	12/02/1990
1990	42.4	07/01/1991
1991	42.1	13/01/1992
1992	42.1	06/12/1992
1993	42.1	05/01/1994
1994	42.2	02/02/1995
1995	42.1	30/10/1995
1996	42.1	01/03/1997
1997	42.3	19/01/1998
1998	42.3	07/11/1998
1999	42.6	31/12/1999
2000	42.4	12/12/2000
2001	42.4	11/02/2002
2002	42.3	13/11/2002
2003	42.0	06/02/2004
2004	42.4	11/01/2005
2005	41.9	29/05/2006
2006	42.5	16/12/2006
2007	42.3	25/01/2008
2008	42.2	04/02/2009
2009	43.2	25/11/2009

Length of AMAX series: 26 years

Gauging Authority: Office of Public Works

Easting: 199482	Northing: 297002
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 1389.90 km ²

QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

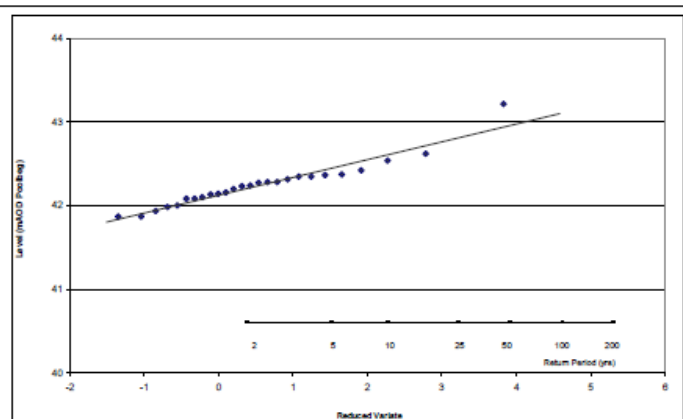
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26104 – INNY AT BALLINALACK

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
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1965		
1966		
1967		
1968		
1969		
1970		
1971		
1972		
1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981	61.7	05/01/1982
1982	61.8	01/02/1983
1983	61.9	16/01/1984
1984	61.9	16/08/1985
1985	61.6	07/10/1985
1986	61.8	19/12/1986
1987	61.8	04/02/1988
1988	61.5	26/10/1988
1989	62.1	08/02/1990
1990	61.9	07/01/1991
1991	61.7	09/01/1992
1992	61.7	03/12/1992
1993	61.9	03/01/1994
1994	62.0	31/1/1995
1995	61.4	11/02/1996
1996	61.6	26/02/1997
1997	61.7	09/01/1998
1998	61.7	21/01/1999
1999	62.0	25/12/1999
2000	62.0	11/12/2000
2001	62.2	13/02/2002
2002	62.2	15/11/2002
2003	61.4	05/02/2004
2004	61.9	09/01/2005
2005	61.4	02/04/2006
2006	62.3	15/12/2006
2007	61.9	24/01/2008
2008	61.8	04/02/2009
2009	62.5	21/11/2009

Length of AMAX series: 29 years

Gauging Authority: Office of Public Works

Easting: 234807

Northing: 264732

Catchment:

Telemetry: Yes

Station Type: Recorder

Catchment Area: 672.50 km²

QMED (gauged): N/A m³/s

AREA (FSU): N/A km²

QMED (FSU): N/A m³/s

SAAR (FSU): N/A

QMED (predicted): N/A m³/s

FARL (FSU): N/A

BFIsols (FSU): N/A

S1085: N/A

URBEXT: N/A

ARTDRAIN2: N/A

DRAIND: N/A

Comments:

Nearby APSRs: To be confirmed

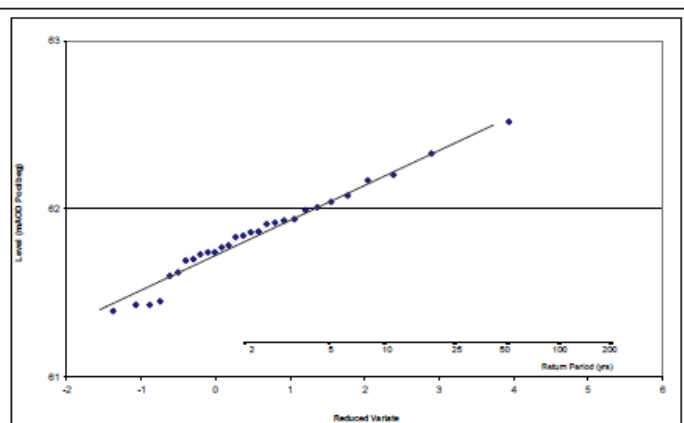
Jacobs Rating Review required: No

OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26108 – BOYLE AT BOYLE ABBEY BR.

