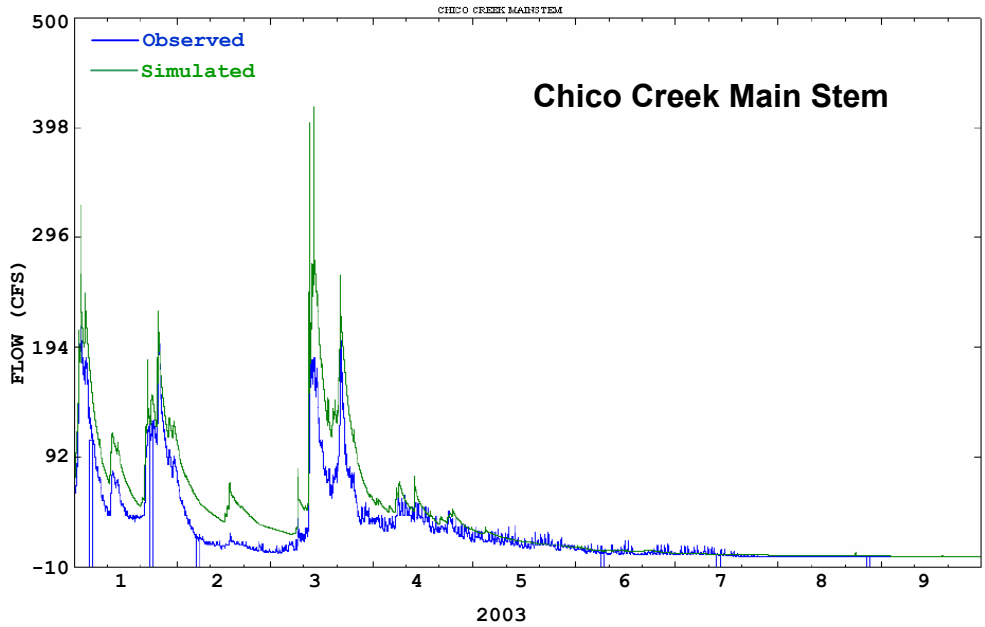
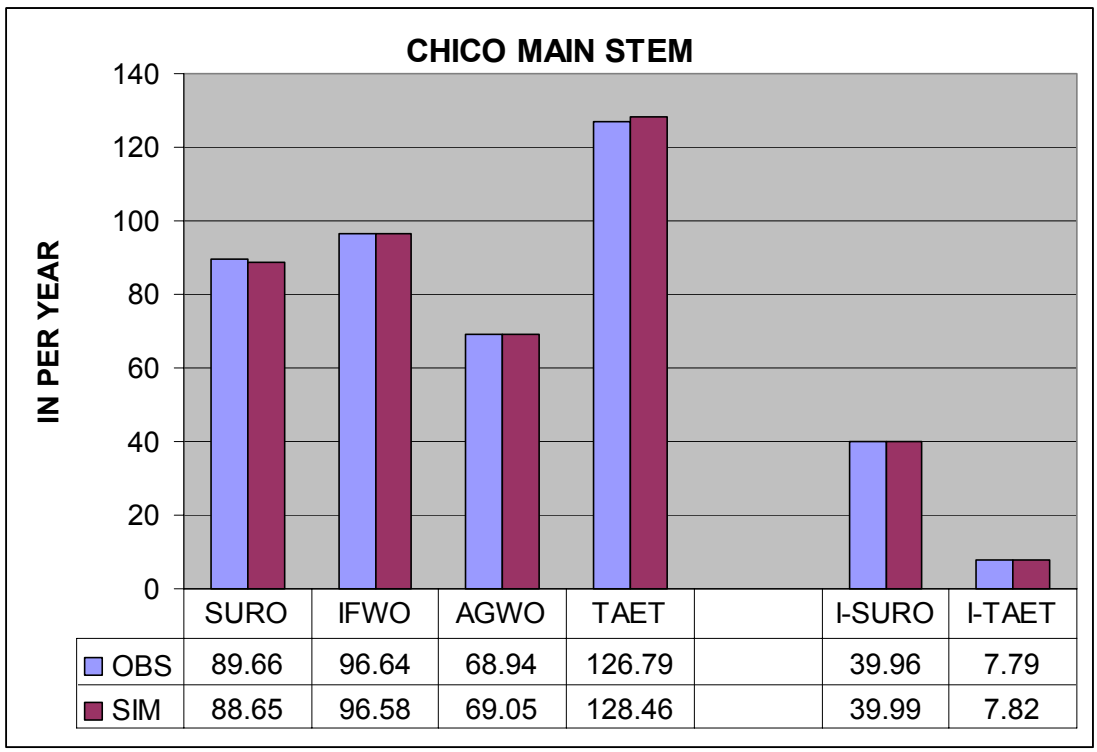
A.

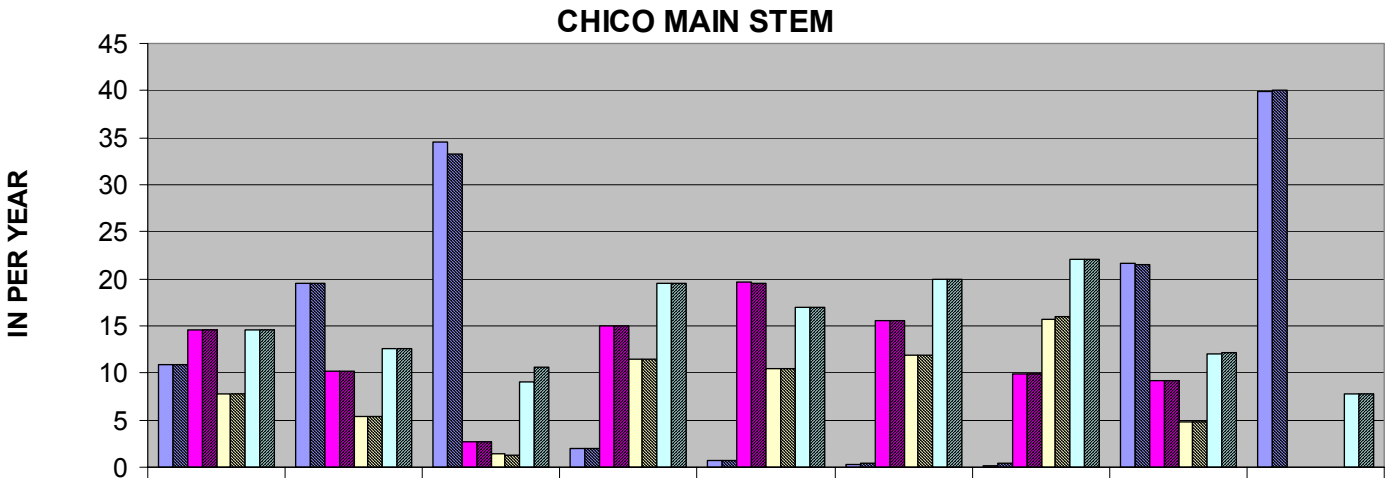


B.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	89.66	96.64	68.94	126.79		39.96	7.79
SIM	88.65	96.58	69.05	128.46		39.99	7.82

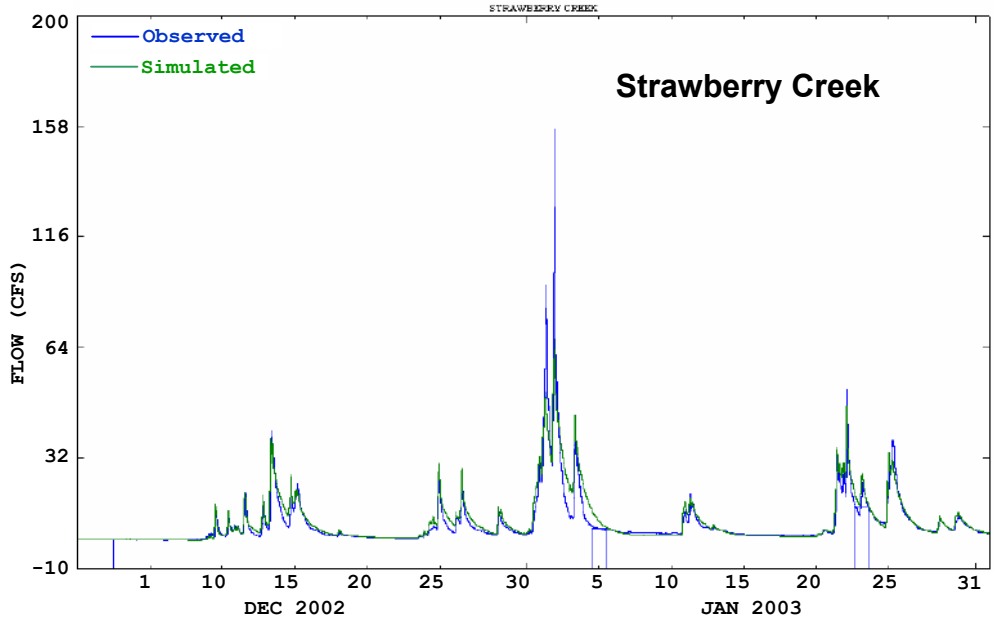
Results of HSPF model verification of Chico Creek Main Stem for observed (OBS) and simulated (SIM) flow for 2003 (A) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (B).



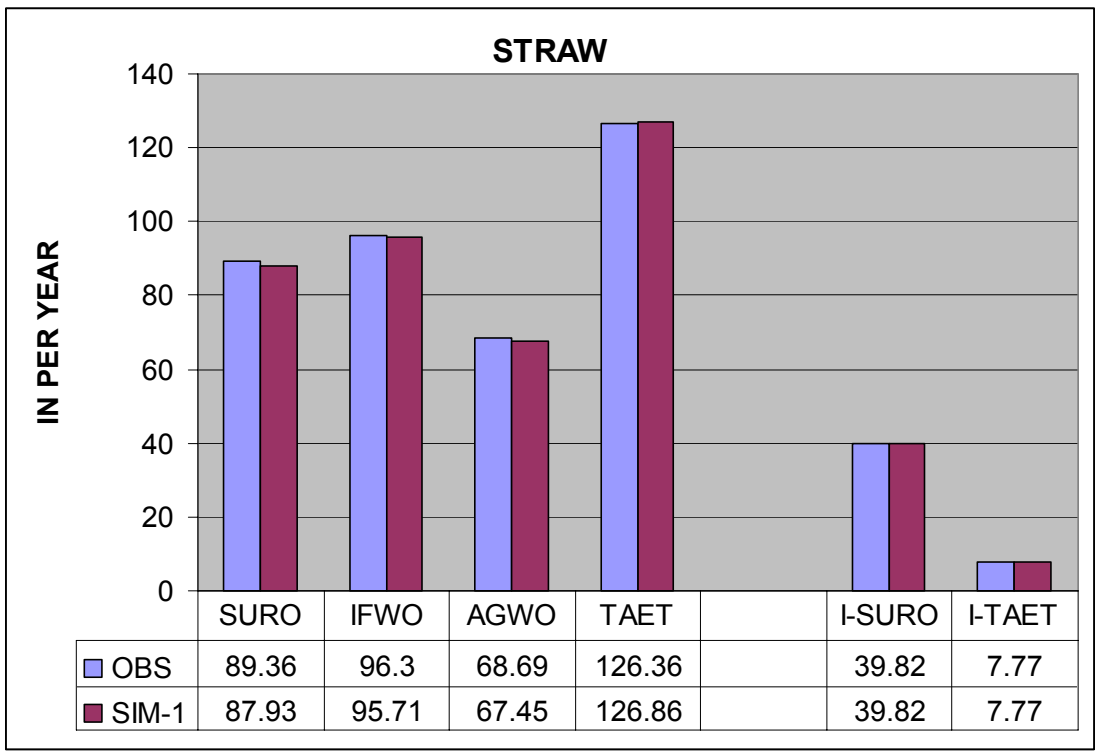
	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	10.91	19.55	34.47	1.92	0.72	0.34	0.11	21.64	39.96
sSURO	10.9	19.51	33.25	1.93	0.71	0.36	0.41	21.58	39.99
oIFWO	14.52	10.2	2.75	14.93	19.62	15.55	9.92	9.15	
sIFWO	14.51	10.2	2.65	14.96	19.58	15.58	9.95	9.15	
oAGWO	7.72	5.42	1.46	11.43	10.43	11.9	15.71	4.87	
sAGWO	7.72	5.41	1.33	11.43	10.43	11.9	15.97	4.86	
oTAET	14.6	12.58	9.08	19.47	16.99	19.96	22.02	12.09	7.79
sTAET	14.59	12.63	10.62	19.47	16.98	19.96	22.05	12.16	7.82

