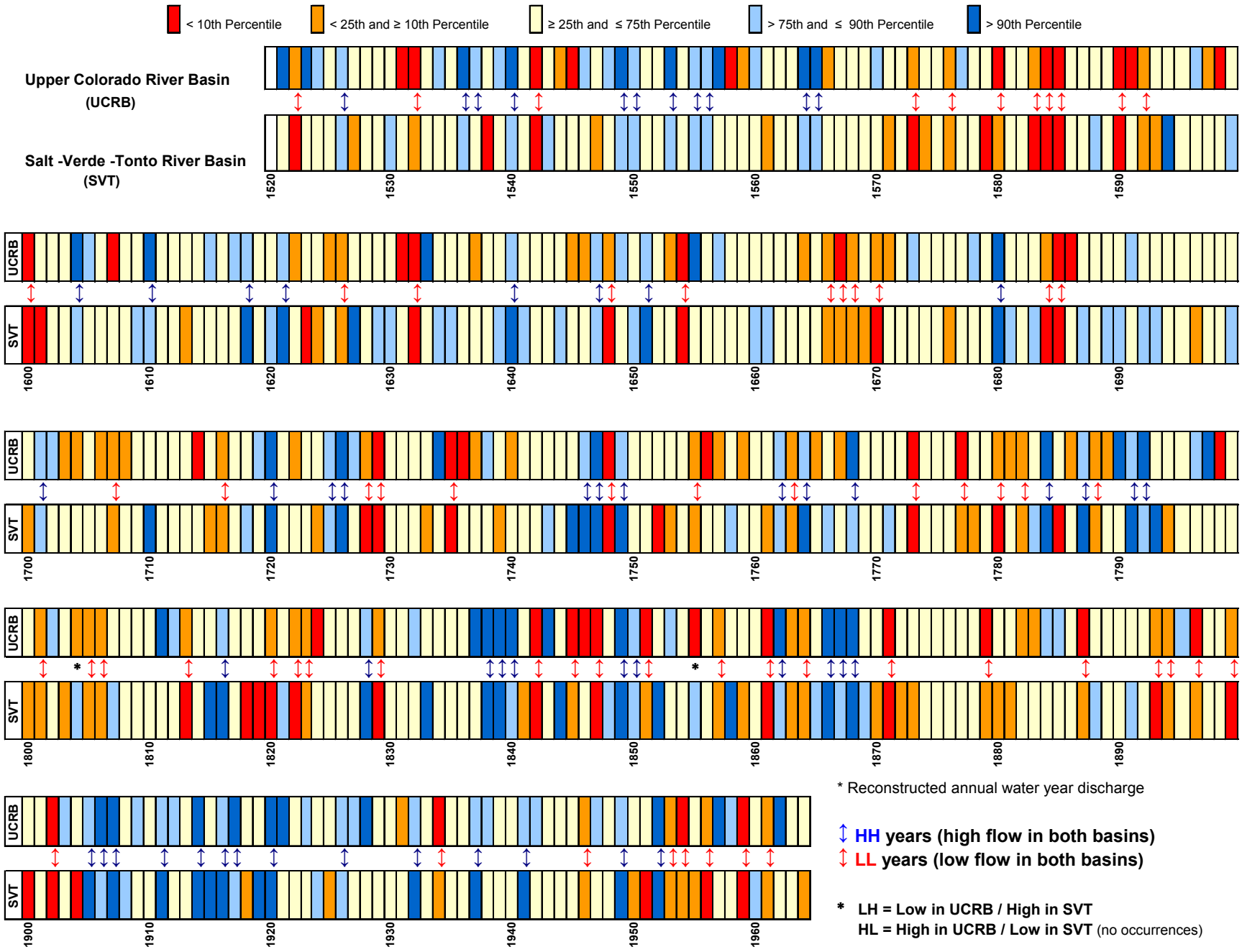
APPENDIX 5 - UCRB & S+V+T TIME SERIES WITH QUANTILE COMPARISON

Extreme High and Low Flow Years in Upper Colorado & Salt-Verde Basins based on Reconstructed Streamflow* 1521-1964



* Reconstructed annual water year discharge

↕ **HH years (high flow in both basins)**

↕ **LL years (low flow in both basins)**

* **LH = Low in UCRB / High in SVT**
HL = High in UCRB / Low in SVT (no occurrences)

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW TIME SERIES (in cfs)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P	
1521		27363.07	421	1.057	0.946	0.054	
1522		15239.04	91	4.890	0.204	0.796	LL
1523		26842.29	413	1.077	0.928	0.072	
1524		25673.59	395	1.127	0.888	0.112	
1525		22522.33	303	1.469	0.681	0.319	
1526		24288.57	357	1.246	0.802	0.198	HH
1527		20367.50	231	1.926	0.519	0.481	
1528		19908.20	212	2.099	0.476	0.524	
1529		19907.24	211	2.109	0.474	0.526	
1530		20544.23	239	1.862	0.537	0.463	
1531		11770.96	37	12.027	0.083	0.917	
1532		5439.72	5	89.000	0.011	0.989	LL
1533		20422.46	234	1.902	0.526	0.474	
1534		24543.33	365	1.219	0.820	0.180	
1535		23184.67	321	1.386	0.721	0.279	
1536		26612.95	409	1.088	0.919	0.081	HH
1537		23823.96	344	1.294	0.773	0.227	
1538		16697.17	125	3.560	0.281	0.719	
1539		23761.46	343	1.297	0.771	0.229	
1540		26958.63	416	1.070	0.935	0.065	HH
1541		22416.34	300	1.483	0.674	0.326	
1542		5252.23	3	148.333	0.007	0.993	LL
1543		21061.61	257	1.732	0.578	0.422	
1544		14726.08	77	5.779	0.173	0.827	
1545		11558.23	34	13.088	0.076	0.924	
1546		23526.37	336	1.324	0.755	0.245	
1547		22872.19	311	1.431	0.699	0.301	
1548		24436.41	360	1.236	0.809	0.191	
1549		28698.63	434	1.025	0.975	0.025	HH
1550		25231.79	382	1.165	0.858	0.142	HH
1551		16735.18	126	3.532	0.283	0.717	
1552		22512.59	302	1.474	0.679	0.321	
1553		29425.66	439	1.014	0.987	0.013	HH
1554		23394.17	333	1.336	0.748	0.252	
1555		25763.98	398	1.118	0.894	0.106	HH
1556		25505.85	388	1.147	0.872	0.128	HH
1557		25987.72	401	1.110	0.901	0.099	
1558		12244.33	41	10.854	0.092	0.908	
1559		15688.60	98	4.541	0.220	0.780	
1560		24470.43	363	1.226	0.816	0.184	
1561		19806.89	209	2.129	0.470	0.530	
1562		16524.55	120	3.708	0.270	0.730	
1563		19291.67	200	2.225	0.449	0.551	
1564		29197.41	438	1.016	0.984	0.016	HH
1565		26280.02	406	1.096	0.912	0.088	HH
1566		15991.14	104	4.279	0.234	0.766	
1567		17351.58	143	3.112	0.321	0.679	
1568		19238.98	198	2.247	0.445	0.555	
1569		21609.42	271	1.642	0.609	0.391	
1570		24332.20	358	1.243	0.804	0.196	
1571		18799.14	190	2.342	0.427	0.573	
1572		20630.96	242	1.839	0.544	0.456	
1573		15897.90	101	4.406	0.227	0.773	LL
1574		16327.30	112	3.973	0.252	0.748	
1575		20037.62	215	2.070	0.483	0.517	
1576		15029.40	85	5.235	0.191	0.809	LL
1577		25409.31	386	1.153	0.867	0.133	
1578		23285.49	327	1.361	0.735	0.265	
1579		18461.32	179	2.486	0.402	0.598	

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1521		1006.37	139	3.201	0.312	0.688
1522		501.99	21	21.190	0.047	0.953
1523		1007.23	141	3.156	0.317	0.683
1524		1040.71	153	2.908	0.344	0.656
1525		1497.54	272	1.636	0.611	0.389
1526		1976.38	364	1.223	0.818	0.182
1527		850.70	103	4.320	0.231	0.769
1528		1068.14	158	2.816	0.355	0.645
1529		1504.70	276	1.612	0.620	0.380
1530		1797.93	339	1.313	0.762	0.238
1531		1135.23	182	2.445	0.409	0.591
1532		641.51	49	9.082	0.110	0.890
1533		1098.66	169	2.633	0.380	0.620
1534		1420.52	257	1.732	0.578	0.422
1535		1363.31	236	1.886	0.530	0.470
1536		2022.13	371	1.199	0.834	0.166
1537		1685.31	320	1.391	0.719	0.281
1538		605.37	41	10.854	0.092	0.908
1539		1763.49	332	1.340	0.746	0.254
1540		2124.13	380	1.171	0.854	0.146
1541		1283.21	218	2.041	0.490	0.510
1542		369.57	4	111.250	0.009	0.991
1543		1928.85	356	1.250	0.800	0.200
1544		1110.26	173	2.572	0.389	0.611
1545		1075.65	161	2.764	0.362	0.638
1546		1586.84	297	1.498	0.667	0.333
1547		727.77	71	6.268	0.160	0.840
1548		1024.96	147	3.027	0.330	0.670
1549		1780.55	335	1.328	0.753	0.247
1550		2019.07	370	1.203	0.831	0.169
1551		1148.79	188	2.367	0.422	0.578
1552		1437.73	260	1.712	0.584	0.416
1553		2006.52	369	1.206	0.829	0.171
1554		1085.89	166	2.681	0.373	0.627
1555		1934.76	358	1.243	0.804	0.196
1556		2041.44	374	1.190	0.840	0.160
1557		1371.48	238	1.870	0.535	0.465
1558		976.59	132	3.371	0.297	0.703
1559		974.95	131	3.397	0.294	0.706
1560		936.06	118	3.771	0.265	0.735
1561		788.64	88	5.057	0.198	0.802
1562		1101.33	172	2.587	0.387	0.613
1563		1516.53	282	1.578	0.634	0.366
1564		2295.01	398	1.118	0.894	0.106
1565		2179.24	392	1.135	0.881	0.119
1566		1099.61	170	2.618	0.382	0.618
1567		1076.84	162	2.747	0.364	0.636
1568		1568.96	294	1.514	0.661	0.339
1569		1553.82	292	1.524	0.656	0.344
1570		1410.87	252	1.766	0.566	0.434
1571		873.47	109	4.083	0.245	0.755
1572		1240.26	208	2.139	0.467	0.533
1573		465.80	16	27.813	0.036	0.964
1574		673.87	58	7.672	0.130	0.870
1575		1207.06	198	2.247	0.445	0.555
1576		754.33	80	5.563	0.180	0.820
1577		1430.37	259	1.718	0.582	0.418
1578		1225.85	205	2.171	0.461	0.539
1579		591.08	37	12.027	0.083	0.917

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW TIME SERIES (in cfs)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P	
1580		7318.60	10	44.500	0.022	0.978	LL
1581		16871.23	129	3.450	0.290	0.710	
1582		20256.23	227	1.960	0.510	0.490	
1583		14072.88	68	6.544	0.153	0.847	LL
1584		5478.70	6	74.167	0.013	0.987	LL
1585		10259.44	23	19.348	0.052	0.948	LL
1586		22234.86	292	1.524	0.656	0.344	
1587		19311.51	201	2.214	0.452	0.548	
1588		20396.58	233	1.910	0.524	0.476	
1589		20363.66	230	1.935	0.517	0.483	
1590		9865.99	18	24.722	0.040	0.960	LL
1591		11768.75	36	12.361	0.081	0.919	
1592		12737.33	48	9.271	0.108	0.892	LL
1593		18476.79	181	2.459	0.407	0.593	
1594		22943.78	314	1.417	0.706	0.294	
1595		22407.44	299	1.488	0.672	0.328	
1596		23725.64	342	1.301	0.769	0.231	
1597		15776.98	99	4.495	0.222	0.778	
1598		9479.32	16	27.813	0.036	0.964	
1599		22235.39	293	1.519	0.658	0.342	
1600		9918.93	19	23.421	0.043	0.957	LL
1601		20391.78	232	1.918	0.521	0.479	
1602		20835.71	251	1.773	0.564	0.436	
1603		23342.99	330	1.348	0.742	0.258	
1604		25994.70	402	1.107	0.903	0.097	HH
1605		24796.56	370	1.203	0.831	0.169	
1606		23369.52	332	1.340	0.746	0.254	
1607		10062.48	20	22.250	0.045	0.955	
1608		20296.44	229	1.943	0.515	0.485	
1609		22306.69	295	1.508	0.663	0.337	
1610		26050.90	404	1.101	0.908	0.092	HH
1611		23099.99	319	1.395	0.717	0.283	
1612		17991.47	166	2.681	0.373	0.627	
1613		19849.90	210	2.119	0.472	0.528	
1614		23333.23	329	1.353	0.739	0.261	
1615		25518.07	390	1.141	0.876	0.124	
1616		21555.47	269	1.654	0.604	0.396	
1617		25743.87	397	1.121	0.892	0.108	
1618		24181.39	355	1.254	0.798	0.202	HH
1619		18106.78	169	2.633	0.380	0.620	
1620		21584.99	270	1.648	0.607	0.393	
1621		25486.82	387	1.150	0.870	0.130	HH
1622		15611.69	96	4.635	0.216	0.784	
1623		16786.84	127	3.504	0.285	0.715	
1624		16345.41	114	3.904	0.256	0.744	
1625		15544.16	95	4.684	0.213	0.787	
1626		13852.29	66	6.742	0.148	0.852	LL
1627		20072.64	219	2.032	0.492	0.508	
1628		21887.63	283	1.572	0.636	0.364	
1629		19197.26	194	2.294	0.436	0.564	
1630		19235.64	197	2.259	0.443	0.557	
1631		12412.04	44	10.114	0.099	0.901	
1632		11580.02	35	12.714	0.079	0.921	LL
1633		27423.68	422	1.055	0.948	0.052	
1634		20046.60	217	2.051	0.488	0.512	
1635		20180.64	223	1.996	0.501	0.499	
1636		19580.65	206	2.160	0.463	0.537	
1637		14862.11	78	5.705	0.175	0.825	
1638		17588.47	153	2.908	0.344	0.656	
1639		22578.74	304	1.464	0.683	0.317	