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
1963		
1964		
1965		
1966		
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1968		
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1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988		
1989		
1990	45.5	05/01/1991
1991	48.4	10/01/1992
1992	41.3	03/12/1992
1993	40.6	19/12/1993
1994	47.0	01/01/1995
1995	36.7	28/10/1995
1996	40.6	26/02/1997
1997	39.9	12/01/1998
1998	42.0	29/12/1998
1999	48.4	27/12/1999
2000	38.0	08/12/2000
2001	50.7	12/02/2001
2002	38.0	11/11/2002
2003	37.3	04/02/2004
2004	47.7	11/01/2005
2005	21.6	24/05/2006
2006	49.5	12/12/2006
2007	44.1	11/12/2007
2008	38.0	02/02/2009
2009	79.0	25/11/2009

Length of AMAX series: 20 years

Gauging Authority: Office of Public Works

Easting: 180537	Northing: 302625
Catchment: Upper Shannon	Telemetry: Yes
Station Type: Recorder	Catchment Area: 527.30 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): 527.32 km ²
QMED (FSU): 57.32 m ³ /s	SAAR (FSU): 1142.66
QMED (predicted): 35.63 m ³ /s	FARL (FSU): 0.83
BFIsoils (FSU): 0.73	S1085: 0.37
URBEXT: 0.42	ARTDRAIN2: 53.00
DRAIND: 0.88	

Comments: Velocity-area station installed and automated in 1990. Open channel with natural control.

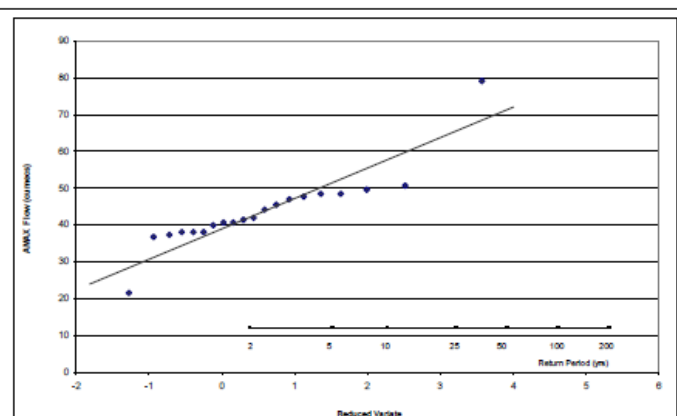
Nearby APSRs: To be confirmed

Jacobs Rating Review required: Yes OPW Station Classification: A2

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26140 – BUNOWEN AT AHASCRAUGH PUMP HSE.

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (m)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
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1973		
1974		
1975		
1976		
1977		
1978		
1979		
1980		
1981		
1982		
1983		
1984		
1985		
1986		
1987		
1988	1.1	12/04/1989
1989	1.4	07/02/1990
1990	1.4	19/03/1991
1991	1.1	08/01/1992
1992	1.5	12/06/1993
1993	1.2	27/02/1994
1994	1.6	27/06/1995
1995	1.3	12/02/1996
1996	1.6	18/02/1997
1997	1.5	09/01/1998
1998	1.6	21/09/1999
1999	1.8	23/12/1999
2000	1.8	06/11/2000
2001	1.8	11/02/2002
2002	1.7	29/10/2002
2003	1.2	30/11/20005
2004	1.9	08/01/2005
2005	1.5	23/09/2006
2006	1.7	04/12/2006
2007	1.9	28/12/2007
2008	2.0	24/08/2009
2009	2.2	20/11/2009

Length of AMAX series: 22 years

Gauging Authority: Office of Public Works

Easting: 178040

Northing: 238058

Catchment:

Telemetry: Yes

Station Type: Recorder

Catchment Area: 100.50 km²

QMED (gauged): N/A m³/s

AREA (FSU): N/A km²

QMED (FSU): N/A m³/s

SAAR (FSU): N/A

QMED (predicted): N/A m³/s

FARL (FSU): N/A

BFIsols (FSU): N/A

S1085: N/A

URBEXT: N/A

ARTDRAIN2: N/A

DRAIN2: N/A

Comments:

Nearby APSRs: To be confirmed

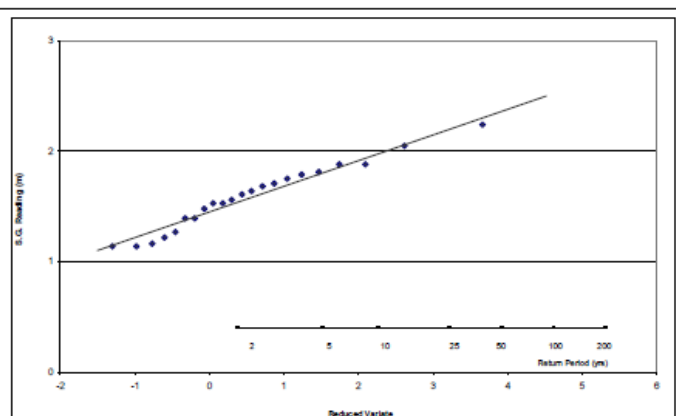
Jacobs Rating Review required: No

OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26305 – GLEN LOUGH (BLACK RVR.) AT GLEN LOUGH LOWER

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
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1982		
1983		
1984		
1985		
1986		
1987		
1988		
1989		
1990		
1991		
1992		
1993		
1994		
1995		
1996		
1997	62.9	11/09/1998
1998	63.7	21/09/1999
1999	63.7	25/12/1999
2000	63.5	06/11/2000
2001	63.7	11/02/2002
2002	64.2	22/10/2002
2003	N/A	N/A
2004	N/A	N/A
2005	63.4	14/01/2006
2006	63.9	03/12/2006
2007	63.9	09/12/2007
2008	63.8	24/08/2009
2009	64.5	20/11/2009

Length of AMAX series: 11 years

2005 - Data missing 19/06/2006 - 27/06/2006

Gauging Authority: Office of Public Works

Easting: 228669	Northing: 266531
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 17.30 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsoils (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	

Comments:

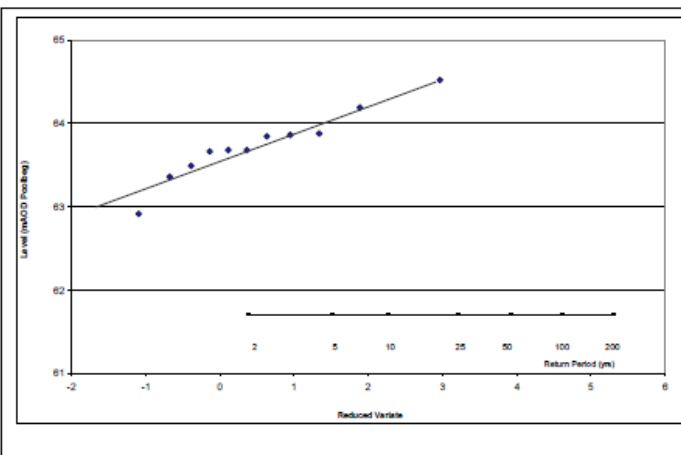
Nearby APSRs: To be confirmed

Jacobs Rating Review required: No OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26306 – GLEN LOUGH (CAMOGUE R. AT GLEN LOUGH UPPER)

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (m)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
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1983		
1984		
1985		
1986		
1987		
1988		
1989		
1990		
1991		
1992		
1993		
1994		
1995		
1996		
1997		
1998	1.9	21/09/1999
1999	1.9	25/12/1999
2000	1.8	02/11/2000
2001	1.8	11/02/2002
2002	2.1	22/10/2002
2003	2.2	29/11/2003
2004	2.0	08/01/2005
2005	1.7	23/10/2005
2006	1.9	03/12/2006
2007		
2008	2.0	23/08/2009
2009	2.6	20/11/2009

Length of AMAX series: 11 years

Gauging Authority: Office of Public Works

Easting: 227397

Northing: 267206

Catchment:

Telemetry: Yes

Station Type: Recorder

Catchment Area: 14.50 km²

QMED (gauged): N/A m³/s

AREA (FSU): N/A km²

QMED (FSU): N/A m³/s

SAAR (FSU): N/A

QMED (predicted): N/A m³/s

FARL (FSU): N/A

BFIsoils (FSU): N/A

S1085: N/A

URBEXT: N/A

ARTDRAIN2: N/A

DRAIND: N/A

Comments:

Nearby APSRs: To be confirmed

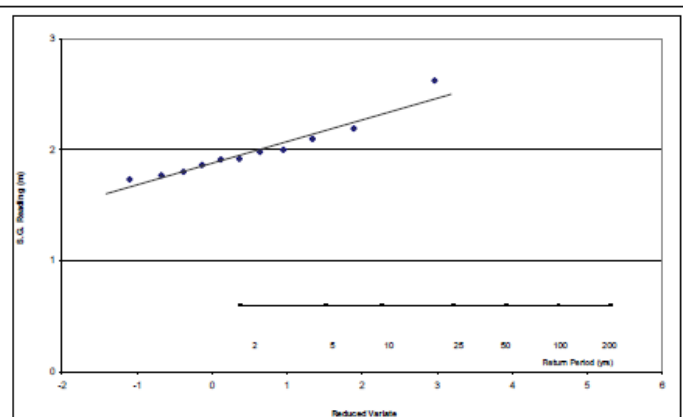
Jacobs Rating Review required: No

OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



26324 – SHANNON AT CARRICK ON SHANNON

Annual Maxima Series (Source: OPW)

Hydrological Year	Level (mAOD)	Date
1946		
1947		
1948		
1949		
1950		
1951		
1952		
1953		
1954		
1955		
1956		
1957		
1958		
1959		
1960		
1961		
1962		
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1965		
1966		
1967		
1968		
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1970		
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1972		
1973		
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1975		
1976		
1977		
1978		
1979		
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1982		
1983		
1984		
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1987		
1988		
1989		
1990		
1991		
1992		
1993		
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001		
2002		
2003		
2004	44.4	12/01/2005
2005	43.6	14/03/2006
2006	44.5	15/12/2006
2007	44.2	11/12/2007
2008	44.4	02/02/2009
2009	45.4	26/11/2009

Length of AMAX series: 6 years

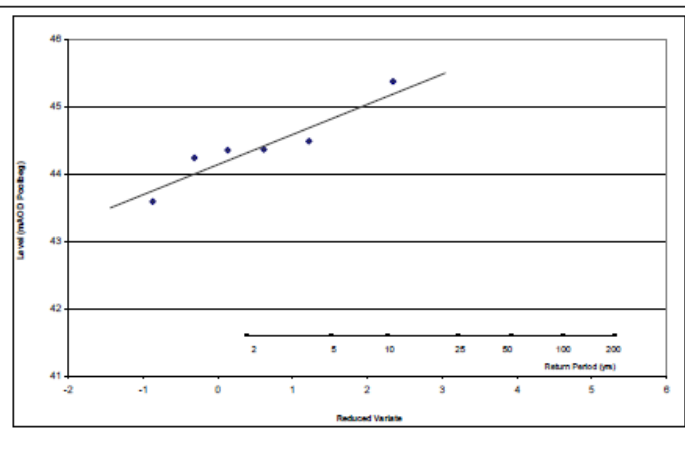
Gauging Authority: Office of Public Works

Easting: 193700	Northing: 299300
Catchment:	Telemetry: Yes
Station Type: Recorder	Catchment Area: 1300.90 km ²
QMED (gauged): N/A m ³ /s	AREA (FSU): N/A km ²
QMED (FSU): N/A m ³ /s	SAAR (FSU): N/A
QMED (predicted): N/A m ³ /s	FARL (FSU): N/A
BFIsols (FSU): N/A	S1085: N/A
URBEXT: N/A	ARTDRAIN2: N/A
DRAIN2: N/A	
Comments:	
Nearby APSRs: To be confirmed	
Jacobs Rating Review required: No	OPW Station Classification: None

Normalised Hydrographs

Chart not available

Flood Frequency (EV1 with Gringorten plotting positions)



Appendix I Historical Flood Review Details

The historical flood event tables can be found in a spreadsheet which is provided separately in Microsoft Excel format.