Results of HSPF model verification of Chico Creek Main Stem for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious (IMPERV.) surfaces.

A.

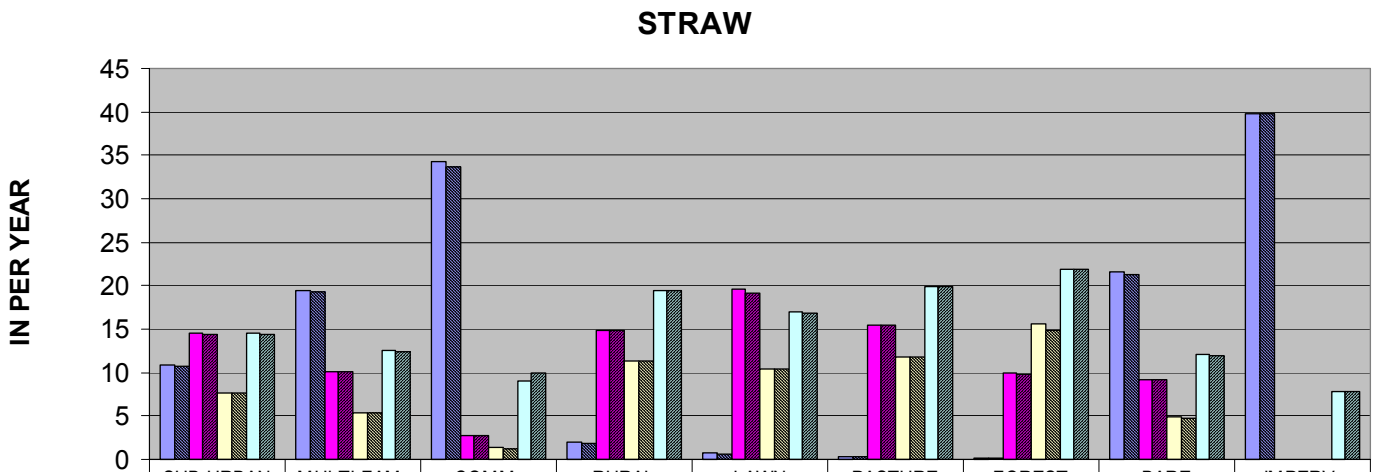


B.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	89.36	96.3	68.69	126.36		39.82	7.77
SIM-1	87.93	95.71	67.45	126.86		39.82	7.77

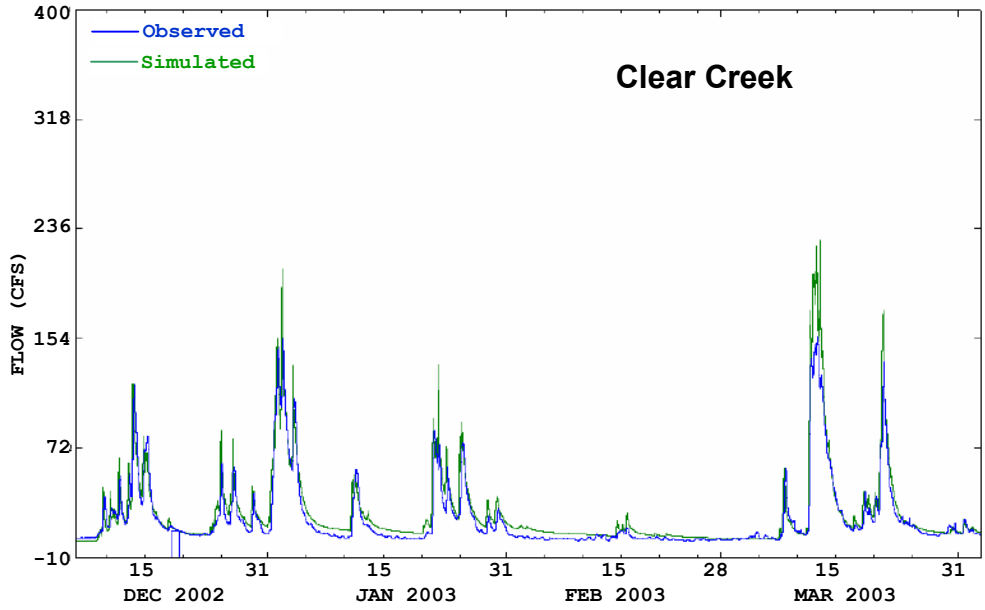
Results of HSPF model verification of Strawberry Creek for observed (OBS) and simulated (SIM) flow for Dec. 2002 – Jan. 2003 (**A**) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (**B**).



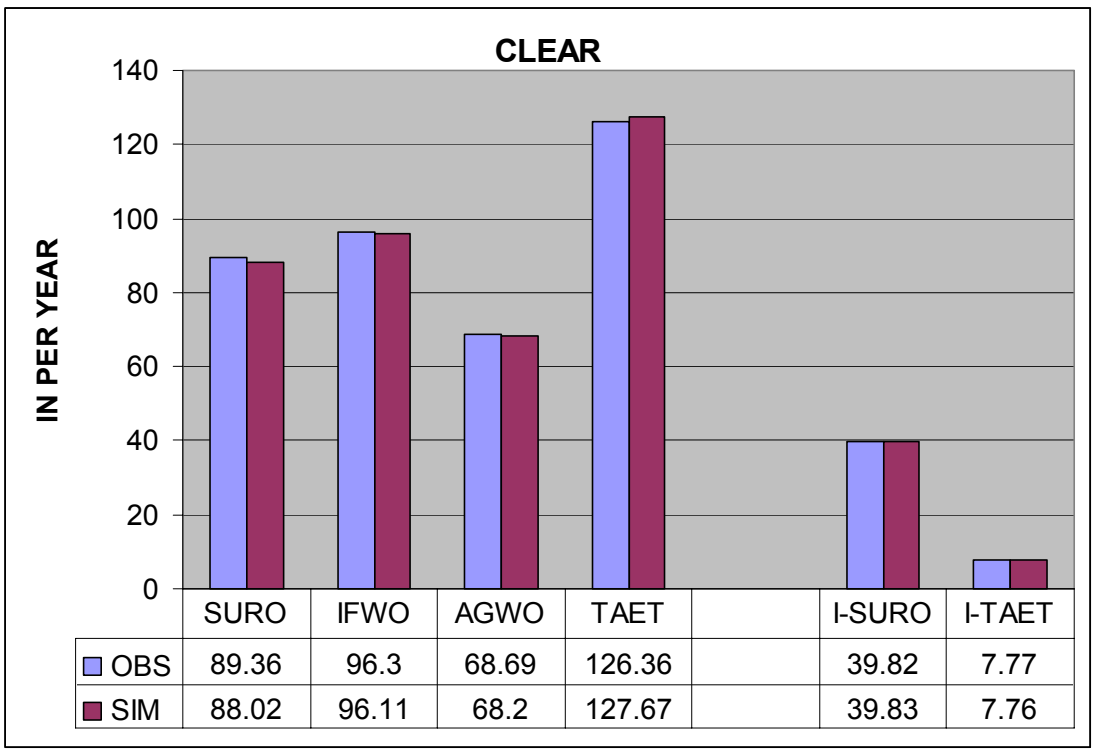
	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	10.88	19.48	34.35	1.92	0.71	0.34	0.11	21.57	39.82
sSURO	10.65	19.28	33.74	1.9	0.65	0.32	0.08	21.31	39.82
oIFWO	14.47	10.16	2.74	14.88	19.55	15.5	9.88	9.12	
sIFWO	14.44	10.16	2.71	14.84	19.2	15.48	9.76	9.12	
oAGWO	7.7	5.4	1.45	11.39	10.39	11.86	15.65	4.85	
sAGWO	7.63	5.33	1.26	11.39	10.38	11.86	14.8	4.8	
oTAET	14.55	12.54	9.05	19.4	16.93	19.89	21.95	12.05	7.77
sTAET	14.45	12.47	9.89	19.4	16.89	19.89	21.87	12	7.77

Results of HSPF model verification of Strawberry Creek for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.

A.