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1580		737.96	74	6.014	0.166	0.834
1581		1255.77	213	2.089	0.479	0.521
1582		958.54	126	3.532	0.283	0.717
1583		588.20	36	12.361	0.081	0.919
1584		552.24	29	15.345	0.065	0.935
1585		471.47	17	26.176	0.038	0.962
1586		1717.66	325	1.369	0.730	0.270
1587		1441.52	262	1.698	0.589	0.411
1588		1788.16	337	1.320	0.757	0.243
1589		1141.76	186	2.392	0.418	0.582
1590		596.75	40	11.125	0.090	0.910
1591		1005.54	137	3.248	0.308	0.692
1592		644.08	50	8.900	0.112	0.888
1593		879.93	111	4.009	0.249	0.751
1594		3117.79	435	1.023	0.978	0.022
1595		1377.32	240	1.854	0.539	0.461
1596		1695.64	322	1.382	0.724	0.276
1597		1140.98	185	2.405	0.416	0.584
1598		1006.03	138	3.225	0.310	0.690
1599		2060.66	375	1.187	0.843	0.157
1600		477.13	18	24.722	0.040	0.960
1601		622.13	44	10.114	0.099	0.901
1602		1481.12	268	1.660	0.602	0.398
1603		1646.00	312	1.426	0.701	0.299
1604		1819.19	342	1.301	0.769	0.231
1605		1607.17	301	1.478	0.676	0.324
1606		1352.82	232	1.918	0.521	0.479
1607		1247.41	212	2.099	0.476	0.524
1608		1733.39	327	1.361	0.735	0.265
1609		1970.11	362	1.229	0.813	0.187
1610		2311.01	400	1.113	0.899	0.101
1611		1583.58	296	1.503	0.665	0.335
1612		1283.20	217	2.051	0.488	0.512
1613		751.00	76	5.855	0.171	0.829
1614		1232.93	206	2.160	0.463	0.537
1615		1498.53	274	1.624	0.616	0.384
1616		1300.00	221	2.014	0.497	0.503
1617		1588.27	298	1.493	0.670	0.330
1618		2735.07	419	1.062	0.942	0.058
1619		1205.57	197	2.259	0.443	0.557
1620		1990.49	366	1.216	0.822	0.178
1621		2918.24	430	1.035	0.966	0.034
1622		1223.36	204	2.181	0.458	0.542
1623		523.51	23	19.348	0.052	0.948
1624		690.46	60	7.417	0.135	0.865
1625		1487.63	269	1.654	0.604	0.396
1626		700.89	63	7.063	0.142	0.858
1627		2560.23	414	1.075	0.930	0.070
1628		1072.13	160	2.781	0.360	0.640
1629		1909.05	352	1.264	0.791	0.209
1630		1927.62	355	1.254	0.798	0.202
1631		1120.28	177	2.514	0.398	0.602
1632		531.10	25	17.800	0.056	0.944
1633		1592.12	299	1.488	0.672	0.328
1634		1999.25	368	1.209	0.827	0.173
1635		2063.98	376	1.184	0.845	0.155
1636		1412.65	254	1.752	0.571	0.429
1637		967.48	129	3.450	0.290	0.710
1638		1070.92	159	2.799	0.357	0.643
1639		1889.40	349	1.275	0.784	0.216

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW TIME SERIES (in cfs)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P	
1640		25113.56	377	1.180	0.847	0.153	HH
1641		20093.47	220	2.023	0.494	0.506	
1642		21896.08	285	1.561	0.640	0.360	
1643		22686.10	306	1.454	0.688	0.312	
1644		20223.18	224	1.987	0.503	0.497	
1645		15115.95	88	5.057	0.198	0.802	
1646		14710.00	76	5.855	0.171	0.829	
1647		24041.50	350	1.271	0.787	0.213	HH
1648		15188.17	90	4.944	0.202	0.798	LL
1649		24971.73	374	1.190	0.840	0.160	
1650		23284.62	326	1.365	0.733	0.267	
1651		23541.10	337	1.320	0.757	0.243	HH
1652		17646.93	155	2.871	0.348	0.652	
1653		12641.67	46	9.674	0.103	0.897	
1654		5110.52	2	222.500	0.004	0.996	LL
1655		27720.94	428	1.040	0.962	0.038	
1656		21186.05	262	1.698	0.589	0.411	
1657		24088.94	352	1.264	0.791	0.209	
1658		17257.24	141	3.156	0.317	0.683	
1659		20493.09	237	1.878	0.533	0.467	
1660		22874.49	312	1.426	0.701	0.299	
1661		20728.99	246	1.809	0.553	0.447	
1662		17965.35	164	2.713	0.369	0.631	
1663		17130.55	133	3.346	0.299	0.701	
1664		13046.53	52	8.558	0.117	0.883	
1665		18783.42	189	2.354	0.425	0.575	
1666		14469.66	74	6.014	0.166	0.834	LL
1667		10840.19	30	14.833	0.067	0.933	LL
1668		13261.72	56	7.946	0.126	0.874	LL
1669		21069.88	258	1.725	0.580	0.420	
1670		12753.19	49	9.082	0.110	0.890	LL
1671		14552.04	75	5.933	0.169	0.831	
1672		23366.90	331	1.344	0.744	0.256	
1673		25197.15	381	1.168	0.856	0.144	
1674		23019.89	316	1.408	0.710	0.290	
1675		17394.45	144	3.090	0.324	0.676	
1676		22915.91	313	1.422	0.703	0.297	
1677		21695.46	275	1.618	0.618	0.382	
1678		24638.13	367	1.213	0.825	0.175	
1679		22020.52	288	1.545	0.647	0.353	
1680		28327.11	432	1.030	0.971	0.029	HH
1681		23310.67	328	1.357	0.737	0.263	
1682		17719.41	156	2.853	0.351	0.649	
1683		22391.06	298	1.493	0.670	0.330	
1684		12655.89	47	9.468	0.106	0.894	LL
1685		4344.24	1	445.000	0.002	0.998	LL
1686		10743.12	28	15.893	0.063	0.937	
1687		20999.60	255	1.745	0.573	0.427	
1688		22837.75	309	1.440	0.694	0.306	
1689		21760.95	278	1.601	0.625	0.375	
1690		20792.04	250	1.780	0.562	0.438	
1691		25135.15	379	1.174	0.852	0.148	
1692		20724.88	245	1.816	0.551	0.449	
1693		23217.19	323	1.378	0.726	0.274	
1694		20058.55	218	2.041	0.490	0.510	
1695		18387.54	177	2.514	0.398	0.602	
1696		18968.80	193	2.306	0.434	0.566	
1697		22632.85	305	1.459	0.685	0.315	
1698		20109.41	222	2.005	0.499	0.501	
1699		22081.86	290	1.534	0.652	0.348	
1700		18770.64	188	2.367	0.422	0.578	
1701		25634.18	394	1.129	0.885	0.115	HH
1702		23596.94	338	1.317	0.760	0.240	
1703		15809.91	100	4.450	0.225	0.775	
1704		12778.52	50	8.900	0.112	0.888	
1705		21527.86	268	1.660	0.602	0.398	

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1640		2366.54	407	1.093	0.915	0.085
1641		1956.70	360	1.236	0.809	0.191
1642		1509.09	277	1.606	0.622	0.378
1643		1339.20	228	1.952	0.512	0.488
1644		2087.03	377	1.180	0.847	0.153
1645		1150.97	190	2.342	0.427	0.573
1646		1414.62	255	1.745	0.573	0.427
1647		1928.99	357	1.246	0.802	0.198
1648		553.03	30	14.833	0.067	0.933
1649		1717.89	326	1.365	0.733	0.267
1650		1976.37	363	1.226	0.816	0.184
1651		2834.84	428	1.040	0.962	0.038
1652		1409.52	251	1.773	0.564	0.436
1653		914.95	116	3.836	0.261	0.739
1654		503.33	22	20.227	0.049	0.951
1655		1692.76	321	1.386	0.721	0.279
1656		1620.74	304	1.464	0.683	0.317
1657		903.16	114	3.904	0.256	0.744
1658		1037.80	152	2.928	0.342	0.658
1659		1356.00	234	1.902	0.526	0.474
1660		2029.66	372	1.196	0.836	0.164
1661		1895.67	350	1.271	0.787	0.213
1662		1216.38	200	2.225	0.449	0.551
1663		1390.97	245	1.816	0.551	0.449
1664		944.79	123	3.618	0.276	0.724
1665		1524.60	288	1.545	0.647	0.353
1666		845.74	101	4.406	0.227	0.773
1667		732.93	73	6.096	0.164	0.836
1668		644.71	51	8.725	0.115	0.885
1669		840.23	100	4.450	0.225	0.775
1670		477.50	19	23.421	0.043	0.957
1671		1377.62	241	1.846	0.542	0.458
1672		1518.59	284	1.567	0.638	0.362
1673		1495.31	270	1.648	0.607	0.393
1674		1398.53	248	1.794	0.557	0.443
1675		1112.52	174	2.557	0.391	0.609
1676		707.25	66	6.742	0.148	0.852
1677		1607.24	302	1.474	0.679	0.321
1678		1233.59	207	2.150	0.465	0.535
1679		1138.43	184	2.418	0.413	0.587
1680		2877.31	429	1.037	0.964	0.036
1681		2237.87	396	1.124	0.890	0.110
1682		1674.09	316	1.408	0.710	0.290
1683		2169.69	390	1.141	0.876	0.124
1684		564.67	32	13.906	0.072	0.928
1685		416.99	10	44.500	0.022	0.978
1686		1535.43	290	1.534	0.652	0.348
1687		2216.94	394	1.129	0.885	0.115
1688		1534.94	289	1.540	0.649	0.351
1689		2178.91	391	1.138	0.879	0.121
1690		1997.00	367	1.213	0.825	0.175
1691		1211.08	199	2.236	0.447	0.553
1692		2298.36	399	1.115	0.897	0.103
1693		1794.78	338	1.317	0.760	0.240
1694		1186.94	195	2.282	0.438	0.562
1695		1735.22	328	1.357	0.737	0.263
1696		713.41	68	6.544	0.153	0.847
1697		1188.04	196	2.270	0.440	0.560
1698		1241.78	210	2.119	0.472	0.528
1699		2134.64	383	1.162	0.861	0.139
1700		830.55	97	4.588	0.218	0.782
1701		2161.16	388	1.147	0.872	0.128
1702		1158.89	191	2.330	0.429	0.571
1703		997.43	135	3.296	0.303	0.697
1704		1022.98	144	3.090	0.324	0.676
1705		1513.70	278	1.601	0.625	0.375

