

Department of Water and Sanitation

SAFPUB V02 Output 15/11/2020

Station	Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
A1R001	25: 11: 55	25: 48: 48	A10A	518	Ngotwane Dam	1
Ngotwane River @ Moilwas Gopane Mogomane-Ngotwane Dam						
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)	
	9. 97	1112. 23	401. 60	19. 43	19. 88	1981-10-01 Original
	9. 97	1112. 23	401. 30	19. 17	19. 53	1995-10-01 Basin survey
	9. 97	1112. 23	391. 10	19. 03	19. 40	2005-07-13 Basin survey
Data	100. 00	Level (Metres)				Data Period 1997-01-06 2019-07-23
Components	A1E001	Moilwas (Gopane) @ Ngotwane Dam				Component Period 1996-07-01 2010-05-26
	A1H007	Pipeline from Dam @ Moilwas (Gopane)				1996-07-01 2010-05-26
	A1R001	Ngotwane River @ Moilwas Gopane Mogomane-Ngotwane Dam				1997-01-06
A2R001	25: 43: 32	27: 50: 55	A21H	4014	Hartbeespoort Dam	
Krokodil River @ Hartbeesfontein - Hartbeespoort Dam						
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)	
	17. 68	1159. 88	1743. 87	165. 85	184. 99	1922-10-01 Original
	17. 68	1159. 88	1681. 18	143. 33	153. 49	1960-10-01 Basin survey
	20. 12	1162. 34	2067. 75	189. 54	199. 74	1970-10-01 Gates installed
	20. 12	1162. 34	2065. 60	189. 46	198. 67	1979-10-01 Basin survey
	20. 12	1162. 34	2065. 20	186. 44	195. 05	1990-10-01 Basin survey
	20. 12	1162. 34	2058. 37	185. 79	193. 31	2008-10-01 Basin survey
Data	100. 00	Level (Metres)				Data Period 1922-10-01 2020-09-14
	215. 00	Tot Gates' Vol (MI)	Gate Discharge	Volume		1970-09-30 2018-02-28
	230. 09	Level (m)	4 Water Cello			2014-01-01 2016-07-22 39% missing
	374. 00	G21: Tot outfl (MI)				1979-09-30 2017-10-16 14% missing
	375. 00	G22: Tot riv rel (MI)				1979-09-30 2017-10-16 13% missing
	377. 00	G24: Cont spill (MI)				1979-09-30 2017-07-31 13% missing
	379. 00	G26: Irrigation (MI)				1979-09-30 2017-10-16 13% missing
Components	A2R001	Krokodil River @ Hartbeesfontein - Hartbeespoort Dam				Component Period 1922-10-02
	0512463	Bokfontein				1924-12-01 1929-09-01
	A2H120	Diversion from Right Canal Into River @ Hartbeesfont				1924-12-01 1976-10-01
	A2E001	De Rust @ Hartbeespoort Dam				1926-03-01
	A2H081	Left Canal from Hartbeespoort Dam @ Hartbeesfontein				1956-03-31
	A2H082	Right Canal from Dam @ Hartbeesfontein				1971-08-01 2008-06-17
	A2H083	Krokodil River @ Hartbeesfontein				1980-02-05
	A2H117	Canal from Dam D/S of Return Flow Pt. @ Hartbeesfont				1989-06-12



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
A2R002	Apies River @ Onderstepoort - Bon Accord Dam				25: 37: 21	28: 11: 29	A23E	335	Bon Accord Dam	2
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	0.00	1195.18	0.00	0.00	0.00		1923-10-01		Original	
	7.01	1202.19	0.00	0.00	0.00		1937-03-01		Basin survey	
	7.01	1202.19	135.04	4.75	4.81		1956-10-01		Basin survey	
	7.33	1202.51	149.94	5.65	5.71		1976-10-01		Adjusted	
	7.28	1202.46	144.00	4.38	4.38		1980-10-01		Basin survey	
Data	100.00	Level	(Metres)			Data Period	1926-09-01	1992-11-24	2% missing	
Components					Component Period					
	A2H084	Right Canal from Bon Accord Dam @ Onderstepoort				1926-04-02	1993-03-31			
	A2H085	Right Canal from Bon Accord Dam @ Onderstepoort				1926-04-02	1992-05-19			
	A2R002	Apies River @ Onderstepoort - Bon Accord Dam				1926-09-01				
	A2H086	Carlisle Canal @ Onderstepoort				1927-09-01	1992-05-19			
	A2H087	Cleveland Pump @ Onderstepoort				1961-08-01	1980-08-01			
A2R003	Hex River @ Commisiesdri ft - Olifantsnek Dam				25: 47: 08	27: 15: 33	A22G	493	Olifantsnek Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	13.99	1200.44	250.90	15.61	15.65		1929-01-01		Original	
	13.99	1200.44	256.19	14.34	14.35		1952-10-01		Basin survey	
	13.99	1200.44	256.19	14.27	14.28		1962-10-01		Basin survey	
	13.99	1200.44	254.80	13.97	13.97		1970-10-01		Basin survey	
	14.03	1200.44	254.80	13.63	13.63		1982-02-02		A01 - Basin survey	
	14.03	1200.44	257.15	13.68	13.68		2007-09-01		Basin survey	
Data	100.00	Level	(Metres)			Data Period	1929-01-01	2019-08-06	2% missing	
Components					Component Period					
	0511467	Hexkrantz				1929-01-01	1942-02-01			
	A2H088	Left Canal from Dam @ Commisiesdri ft				1929-01-01				
	A2H089	Divert to River from Left Canal @ Commisiesdri ft				1929-01-01				
	A2R003	Hex River @ Commisiesdri ft - Olifantsnek Dam				1929-01-01				
	A2E005	Buffel spoort @ Buffel spoort Dam				1929-01-02				
A2R004	Hennops River @ Van Riebeeck Nat. Res - Rietvlei Dam				25: 52: 35	28: 15: 55	A21A	491	Rietvlei Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	14.94	1475.17	189.00	12.75	12.97		1933-11-23		Original	
	14.94	1475.17	189.00	12.25	12.38		1978-09-18		Original	
Data	100.00	Level	(Metres)			Data Period	1933-11-24	1991-09-16	5% missing	