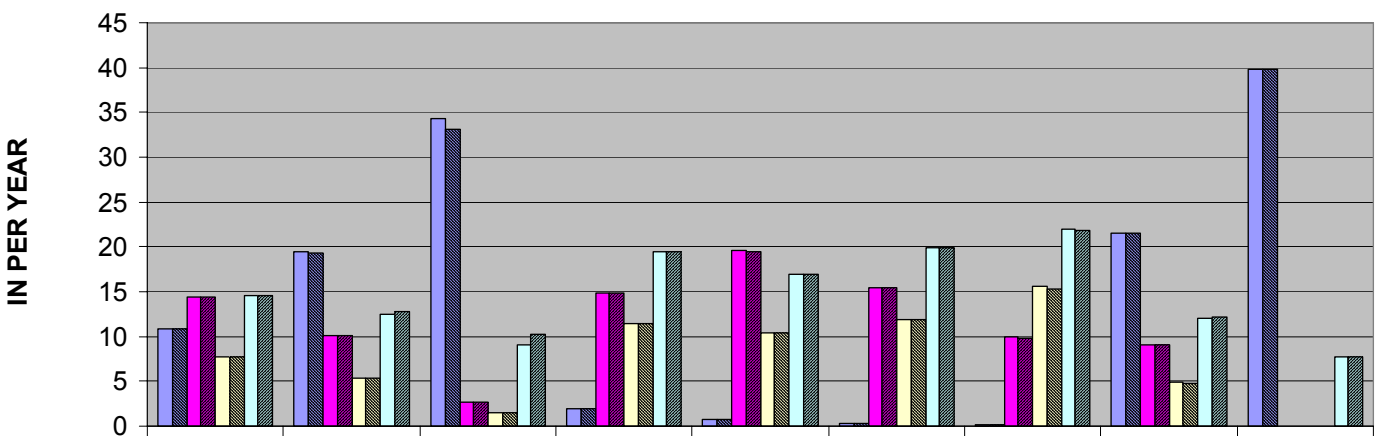


B.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	89.36	96.3	68.69	126.36		39.82	7.77
SIM	88.02	96.11	68.2	127.67		39.83	7.76

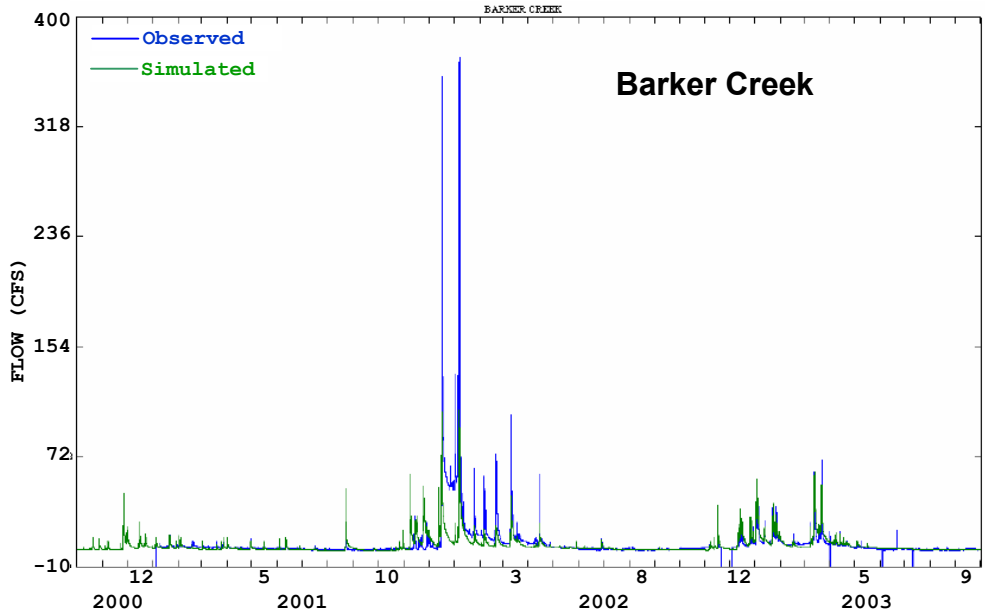
Results of HSPF model verification of Clear Creek for observed (OBS) and simulated (SIM) flow for Dec. 2002 – Mar. 2003 (**A**) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (**B**).



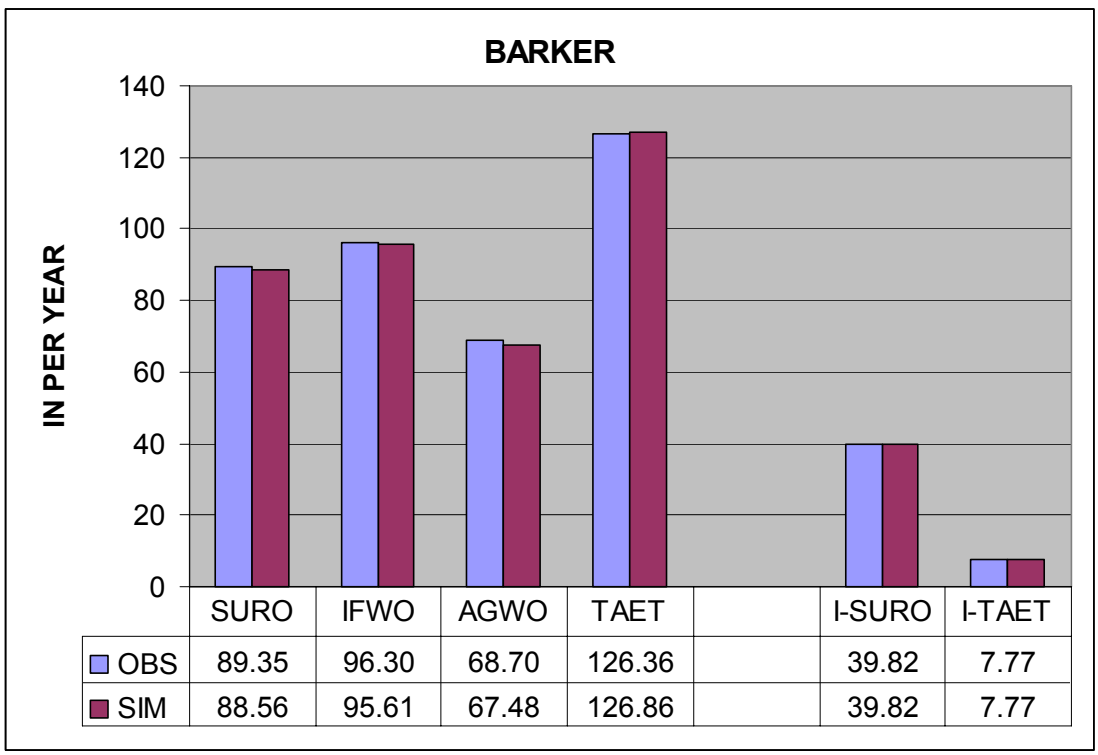
	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	10.88	19.48	34.35	1.92	0.71	0.34	0.11	21.57	39.82
sSURO	10.87	19.36	33.18	1.90	0.71	0.33	0.19	21.48	39.83
oIFWO	14.47	10.16	2.74	14.88	19.55	15.50	9.88	9.12	
sIFWO	14.46	10.15	2.74	14.84	19.51	15.45	9.84	9.12	
oAGWO	7.70	5.40	1.45	11.39	10.39	11.86	15.65	4.85	
sAGWO	7.69	5.34	1.48	11.39	10.39	11.86	15.23	4.82	
oTAET	14.55	12.54	9.05	19.40	16.93	19.89	21.95	12.05	7.77
sTAET	14.53	12.72	10.18	19.40	16.90	19.89	21.90	12.15	7.76

Results of HSPF model verification of Clear Creek for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.

A.

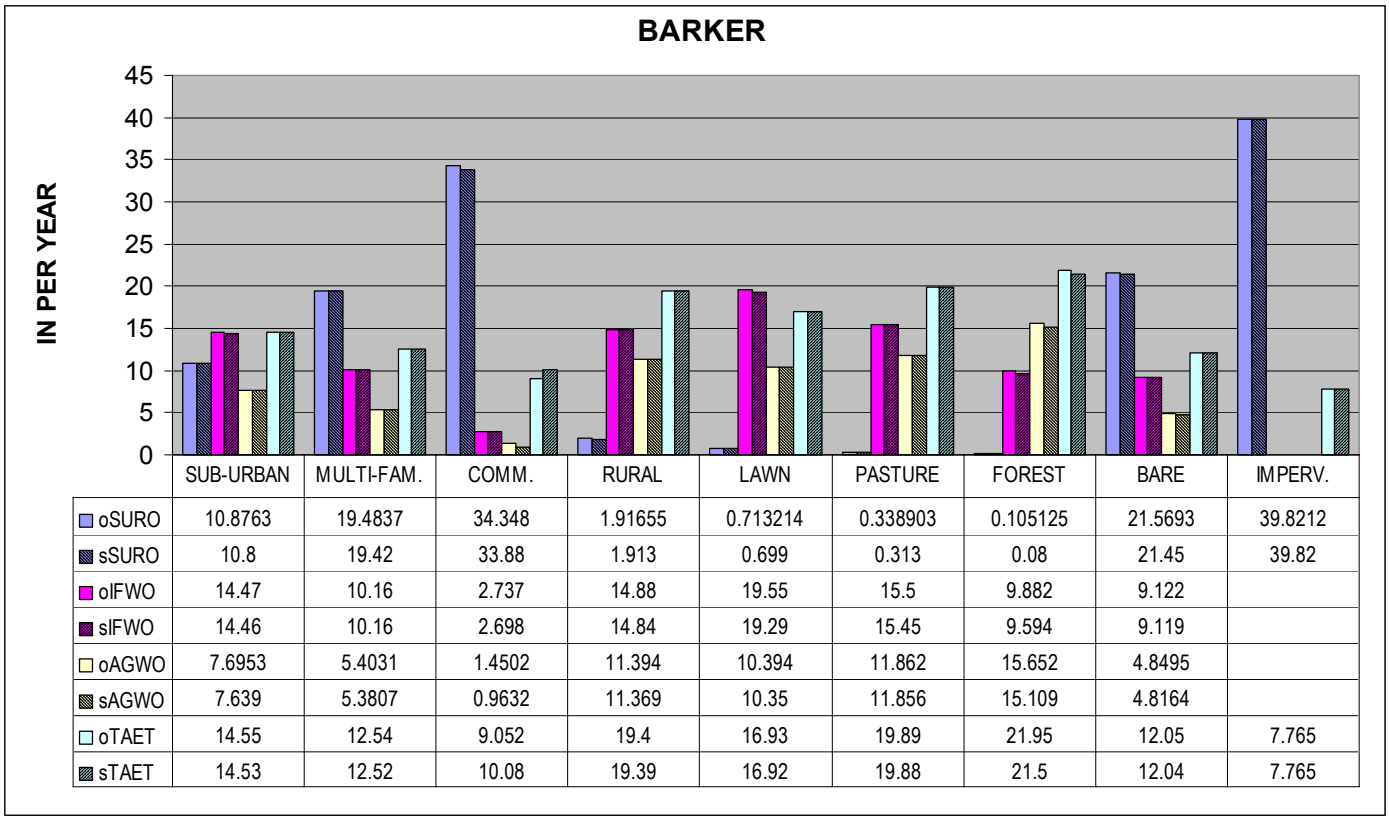


B.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	89.35	96.30	68.70	126.36		39.82	7.77
SIM	88.56	95.61	67.48	126.86		39.82	7.77

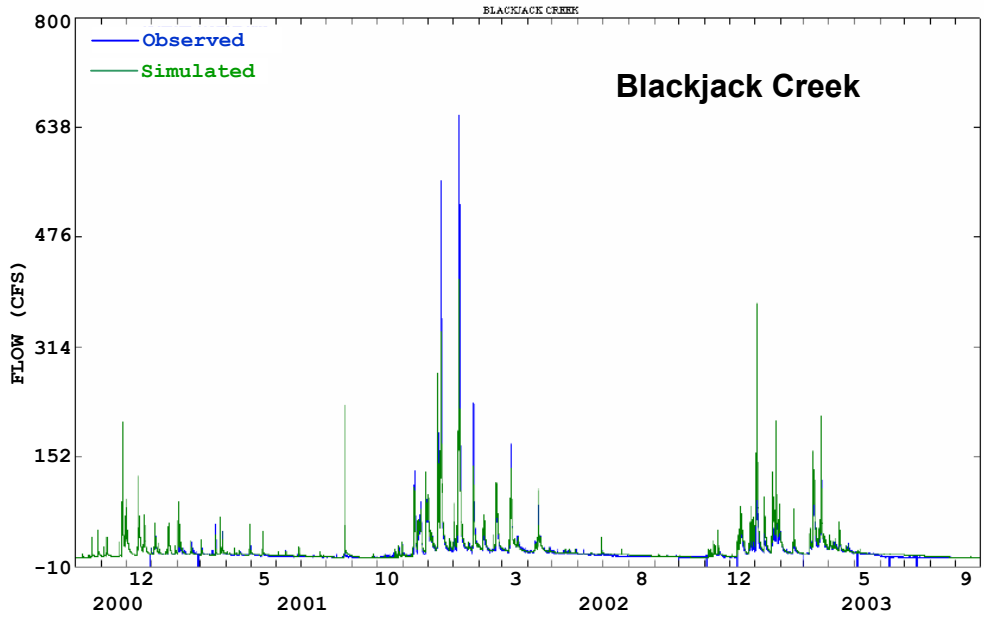
Results of HSPF model verification of Barker Creek for observed (OBS) and simulated (SIM) flow for Oct. 2000 – Sep. 2003 (**A**) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (**B**).