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW TIME SERIES (in cfs)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P	
1706		14337.26	73	6.096	0.164	0.836	
1707		12828.09	51	8.725	0.115	0.885	LL
1708		13474.33	62	7.177	0.139	0.861	
1709		17220.15	139	3.201	0.312	0.688	
1710		21262.89	267	1.667	0.600	0.400	
1711		21131.84	261	1.705	0.587	0.413	
1712		20765.54	248	1.794	0.557	0.443	
1713		17198.29	137	3.248	0.308	0.692	
1714		12377.62	42	10.595	0.094	0.906	
1715		19234.70	196	2.270	0.440	0.560	
1716		16174.22	109	4.083	0.245	0.755	LL
1717		18194.69	171	2.602	0.384	0.616	
1718		21816.90	280	1.589	0.629	0.371	
1719		25099.68	376	1.184	0.845	0.155	
1720		30495.00	443	1.005	0.996	0.004	HH
1721		16496.69	118	3.771	0.265	0.735	
1722		12480.26	45	9.889	0.101	0.899	
1723		18255.31	173	2.572	0.389	0.611	
1724		17955.65	163	2.730	0.366	0.634	
1725		24440.54	361	1.233	0.811	0.189	HH
1726		30102.73	441	1.009	0.991	0.009	HH
1727		24107.70	354	1.257	0.796	0.204	
1728		15045.80	86	5.174	0.193	0.807	LL
1729		10441.82	25	17.800	0.056	0.944	LL
1730		17469.26	145	3.069	0.326	0.674	
1731		18500.62	183	2.432	0.411	0.589	
1732		19997.02	214	2.079	0.481	0.519	
1733		20430.62	235	1.894	0.528	0.472	
1734		27341.37	420	1.060	0.944	0.056	
1735		8362.28	12	37.083	0.027	0.973	LL
1736		11866.41	38	11.711	0.085	0.915	
1737		16317.66	110	4.045	0.247	0.753	
1738		24078.59	351	1.268	0.789	0.211	
1739		20776.92	249	1.787	0.560	0.440	
1740		14106.47	69	6.449	0.155	0.845	
1741		22856.28	310	1.435	0.697	0.303	
1742		17576.35	152	2.928	0.342	0.658	
1743		23085.49	318	1.399	0.715	0.285	
1744		17154.70	135	3.296	0.303	0.697	
1745		21847.63	281	1.584	0.631	0.369	
1746		25699.56	396	1.124	0.890	0.110	HH
1747		26896.52	414	1.075	0.930	0.070	HH
1748		10371.31	24	18.542	0.054	0.946	LL
1749		23519.30	335	1.328	0.753	0.247	HH
1750		17226.55	140	3.179	0.315	0.685	
1751		19439.08	204	2.181	0.458	0.542	
1752		18241.50	172	2.587	0.387	0.613	
1753		23276.29	325	1.369	0.730	0.270	
1754		20660.20	243	1.831	0.546	0.454	
1755		15613.74	97	4.588	0.218	0.782	LL
1756		11152.62	31	14.355	0.070	0.930	
1757		16171.31	108	4.120	0.243	0.757	
1758		21028.67	256	1.738	0.575	0.425	
1759		15240.30	92	4.837	0.207	0.793	
1760		22975.06	315	1.413	0.708	0.292	
1761		21886.92	282	1.578	0.634	0.366	
1762		24093.04	353	1.261	0.793	0.207	HH
1763		13242.92	54	8.241	0.121	0.879	LL
1764		24494.35	364	1.223	0.818	0.182	HH
1765		15166.07	89	5.000	0.200	0.800	
1766		23022.72	317	1.404	0.712	0.288	
1767		14946.54	83	5.361	0.187	0.813	
1768		27459.77	423	1.052	0.951	0.049	HH
1769		21956.89	286	1.556	0.643	0.357	

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1706		1563.52	293	1.519	0.658	0.342
1707		727.08	70	6.357	0.157	0.843
1708		937.31	119	3.739	0.267	0.733
1709		1060.34	155	2.871	0.348	0.652
1710		2490.26	411	1.083	0.924	0.076
1711		1258.24	214	2.079	0.481	0.519
1712		1396.64	246	1.809	0.553	0.447
1713		1014.71	142	3.134	0.319	0.681
1714		1467.90	267	1.667	0.600	0.400
1715		867.81	107	4.159	0.240	0.760
1716		653.98	52	8.558	0.117	0.883
1717		1311.41	224	1.987	0.503	0.497
1718		2097.24	378	1.177	0.849	0.151
1719		1401.03	249	1.787	0.560	0.440
1720		2596.21	415	1.072	0.933	0.067
1721		1298.84	220	2.023	0.494	0.506
1722		1023.27	145	3.069	0.326	0.674
1723		1426.02	258	1.725	0.580	0.420
1724		706.11	65	6.846	0.146	0.854
1725		1883.65	348	1.279	0.782	0.218
1726		2935.68	431	1.032	0.969	0.031
1727		1052.87	154	2.890	0.346	0.654
1728		481.65	20	22.250	0.045	0.955
1729		456.66	13	34.231	0.029	0.971
1730		1127.97	179	2.486	0.402	0.598
1731		1115.14	176	2.528	0.396	0.604
1732		1548.20	291	1.529	0.654	0.346
1733		665.75	54	8.241	0.121	0.879
1734		1334.58	227	1.960	0.510	0.490
1735		409.12	9	49.444	0.020	0.980
1736		1180.64	194	2.294	0.436	0.564
1737		959.94	127	3.504	0.285	0.715
1738		1317.34	225	1.978	0.506	0.494
1739		803.10	92	4.837	0.207	0.793
1740		1037.33	150	2.967	0.337	0.663
1741		1502.85	275	1.618	0.618	0.382
1742		1001.15	136	3.272	0.306	0.694
1743		2182.88	393	1.132	0.883	0.117
1744		1220.46	203	2.192	0.456	0.544
1745		2995.25	433	1.028	0.973	0.027
1746		4028.15	442	1.007	0.993	0.007
1747		2765.70	422	1.055	0.948	0.052
1748		252.20	1	445.000	0.002	0.998
1749		3306.59	438	1.016	0.984	0.016
1750		937.72	120	3.708	0.270	0.730
1751		1131.00	181	2.459	0.407	0.593
1752		461.00	15	29.667	0.034	0.966
1753		776.31	84	5.298	0.189	0.811
1754		1397.74	247	1.802	0.555	0.445
1755		853.63	104	4.279	0.234	0.766
1756		1150.86	189	2.354	0.425	0.575
1757		1092.17	167	2.665	0.375	0.625
1758		2138.97	384	1.159	0.863	0.137
1759		1735.75	329	1.353	0.739	0.261
1760		1305.54	222	2.005	0.499	0.501
1761		861.04	106	4.198	0.238	0.762
1762		1864.62	345	1.290	0.775	0.225
1763		692.10	62	7.177	0.139	0.861
1764		2785.83	423	1.052	0.951	0.049
1765		914.37	115	3.870	0.258	0.742
1766		2285.58	397	1.121	0.892	0.108
1767		1240.91	209	2.129	0.470	0.530
1768		1859.77	344	1.294	0.773	0.227
1769		1136.18	183	2.432	0.411	0.589

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW TIME SERIES (in cfs)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P	
1770		17826.60	160	2.781	0.360	0.640	
1771		23135.02	320	1.391	0.719	0.281	
1772		18353.87	176	2.528	0.396	0.604	
1773		10093.45	21	21.190	0.047	0.953	LL
1774		16655.12	124	3.589	0.279	0.721	
1775		20748.66	247	1.802	0.555	0.445	
1776		16643.84	123	3.618	0.276	0.724	
1777		11974.17	39	11.410	0.088	0.912	LL
1778		16431.87	116	3.836	0.261	0.739	
1779		18037.13	168	2.649	0.378	0.622	
1780		13358.18	58	7.672	0.130	0.870	LL
1781		16149.81	107	4.159	0.240	0.760	
1782		13598.32	63	7.063	0.142	0.858	LL
1783		19996.71	213	2.089	0.479	0.521	
1784		26597.39	408	1.091	0.917	0.083	HH
1785		21889.34	284	1.567	0.638	0.362	
1786		14216.54	71	6.268	0.160	0.840	
1787		23633.93	339	1.313	0.762	0.238	HH
1788		15114.83	87	5.115	0.196	0.804	LL
1789		13065.65	53	8.396	0.119	0.881	
1790		26031.95	403	1.104	0.906	0.094	
1791		24931.83	372	1.196	0.836	0.164	HH
1792		27640.23	426	1.045	0.957	0.043	HH
1793		18263.57	175	2.543	0.393	0.607	
1794		16367.61	115	3.870	0.258	0.742	
1795		18262.14	174	2.557	0.391	0.609	
1796		25238.27	383	1.162	0.861	0.139	
1797		27704.65	427	1.042	0.960	0.040	
1798		8809.75	14	31.786	0.031	0.969	
1799		21639.26	273	1.630	0.613	0.387	
1800		17885.69	161	2.764	0.362	0.638	
1801		16006.21	105	4.238	0.236	0.764	LL
1802		23853.97	346	1.286	0.778	0.222	
1803		20874.47	253	1.759	0.569	0.431	
1804		15977.65	102	4.363	0.229	0.771	LH
1805		14876.08	79	5.633	0.178	0.822	LL
1806		14911.95	81	5.494	0.182	0.818	LL
1807		21197.46	263	1.692	0.591	0.409	
1808		18471.83	180	2.472	0.404	0.596	
1809		16600.60	121	3.678	0.272	0.728	
1810		18861.71	192	2.318	0.431	0.569	
1811		26831.33	412	1.080	0.926	0.074	
1812		23449.33	334	1.332	0.751	0.249	
1813		13415.13	61	7.295	0.137	0.863	LL
1814		16333.97	113	3.938	0.254	0.746	
1815		22134.80	291	1.529	0.654	0.346	
1816		25120.16	378	1.177	0.849	0.151	HH
1817		21780.60	279	1.595	0.627	0.373	
1818		19693.14	208	2.139	0.467	0.533	
1819		18762.54	187	2.380	0.420	0.580	
1820		13376.25	59	7.542	0.133	0.867	LL
1821		22692.46	307	1.450	0.690	0.310	
1822		13385.83	60	7.417	0.135	0.865	LL
1823		15266.16	93	4.785	0.209	0.791	LL
1824		10187.69	22	20.227	0.049	0.951	
1825		17208.15	138	3.225	0.310	0.690	
1826		22452.99	301	1.478	0.676	0.324	
1827		20603.91	241	1.846	0.542	0.458	
1828		25579.54	391	1.138	0.879	0.121	HH
1829		14191.01	70	6.357	0.157	0.843	LL
1830		16612.38	122	3.648	0.274	0.726	
1831		21219.97	264	1.686	0.593	0.407	
1832		25512.44	389	1.144	0.874	0.126	
1833		22330.97	296	1.503	0.665	0.335	
1834		16905.79	130	3.423	0.292	0.708	
1835		19342.81	203	2.192	0.456	0.544	

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1770		1388.05	244	1.824	0.548	0.452
1771		2162.73	389	1.144	0.874	0.126
1772		1348.54	231	1.926	0.519	0.481
1773		398.95	6	74.167	0.013	0.987
1774		1385.27	243	1.831	0.546	0.454
1775		1521.03	287	1.551	0.645	0.355
1776		1378.20	242	1.839	0.544	0.456
1777		712.73	67	6.642	0.151	0.849
1778		667.84	55	8.091	0.124	0.876
1779		1264.62	216	2.060	0.485	0.515
1780		574.92	35	12.714	0.079	0.921
1781		1262.49	215	2.070	0.483	0.517
1782		676.75	59	7.542	0.133	0.867
1783		1827.60	343	1.297	0.771	0.229
1784		3271.92	437	1.018	0.982	0.018
1785		568.53	33	13.485	0.074	0.926
1786		1019.87	143	3.112	0.321	0.679
1787		2829.27	427	1.042	0.960	0.040
1788		691.06	61	7.295	0.137	0.863
1789		1007.07	140	3.179	0.315	0.685
1790		956.14	125	3.560	0.281	0.719
1791		2367.45	408	1.091	0.917	0.083
1792		2221.78	395	1.127	0.888	0.112
1793		4612.05	443	1.005	0.996	0.004
1794		780.68	86	5.174	0.193	0.807
1795		1621.14	306	1.454	0.688	0.312
1796		1129.89	180	2.472	0.404	0.596
1797		993.77	133	3.346	0.299	0.701
1798		951.68	124	3.589	0.279	0.721
1799		1673.09	314	1.417	0.706	0.294
1800		871.30	108	4.120	0.243	0.757
1801		811.73	95	4.684	0.213	0.787
1802		1574.67	295	1.508	0.663	0.337
1803		702.08	64	6.953	0.144	0.856
1804		1901.51	351	1.268	0.789	0.211
1805		738.70	75	5.933	0.169	0.831
1806		768.17	81	5.494	0.182	0.818
1807		1814.13	341	1.305	0.766	0.234
1808		1332.76	226	1.969	0.508	0.492
1809		1497.25	271	1.642	0.609	0.391
1810		996.67	134	3.321	0.301	0.699
1811		1306.88	223	1.996	0.501	0.499
1812		1371.90	239	1.862	0.537	0.463
1813		612.18	43	10.349	0.097	0.903
1814		1618.95	303	1.469	0.681	0.319
1815		2327.61	403	1.104	0.906	0.094
1816		3332.41	439	1.014	0.987	0.013
1817		1122.11	178	2.500	0.400	0.600
1818		390.85	5	89.000	0.011	0.989
1819		529.26	24	18.542	0.054	0.946
1820		556.37	31	14.355	0.070	0.930
1821		1802.53	340	1.309	0.764	0.236
1822		403.09	8	55.625	0.018	0.982
1823		823.98	96	4.635	0.216	0.784
1824		1369.27	237	1.878	0.533	0.467
1825		1518.78	285	1.561	0.640	0.360
1826		1438.12	261	1.705	0.587	0.413
1827		1033.39	148	3.007	0.333	0.667
1828		3142.48	436	1.021	0.980	0.020
1829		593.00	38	11.711	0.085	0.915
1830		1683.92	318	1.399	0.715	0.285
1831		1242.41	211	2.109	0.474	0.526
1832		1034.64	149	2.987	0.335	0.665
1833		2349.09	406	1.096	0.912	0.088
1834		1342.40	229	1.943	0.515	0.485
1835		1683.50	317	1.404	0.712	0.288