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
A2R004	(continued)									3
Components							Component	Period		
	0513413	Doornkloof					1933-11-23	1959-06-01		
	A2E001	De Rust @ Hartbeespoort Dam					1933-11-23	1935-03-31		
	A2H009	Hennops River @ Rietvlei					1933-11-24	1989-06-12		
	A2R004	Hennops River @ Van Riebeeck Nat. Res - Rietvlei Dam					1933-11-24			
	A2H091	Pipeline from Rietvlei Dam @ Van Riebeeck Nat Res					1934-08-01	1991-03-31		
	A2E002	Rietvlei @ Rietvlei Dam					1935-04-01			
A2R005	Sterkstroom River @ Buffelspoort - Buffelspoort Dam				25:46:49	27:29:14	A21K	119	Buffelspoort Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	17.68	1263.90	80.88	4.94	4.94		1935-02-01	Original		
	20.12	1266.34	103.31	7.17	7.17		1954-04-01	Raised		
	22.55	1268.77	130.43	10.02	10.02		1967-02-01	Temporary fsl		
	23.15	1269.37	136.67	10.82	10.82		1967-03-13	Raised		
	23.14	1269.37	136.67	10.82	10.82		1972-10-01	A01 - New plates installed		
	23.14	1269.37	135.68	10.29	10.29		1980-02-01	Basin survey		
	23.14	1269.37	135.68	10.25	10.25		1996-02-01	Basin survey		
	23.14	1269.37	135.22	10.18	10.18		2012-03-01	Basin survey		
Data					Data Period					
	100.00	Level (Metres)			1935-02-01 2019-11-01					
Components							Component	Period		
	0511855	Buffelspoort - 1					1935-02-01	1962-02-16		
	A2H092	Left Canal from Dam @ Buffelspoort					1935-02-01			
	A2R005	Sterkstroom River @ Buffelspoort - Buffelspoort Dam					1935-02-01			
	A2E001	De Rust @ Hartbeespoort Dam					1937-05-01	1942-01-31		
	A2E005	Buffelspoort @ Buffelspoort Dam					1942-02-01			
A2R006	Hex River @ Bospoort - Bospoort Dam				25:33:49	27:20:60	A22H	1068	Bospoort Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	8.23	1068.74	99.48	3.56	3.80		1936-10-01	Original		
	8.23	1068.74	96.45	2.58	2.58		1952-10-01	Basin survey		
	6.71	1068.74	96.45	2.58	2.58		1952-12-01	Adjusted		
	11.28	1073.31	234.17	9.91	9.91		1955-01-01	Raised		
	14.35	1076.38	378.90	19.16	19.16		1971-12-01	Raised		
	14.35	1076.38	374.80	18.91	18.91		1973-10-01	Basin survey		
	14.35	1076.38	378.80	18.21	18.21		1988-10-01	Basin survey		
	14.35	1076.38	373.40	15.80	15.80		2004-10-01	Basin survey		
Data					Data Period					
	100.00	Level (Metres)			1936-10-01 2020-01-15				4% missing	
	215.00	Tot Gates' Vol (MI)	Gate Discharge	Volume	1971-11-30 2007-09-30				1% missing	