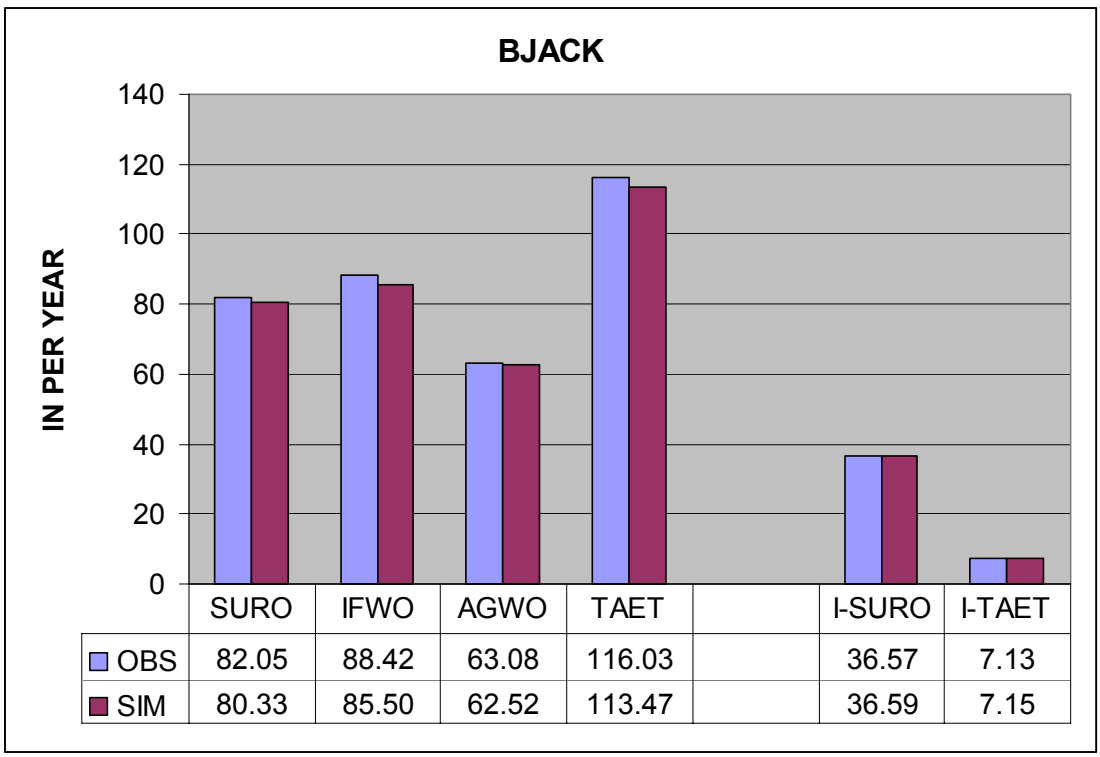
	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	10.8763	19.4837	34.348	1.91655	0.713214	0.338903	0.105125	21.5693	39.8212
sSURO	10.8	19.42	33.88	1.913	0.699	0.313	0.08	21.45	39.82
oIFWO	14.47	10.16	2.737	14.88	19.55	15.5	9.882	9.122	
sIFWO	14.46	10.16	2.698	14.84	19.29	15.45	9.594	9.119	
oAGWO	7.6953	5.4031	1.4502	11.394	10.394	11.862	15.652	4.8495	
sAGWO	7.639	5.3807	0.9632	11.369	10.35	11.856	15.109	4.8164	
oTAET	14.55	12.54	9.052	19.4	16.93	19.89	21.95	12.05	7.765
sTAET	14.53	12.52	10.08	19.39	16.92	19.88	21.5	12.04	7.765

Results of HSPF model verification of Barker Creek for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.

A.

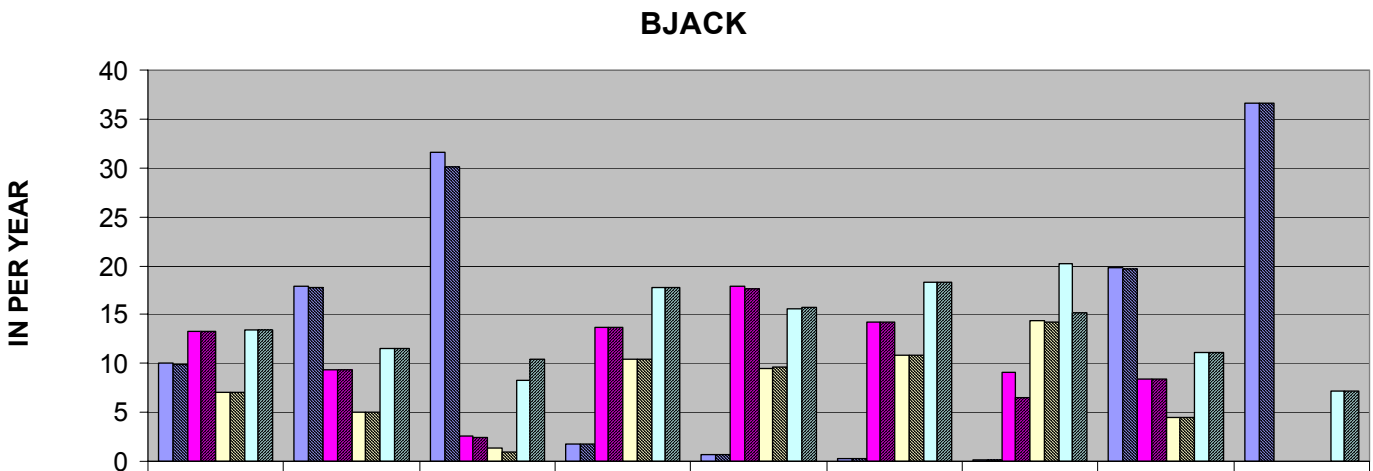


B.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	82.05	88.42	63.08	116.03		36.57	7.13
SIM	80.33	85.50	62.52	113.47		36.59	7.15

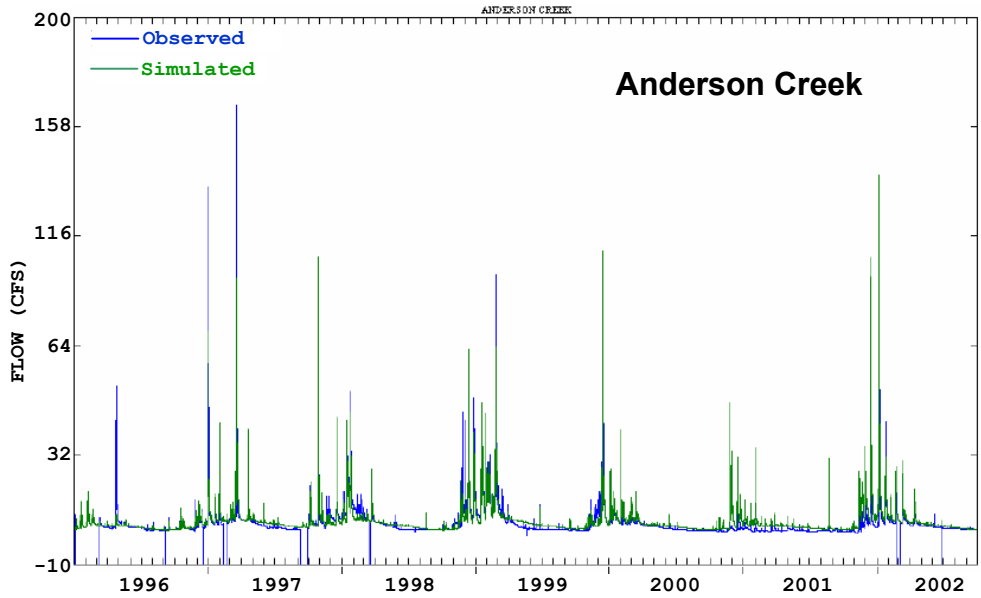
Results of HSPF model verification of Blackjack Creek for observed (OBS) and simulated (SIM) flow for Oct. 2000 – Sep. 2003 (**A**) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (**B**).