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW TIME SERIES (in cfs)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P	
1836		20099.93	221	2.014	0.497	0.503	
1837		29444.42	440	1.011	0.989	0.011	
1838		27601.88	424	1.050	0.953	0.047	HH
1839		28427.83	433	1.028	0.973	0.027	HH
1840		27295.43	419	1.062	0.942	0.058	HH
1841		21740.09	277	1.606	0.622	0.378	
1842		12388.06	43	10.349	0.097	0.903	LL
1843		26718.88	411	1.083	0.924	0.076	
1844		22345.53	297	1.498	0.667	0.333	
1845		5331.27	4	111.250	0.009	0.991	LL
1846		12219.78	40	11.125	0.090	0.910	
1847		9346.58	15	29.667	0.034	0.966	LL
1848		21658.01	274	1.624	0.616	0.384	
1849		30141.68	442	1.007	0.993	0.007	HH
1850		24965.50	373	1.193	0.838	0.162	HH
1851		6278.93	8	55.625	0.018	0.982	LL
1852		23270.23	324	1.373	0.728	0.272	
1853		25905.86	400	1.113	0.899	0.101	
1854		19506.24	205	2.171	0.461	0.539	
1855		10768.92	29	15.345	0.065	0.935	LH
1856		19217.46	195	2.282	0.438	0.562	
1857		13898.24	67	6.642	0.151	0.849	LL
1858		22012.34	287	1.551	0.645	0.355	
1859		20258.28	228	1.952	0.512	0.488	
1860		20722.35	244	1.824	0.548	0.452	
1861		10490.94	26	17.115	0.058	0.942	LL
1862		27631.11	425	1.047	0.955	0.045	HH
1863		16324.91	111	4.009	0.249	0.751	LL
1864		14927.99	82	5.427	0.184	0.816	LL
1865		21737.46	276	1.612	0.620	0.380	
1866		28848.61	435	1.023	0.978	0.022	HH
1867		31208.75	444	1.002	0.998	0.002	HH
1868		26389.30	407	1.093	0.915	0.085	HH
1869		20541.22	238	1.870	0.535	0.465	
1870		17304.93	142	3.134	0.319	0.681	
1871		8147.17	11	40.455	0.025	0.975	LL
1872		20237.18	225	1.978	0.506	0.494	
1873		18566.47	185	2.405	0.416	0.584	
1874		18004.17	167	2.665	0.375	0.625	
1875		17531.66	149	2.987	0.335	0.665	
1876		21238.73	266	1.673	0.598	0.402	
1877		17745.93	157	2.834	0.353	0.647	
1878		17513.05	148	3.007	0.333	0.667	
1879		8465.68	13	34.231	0.029	0.971	LL
1880		17562.40	151	2.947	0.339	0.661	
1881		16941.44	131	3.397	0.294	0.706	
1882		13679.79	65	6.846	0.146	0.854	
1883		16090.01	106	4.198	0.238	0.762	
1884		25618.52	393	1.132	0.883	0.117	
1885		24884.34	371	1.199	0.834	0.166	
1886		17768.89	158	2.816	0.355	0.645	
1887		11368.20	33	13.485	0.074	0.926	LL
1888		19242.30	199	2.236	0.447	0.553	
1889		17146.46	134	3.321	0.301	0.699	
1890		21613.08	272	1.636	0.611	0.389	
1891		20908.27	254	1.752	0.571	0.429	
1892		18853.69	191	2.330	0.429	0.571	
1893		14959.96	84	5.298	0.189	0.811	LL
1894		15312.68	94	4.734	0.211	0.789	LL
1895		24462.02	362	1.229	0.813	0.187	
1896		10545.53	27	16.481	0.061	0.939	LL
1897		22695.15	308	1.445	0.692	0.308	
1898		18502.33	184	2.418	0.413	0.587	
1899		14234.85	72	6.181	0.162	0.838	LL

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1836		1095.99	168	2.649	0.378	0.622
1837		1760.06	331	1.344	0.744	0.256
1838		2685.14	417	1.067	0.937	0.063
1839		3515.86	440	1.011	0.989	0.011
1840		1775.36	334	1.332	0.751	0.249
1841		859.36	105	4.238	0.236	0.764
1842		573.82	34	13.088	0.076	0.924
1843		968.80	130	3.423	0.292	0.708
1844		2427.42	410	1.085	0.921	0.079
1845		796.04	89	5.000	0.200	0.800
1846		1363.06	235	1.894	0.528	0.472
1847		349.04	2	222.500	0.004	0.996
1848		1944.49	359	1.240	0.807	0.193
1849		2978.71	432	1.030	0.971	0.029
1850		2150.95	386	1.153	0.867	0.133
1851		629.65	47	9.468	0.106	0.894
1852		2401.69	409	1.088	0.919	0.081
1853		1518.87	286	1.556	0.643	0.357
1854		962.07	128	3.477	0.288	0.712
1855		1864.89	346	1.286	0.778	0.222
1856		1626.98	309	1.440	0.694	0.306
1857		672.49	56	7.946	0.126	0.874
1858		2320.55	401	1.110	0.901	0.099
1859		810.45	94	4.734	0.211	0.789
1860		1347.39	230	1.935	0.517	0.483
1861		402.71	7	63.571	0.016	0.984
1862		1924.28	354	1.257	0.796	0.204
1863		804.33	93	4.785	0.209	0.791
1864		628.28	46	9.674	0.103	0.897
1865		2140.08	385	1.156	0.865	0.135
1866		2698.52	418	1.065	0.939	0.061
1867		2121.11	379	1.174	0.852	0.148
1868		4621.62	444	1.002	0.998	0.002
1869		2153.65	387	1.150	0.870	0.130
1870		771.06	83	5.361	0.187	0.813
1871		541.53	27	16.481	0.061	0.939
1872		798.06	91	4.890	0.204	0.796
1873		720.13	69	6.449	0.155	0.845
1874		1673.57	315	1.413	0.708	0.292
1875		1219.05	201	2.214	0.452	0.548
1876		942.22	122	3.648	0.274	0.726
1877		1516.82	283	1.572	0.636	0.364
1878		1408.30	250	1.780	0.562	0.438
1879		848.50	102	4.363	0.229	0.771
1880		626.03	45	9.889	0.101	0.899
1881		752.97	78	5.705	0.175	0.825
1882		1455.04	266	1.673	0.598	0.402
1883		1063.45	156	2.853	0.351	0.649
1884		1705.61	323	1.378	0.726	0.274
1885		1751.70	330	1.348	0.742	0.258
1886		1077.43	163	2.730	0.366	0.634
1887		769.96	82	5.427	0.184	0.816
1888		1910.06	353	1.261	0.793	0.207
1889		1415.15	256	1.738	0.575	0.425
1890		1641.61	311	1.431	0.699	0.301
1891		1874.67	347	1.282	0.780	0.220
1892		1146.21	187	2.380	0.420	0.580
1893		594.83	39	11.410	0.088	0.912
1894		661.91	53	8.396	0.119	0.881
1895		1516.46	281	1.584	0.631	0.369
1896		839.87	99	4.495	0.222	0.778
1897		1623.80	307	1.450	0.690	0.310
1898		1452.28	264	1.686	0.593	0.407
1899		450.73	11	40.455	0.025	0.975

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW TIME SERIES (in cfs)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P	
1900		17912.31	162	2.747	0.364	0.636	
1901		17489.32	146	3.048	0.328	0.672	
1902		5851.49	7	63.571	0.016	0.984	LL
1903		23835.48	345	1.290	0.775	0.225	
1904		16456.25	117	3.803	0.263	0.737	
1905		25034.04	375	1.187	0.843	0.157	HH
1906		26202.01	405	1.099	0.910	0.090	HH
1907		27094.25	418	1.065	0.939	0.061	HH
1908		19333.98	202	2.203	0.454	0.546	
1909		25797.24	399	1.115	0.897	0.103	
1910		22282.80	294	1.514	0.661	0.339	
1911		24776.42	369	1.206	0.829	0.171	HH
1912		23661.94	340	1.309	0.764	0.236	
1913		20041.38	216	2.060	0.485	0.515	
1914		28288.45	431	1.032	0.969	0.031	HH
1915		21234.03	265	1.679	0.596	0.404	
1916		24591.54	366	1.216	0.822	0.178	HH
1917		27836.17	430	1.035	0.966	0.034	HH
1918		20443.23	236	1.886	0.530	0.470	
1919		17490.90	147	3.027	0.330	0.670	
1920		26940.99	415	1.072	0.933	0.067	HH
1921		28851.80	436	1.021	0.980	0.020	
1922		20869.88	252	1.766	0.566	0.434	
1923		23718.81	341	1.305	0.766	0.234	
1924		22050.11	289	1.540	0.649	0.351	
1925		18485.53	182	2.445	0.409	0.591	
1926		24765.71	368	1.209	0.827	0.173	HH
1927		24237.69	356	1.250	0.800	0.200	
1928		26986.34	417	1.067	0.937	0.063	
1929		23193.03	322	1.382	0.724	0.276	
1930		21118.83	260	1.712	0.584	0.416	
1931		13247.75	55	8.091	0.124	0.876	
1932		24002.47	348	1.279	0.782	0.218	HH
1933		18396.36	178	2.500	0.400	0.600	
1934		7103.86	9	49.444	0.020	0.980	LL
1935		20560.29	240	1.854	0.539	0.461	
1936		17012.80	132	3.371	0.297	0.703	
1937		24013.25	349	1.275	0.784	0.216	HH
1938		24430.98	359	1.240	0.807	0.193	
1939		17784.09	159	2.799	0.357	0.643	
1940		18680.70	186	2.392	0.418	0.582	
1941		25291.65	385	1.156	0.865	0.135	HH
1942		25580.99	392	1.135	0.881	0.119	
1943		19681.49	207	2.150	0.465	0.535	
1944		16827.39	128	3.477	0.288	0.712	
1945		16517.96	119	3.739	0.267	0.733	
1946		13324.73	57	7.807	0.128	0.872	LL
1947		23959.97	347	1.282	0.780	0.220	
1948		21085.60	259	1.718	0.582	0.418	
1949		25276.66	384	1.159	0.863	0.137	HH
1950		17622.50	154	2.890	0.346	0.654	
1951		17976.72	165	2.697	0.371	0.629	
1952		26633.88	410	1.085	0.921	0.079	HH
1953		14898.11	80	5.563	0.180	0.820	LL
1954		9636.30	17	26.176	0.038	0.962	LL
1955		18155.17	170	2.618	0.382	0.618	
1956		15985.07	103	4.320	0.231	0.769	LL
1957		27724.11	429	1.037	0.964	0.036	
1958		25165.09	380	1.171	0.854	0.146	
1959		11303.87	32	13.906	0.072	0.928	LL
1960		20250.10	226	1.969	0.508	0.492	
1961		13634.97	64	6.953	0.144	0.856	LL
1962		28984.72	437	1.018	0.982	0.018	
1963		17560.82	150	2.967	0.337	0.663	
1964		17186.86	136	3.272	0.306	0.694	