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
A2R009	Pienaars River @ Roodeplaat - Roodeplaat Dam				25: 37: 16	28: 22: 20	A23A	683	Roodeplaat Dam	5
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	28. 29	1214. 02	395. 30	42. 50	45. 47		1958-10-22		Original	
	28. 32	1214. 02	395. 24	41. 98	44. 67		1972-05-18		A01 - Adjusted	
	28. 32	1214. 02	395. 20	41. 66	44. 17		1980-10-01		Basin survey	
	28. 32	1214. 02	395. 10	41. 16	43. 47		1990-10-01		Basin survey	
Data	100. 00	Level	(Metres)				Data Period	1958-10-22	2020-01-21	
Components							Component Period			
	A2R009	Pienaars River @ Roodeplaat - Roodeplaat Dam					1958-10-22			
	A2E007	Roodeplaat @ Agric. Research St.					1958-12-11	1962-08-31		
	A2H046	Pipeline from Dam Basin @ Roodeplaat					1958-12-12			
	A2H100	Left Canal from Roodeplaat Dam @ Roodeplaat					1959-04-03			
	A2H101	Left Canal from Roodeplaat Dam @ Roodeplaat					1961-07-01			
	A2E013	Roodeplaat @ Roodeplaat Dam/Hni					1962-09-01			
	A2H112	Pipeline from Roodeplaat Dam @ Roodeplaat					1964-06-01	1992-03-31		
	A2H102	Pienaars River @ Roodeplaat					1979-06-12			
	A2H131	Pipeline to Purification Works @ Roodeplaat Dam					2006-01-24			
A2R010	Bierspruit River @ Nooitgedacht - Bierspruit Dam				24: 54: 41	27: 08: 25	A24D	1312	Bierspruit Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	7. 05	987. 19	210. 20	3. 51	3. 51		1961-01-02		Original	
	7. 05	987. 19	206. 40	3. 50	3. 50		1980-10-01		Basin survey	
Data	100. 00	Level	(Metres)				Data Period	1961-01-02	1982-12-01	16% missing
	360. 00	E01: Res inflow	(MI)				1961-01-04	1973-10-01		100% missing
Components							Component Period			
	A2H103	Pipeline from Bierspruit Dam @ Nooitgedacht					1961-01-02	1973-10-01		
	A2R010	Bierspruit River @ Nooitgedacht - Bierspruit Dam					1961-01-02			
	A2E012	Nooitgedacht @ Bierspruit Dam					1961-03-01	1970-11-01		
	A2E021	Zwartklip @ Rustenb. Plat. Mine					1970-11-01			
A2R011	Koster River @ Waterkloof - Kosterrivier Dam				25: 42: 00	26: 54: 14	A22B	286	Kosterrivier Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	10. 02	1264. 21	169. 45	6. 70	6. 83		1964-12-25		Original	
	13. 01	1267. 20	262. 13	13. 06	13. 19		1973-04-01		Raised	
	13. 01	1267. 20	261. 99	12. 92	13. 02		1979-10-01		Basin survey	
	13. 01	1267. 20	262. 01	12. 80	12. 82		1996-02-01		Basin survey	
	13. 01	1267. 20	258. 97	12. 42	12. 43		2012-03-01		Basin survey	
Data	100. 00	Level	(Metres)				Data Period	1964-12-25	2019-06-26	



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
A2R011	(continued)									
Components									Component Period	
	A2H104	Koster River @ Waterkloof							1962-01-08	
	A2R011	Koster River @ Waterkloof - Kosterrivier Dam							1964-12-25	
	A2E015	Waterval @ Koster River Dam							1965-10-04	
	A2H105	Pipeline from Koster River Dam @ Waterkloof							1972-05-01	
A2R012	Pienaars River @ Klipvoor - Klipvoor Dam				25:07:53	27:48:33	A23J	6160	Klipvoor Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	16.16	989.07	753.46	43.37	44.00		1970-03-24		Original	
	16.16	989.07	753.24	42.25	42.60		1987-03-01		Basin survey	
	16.16	989.07	753.88	40.73	40.85		2008-04-01		Basin survey	
Data									Data Period	
	100.00	Level (Metres)							1970-03-24	2019-10-22
	230.09	Level (m)	4 Water Cello						2010-02-15	2015-07-18
										84% missing
Components									Component Period	
	0549220	Assen - Pol							1970-03-24	2007-12-17
	A2E020	Vaal kop @ Vaal kop Dam							1970-03-24	1970-04-30
	A2H106	Pienaars River @ Klipvoor							1970-03-24	
	A2R012	Pienaars River @ Klipvoor - Klipvoor Dam							1970-03-24	
	A2E019	Klipvoor @ Klipvoor Dam							1970-05-01	
A2R013	Elands River @ Brakfontein - Swartruggens Dam				25:39:42	26:41:39	A22A	497	Swartruggens Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	3.04	1254.16	17.10	0.33	0.47		1964-07-30		Original	
	3.04	1254.16	17.10	0.33	0.47		1974-04-05		A02 - Raised	
	3.04	1254.16	11.60	0.25	0.28		1990-10-01		Basin survey	
	4.58	1255.70	18.49	0.49	0.52		1993-09-01		Raised	
	4.58	1255.70	18.60	0.48	0.49		2007-09-01		Basin survey	
	4.57	1255.69	18.56	0.47	0.49		2007-10-01			
Data									Data Period	
	100.00	Level (Metres)							1964-07-30	1974-04-05
	230.70	Level (m)							2014-04-08	2015-03-10
										6% missing
Components									Component Period	
	A2R013	Elands River @ Brakfontein - Swartruggens Dam							1964-07-30	
	A2H108	Pipeline to Municipality @ Brakfontein							1965-11-10	
	A2H107	Elands River @ Brakfontein							1981-09-22	
A2R014	Elands River @ Bulhoek - Vaal kop Dam				25:18:31	27:28:28	A22J	6098	Vaal kop Dam	