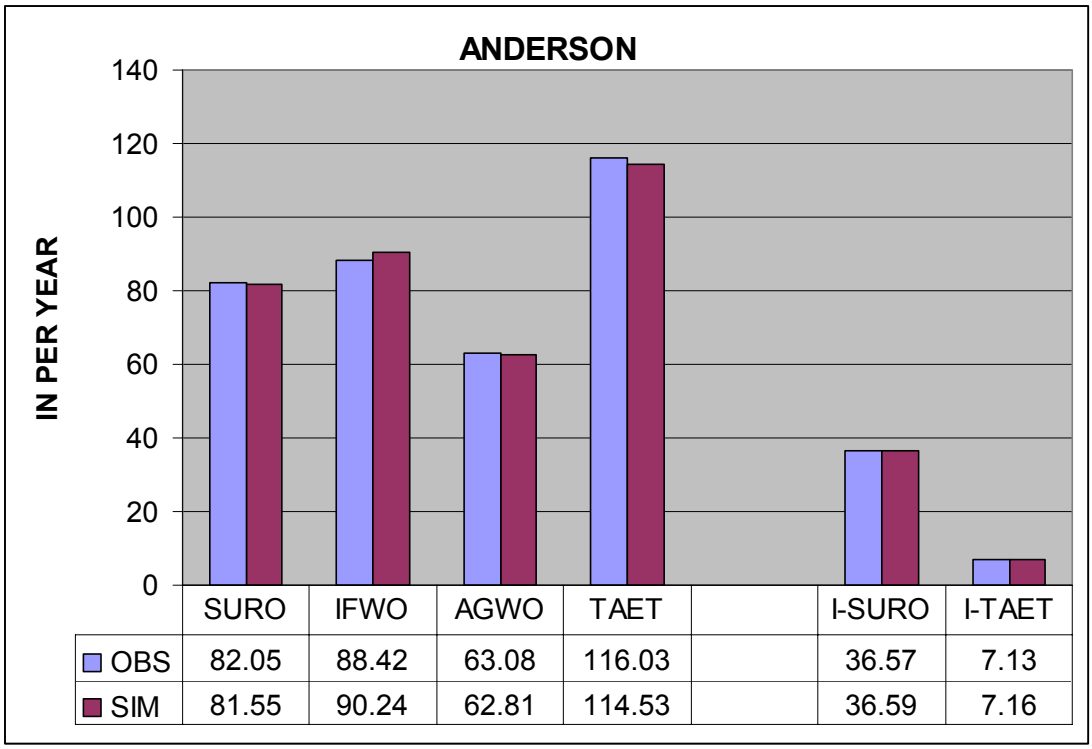
	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	9.99	17.89	31.54	1.76	0.65	0.31	0.1	19.81	36.57
sSURO	9.91	17.8	30.09	1.76	0.64	0.31	0.13	19.69	36.59
oIFWO	13.29	9.33	2.51	13.66	17.95	14.23	9.07	8.38	
sIFWO	13.28	9.33	2.46	13.66	17.61	14.23	6.55	8.38	
oAGWO	7.07	4.96	1.33	10.46	9.55	10.89	14.37	4.45	
sAGWO	7.07	4.97	0.89	10.46	9.56	10.89	14.21	4.47	
oTAET	13.36	11.51	8.31	17.81	15.55	18.27	20.16	11.06	7.13
sTAET	13.38	11.57	10.39	17.83	15.72	18.29	15.16	11.13	7.15

Results of HSPF model verification of Blackjack Creek for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.

A.

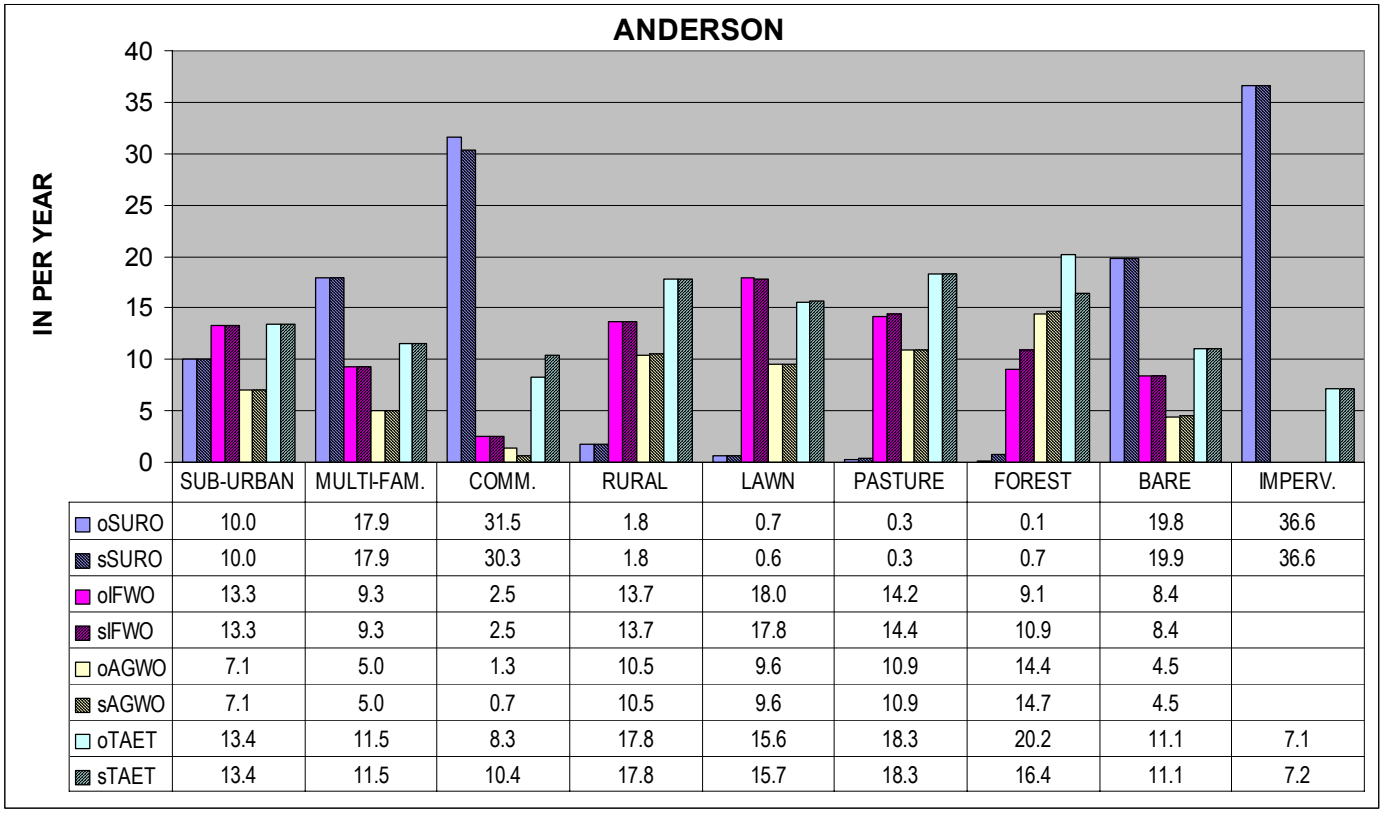


B.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	82.05	88.42	63.08	116.03		36.57	7.13
SIM	81.55	90.24	62.81	114.53		36.59	7.16

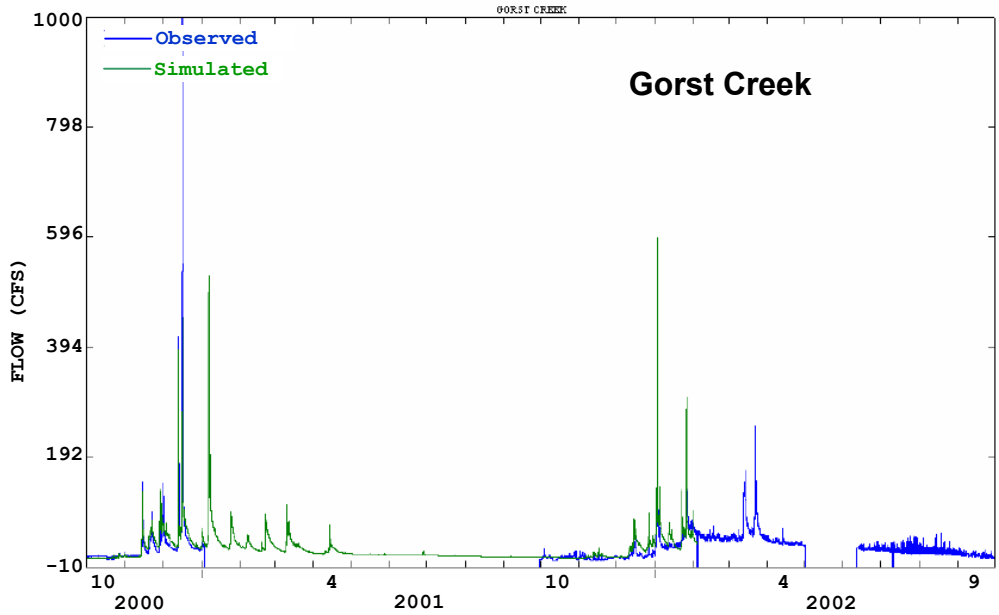
Results of HSPF model verification of Anderson Creek for observed (OBS) and simulated (SIM) flow for Oct. 1996 – Sep. 2002 (**A**) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (**B**).



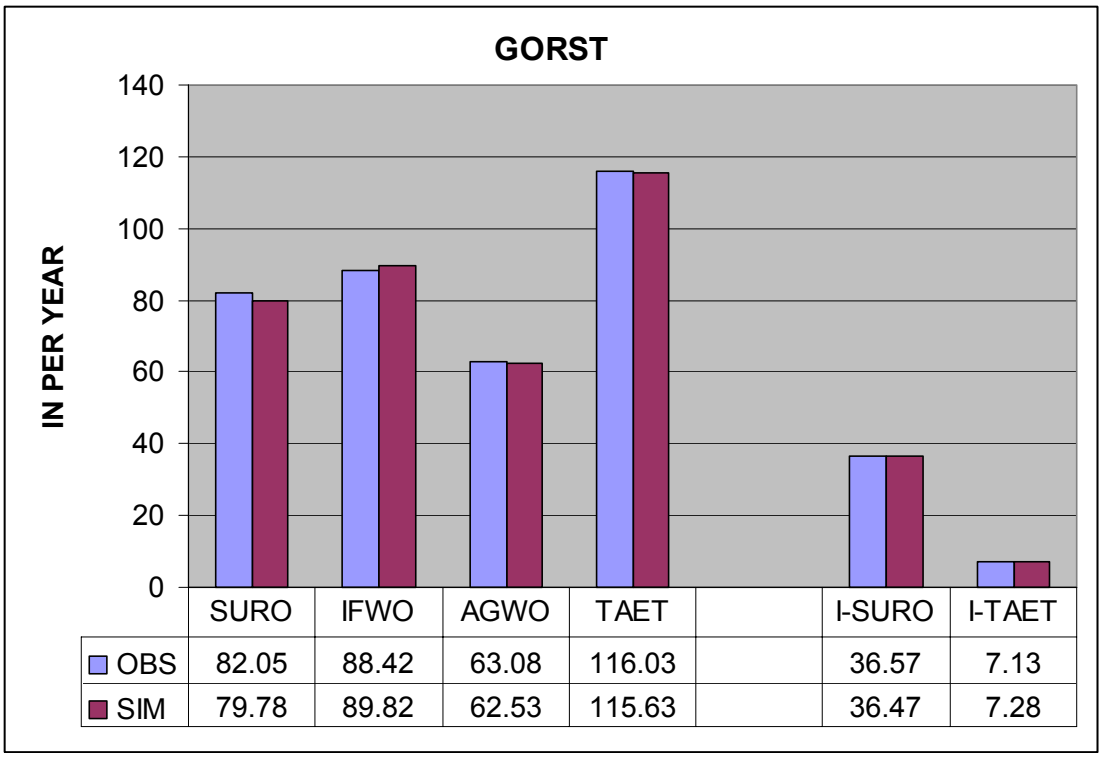
	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	10.0	17.9	31.5	1.8	0.7	0.3	0.1	19.8	36.6
sSURO	10.0	17.9	30.3	1.8	0.6	0.3	0.7	19.9	36.6
oIFWO	13.3	9.3	2.5	13.7	18.0	14.2	9.1	8.4	
sIFWO	13.3	9.3	2.5	13.7	17.8	14.4	10.9	8.4	
oAGWO	7.1	5.0	1.3	10.5	9.6	10.9	14.4	4.5	
sAGWO	7.1	5.0	0.7	10.5	9.6	10.9	14.7	4.5	
oTAET	13.4	11.5	8.3	17.8	15.6	18.3	20.2	11.1	7.1
sTAET	13.4	11.5	10.4	17.8	15.7	18.3	16.4	11.1	7.2

Results of HSPF model verification of Anderson Creek for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.