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1900		531.80	26	17.115	0.058	0.942
1901		1411.25	253	1.759	0.569	0.431
1902		457.25	14	31.786	0.031	0.969
1903		1716.81	324	1.373	0.728	0.272
1904		358.73	3	148.333	0.007	0.993
1905		2637.25	416	1.070	0.935	0.065
1906		2029.97	373	1.193	0.838	0.162
1907		2791.80	424	1.050	0.953	0.047
1908		2129.64	381	1.168	0.856	0.144
1909		1638.15	310	1.435	0.697	0.303
1910		1037.64	151	2.947	0.339	0.661
1911		2794.02	425	1.047	0.955	0.045
1912		1767.83	333	1.336	0.748	0.252
1913		893.09	112	3.973	0.252	0.748
1914		2510.46	412	1.080	0.926	0.074
1915		2794.44	426	1.045	0.957	0.043
1916		2322.69	402	1.107	0.903	0.097
1917		1984.57	365	1.219	0.820	0.180
1918		833.83	98	4.541	0.220	0.780
1919		3057.43	434	1.025	0.975	0.025
1920		2751.21	421	1.057	0.946	0.054
1921		1023.36	146	3.048	0.328	0.672
1922		1355.90	233	1.910	0.524	0.476
1923		1171.16	193	2.306	0.434	0.566
1924		2130.29	382	1.165	0.858	0.142
1925		797.03	90	4.944	0.202	0.798
1926		1964.65	361	1.233	0.811	0.189
1927		1498.39	273	1.630	0.613	0.387
1928		1064.12	157	2.834	0.353	0.647
1929		1112.65	175	2.543	0.393	0.607
1930		1650.22	313	1.422	0.703	0.297
1931		1291.61	219	2.032	0.492	0.508
1932		2333.52	404	1.101	0.908	0.092
1933		1685.24	319	1.395	0.717	0.283
1934		787.63	87	5.115	0.196	0.804
1935		1626.48	308	1.445	0.692	0.308
1936		893.37	113	3.938	0.254	0.746
1937		2527.76	413	1.077	0.928	0.072
1938		1161.82	192	2.318	0.431	0.569
1939		931.46	117	3.803	0.263	0.737
1940		1100.18	171	2.602	0.384	0.616
1941		3732.36	441	1.009	0.991	0.009
1942		1621.05	305	1.459	0.685	0.315
1943		1084.83	165	2.697	0.371	0.629
1944		1515.01	279	1.595	0.627	0.373
1945		1451.57	263	1.692	0.591	0.409
1946		634.59	48	9.271	0.108	0.892
1947		1082.50	164	2.713	0.369	0.631
1948		1516.37	280	1.589	0.629	0.371
1949		2336.62	405	1.099	0.910	0.090
1950		673.28	57	7.807	0.128	0.872
1951		451.47	12	37.083	0.027	0.973
1952		2735.49	420	1.060	0.944	0.056
1953		877.23	110	4.045	0.247	0.753
1954		753.53	79	5.633	0.178	0.822
1955		752.45	77	5.779	0.173	0.827
1956		606.64	42	10.595	0.094	0.906
1957		1454.63	265	1.679	0.596	0.404
1958		1219.10	202	2.203	0.454	0.546
1959		545.33	28	15.893	0.063	0.937
1960		1782.37	336	1.324	0.755	0.245
1961		779.87	85	5.235	0.191	0.809
1962		1605.74	300	1.483	0.674	0.326
1963		939.30	121	3.678	0.272	0.728
1964		731.30	72	6.181	0.162	0.838

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW SORTED BY MAGNITUDE (lowest => highest)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P
1685		4344.24	1	445.000	0.002	0.998
1654		5110.52	2	222.500	0.004	0.996
1542		5252.23	3	148.333	0.007	0.993
1845		5331.27	4	111.250	0.009	0.991
1532		5439.72	5	89.000	0.011	0.989
1584		5478.70	6	74.167	0.013	0.987
1902		5851.49	7	63.571	0.016	0.984
1851		6278.93	8	55.625	0.018	0.982
1934		7103.86	9	49.444	0.020	0.980
1580		7318.60	10	44.500	0.022	0.978
1871		8147.17	11	40.455	0.025	0.975
1735		8362.28	12	37.083	0.027	0.973
1879		8465.68	13	34.231	0.029	0.971
1798		8809.75	14	31.786	0.031	0.969
1847		9346.58	15	29.667	0.034	0.966
1598		9479.32	16	27.813	0.036	0.964
1954		9636.30	17	26.176	0.038	0.962
1590		9865.99	18	24.722	0.040	0.960
1600		9918.93	19	23.421	0.043	0.957
1607		10062.48	20	22.250	0.045	0.955
1773		10093.45	21	21.190	0.047	0.953
1824		10187.69	22	20.227	0.049	0.951
1585		10259.44	23	19.348	0.052	0.948
1748		10371.31	24	18.542	0.054	0.946
1729		10441.82	25	17.800	0.056	0.944
1861		10490.94	26	17.115	0.058	0.942
1896		10545.53	27	16.481	0.061	0.939
1686		10743.12	28	15.893	0.063	0.937
1855		10768.92	29	15.345	0.065	0.935
1667		10840.19	30	14.833	0.067	0.933
1756		11152.62	31	14.355	0.070	0.930
1959		11303.87	32	13.906	0.072	0.928
1887		11368.20	33	13.485	0.074	0.926
1545		11558.23	34	13.088	0.076	0.924
1632		11580.02	35	12.714	0.079	0.921
1591		11768.75	36	12.361	0.081	0.919
1531		11770.96	37	12.027	0.083	0.917
1736		11866.41	38	11.711	0.085	0.915
1777		11974.17	39	11.410	0.088	0.912
1846		12219.78	40	11.125	0.090	0.910
1558		12244.33	41	10.854	0.092	0.908
1714		12377.62	42	10.595	0.094	0.906
1842		12388.06	43	10.349	0.097	0.903
1631		12412.04	44	10.114	0.099	0.901
1722		12480.26	45	9.889	0.101	0.899
1653		12641.67	46	9.674	0.103	0.897
1684		12655.89	47	9.468	0.106	0.894
1592		12737.33	48	9.271	0.108	0.892
1670		12753.19	49	9.082	0.110	0.890
1704		12778.52	50	8.900	0.112	0.888
1707		12828.09	51	8.725	0.115	0.885
1664		13046.53	52	8.558	0.117	0.883
1789		13065.65	53	8.396	0.119	0.881
1763		13242.92	54	8.241	0.121	0.879
1931		13247.75	55	8.091	0.124	0.876
1668		13261.72	56	7.946	0.126	0.874
1946		13324.73	57	7.807	0.128	0.872
1780		13358.18	58	7.672	0.130	0.870
1820		13376.25	59	7.542	0.133	0.867

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1748		252.20	1	445.000	0.002	0.998
1847		349.04	2	222.500	0.004	0.996
1904		358.73	3	148.333	0.007	0.993
1542		369.57	4	111.250	0.009	0.991
1818		390.85	5	89.000	0.011	0.989
1773		398.95	6	74.167	0.013	0.987
1861		402.71	7	63.571	0.016	0.984
1822		403.09	8	55.625	0.018	0.982
1735		409.12	9	49.444	0.020	0.980
1685		416.99	10	44.500	0.022	0.978
1899		450.73	11	40.455	0.025	0.975
1951		451.47	12	37.083	0.027	0.973
1729		456.66	13	34.231	0.029	0.971
1902		457.25	14	31.786	0.031	0.969
1752		461.00	15	29.667	0.034	0.966
1573		465.80	16	27.813	0.036	0.964
1585		471.47	17	26.176	0.038	0.962
1600		477.13	18	24.722	0.040	0.960
1670		477.50	19	23.421	0.043	0.957
1728		481.65	20	22.250	0.045	0.955
1522		501.99	21	21.190	0.047	0.953
1654		503.33	22	20.227	0.049	0.951
1623		523.51	23	19.348	0.052	0.948
1819		529.26	24	18.542	0.054	0.946
1632		531.10	25	17.800	0.056	0.944
1900		531.80	26	17.115	0.058	0.942
1871		541.53	27	16.481	0.061	0.939
1959		545.33	28	15.893	0.063	0.937
1584		552.24	29	15.345	0.065	0.935
1648		553.03	30	14.833	0.067	0.933
1820		556.37	31	14.355	0.070	0.930
1684		564.67	32	13.906	0.072	0.928
1785		568.53	33	13.485	0.074	0.926
1842		573.82	34	13.088	0.076	0.924
1780		574.92	35	12.714	0.079	0.921
1583		588.20	36	12.361	0.081	0.919
1579		591.08	37	12.027	0.083	0.917
1829		593.00	38	11.711	0.085	0.915
1893		594.83	39	11.410	0.088	0.912
1590		596.75	40	11.125	0.090	0.910
1538		605.37	41	10.854	0.092	0.908
1956		606.64	42	10.595	0.094	0.906
1813		612.18	43	10.349	0.097	0.903
1601		622.13	44	10.114	0.099	0.901
1880		626.03	45	9.889	0.101	0.899
1864		628.28	46	9.674	0.103	0.897
1851		629.65	47	9.468	0.106	0.894
1946		634.59	48	9.271	0.108	0.892
1532		641.51	49	9.082	0.110	0.890
1592		644.08	50	8.900	0.112	0.888
1668		644.71	51	8.725	0.115	0.885
1716		653.98	52	8.558	0.117	0.883
1894		661.91	53	8.396	0.119	0.881
1733		665.75	54	8.241	0.121	0.879
1778		667.84	55	8.091	0.124	0.876
1857		672.49	56	7.946	0.126	0.874
1950		673.28	57	7.807	0.128	0.872
1574		673.87	58	7.672	0.130	0.870
1782		676.75	59	7.542	0.133	0.867

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW SORTED BY MAGNITUDE (lowest => highest)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P
1822		13385.83	60	7.417	0.135	0.865
1813		13415.13	61	7.295	0.137	0.863
1708		13474.33	62	7.177	0.139	0.861
1782		13598.32	63	7.063	0.142	0.858
1961		13634.97	64	6.953	0.144	0.856
1882		13679.79	65	6.846	0.146	0.854
1626		13852.29	66	6.742	0.148	0.852
1857		13898.24	67	6.642	0.151	0.849
1583		14072.88	68	6.544	0.153	0.847
1740		14106.47	69	6.449	0.155	0.845
1829		14191.01	70	6.357	0.157	0.843
1786		14216.54	71	6.268	0.160	0.840
1899		14234.85	72	6.181	0.162	0.838
1706		14337.26	73	6.096	0.164	0.836
1666		14469.66	74	6.014	0.166	0.834
1671		14552.04	75	5.933	0.169	0.831
1646		14710.00	76	5.855	0.171	0.829
1544		14726.08	77	5.779	0.173	0.827
1637		14862.11	78	5.705	0.175	0.825
1805		14876.08	79	5.633	0.178	0.822
1953		14898.11	80	5.563	0.180	0.820
1806		14911.95	81	5.494	0.182	0.818
1864		14927.99	82	5.427	0.184	0.816
1767		14946.54	83	5.361	0.187	0.813
1893		14959.96	84	5.298	0.189	0.811
1576		15029.40	85	5.235	0.191	0.809
1728		15045.80	86	5.174	0.193	0.807
1788		15114.83	87	5.115	0.196	0.804
1645		15115.95	88	5.057	0.198	0.802
1765		15166.07	89	5.000	0.200	0.800
1648		15188.17	90	4.944	0.202	0.798
1522		15239.04	91	4.890	0.204	0.796
1759		15240.30	92	4.837	0.207	0.793
1823		15266.16	93	4.785	0.209	0.791
1894		15312.68	94	4.734	0.211	0.789
1625		15544.16	95	4.684	0.213	0.787
1622		15611.69	96	4.635	0.216	0.784
1755		15613.74	97	4.588	0.218	0.782
1559		15688.60	98	4.541	0.220	0.780
1597		15776.98	99	4.495	0.222	0.778
1703		15809.91	100	4.450	0.225	0.775
1573		15897.90	101	4.406	0.227	0.773
1804		15977.65	102	4.363	0.229	0.771
1956		15985.07	103	4.320	0.231	0.769
1566		15991.14	104	4.279	0.234	0.766
1801		16006.21	105	4.238	0.236	0.764
1883		16090.01	106	4.198	0.238	0.762
1781		16149.81	107	4.159	0.240	0.760
1757		16171.31	108	4.120	0.243	0.757
1716		16174.22	109	4.083	0.245	0.755
1737		16317.66	110	4.045	0.247	0.753
1863		16324.91	111	4.009	0.249	0.751
1574		16327.30	112	3.973	0.252	0.748
1814		16333.97	113	3.938	0.254	0.746
1624		16345.41	114	3.904	0.256	0.744
1794		16367.61	115	3.870	0.258	0.742
1778		16431.87	116	3.836	0.261	0.739
1904		16456.25	117	3.803	0.263	0.737
1721		16496.69	118	3.771	0.265	0.735
1945		16517.96	119	3.739	0.267	0.733