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
A2R014	(continued)									7
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	11.41	980.71	1051.00	56.46	57.88		1971-05-01		Original	
	11.41	980.71	1051.48	55.56	55.96		1979-10-01		Basin survey	
	11.41	980.71	1050.99	53.62	53.71		1996-02-01		Basin survey	
	11.41	980.71	1045.67	51.32	51.34		2012-03-01		Basin survey	
Data							Data Period			
	100.00	Level	(Metres)				1971-05-03	2020-09-17		
	230.09	Level (m)		4 Water Cello			2014-01-01	2016-04-20		61% missing
Components							Component Period			
	A2E020	Vaal kop @ Vaal kop Dam					1971-05-03	1998-04-24		
	A2H121	Pipeline from Vaal kop Dam @ Bulhoek					1971-05-03	1981-11-18		
	A2R014	Elands River @ Bulhoek - Vaal kop Dam					1971-05-03			
	A2H109	Pipeline to Treatment Works @ Bulhoek					1972-06-25	1999-04-01		
	A2H111	Elands River @ Bulhoek					1981-11-17			
	A2H121	Pipeline from Vaal kop Dam @ Bulhoek					1981-11-17	1981-11-17		
	A2H110	Canal from Roodekopjes Dam @ Bulhoek					1984-09-19			
	A2E026	Roodekopjes @ Roodekopjes Dam					1998-04-24			
	A2H129	Pipeline to Treatment Works @ Bulhoek					2001-09-06			
A2R015	Krokodil River @ Roodekopjes - Roodekopjes Dam				25: 24: 25	27: 34: 39	A21K	6027	Roodekopjes Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	21.50	1006.50	1559.23	102.33	102.46		1984-06-01		Original	
	21.57	1006.57	1487.71	96.35	96.35		2016-06-01		Basin survey	
Data							Data Period			
	100.00	Level	(Metres)				1984-06-01	2019-12-09		
	215.00	Tot Gates' Vol (MI)		Gate Discharge	Volume		1984-05-31	2018-02-28		
	230.09	Level (m)		4 Water Cello			2014-01-01	2015-07-20		27% missing
Components							Component Period			
	A2E001	De Rust @ Hartbeespoort Dam					1984-06-01			
	A2H019	Krokodil River @ Beestkraal					1984-06-01			
	A2R015	Krokodil River @ Roodekopjes - Roodekopjes Dam					1984-06-01			
	A2H113	Left Canal from Roodekopjes Dam @ Roodekopjes					1984-07-02			
	A2H114	Right Canal from Roodekopjes Dam @ Roodekopjes					1984-08-01	2008-06-10		
	A2E026	Roodekopjes @ Roodekopjes Dam					1986-01-28			
	A2H115	Left Pipeline from Crocodile River @ Roodekopjes					1987-08-01			
A2R016	Apies River @ Leeuwkraal - Leeuwkraal Dam				25: 23: 22	28: 16: 37	A23F	141	Leeuwkraal Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	1071.10	1071.10	37.60	0.60	0.60		1985-05-01		Basin survey	
	1071.10	1071.10	37.60	0.54	0.54		1993-10-01		Basin survey	



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	8
A2R016	(continued)										
Components	A2R016	Apies River @ Leeuwkraal - Leeuwkraal Dam						Component Period	1985-05-01		
A2R017	Krokodil River @ Haakdongdri ft - Paul Hugo Dam				24: 41: 42	27: 24: 32	A24C	22060			
Components	A2H116	Krokodil River @ Haakdongdri ft						Component Period	1987-10-14		
	A2R017	Krokodil River @ Haakdongdri ft - Paul Hugo Dam						Component Period	1987-10-14	1995-12-20	
A2R018	Maretlwane @ Maretlwane				25: 41: 30	27: 32: 31	A21K	145	Middel kraal Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	5.10	1122.71	0.11	0.74	0.74			2003-01-01	Basin survey		
A3R001	Groot-Mari co River @ Riekers Dam - Mari co-Bosvel d Dam				25: 28: 11	26: 23: 37	A31B	1160	Mari co-Bosvel d Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	17.52	1062.79	449.60	30.16	30.18			1934-10-31	Original		
	17.53	1062.80	450.32	30.22	30.24			1936-12-26	Temporary fsl		
	17.52	1062.79	449.60	30.16	30.18			1951-02-01	Basin survey		
	17.52	1062.79	442.00	27.79	27.79			1976-12-12	Basin survey		
	17.52	1062.79	437.60	26.96	26.96			1991-10-01	Basin survey		
	17.52	1062.79	443.65	26.93	26.93			2008-04-01	Basin survey		
Data	100.00	Level	(Metres)					Data Period	1934-10-31	2019-10-17	
Components	0546687	Riekersdam						Component Period	1934-10-31	1946-12-01	
	A3H028	Left Canal from Dam @ Riekers Dam						Component Period	1934-10-31		
	A3R001	Groot-Mari co River @ Riekers Dam - Mari co-Bosvel d Dam						Component Period	1934-10-31		
	A3E001	Doornkraal @ Mari co-Bosvel d Dam						Component Period	1936-07-01		
	A3H029	Groot-Mari co River @ Riekers Dam						Component Period	1981-08-13		
A3R002	Klein Mari co River @ Kalk Dam				25: 31: 19	26: 08: 59	A31D	1157	Klein-Mari copoort Da		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	9.76	1156.61	80.63	3.20	3.31			1936-05-18	Original		
	9.89	1156.74	82.27	3.31	3.41			1966-02-01	Temporary fsl		
	14.01	1160.87	136.80	7.88	7.98			1966-09-20	Raised		
	14.01	1160.87	140.35	8.07	8.07			1976-10-01	Basin survey		
	14.01	1160.87	136.80	7.07	7.07			1982-10-01	Basin survey		
	14.01	1160.87	134.24	7.30	7.30			1999-01-01	Basin survey		
	14.01	1160.87	133.97	7.23	7.23			2008-04-01	Basin survey		