A.

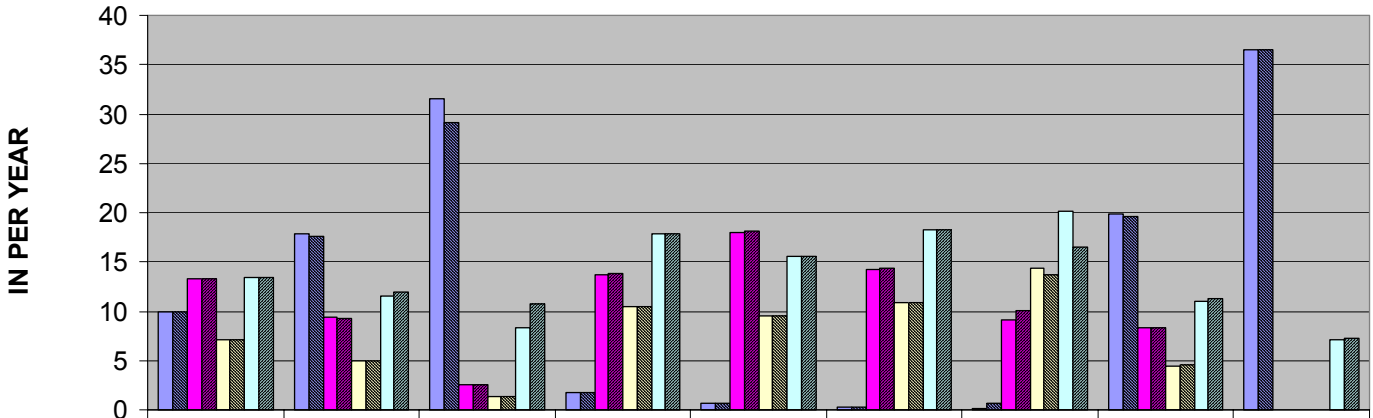


B.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	82.05	88.42	63.08	116.03		36.57	7.13
SIM	79.78	89.82	62.53	115.63		36.47	7.28

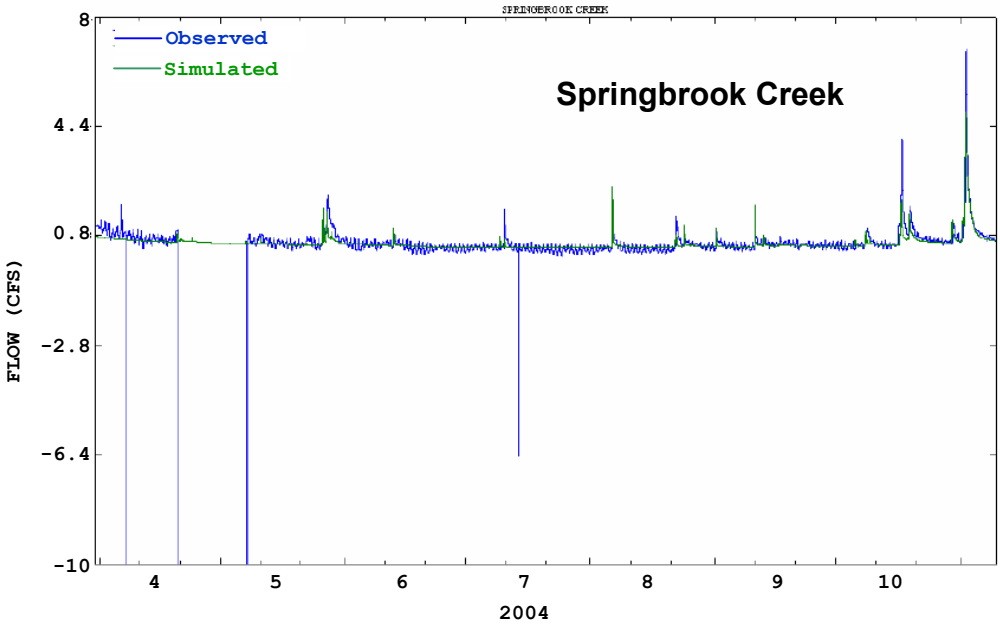
Results of HSPF model verification of Gorst Creek for observed (OBS) and simulated (SIM) flow for Oct. 2000 – Sept. 2002 (**A**) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (**B**).



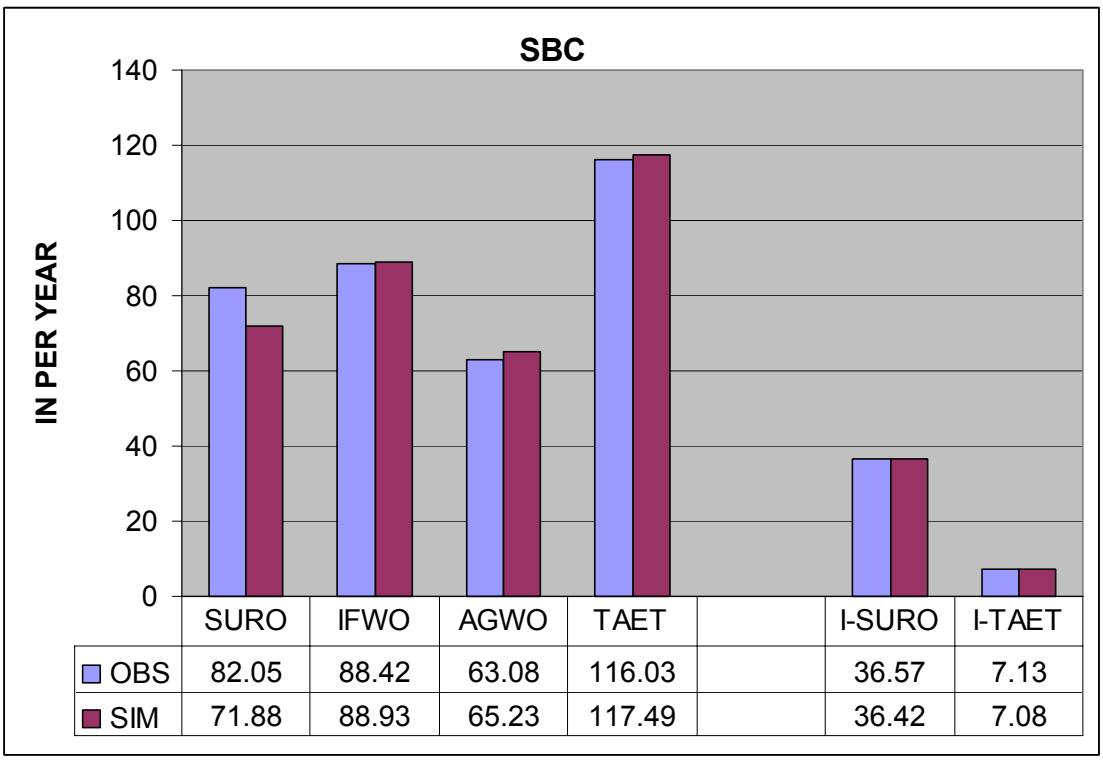
	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	9.99	17.89	31.54	1.76	0.65	0.31	0.1	19.81	36.57
sSURO	9.99	17.6	29.19	1.76	0.66	0.33	0.71	19.54	36.47
oIFWO	13.29	9.33	2.51	13.66	17.95	14.23	9.07	8.38	
sIFWO	13.29	9.32	2.55	13.78	18.11	14.38	10.03	8.36	
oAGWO	7.07	4.96	1.33	10.46	9.55	10.89	14.37	4.45	
sAGWO	7.05	4.93	1.34	10.5	9.57	10.9	13.74	4.5	
oTAET	13.36	11.51	8.31	17.81	15.55	18.27	20.16	11.06	7.13
sTAET	13.42	11.89	10.73	17.86	15.63	18.3	16.46	11.34	7.28

Results of HSPF model verification of Anderson Creek for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.

A.

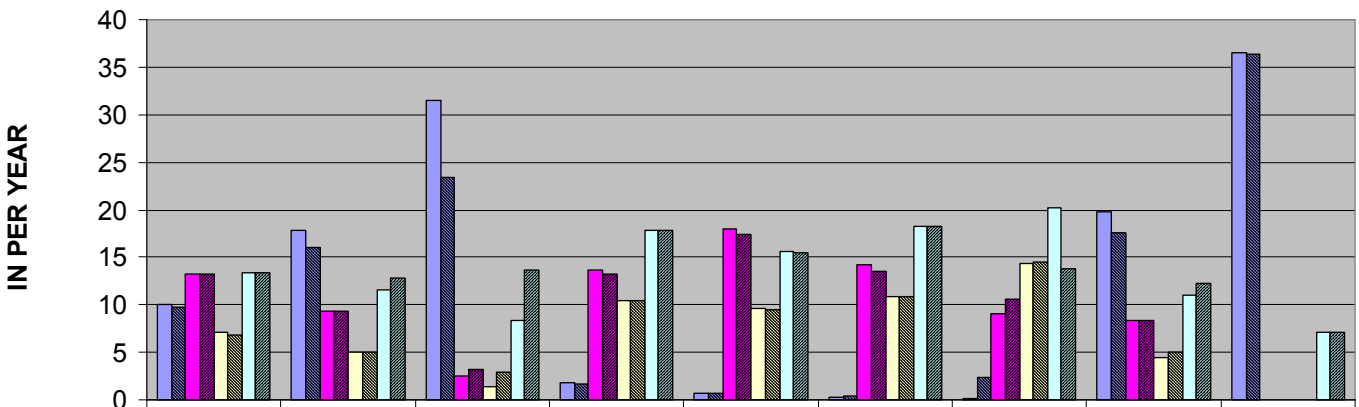


B.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	82.05	88.42	63.08	116.03		36.57	7.13
SIM	71.88	88.93	65.23	117.49		36.42	7.08

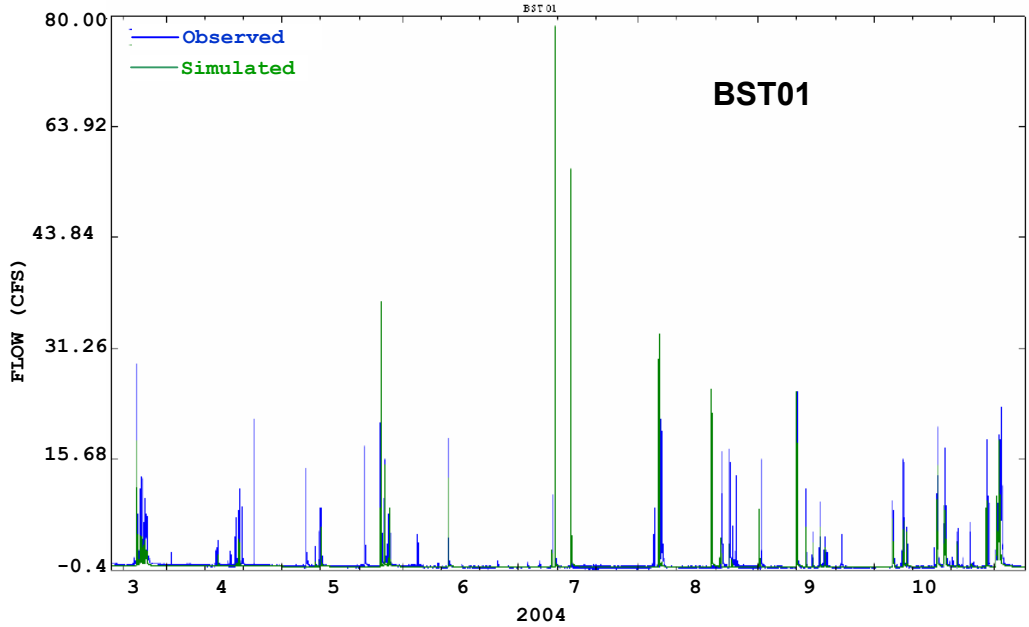
Results of HSPF model verification of Gorst Creek for observed (OBS) and simulated (SIM) flow for April – Oct 2004 (**A**) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (**B**).