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1624		690.46	60	7.417	0.135	0.865
1788		691.06	61	7.295	0.137	0.863
1763		692.10	62	7.177	0.139	0.861
1626		700.89	63	7.063	0.142	0.858
1803		702.08	64	6.953	0.144	0.856
1724		706.11	65	6.846	0.146	0.854
1676		707.25	66	6.742	0.148	0.852
1777		712.73	67	6.642	0.151	0.849
1696		713.41	68	6.544	0.153	0.847
1873		720.13	69	6.449	0.155	0.845
1707		727.08	70	6.357	0.157	0.843
1547		727.77	71	6.268	0.160	0.840
1964		731.30	72	6.181	0.162	0.838
1667		732.93	73	6.096	0.164	0.836
1580		737.96	74	6.014	0.166	0.834
1805		738.70	75	5.933	0.169	0.831
1613		751.00	76	5.855	0.171	0.829
1955		752.45	77	5.779	0.173	0.827
1881		752.97	78	5.705	0.175	0.825
1954		753.53	79	5.633	0.178	0.822
1576		754.33	80	5.563	0.180	0.820
1806		768.17	81	5.494	0.182	0.818
1887		769.96	82	5.427	0.184	0.816
1870		771.06	83	5.361	0.187	0.813
1753		776.31	84	5.298	0.189	0.811
1961		779.87	85	5.235	0.191	0.809
1794		780.68	86	5.174	0.193	0.807
1934		787.63	87	5.115	0.196	0.804
1561		788.64	88	5.057	0.198	0.802
1845		796.04	89	5.000	0.200	0.800
1925		797.03	90	4.944	0.202	0.798
1872		798.06	91	4.890	0.204	0.796
1739		803.10	92	4.837	0.207	0.793
1863		804.33	93	4.785	0.209	0.791
1859		810.45	94	4.734	0.211	0.789
1801		811.73	95	4.684	0.213	0.787
1823		823.98	96	4.635	0.216	0.784
1700		830.55	97	4.588	0.218	0.782
1918		833.83	98	4.541	0.220	0.780
1896		839.87	99	4.495	0.222	0.778
1669		840.23	100	4.450	0.225	0.775
1666		845.74	101	4.406	0.227	0.773
1879		848.50	102	4.363	0.229	0.771
1527		850.70	103	4.320	0.231	0.769
1755		853.63	104	4.279	0.234	0.766
1841		859.36	105	4.238	0.236	0.764
1761		861.04	106	4.198	0.238	0.762
1715		867.81	107	4.159	0.240	0.760
1800		871.30	108	4.120	0.243	0.757
1571		873.47	109	4.083	0.245	0.755
1953		877.23	110	4.045	0.247	0.753
1593		879.93	111	4.009	0.249	0.751
1913		893.09	112	3.973	0.252	0.748
1936		893.37	113	3.938	0.254	0.746
1657		903.16	114	3.904	0.256	0.744
1765		914.37	115	3.870	0.258	0.742
1653		914.95	116	3.836	0.261	0.739
1939		931.46	117	3.803	0.263	0.737
1560		936.06	118	3.771	0.265	0.735
1708		937.31	119	3.739	0.267	0.733

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW SORTED BY MAGNITUDE (lowest => highest)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P
1562		16524.55	120	3.708	0.270	0.730
1809		16600.60	121	3.678	0.272	0.728
1830		16612.38	122	3.648	0.274	0.726
1776		16643.84	123	3.618	0.276	0.724
1774		16655.12	124	3.589	0.279	0.721
1538		16697.17	125	3.560	0.281	0.719
1551		16735.18	126	3.532	0.283	0.717
1623		16786.84	127	3.504	0.285	0.715
1944		16827.39	128	3.477	0.288	0.712
1581		16871.23	129	3.450	0.290	0.710
1834		16905.79	130	3.423	0.292	0.708
1881		16941.44	131	3.397	0.294	0.706
1936		17012.80	132	3.371	0.297	0.703
1663		17130.55	133	3.346	0.299	0.701
1889		17146.46	134	3.321	0.301	0.699
1744		17154.70	135	3.296	0.303	0.697
1964		17186.86	136	3.272	0.306	0.694
1713		17198.29	137	3.248	0.308	0.692
1825		17208.15	138	3.225	0.310	0.690
1709		17220.15	139	3.201	0.312	0.688
1750		17226.55	140	3.179	0.315	0.685
1658		17257.24	141	3.156	0.317	0.683
1870		17304.93	142	3.134	0.319	0.681
1567		17351.58	143	3.112	0.321	0.679
1675		17394.45	144	3.090	0.324	0.676
1730		17469.26	145	3.069	0.326	0.674
1901		17489.32	146	3.048	0.328	0.672
1919		17490.90	147	3.027	0.330	0.670
1878		17513.05	148	3.007	0.333	0.667
1875		17531.66	149	2.987	0.335	0.665
1963		17560.82	150	2.967	0.337	0.663
1880		17562.40	151	2.947	0.339	0.661
1742		17576.35	152	2.928	0.342	0.658
1638		17588.47	153	2.908	0.344	0.656
1950		17622.50	154	2.890	0.346	0.654
1652		17646.93	155	2.871	0.348	0.652
1682		17719.41	156	2.853	0.351	0.649
1877		17745.93	157	2.834	0.353	0.647
1886		17768.89	158	2.816	0.355	0.645
1939		17784.09	159	2.799	0.357	0.643
1770		17826.60	160	2.781	0.360	0.640
1800		17885.69	161	2.764	0.362	0.638
1900		17912.31	162	2.747	0.364	0.636
1724		17955.65	163	2.730	0.366	0.634
1662		17965.35	164	2.713	0.369	0.631
1951		17976.72	165	2.697	0.371	0.629
1612		17991.47	166	2.681	0.373	0.627
1874		18004.17	167	2.665	0.375	0.625
1779		18037.13	168	2.649	0.378	0.622
1619		18106.78	169	2.633	0.380	0.620
1955		18155.17	170	2.618	0.382	0.618
1717		18194.69	171	2.602	0.384	0.616
1752		18241.50	172	2.587	0.387	0.613
1723		18255.31	173	2.572	0.389	0.611
1795		18262.14	174	2.557	0.391	0.609
1793		18263.57	175	2.543	0.393	0.607
1772		18353.87	176	2.528	0.396	0.604
1695		18387.54	177	2.514	0.398	0.602
1933		18396.36	178	2.500	0.400	0.600
1579		18461.32	179	2.486	0.402	0.598
1808		18471.83	180	2.472	0.404	0.596
1593		18476.79	181	2.459	0.407	0.593
1925		18485.53	182	2.445	0.409	0.591
1731		18500.62	183	2.432	0.411	0.589
1898		18502.33	184	2.418	0.413	0.587
1873		18566.47	185	2.405	0.416	0.584

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1750		937.72	120	3.708	0.270	0.730
1963		939.30	121	3.678	0.272	0.728
1876		942.22	122	3.648	0.274	0.726
1664		944.79	123	3.618	0.276	0.724
1798		951.68	124	3.589	0.279	0.721
1790		956.14	125	3.560	0.281	0.719
1582		958.54	126	3.532	0.283	0.717
1737		959.94	127	3.504	0.285	0.715
1854		962.07	128	3.477	0.288	0.712
1637		967.48	129	3.450	0.290	0.710
1843		968.80	130	3.423	0.292	0.708
1559		974.95	131	3.397	0.294	0.706
1558		976.59	132	3.371	0.297	0.703
1797		993.77	133	3.346	0.299	0.701
1810		996.67	134	3.321	0.301	0.699
1703		997.43	135	3.296	0.303	0.697
1742		1001.15	136	3.272	0.306	0.694
1591		1005.54	137	3.248	0.308	0.692
1598		1006.03	138	3.225	0.310	0.690
1521		1006.37	139	3.201	0.312	0.688
1789		1007.07	140	3.179	0.315	0.685
1523		1007.23	141	3.156	0.317	0.683
1713		1014.71	142	3.134	0.319	0.681
1786		1019.87	143	3.112	0.321	0.679
1704		1022.98	144	3.090	0.324	0.676
1722		1023.27	145	3.069	0.326	0.674
1921		1023.36	146	3.048	0.328	0.672
1548		1024.96	147	3.027	0.330	0.670
1827		1033.39	148	3.007	0.333	0.667
1832		1034.64	149	2.987	0.335	0.665
1740		1037.33	150	2.967	0.337	0.663
1910		1037.64	151	2.947	0.339	0.661
1658		1037.80	152	2.928	0.342	0.658
1524		1040.71	153	2.908	0.344	0.656
1727		1052.87	154	2.890	0.346	0.654
1709		1060.34	155	2.871	0.348	0.652
1883		1063.45	156	2.853	0.351	0.649
1928		1064.12	157	2.834	0.353	0.647
1528		1068.14	158	2.816	0.355	0.645
1638		1070.92	159	2.799	0.357	0.643
1628		1072.13	160	2.781	0.360	0.640
1545		1075.65	161	2.764	0.362	0.638
1567		1076.84	162	2.747	0.364	0.636
1886		1077.43	163	2.730	0.366	0.634
1947		1082.50	164	2.713	0.369	0.631
1943		1084.83	165	2.697	0.371	0.629
1554		1085.89	166	2.681	0.373	0.627
1757		1092.17	167	2.665	0.375	0.625
1836		1095.99	168	2.649	0.378	0.622
1533		1098.66	169	2.633	0.380	0.620
1566		1099.61	170	2.618	0.382	0.618
1940		1100.18	171	2.602	0.384	0.616
1562		1101.33	172	2.587	0.387	0.613
1544		1110.26	173	2.572	0.389	0.611
1675		1112.52	174	2.557	0.391	0.609
1929		1112.65	175	2.543	0.393	0.607
1731		1115.14	176	2.528	0.396	0.604
1631		1120.28	177	2.514	0.398	0.602
1817		1122.11	178	2.500	0.400	0.600
1730		1127.97	179	2.486	0.402	0.598
1796		1129.89	180	2.472	0.404	0.596
1751		1131.00	181	2.459	0.407	0.593
1531		1135.23	182	2.445	0.409	0.591
1769		1136.18	183	2.432	0.411	0.589
1679		1138.43	184	2.418	0.413	0.587
1597		1140.98	185	2.405	0.416	0.584

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW SORTED BY MAGNITUDE (lowest => highest)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P
1940		18680.70	186	2.392	0.418	0.582
1819		18762.54	187	2.380	0.420	0.580
1700		18770.64	188	2.367	0.422	0.578
1665		18783.42	189	2.354	0.425	0.575
1571		18799.14	190	2.342	0.427	0.573
1892		18853.69	191	2.330	0.429	0.571
1810		18861.71	192	2.318	0.431	0.569
1696		18968.80	193	2.306	0.434	0.566
1629		19197.26	194	2.294	0.436	0.564
1856		19217.46	195	2.282	0.438	0.562
1715		19234.70	196	2.270	0.440	0.560
1630		19235.64	197	2.259	0.443	0.557
1568		19238.98	198	2.247	0.445	0.555
1888		19242.30	199	2.236	0.447	0.553
1563		19291.67	200	2.225	0.449	0.551
1587		19311.51	201	2.214	0.452	0.548
1908		19333.98	202	2.203	0.454	0.546
1835		19342.81	203	2.192	0.456	0.544
1751		19439.08	204	2.181	0.458	0.542
1854		19506.24	205	2.171	0.461	0.539
1636		19580.65	206	2.160	0.463	0.537
1943		19681.49	207	2.150	0.465	0.535
1818		19693.14	208	2.139	0.467	0.533
1561		19806.89	209	2.129	0.470	0.530
1613		19849.90	210	2.119	0.472	0.528
1529		19907.24	211	2.109	0.474	0.526
1528		19908.20	212	2.099	0.476	0.524
1783		19996.71	213	2.089	0.479	0.521
1732		19997.02	214	2.079	0.481	0.519
1575		20037.62	215	2.070	0.483	0.517
1913		20041.38	216	2.060	0.485	0.515
1634		20046.60	217	2.051	0.488	0.512
1694		20058.55	218	2.041	0.490	0.510
1627		20072.64	219	2.032	0.492	0.508
1641		20093.47	220	2.023	0.494	0.506
1836		20099.93	221	2.014	0.497	0.503
1698		20109.41	222	2.005	0.499	0.501
1635		20180.64	223	1.996	0.501	0.499
1644		20223.18	224	1.987	0.503	0.497
1872		20237.18	225	1.978	0.506	0.494
1960		20250.10	226	1.969	0.508	0.492
1582		20256.23	227	1.960	0.510	0.490
1859		20258.28	228	1.952	0.512	0.488
1608		20296.44	229	1.943	0.515	0.485
1589		20363.66	230	1.935	0.517	0.483
1527		20367.50	231	1.926	0.519	0.481
1601		20391.78	232	1.918	0.521	0.479
1588		20396.58	233	1.910	0.524	0.476
1533		20422.46	234	1.902	0.526	0.474
1733		20430.62	235	1.894	0.528	0.472
1918		20443.23	236	1.886	0.530	0.470
1659		20493.09	237	1.878	0.533	0.467
1869		20541.22	238	1.870	0.535	0.465
1530		20544.23	239	1.862	0.537	0.463
1935		20560.29	240	1.854	0.539	0.461
1827		20603.91	241	1.846	0.542	0.458
1572		20630.96	242	1.839	0.544	0.456
1754		20660.20	243	1.831	0.546	0.454
1860		20722.35	244	1.824	0.548	0.452
1692		20724.88	245	1.816	0.551	0.449
1661		20728.99	246	1.809	0.553	0.447
1775		20748.66	247	1.802	0.555	0.445
1712		20765.54	248	1.794	0.557	0.443
1739		20776.92	249	1.787	0.560	0.440