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page 10
A3R003	(continued)									
		0:00	0:00	0:00	0:00	0:00	2008 0-4-			
		0.00	0.00	0.00	0.00	0.00				
		0.00	0.00	0.00	0.00	0.00	Complete			
Data							Data Period			
	100.00	Level	(Metres)				1955-02-01	2019-07-24	1% missing	
Components							Component Period			
	A3E001	Doornkraal @ Marico-Bosveld Dam						1955-02-01		
	A3H033	Left Canal from Dam @ Kromellenboog						1955-02-01		
	A3R003	Klein Marico River @ Kromellenboog						1955-02-01		
	A3H032	Klein Marico River @ Veeplaats						1979-11-07		
A3R004	Groot-Marico River @ Lotteringskop - Molatedi Dam				24:52:12	26:27:12	A32A	8619	Molatedi Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	16.00	958.00	3567.00	200.79	200.95		1986-11-25	Original		
Data							Data Period			
	100.00	Level	(Metres)				1987-02-13	2019-06-27	2% missing	
Components							Component Period			
	A3E004	Lotteringskop @ Molatedi Dam						1987-02-13		
	A3H034	Outlet to River from Dam @ Naauwpoort						1987-02-13	1994-02-18	
	A3R004	Groot-Marico River @ Lotteringskop - Molatedi Dam						1987-02-13		
	A3H038	Right Pipeline from Dam @ Naauwpoort						1988-06-17	1994-02-18	
	A3H039	Pipeline from Dam @ Naauwpoort						1994-02-18		
A3R005	Sehujane River @ Buispoort				25:18:26	25:56:49	A31H	198	Sehujane Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	10.98	1152.99	70.30	3.89	4.16		1882-10-01	Basin survey		
	10.98	1152.99	70.30	3.64	3.77		1996-07-01	Original		
	10.98	1152.99	68.50	3.61	3.75		2005-07-12	Basin survey		
Data							Data Period			
	100.00	Level	(Metres)				1997-01-06	2019-07-23	30% missing	
Components							Component Period			
	A3H036	Pipeline from Dam @ Buispoort						1996-07-01		
	A3R005	Sehujane River @ Buispoort						1997-01-06		
	A3E003	Kalk Dam @ Li-Maricoport Dam						1997-01-07		
	A3H037	Sehujane River @ Buispoort						1999-04-05		
A3R006	Tholwane River @ Madi kwe Dam				25:23:39	26:35:15	A31G	307	Madi kwe Dam	



Station	Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description
A3R006 (continued)					
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)
	9.35	1070.04	489.40	15.94	15.94
Data	100.00	Level (Metres)			2011-01-04 Basin survey Data Period 2011-03-09 2019-07-24 3% missing
A3R007 Lethlakane River @ Pella Dam	25:27:59	26:26:53	A31F	81	Pella Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)
	9.00	1099.82	47.00	2.11	2.17
	9.00	1099.82	47.00	2.19	2.24
	9.00	1099.82	47.00	2.11	2.17
Data	100.00	Level (Metres)			1989-06-16 Basin survey 2002-10-01 Basin survey 2004-12-01 Basin survey Data Period 2008-04-21 2019-07-23 13% missing
A4R001 Mokol o Ri ver @ Hans Strijdom Natres	23:59:03	27:43:08	A42F	4220	Mokol o Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)
	41.84	911.98	858.82	156.20	157.45
	41.84	911.98	828.94	145.47	146.01
	41.84	911.98	828.80	145.35	145.90
	41.84	911.98	830.21	145.77	146.35
Data	10.59	Rainfall (mm.)	RTS_CELLO_RAIN		
	100.00	Level (Metres)	CELLO_UP_LEVEL		
	230.09	Level (m)			2016-09-22 2016-11-29 1980-04-09 2020-02-20 2016-09-22 2020-02-20
Components	A4E007	Mokol o Nat.Res @ Mokol o Dam			1980-04-09
	A4H010	Mokol o River @ Mokol o Nat Res			1980-08-01
	A4H009	Witbank Spruit @ Hans Strijdom Natres			1980-10-16
	A4H011	Pipeline From Mokol o Dam @ Mokol o Nat Res			1980-11-30
					2001-05-02
A5R001 Pal ala Ri ver @ Hope Town	23:37:56	28:09:35	A50E	2322	Vi schgat Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)
	0.00	862.22	0.00	0.00	0.00
	0.00	862.22	30.90	0.46	0.46
	0.00	862.22	30.90	0.46	0.46
	0.00	862.22	30.70	0.44	0.44
Data	10.59	Rainfall (mm.)	CELLO_RAIN		
					1968-02-01 1983-10-01 Basin survey 1999-07-28 1999-10-01 Basin survey Data Period 2015-10-28 2019-09-02