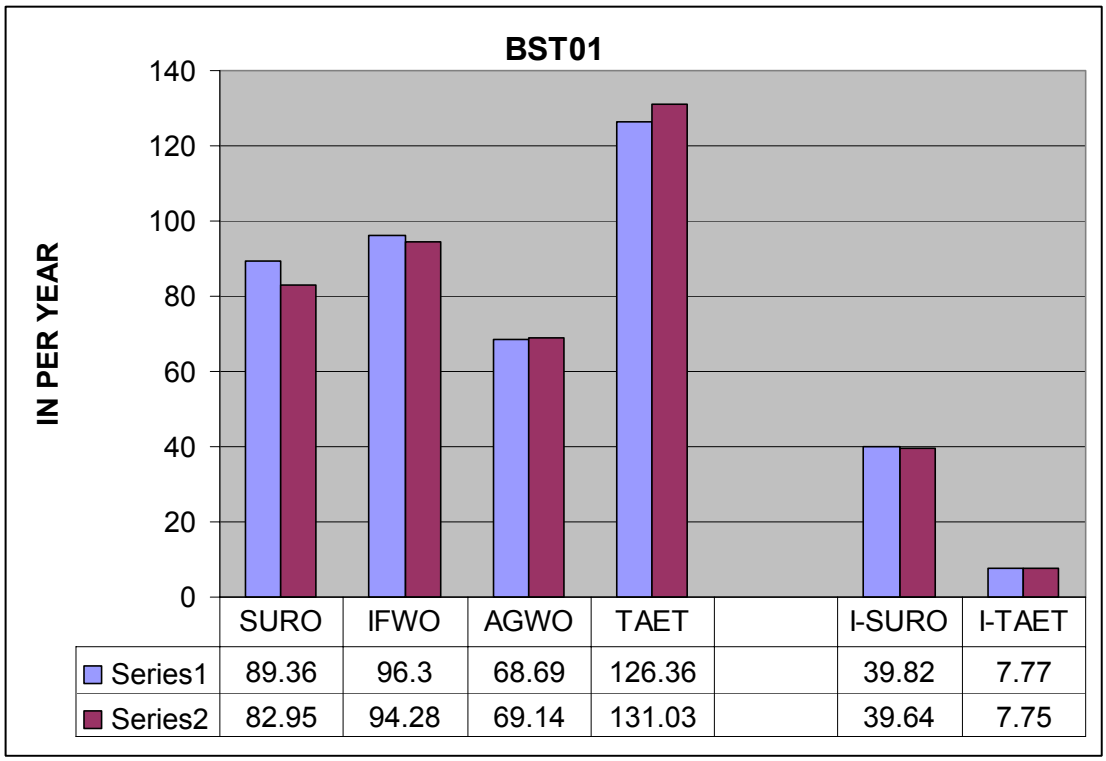
	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	9.99	17.89	31.54	1.76	0.65	0.31	0.1	19.81	36.57
sSURO	9.72	16.05	23.45	1.69	0.66	0.39	2.36	17.56	36.42
oIFWO	13.29	9.33	2.51	13.66	17.95	14.23	9.07	8.38	
sIFWO	13.19	9.34	3.23	13.19	17.49	13.53	10.58	8.38	
oAGWO	7.07	4.96	1.33	10.46	9.55	10.89	14.37	4.45	
sAGWO	6.81	5.07	2.9	10.44	9.52	10.89	14.56	5.04	
oTAET	13.36	11.51	8.31	17.81	15.55	18.27	20.16	11.06	7.13
sTAET	13.44	12.8	13.7	17.79	15.48	18.24	13.77	12.27	7.08

Results of HSPF model verification of Springbrook Creek for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.

A.

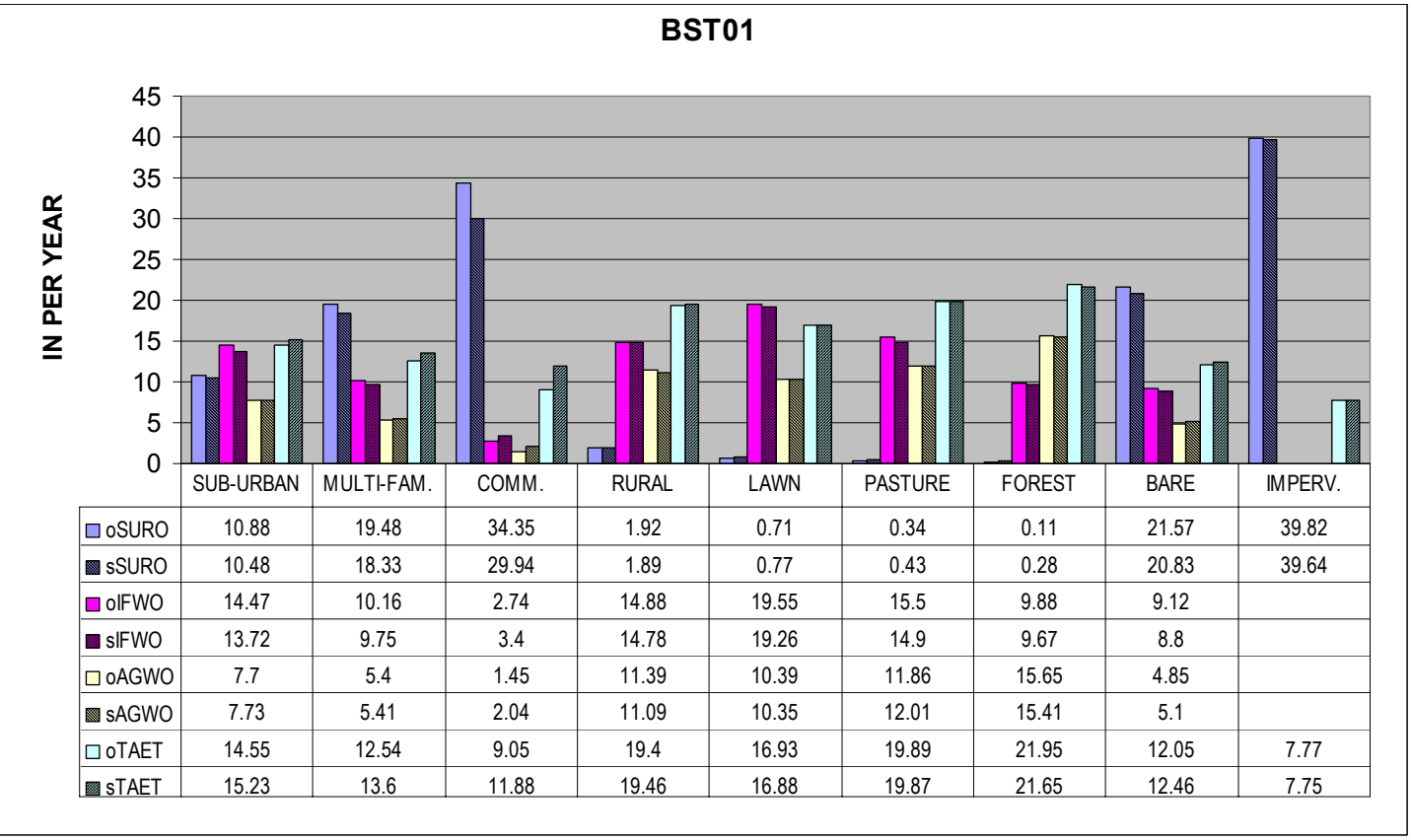


B.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
Series1	89.36	96.3	68.69	126.36		39.82	7.77
Series2	82.95	94.28	69.14	131.03		39.64	7.75

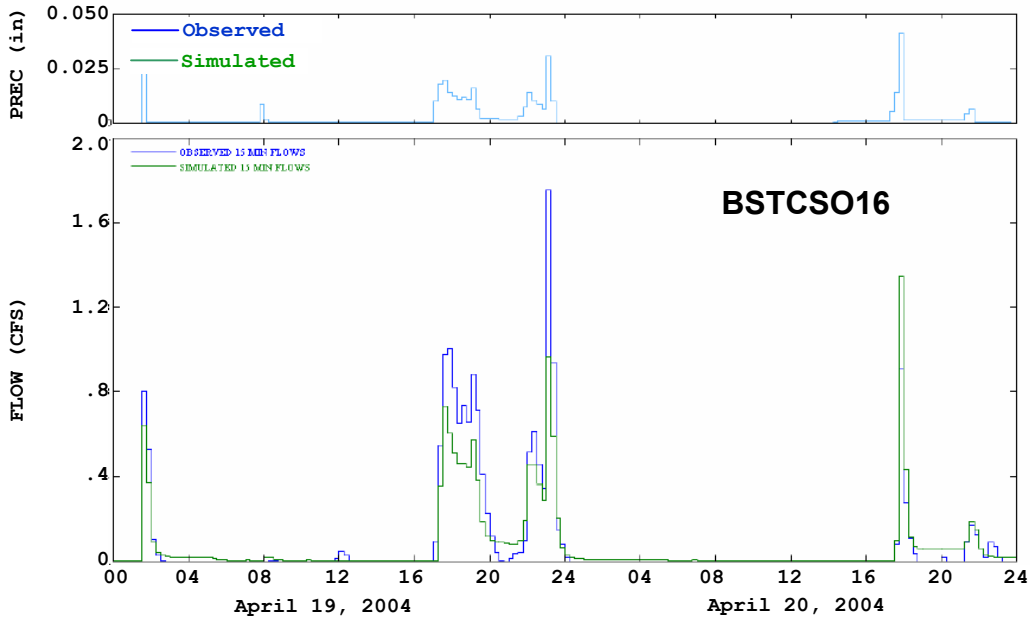
Results of HSPF model verification of BST01 for observed (OBS) and simulated (SIM) flow for March – October 2004 (A) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (B).