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1589		1141.76	186	2.392	0.418	0.582
1892		1146.21	187	2.380	0.420	0.580
1551		1148.79	188	2.367	0.422	0.578
1756		1150.86	189	2.354	0.425	0.575
1645		1150.97	190	2.342	0.427	0.573
1702		1158.89	191	2.330	0.429	0.571
1938		1161.82	192	2.318	0.431	0.569
1923		1171.16	193	2.306	0.434	0.566
1736		1180.64	194	2.294	0.436	0.564
1694		1186.94	195	2.282	0.438	0.562
1697		1188.04	196	2.270	0.440	0.560
1619		1205.57	197	2.259	0.443	0.557
1575		1207.06	198	2.247	0.445	0.555
1691		1211.08	199	2.236	0.447	0.553
1662		1216.38	200	2.225	0.449	0.551
1875		1219.05	201	2.214	0.452	0.548
1958		1219.10	202	2.203	0.454	0.546
1744		1220.46	203	2.192	0.456	0.544
1622		1223.36	204	2.181	0.458	0.542
1578		1225.85	205	2.171	0.461	0.539
1614		1232.93	206	2.160	0.463	0.537
1678		1233.59	207	2.150	0.465	0.535
1572		1240.26	208	2.139	0.467	0.533
1767		1240.91	209	2.129	0.470	0.530
1698		1241.78	210	2.119	0.472	0.528
1831		1242.41	211	2.109	0.474	0.526
1607		1247.41	212	2.099	0.476	0.524
1581		1255.77	213	2.089	0.479	0.521
1711		1258.24	214	2.079	0.481	0.519
1781		1262.49	215	2.070	0.483	0.517
1779		1264.62	216	2.060	0.485	0.515
1612		1283.20	217	2.051	0.488	0.512
1541		1283.21	218	2.041	0.490	0.510
1931		1291.61	219	2.032	0.492	0.508
1721		1298.84	220	2.023	0.494	0.506
1616		1300.00	221	2.014	0.497	0.503
1760		1305.54	222	2.005	0.499	0.501
1811		1306.88	223	1.996	0.501	0.499
1717		1311.41	224	1.987	0.503	0.497
1738		1317.34	225	1.978	0.506	0.494
1808		1332.76	226	1.969	0.508	0.492
1734		1334.58	227	1.960	0.510	0.490
1643		1339.20	228	1.952	0.512	0.488
1834		1342.40	229	1.943	0.515	0.485
1860		1347.39	230	1.935	0.517	0.483
1772		1348.54	231	1.926	0.519	0.481
1606		1352.82	232	1.918	0.521	0.479
1922		1355.90	233	1.910	0.524	0.476
1659		1356.00	234	1.902	0.526	0.474
1846		1363.06	235	1.894	0.528	0.472
1535		1363.31	236	1.886	0.530	0.470
1824		1369.27	237	1.878	0.533	0.467
1557		1371.48	238	1.870	0.535	0.465
1812		1371.90	239	1.862	0.537	0.463
1595		1377.32	240	1.854	0.539	0.461
1671		1377.62	241	1.846	0.542	0.458
1776		1378.20	242	1.839	0.544	0.456
1774		1385.27	243	1.831	0.546	0.454
1770		1388.05	244	1.824	0.548	0.452
1663		1390.97	245	1.816	0.551	0.449
1712		1396.64	246	1.809	0.553	0.447
1754		1397.74	247	1.802	0.555	0.445
1674		1398.53	248	1.794	0.557	0.443
1719		1401.03	249	1.787	0.560	0.440

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW SORTED BY MAGNITUDE (lowest => highest)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P
1690		20792.04	250	1.780	0.562	0.438
1602		20835.71	251	1.773	0.564	0.436
1922		20869.88	252	1.766	0.566	0.434
1803		20874.47	253	1.759	0.569	0.431
1891		20908.27	254	1.752	0.571	0.429
1687		20999.60	255	1.745	0.573	0.427
1758		21028.67	256	1.738	0.575	0.425
1543		21061.61	257	1.732	0.578	0.422
1669		21069.88	258	1.725	0.580	0.420
1948		21085.60	259	1.718	0.582	0.418
1930		21118.83	260	1.712	0.584	0.416
1711		21131.84	261	1.705	0.587	0.413
1656		21186.05	262	1.698	0.589	0.411
1807		21197.46	263	1.692	0.591	0.409
1831		21219.97	264	1.686	0.593	0.407
1915		21234.03	265	1.679	0.596	0.404
1876		21238.73	266	1.673	0.598	0.402
1710		21262.89	267	1.667	0.600	0.400
1705		21527.86	268	1.660	0.602	0.398
1616		21555.47	269	1.654	0.604	0.396
1620		21584.99	270	1.648	0.607	0.393
1569		21609.42	271	1.642	0.609	0.391
1890		21613.08	272	1.636	0.611	0.389
1799		21639.26	273	1.630	0.613	0.387
1848		21658.01	274	1.624	0.616	0.384
1677		21695.46	275	1.618	0.618	0.382
1865		21737.46	276	1.612	0.620	0.380
1841		21740.09	277	1.606	0.622	0.378
1689		21760.95	278	1.601	0.625	0.375
1817		21780.60	279	1.595	0.627	0.373
1718		21816.90	280	1.589	0.629	0.371
1745		21847.63	281	1.584	0.631	0.369
1761		21886.92	282	1.578	0.634	0.366
1628		21887.63	283	1.572	0.636	0.364
1785		21889.34	284	1.567	0.638	0.362
1642		21896.08	285	1.561	0.640	0.360
1769		21956.89	286	1.556	0.643	0.357
1858		22012.34	287	1.551	0.645	0.355
1679		22020.52	288	1.545	0.647	0.353
1924		22050.11	289	1.540	0.649	0.351
1699		22081.86	290	1.534	0.652	0.348
1815		22134.80	291	1.529	0.654	0.346
1586		22234.86	292	1.524	0.656	0.344
1599		22235.39	293	1.519	0.658	0.342
1910		22282.80	294	1.514	0.661	0.339
1609		22306.69	295	1.508	0.663	0.337
1833		22330.97	296	1.503	0.665	0.335
1844		22345.53	297	1.498	0.667	0.333
1683		22391.06	298	1.493	0.670	0.330
1595		22407.44	299	1.488	0.672	0.328
1541		22416.34	300	1.483	0.674	0.326
1826		22452.99	301	1.478	0.676	0.324
1552		22512.59	302	1.474	0.679	0.321
1525		22522.33	303	1.469	0.681	0.319
1639		22578.74	304	1.464	0.683	0.317
1697		22632.85	305	1.459	0.685	0.315
1643		22686.10	306	1.454	0.688	0.312
1821		22692.46	307	1.450	0.690	0.310
1897		22695.15	308	1.445	0.692	0.308
1688		22837.75	309	1.440	0.694	0.306
1741		22856.28	310	1.435	0.697	0.303
1547		22872.19	311	1.431	0.699	0.301
1660		22874.49	312	1.426	0.701	0.299
1676		22915.91	313	1.422	0.703	0.297
1594		22943.78	314	1.417	0.706	0.294
1760		22975.06	315	1.413	0.708	0.292

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1878		1408.30	250	1.780	0.562	0.438
1652		1409.52	251	1.773	0.564	0.436
1570		1410.87	252	1.766	0.566	0.434
1901		1411.25	253	1.759	0.569	0.431
1636		1412.65	254	1.752	0.571	0.429
1646		1414.62	255	1.745	0.573	0.427
1889		1415.15	256	1.738	0.575	0.425
1534		1420.52	257	1.732	0.578	0.422
1723		1426.02	258	1.725	0.580	0.420
1577		1430.37	259	1.718	0.582	0.418
1552		1437.73	260	1.712	0.584	0.416
1826		1438.12	261	1.705	0.587	0.413
1587		1441.52	262	1.698	0.589	0.411
1945		1451.57	263	1.692	0.591	0.409
1898		1452.28	264	1.686	0.593	0.407
1957		1454.63	265	1.679	0.596	0.404
1882		1455.04	266	1.673	0.598	0.402
1714		1467.90	267	1.667	0.600	0.400
1602		1481.12	268	1.660	0.602	0.398
1625		1487.63	269	1.654	0.604	0.396
1673		1495.31	270	1.648	0.607	0.393
1809		1497.25	271	1.642	0.609	0.391
1525		1497.54	272	1.636	0.611	0.389
1927		1498.39	273	1.630	0.613	0.387
1615		1498.53	274	1.624	0.616	0.384
1741		1502.85	275	1.618	0.618	0.382
1529		1504.70	276	1.612	0.620	0.380
1642		1509.09	277	1.606	0.622	0.378
1705		1513.70	278	1.601	0.625	0.375
1944		1515.01	279	1.595	0.627	0.373
1948		1516.37	280	1.589	0.629	0.371
1895		1516.46	281	1.584	0.631	0.369
1563		1516.53	282	1.578	0.634	0.366
1877		1516.82	283	1.572	0.636	0.364
1672		1518.59	284	1.567	0.638	0.362
1825		1518.78	285	1.561	0.640	0.360
1853		1518.87	286	1.556	0.643	0.357
1775		1521.03	287	1.551	0.645	0.355
1665		1524.60	288	1.545	0.647	0.353
1688		1534.94	289	1.540	0.649	0.351
1686		1535.43	290	1.534	0.652	0.348
1732		1548.20	291	1.529	0.654	0.346
1569		1553.82	292	1.524	0.656	0.344
1706		1563.52	293	1.519	0.658	0.342
1568		1568.96	294	1.514	0.661	0.339
1802		1574.67	295	1.508	0.663	0.337
1611		1583.58	296	1.503	0.665	0.335
1546		1586.84	297	1.498	0.667	0.333
1617		1588.27	298	1.493	0.670	0.330
1633		1592.12	299	1.488	0.672	0.328
1962		1605.74	300	1.483	0.674	0.326
1605		1607.17	301	1.478	0.676	0.324
1677		1607.24	302	1.474	0.679	0.321
1814		1618.95	303	1.469	0.681	0.319
1656		1620.74	304	1.464	0.683	0.317
1942		1621.05	305	1.459	0.685	0.315
1795		1621.14	306	1.454	0.688	0.312
1897		1623.80	307	1.450	0.690	0.310
1935		1626.48	308	1.445	0.692	0.308
1856		1626.98	309	1.440	0.694	0.306
1909		1638.15	310	1.435	0.697	0.303
1890		1641.61	311	1.431	0.699	0.301
1603		1646.00	312	1.426	0.701	0.299
1930		1650.22	313	1.422	0.703	0.297
1799		1673.09	314	1.417	0.706	0.294
1874		1673.57	315	1.413	0.708	0.292