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A5R001	(continued)										
	100.00	Level	(Metres)					1968-02-14	2020-02-12	2% missing	
	230.09	Level (m)		CELLO_UP_LEVEL				2014-03-08	2020-02-12	7% missing	
	815.70	Temp (Deg C)		TROLL_UP_TEMP				2018-05-16	2019-02-13		
Components	A5E002	Hope Town @ Vischgat Dam						Component Period			
								1968-02-01			
A5R002	Palala River @ Susandale										
						23:22:52	28:01:19	A50G	3537	Susandale Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)						
	0.00	818.63	25.94	0.51	0.51			1968-02-07	Basin survey		
	0.00	818.63	24.89	0.30	0.30			1983-10-01	Basin survey		
	0.00	818.63	23.43	0.28	0.28			1997-10-01	Basin survey		
Data								Data Period			
	100.00	Level	(Metres)					1968-02-07	2019-11-21	4% missing	
	230.09	Level (m)		CELLO_UP_LEVEL				2006-10-17	2019-11-21	11% missing	
	815.70	Temp (Deg C)		TROLL_UP_TEMP				2017-10-31	2018-08-24		
A6R001	Sterk River @ Doorndraai										
						24:16:47	28:46:36	A61H	580	Doorndraai Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)						
	14.97	1175.01	427.59	27.83	28.83			1953-03-01	Basin survey		
	18.55	1178.59	568.33	45.50	46.50			1976-04-01			
	18.96	1178.59	568.33	45.50	46.50			1976-05-10			
	18.96	1178.59	559.27	43.98	44.51			1980-10-01	Basin survey		
	18.96	1178.59	560.60	43.76	44.20			1997-10-01	Basin survey		
Data								Data Period			
	100.00	Level	(Metres)					1953-03-01	2019-10-08		
	215.00	Tot Gates' Vol (M)		Gate Discharge Volume				1976-03-31	2001-12-02		
	230.01	Level (m)		Realtime				2007-07-06	2015-12-08	36% missing	
	230.09	Level (m)		CELLO_UP_LEVEL				2007-07-05	2019-09-03		
	360.00	E01: Res inflow (MI)						1953-03-03	2011-02-01	2% missing	
Components	0633463	Vastrap						Component Period			
	A6H027	Sterk River @ Doorndraai						1953-03-01	1955-06-30		
	A6E001	Doorndraai @ Doorndraai Dam						1953-03-01			
	A6H030	Right Irrigation Canal @ Doorndraai						1953-03-05			
	A6H028	Right Canal to Treatment Works @ Doorndraai						1954-08-26			
								1977-09-15	2004-03-15		
A6R002	Mogalakwena River @ Glen Alpine										
						23:11:31	28:41:53	A62J	11245	Glen Alpine Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)						
	15.21	818.41	469.80	22.84	22.86			1967-10-02	Basin survey		
	15.21	818.41	465.30	21.12	21.12			1978-10-01	Basin survey		
	15.21	818.41	465.00	19.95	19.95			1990-10-01	Basin survey		



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A6R002	(continued)	15. 21	818. 41	461. 30	18. 89	18. 89	2000-10-01	Basin survey		
Data							Data Period			
		10. 59	Rainfall (mm.)	RTS_CELLO_RAIN			2015-10-27	2017-03-26		
		10. 61	Rainfall (mm.)	4 WATER Cello (real time)			2015-05-19	2018-06-21	74% missing	
		10. 70	Rainfall (mm.)	Tipping Bucket			2012-09-17	2012-10-17		
		100. 00	Level (Metres)				1967-10-02	2019-11-20		
		230. 01	Level (m)	Realtime			2006-07-24	2012-09-12	13% missing	
		230. 09	Level (m)	CELLO_UP_LEVEL			2007-02-26	2019-09-02		
		360. 00	E01: Res inflow (MI)				1970-04-03	2011-01-24		
		367. 00	G01: Tot accr (MI)				1973-05-23	2003-09-01	8% missing	
		368. 00	G02: Precip (MI)				1970-04-03	2004-03-01		
		372. 00	G08: Stor Diff (MI)				1970-04-03	2004-03-10		
		374. 00	G21: Tot outfl (MI)				1973-05-23	2004-03-11		
		375. 00	G22: Tot riv rel (MI)				1973-05-23	2004-03-11		
		388. 00	G41: Gross evap (MI)				1970-04-03	2003-09-01	7% missing	
		389. 00	G42: Unacc loss (MI)				1970-04-03	2004-08-03		
Components							Component Period			
	A6E004	Glen Alpine @ Glen Alpine Dam					1968-06-25			
	A6H029	Mogalakwena River @ Glen Alpine					1970-04-02			
A6R003	Little Nyl River @ Donkerpoort				24: 40: 08	28: 19: 25	A61A	88	Donkerpoort Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	23. 00	1149. 90	55. 50	3. 43	3. 43		1978-05-11	Basin survey		
Data							Data Period			
	100. 00	Level	(Metres)				1978-05-11	1986-04-01	2% missing	
Components							Component Period			
	A6E006	Donkerpoort @ Donkerpoort Dam					1978-05-11	1986-03-25		
A6R004	Dorps River @ Piet Potgietersrust				24: 09: 52	29: 01: 48	A61F	175	Gert Combri nk Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	12. 30	1161. 30	20. 70	0. 95	0. 95		1978-06-08	Basin survey		
Data							Data Period			
	100. 00	Level	(Metres)				1978-06-08	1990-08-07	20% missing	
	360. 00	E01: Res inflow	(MI)				1978-06-10	1980-10-01	100% missing	
Components							Component Period			
	0634131	Planknek					1978-06-08	1984-04-30		
	A6E002	Potgietersrus					1978-06-08	1984-04-30		
	A6H031	Pipeline to Dorp @ Piet Potgietersrust					1978-06-08	1990-08-07		
	A6H032	Dorps River @ Piet Potgietersrust					1978-06-08	1990-08-07		
	A6E007	Piet Potgietersrust @ Gert Combri nk Dam					1984-05-01	1990-08-07		