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW SORTED BY MAGNITUDE (lowest => highest)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P
1674		23019.89	316	1.408	0.710	0.290
1766		23022.72	317	1.404	0.712	0.288
1743		23085.49	318	1.399	0.715	0.285
1611		23099.99	319	1.395	0.717	0.283
1771		23135.02	320	1.391	0.719	0.281
1535		23184.67	321	1.386	0.721	0.279
1929		23193.03	322	1.382	0.724	0.276
1693		23217.19	323	1.378	0.726	0.274
1852		23270.23	324	1.373	0.728	0.272
1753		23276.29	325	1.369	0.730	0.270
1650		23284.62	326	1.365	0.733	0.267
1578		23285.49	327	1.361	0.735	0.265
1681		23310.67	328	1.357	0.737	0.263
1614		23333.23	329	1.353	0.739	0.261
1603		23342.99	330	1.348	0.742	0.258
1672		23366.90	331	1.344	0.744	0.256
1606		23369.52	332	1.340	0.746	0.254
1554		23394.17	333	1.336	0.748	0.252
1812		23449.33	334	1.332	0.751	0.249
1749		23519.30	335	1.328	0.753	0.247
1546		23526.37	336	1.324	0.755	0.245
1651		23541.10	337	1.320	0.757	0.243
1702		23596.94	338	1.317	0.760	0.240
1787		23633.93	339	1.313	0.762	0.238
1912		23661.94	340	1.309	0.764	0.236
1923		23718.81	341	1.305	0.766	0.234
1596		23725.64	342	1.301	0.769	0.231
1539		23761.46	343	1.297	0.771	0.229
1537		23823.96	344	1.294	0.773	0.227
1903		23835.48	345	1.290	0.775	0.225
1802		23853.97	346	1.286	0.778	0.222
1947		23959.97	347	1.282	0.780	0.220
1932		24002.47	348	1.279	0.782	0.218
1937		24013.25	349	1.275	0.784	0.216
1647		24041.50	350	1.271	0.787	0.213
1738		24078.59	351	1.268	0.789	0.211
1657		24088.94	352	1.264	0.791	0.209
1762		24093.04	353	1.261	0.793	0.207
1727		24107.70	354	1.257	0.796	0.204
1618		24181.39	355	1.254	0.798	0.202
1927		24237.69	356	1.250	0.800	0.200
1526		24288.57	357	1.246	0.802	0.198
1570		24332.20	358	1.243	0.804	0.196
1938		24430.98	359	1.240	0.807	0.193
1548		24436.41	360	1.236	0.809	0.191
1725		24440.54	361	1.233	0.811	0.189
1895		24462.02	362	1.229	0.813	0.187
1560		24470.43	363	1.226	0.816	0.184
1764		24494.35	364	1.223	0.818	0.182
1534		24543.33	365	1.219	0.820	0.180
1916		24591.54	366	1.216	0.822	0.178
1678		24638.13	367	1.213	0.825	0.175
1926		24765.71	368	1.209	0.827	0.173
1911		24776.42	369	1.206	0.829	0.171
1605		24796.56	370	1.203	0.831	0.169
1885		24884.34	371	1.199	0.834	0.166
1791		24931.83	372	1.196	0.836	0.164
1850		24965.50	373	1.193	0.838	0.162
1649		24971.73	374	1.190	0.840	0.160
1905		25034.04	375	1.187	0.843	0.157
1719		25099.68	376	1.184	0.845	0.155
1640		25113.56	377	1.180	0.847	0.153
1816		25120.16	378	1.177	0.849	0.151
1691		25135.15	379	1.174	0.852	0.148

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1682		1674.09	316	1.408	0.710	0.290
1835		1683.50	317	1.404	0.712	0.288
1830		1683.92	318	1.399	0.715	0.285
1933		1685.24	319	1.395	0.717	0.283
1537		1685.31	320	1.391	0.719	0.281
1655		1692.76	321	1.386	0.721	0.279
1596		1695.64	322	1.382	0.724	0.276
1884		1705.61	323	1.378	0.726	0.274
1903		1716.81	324	1.373	0.728	0.272
1586		1717.66	325	1.369	0.730	0.270
1649		1717.89	326	1.365	0.733	0.267
1608		1733.39	327	1.361	0.735	0.265
1695		1735.22	328	1.357	0.737	0.263
1759		1735.75	329	1.353	0.739	0.261
1885		1751.70	330	1.348	0.742	0.258
1837		1760.06	331	1.344	0.744	0.256
1539		1763.49	332	1.340	0.746	0.254
1912		1767.83	333	1.336	0.748	0.252
1840		1775.36	334	1.332	0.751	0.249
1549		1780.55	335	1.328	0.753	0.247
1960		1782.37	336	1.324	0.755	0.245
1588		1788.16	337	1.320	0.757	0.243
1693		1794.78	338	1.317	0.760	0.240
1530		1797.93	339	1.313	0.762	0.238
1821		1802.53	340	1.309	0.764	0.236
1807		1814.13	341	1.305	0.766	0.234
1604		1819.19	342	1.301	0.769	0.231
1783		1827.60	343	1.297	0.771	0.229
1768		1859.77	344	1.294	0.773	0.227
1762		1864.62	345	1.290	0.775	0.225
1855		1864.89	346	1.286	0.778	0.222
1891		1874.67	347	1.282	0.780	0.220
1725		1883.65	348	1.279	0.782	0.218
1639		1889.40	349	1.275	0.784	0.216
1661		1895.67	350	1.271	0.787	0.213
1804		1901.51	351	1.268	0.789	0.211
1629		1909.05	352	1.264	0.791	0.209
1888		1910.06	353	1.261	0.793	0.207
1862		1924.28	354	1.257	0.796	0.204
1630		1927.62	355	1.254	0.798	0.202
1543		1928.85	356	1.250	0.800	0.200
1647		1928.99	357	1.246	0.802	0.198
1555		1934.76	358	1.243	0.804	0.196
1848		1944.49	359	1.240	0.807	0.193
1641		1956.70	360	1.236	0.809	0.191
1926		1964.65	361	1.233	0.811	0.189
1609		1970.11	362	1.229	0.813	0.187
1650		1976.37	363	1.226	0.816	0.184
1526		1976.38	364	1.223	0.818	0.182
1917		1984.57	365	1.219	0.820	0.180
1620		1990.49	366	1.216	0.822	0.178
1690		1997.00	367	1.213	0.825	0.175
1634		1999.25	368	1.209	0.827	0.173
1553		2006.52	369	1.206	0.829	0.171
1550		2019.07	370	1.203	0.831	0.169
1536		2022.13	371	1.199	0.834	0.166
1660		2029.66	372	1.196	0.836	0.164
1906		2029.97	373	1.193	0.838	0.162
1556		2041.44	374	1.190	0.840	0.160
1599		2060.66	375	1.187	0.843	0.157
1635		2063.98	376	1.184	0.845	0.155
1644		2087.03	377	1.180	0.847	0.153
1718		2097.24	378	1.177	0.849	0.151
1867		2121.11	379	1.174	0.852	0.148

APPENDIX 5 - TIME SERIES WITH QUANTILE COMPARISON

FINAL RECONSTRUCTED FLOW SORTED BY MAGNITUDE (lowest => highest)

(Rank 1 = driest year, 444 = wettest year)

UPPER COLORADO RIVER BASIN at Lees Ferry

water yr	Qnt	UCRB Q (cfs)	rank ↑	RI	P	1-P
1958		25165.09	380	1.171	0.854	0.146
1673		25197.15	381	1.168	0.856	0.144
1550		25231.79	382	1.165	0.858	0.142
1796		25238.27	383	1.162	0.861	0.139
1949		25276.66	384	1.159	0.863	0.137
1941		25291.65	385	1.156	0.865	0.135
1577		25409.31	386	1.153	0.867	0.133
1621		25486.82	387	1.150	0.870	0.130
1556		25505.85	388	1.147	0.872	0.128
1832		25512.44	389	1.144	0.874	0.126
1615		25518.07	390	1.141	0.876	0.124
1828		25579.54	391	1.138	0.879	0.121
1942		25580.99	392	1.135	0.881	0.119
1884		25618.52	393	1.132	0.883	0.117
1701		25634.18	394	1.129	0.885	0.115
1524		25673.59	395	1.127	0.888	0.112
1746		25699.56	396	1.124	0.890	0.110
1617		25743.87	397	1.121	0.892	0.108
1555		25763.98	398	1.118	0.894	0.106
1909		25797.24	399	1.115	0.897	0.103
1853		25905.86	400	1.113	0.899	0.101
1557		25987.72	401	1.110	0.901	0.099
1604		25994.70	402	1.107	0.903	0.097
1790		26031.95	403	1.104	0.906	0.094
1610		26050.90	404	1.101	0.908	0.092
1906		26202.01	405	1.099	0.910	0.090
1565		26280.02	406	1.096	0.912	0.088
1868		26389.30	407	1.093	0.915	0.085
1784		26597.39	408	1.091	0.917	0.083
1536		26612.95	409	1.088	0.919	0.081
1952		26633.88	410	1.085	0.921	0.079
1843		26718.88	411	1.083	0.924	0.076
1811		26831.33	412	1.080	0.926	0.074
1523		26842.29	413	1.077	0.928	0.072
1747		26896.52	414	1.075	0.930	0.070
1920		26940.99	415	1.072	0.933	0.067
1540		26958.63	416	1.070	0.935	0.065
1928		26986.34	417	1.067	0.937	0.063
1907		27094.25	418	1.065	0.939	0.061
1840		27295.43	419	1.062	0.942	0.058
1734		27341.37	420	1.060	0.944	0.056
1521		27363.07	421	1.057	0.946	0.054
1633		27423.68	422	1.055	0.948	0.052
1768		27459.77	423	1.052	0.951	0.049
1838		27601.88	424	1.050	0.953	0.047
1862		27631.11	425	1.047	0.955	0.045
1792		27640.23	426	1.045	0.957	0.043
1797		27704.65	427	1.042	0.960	0.040
1655		27720.94	428	1.040	0.962	0.038
1957		27724.11	429	1.037	0.964	0.036
1917		27836.17	430	1.035	0.966	0.034
1914		28288.45	431	1.032	0.969	0.031
1680		28327.11	432	1.030	0.971	0.029
1839		28427.83	433	1.028	0.973	0.027
1549		28698.63	434	1.025	0.975	0.025
1866		28848.61	435	1.023	0.978	0.022
1921		28851.80	436	1.021	0.980	0.020
1962		28984.72	437	1.018	0.982	0.018
1564		29197.41	438	1.016	0.984	0.016
1553		29425.66	439	1.014	0.987	0.013
1837		29444.42	440	1.011	0.989	0.011
1726		30102.73	441	1.009	0.991	0.009
1849		30141.68	442	1.007	0.993	0.007
1720		30495.00	443	1.005	0.996	0.004
1867		31208.75	444	1.002	0.998	0.002

SALT-VERDE-TONTO RIVER BASIN

water yr	Qnt	SVT Q (cfs)	rank ↑	RI	P	1-P
1540		2124.13	380	1.171	0.854	0.146
1908		2129.64	381	1.168	0.856	0.144
1924		2130.29	382	1.165	0.858	0.142
1699		2134.64	383	1.162	0.861	0.139
1758		2138.97	384	1.159	0.863	0.137
1865		2140.08	385	1.156	0.865	0.135
1850		2150.95	386	1.153	0.867	0.133
1869		2153.65	387	1.150	0.870	0.130
1701		2161.16	388	1.147	0.872	0.128
1771		2162.73	389	1.144	0.874	0.126
1683		2169.69	390	1.141	0.876	0.124
1689		2178.91	391	1.138	0.879	0.121
1565		2179.24	392	1.135	0.881	0.119
1743		2182.88	393	1.132	0.883	0.117
1687		2216.94	394	1.129	0.885	0.115
1792		2221.78	395	1.127	0.888	0.112
1681		2237.87	396	1.124	0.890	0.110
1766		2285.58	397	1.121	0.892	0.108
1564		2295.01	398	1.118	0.894	0.106
1692		2298.36	399	1.115	0.897	0.103
1610		2311.01	400	1.113	0.899	0.101
1858		2320.55	401	1.110	0.901	0.099
1916		2322.69	402	1.107	0.903	0.097
1815		2327.61	403	1.104	0.906	0.094
1932		2333.52	404	1.101	0.908	0.092
1949		2336.62	405	1.099	0.910	0.090
1833		2349.09	406	1.096	0.912	0.088
1640		2366.54	407	1.093	0.915	0.085
1791		2367.45	408	1.091	0.917	0.083
1852		2401.69	409	1.088	0.919	0.081
1844		2427.42	410	1.085	0.921	0.079
1710		2490.26	411	1.083	0.924	0.076
1914		2510.46	412	1.080	0.926	0.074
1937		2527.76	413	1.077	0.928	0.072
1627		2560.23	414	1.075	0.930	0.070
1720		2596.21	415	1.072	0.933	0.067
1905		2637.25	416	1.070	0.935	0.065
1838		2685.14	417	1.067	0.937	0.063
1866		2698.52	418	1.065	0.939	0.061
1618		2735.07	419	1.062	0.942	0.058
1952		2735.49	420	1.060	0.944	0.056
1920		2751.21	421	1.057	0.946	0.054
1747		2765.70	422	1.055	0.948	0.052
1764		2785.83	423	1.052	0.951	0.049
1907		2791.80	424	1.050	0.953	0.047
1911		2794.02	425	1.047	0.955	0.045
1915		2794.44	426	1.045	0.957	0.043
1787		2829.27	427	1.042	0.960	0.040
1651		2834.84	428	1.040	0.962	0.038
1680		2877.31	429	1.037	0.964	0.036
1621		2918.24	430	1.035	0.966	0.034
1726		2935.68	431	1.032	0.969	0.031
1849		2978.71	432	1.030	0.971	0.029
1745		2995.25	433	1.028	0.973	0.027
1919		3057.43	434	1.025	0.975	0.025
1594		3117.79	435	1.023	0.978	0.022
1828		3142.48	436	1.021	0.980	0.020
1784		3271.92	437	1.018	0.982	0.018
1749		3306.59	438	1.016	0.984	0.016
1816		3332.41	439	1.014	0.987	0.013
1839		3515.86	440	1.011	0.989	0.011
1941		3732.36	441	1.009	0.991	0.009
1746		4028.15	442	1.007	0.993	0.007
1793		4612.05	443	1.005	0.996	0.004
1868		4621.62	444	1.002	0.998	0.002