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page 14
A7R001	Sand River @ Voorburg				22: 32: 03	29: 51: 44	A71K	160	Dr Neetling Dam	
A7R002	Hout River @ Houtrivier Dam				23: 46: 20	29: 13: 47	A71E	144	Houtrivier Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	16.25	1257.25	159.00	7.49	7.49		1988-10-01		Basin survey	
	8.02	1257.26	158.05	6.62	6.62		2009-02-05		Basin survey	
Data					Data Period					
	100.00	Level (Metres)			2009-02-05		2020-01-13			
	230.01	Level (m)	East Coast		2009-02-05		2015-12-08		10% missing	
	230.09	Level (m)	CELLO_UP_LEVEL		1907-08-14		2020-01-13		90% missing	
A8R001	Nzhel ele River @ Nairobi				22: 43: 29	30: 05: 44	A80C	830	Nzhel ele Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	20.27	617.18	377.48	30.71	30.93		1948-02-01		Basin survey	
	20.27	617.18	365.07	27.87	28.04		1966-10-01		Basin survey	
	26.36	623.27	604.89	57.12	57.29		1968-08-15			
	26.25	623.27	588.70	56.83	57.01		1979-04-25		Basin survey	
	26.25	623.27	594.40	55.30	55.30		1990-10-01		Basin survey	
	26.25	623.27	544.20	51.23	51.23		1999-10-01		202.00	
Data					Data Period					
	10.59	Rainfall (mm.)	CELLO_RAIN		2016-01-08		2017-09-13			
	100.00	Level (Metres)			1948-02-01		2019-11-20		7% missing	
	230.01	Level (m)	Real time		2007-02-27		2015-12-08		18% missing	
	230.09	Level (m)	CELLO_UP_LEVEL		2014-01-02		2017-04-02			
	360.00	E01: Res inflow (MI)			1962-10-02		2010-03-31		36% missing	
Components					Component Period					
	0766133	Krantzpoort			1948-02-01		1956-01-01			
	A8H008	Nzhel ele River @ Nairobi			1948-02-01		2000-02-02			
	A9E001	Levubu Settlement			1948-08-01		1952-09-30			
	A9E002	Goedehoop @ Albasini Dam			1952-10-01		1970-01-31			
	0765825	Phantom			1956-01-01		1965-01-01			
	0766277	Tshipse			1965-01-01		1970-01-31			
	A8E001	Nairobi @ Nzhel ele Dam			1970-02-01					
	A8H015	Nzel ele @ Nairobi			2002-01-14					
A8R002	Luphephe River @ Nwanedzi Nat. Res.				22: 38: 04	30: 24: 08	A80H	156	Luphephe Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	24.04	568.44	143.50	14.82	15.10		1964-01-01		Basin survey	
	23.98	568.44	141.56	14.75	15.00		1979-05-04		Basin survey	
	23.98	568.44	141.55	14.65	14.90		1999-10-01		Basin survey	
	23.98	568.44	134.33	13.98	14.17		2004-10-01		Basin survey	
Data					Data Period					
	10.59	Rainfall (mm.)	RTS_CELLO_RAIN		2015-07-27		2017-09-22			



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A8R002 (continued)						15
100.00	Level (Metres)		1964-01-01	2020-02-11		
230.01	Level (m)	Real time	2007-02-27	2012-01-24		
230.09	Level (m)	RTS_UP_CELLO_LEVEL	2015-07-27	2016-12-29		
360.00	E01: Res inflow (Ml)		1968-10-02	2009-07-21	6% missing	
Components			Component	Period		
0766842	Fol onhodwe		1964-01-01	1965-06-30		
A9E002	Goedehoop @ Al basini Dam		1964-01-01	1965-06-30		
A8H009	Luphephe River @ Nwanedi Nat. Res.		1964-02-01			
A8E002	Nwanedzi Nat. Res. @ Luphephe Dam		1965-07-01			
A8R003	Nwanedzi River @ Nwanedzi Nat. Res.	22:38:06	30:23:56	A80H	109	Nwanedzi Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)	
	20.07	568.43	58.40	5.31	5.57	1964-01-01 Basin survey
	20.07	568.43	58.40	5.28	5.53	1979-10-01 Basin survey
	20.07	568.43	56.60	5.25	5.50	1999-10-01 Basin survey
	20.07	568.43	55.04	5.14	5.35	2004-10-01 Basin survey
Data						Data Period
100.00	Level (Metres)		1963-12-05	2020-02-11		
230.01	Level (m)	Real time	2007-02-27	2012-02-13		
Components			Component	Period		
A8H010	Nwanedzi River @ Nwanedzi Nat. Res.		1963-12-05			
0766842	Fol onhodwe		1964-01-01	1965-06-30		
A9E002	Goedehoop @ Al basini Dam		1964-01-01	1965-06-30		
A8E002	Nwanedzi Nat. Res. @ Luphephe Dam		1965-07-01			
A8R004	Mutshedzi River @ Beaconsfield Venda	22:56:45	30:09:50	A80A	93	Mutshedzi Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)	
	12.89	863.00	47.80	2.34	2.36	1990-07-10 Original
Data						Data Period
100.00	Level (Metres)		1990-07-10	2020-02-17		
230.01	Level (m)	Real time	2013-01-01	2015-06-19		
230.09	Level (m)	CELL0_UP_LEVEL	2014-10-16	2019-08-19		32% missing
Components			Component	Period		
A8H012	Pipeline from Dam to Treatment Works @ Beaconsfield		1990-07-10			
A8H011	Mutshedzi River @ Beaconsfield	W Comp. Of Mutshedzi Dam	1990-08-01	2000-02-16		
A8E004	Beaconsfield @ Mutshedzi Dam		1991-06-11			
A8H014	Mutshedzi River @ Beaconsfield	W Comp. Of Mutshedzi Dam	2002-10-26			
A9R001	Luvuvhu River @ Goedehoop	23:06:25	30:07:30	A91B	505	Al basini Dam



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A9R001 (continued)					
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)
	16.36	749.06	267.91	20.85	21.15
	19.41	752.12	353.79	30.33	30.62
	19.41	752.12	351.09	29.49	29.58
	19.41	752.12	349.49	28.20	28.25
Data	10.59 Level 230.09	Rainfall (mm.) Level (Metres) Level (m)	DUOSENS_RAIN DUOSENS_UP_LEVEL_1		Data Period 2013-01-10 1952-10-01 2012-12-30
					2019-03-18 2020-01-09 2020-01-09
					8% missing
Components	A9E002 A9H017 A9H018 A9H020 A9H019	Goedehoop @ Albasini Dam Left Principal Canal from Dam @ Goedehoop Right Banatyn Canal @ Goedehoop Luvuvhu River @ Goedehoop Left Municipality Pipeline @ Goedehoop			Component Period 1952-10-01 1952-10-01 1952-10-01 1954-04-02 1965-11-01
					2001-07-31
A9R002	22:56:60	30:21:07	A91G	49	Vondo Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)
	15.00	852.00	74.60	5.17	5.31
	33.00	870.00	219.00	30.45	30.58
Data	10.61 Level 101.00 230.01 230.09	Rainfall (mm.) Level (Metres) Cor. Lev. (Metres) Level (m) Level (m)	4 WATER Cello (real time) Real time CELLO_UP_LEVEL		Data Period 2018-06-08 1985-04-11 2018-06-05 2004-10-21 2014-01-09
					2018-09-08 2020-02-05 2018-09-03 2014-06-25 2019-10-08
					14% missing 2% missing 39% missing 22% missing
Components	A8E004 A9H021 A9H022 A9H024 A9H026	Beaconsfield @ Mutshedzi Dam Right Pipeline For Treatment Works @ Vhutanda Right Irrigation Pipeline @ Vhutanda Mutshindudi River @ Chibase Sibasa W-Component Vondo Dam			Component Period 1985-04-11 1985-09-12 1986-05-01 1994-06-29 2006-06-12
					1999-11-29
A9R004	22:58:52	30:35:53	A91E	1411	Nandoni Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)
	29.70	509.96	1614.67	162.83	163.54
	29.70	509.96	1645.48	166.11	166.88
Data	100.00 Level 230.01	Level (Metres) Level (m)	East Coast		Data Period 1997-01-01 2008-06-01
					2020-01-08 2015-12-08
					34% missing



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page 17
A9R004	(continued)									
	230.09	Level (m)		DUOSENS_UP_LEVEL			2007-02-27	2019-03-19		
Components								Component Period		
	A9H030	Levuvhu River @ W Component		of Nandoni Dam			2007-04-25			
	A9E004	Nandoni Dam Evaporation					2009-10-05			



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Albasi ni Dam A9R001	15
Bierspruit Dam A2R010	5
Bon Accord Dam A2R002	2
Bospoort Dam A2R006	3
Buffel spoort Dam A2R005	3
Donkerpoort Dam A6R003	13
Doorndraai Dam A6R001	12
Dr Neetling Dam A7R001	14
Gert Combrink Dam A6R004	13
Glen Alpine Dam A6R002	12
Hartbeespoort Dam A2R001	1
Houtrivier Dam A7R002	14
Klein-Mari copoort Da A3R002	8
Klipvoor Dam A2R012	6
Kosterri vier Dam A2R011	5
Kromellenboog Dam A3R003	9
Leeukraal Dam A2R016	7
Lindleyspoort Dam A2R007	4
Luphephe Dam A8R002	14
Madi kwe Dam A3R006	10
Mari co-Bosvel d Dam A3R001	8
Middel kraal Dam A2R018	8
Mokolo Dam A4R001	11
Molatedi Dam A3R004	10
Mutshedzi Dam A8R004	15
Nandoni Dam A9R004	16
Ngotwane Dam A1R001	1
Nwanedzi Dam A8R003	15
Nzhelele Dam A8R001	14
Olifantsnek Dam A2R003	2
Paul Hugo Dam A2R017	8
Pella Dam A3R007	11
Rietvlei Dam A2R004	2
Roodekopjes Dam A2R015	7
Roodeplaat Dam A2R009	5
Sehujwane Dam A3R005	10
Susandale Dam A5R002	12
Swartruggens Dam A2R013	6
Vaal kop Dam A2R014	6
Vischgat Dam A5R001	11
Vondo Dam A9R002	16
Warmbad Dam A2R008	4