	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	10.88	19.48	34.35	1.92	0.71	0.34	0.11	21.57	39.82
sSURO	10.48	18.33	29.94	1.89	0.77	0.43	0.28	20.83	39.64
oIFWO	14.47	10.16	2.74	14.88	19.55	15.5	9.88	9.12	
sIFWO	13.72	9.75	3.4	14.78	19.26	14.9	9.67	8.8	
oAGWO	7.7	5.4	1.45	11.39	10.39	11.86	15.65	4.85	
sAGWO	7.73	5.41	2.04	11.09	10.35	12.01	15.41	5.1	
oTAET	14.55	12.54	9.05	19.4	16.93	19.89	21.95	12.05	7.77
sTAET	15.23	13.6	11.88	19.46	16.88	19.87	21.65	12.46	7.75

Results of HSPF model verification of BST01 for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.

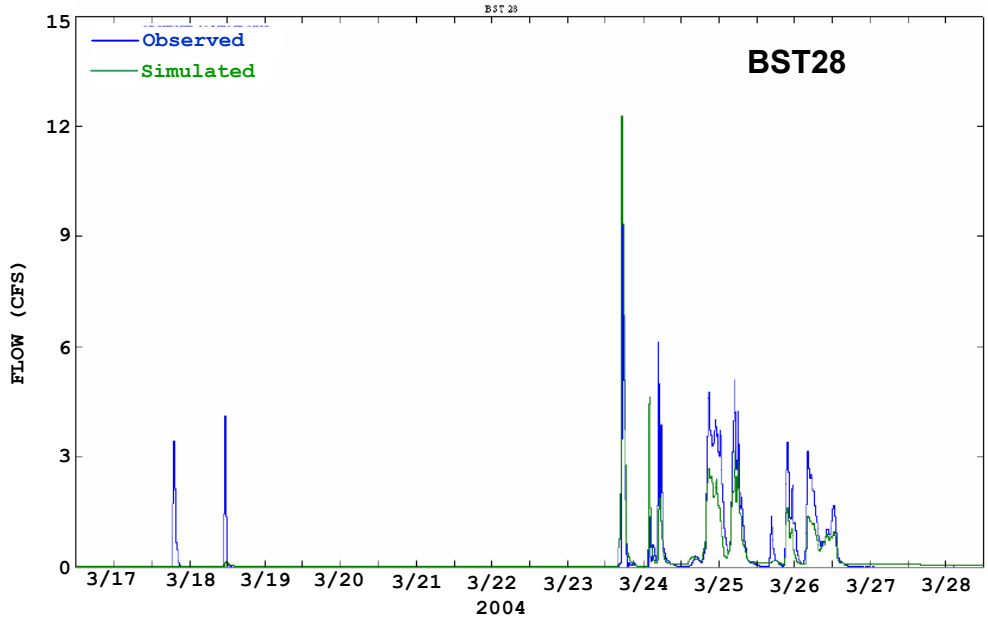
A.



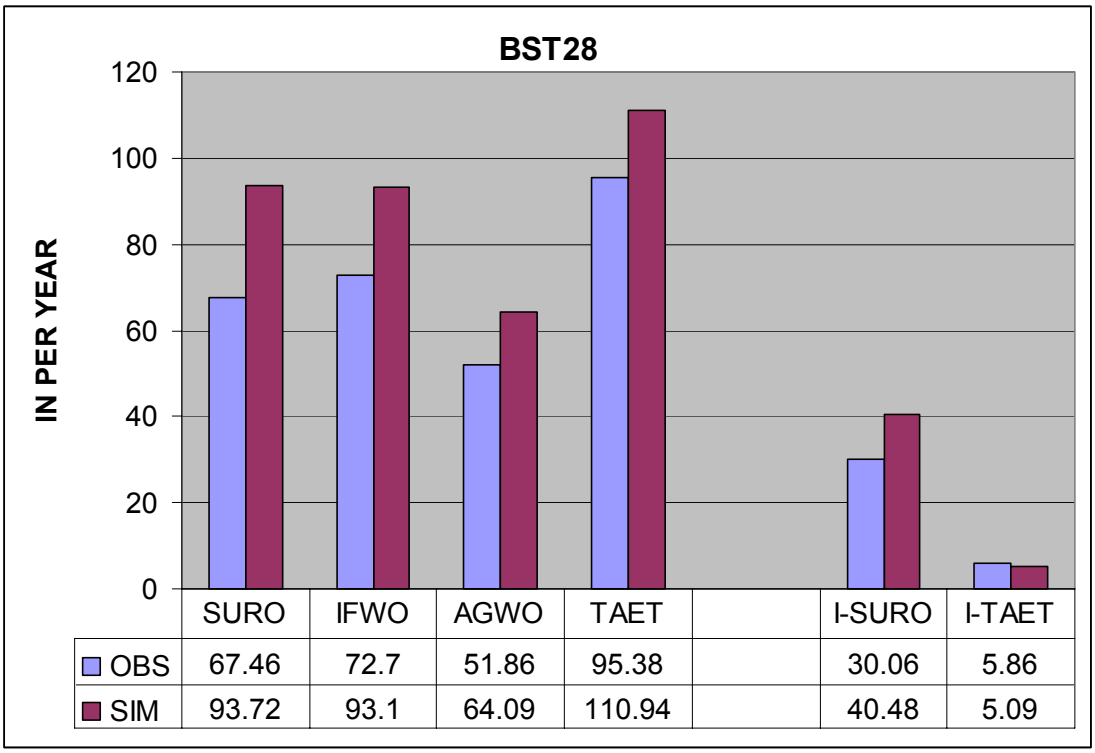
B. (not available)

Results of HSPF model verification of BSTCSO16 for observed (OBS) and simulated (SIM) flow for April 19-20, 2004 (A) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (B).

A.

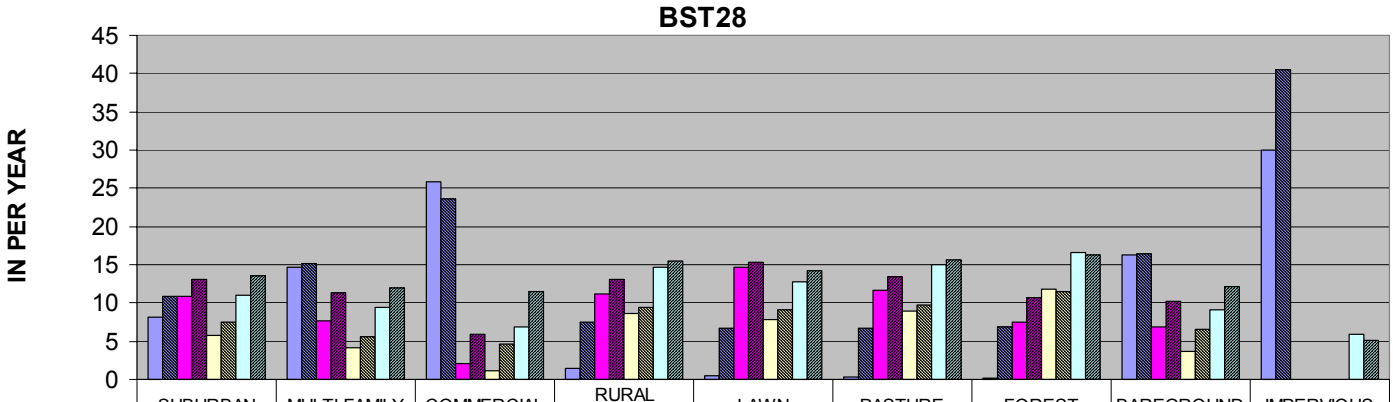


B.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	67.46	72.7	51.86	95.38		30.06	5.86
SIM	93.72	93.1	64.09	110.94		40.48	5.09

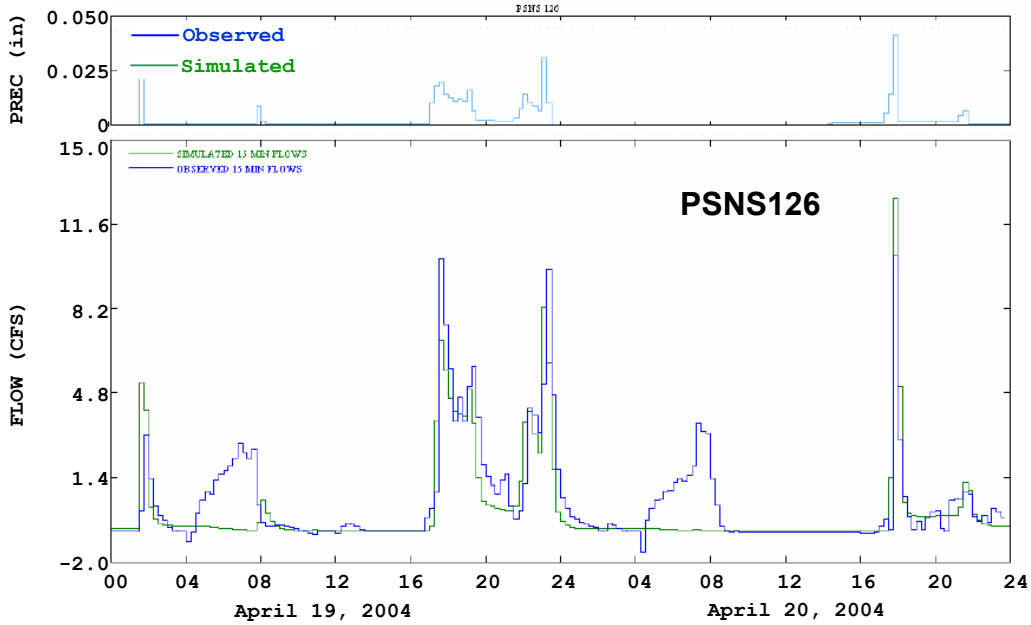
Results of HSPF model verification of BST28 for observed (OBS) and simulated (SIM) flow for Mar. 17 - Mar. 28, 2004 (**A**) and the partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET) (**B**).



	SUBURBAN	MULTI-FAMILY	COMMERCIAL	RURAL RESIDENTIAL	LAWN	PASTURE	FOREST	BAREGROUND	IMPERVIOUS
oSURO	8.21	14.71	25.93	1.45	0.54	0.26	0.08	16.28	30.06
sSURO	10.82	15.11	23.55	7.44	6.76	6.67	6.94	16.43	40.48
oIFWO	10.92	7.67	2.07	11.23	14.76	11.7	7.46	6.89	
sIFWO	13.14	11.34	5.83	13.11	15.36	13.39	10.69	10.24	
oAGWO	5.81	4.08	1.09	8.6	7.85	8.95	11.82	3.66	
sAGWO	7.53	5.64	4.55	9.49	9.04	9.74	11.54	6.56	
oTAET	10.98	9.46	6.83	14.65	12.78	15.02	16.57	9.09	5.86
sTAET	13.64	12.01	11.5	15.42	14.27	15.67	16.27	12.16	5.09

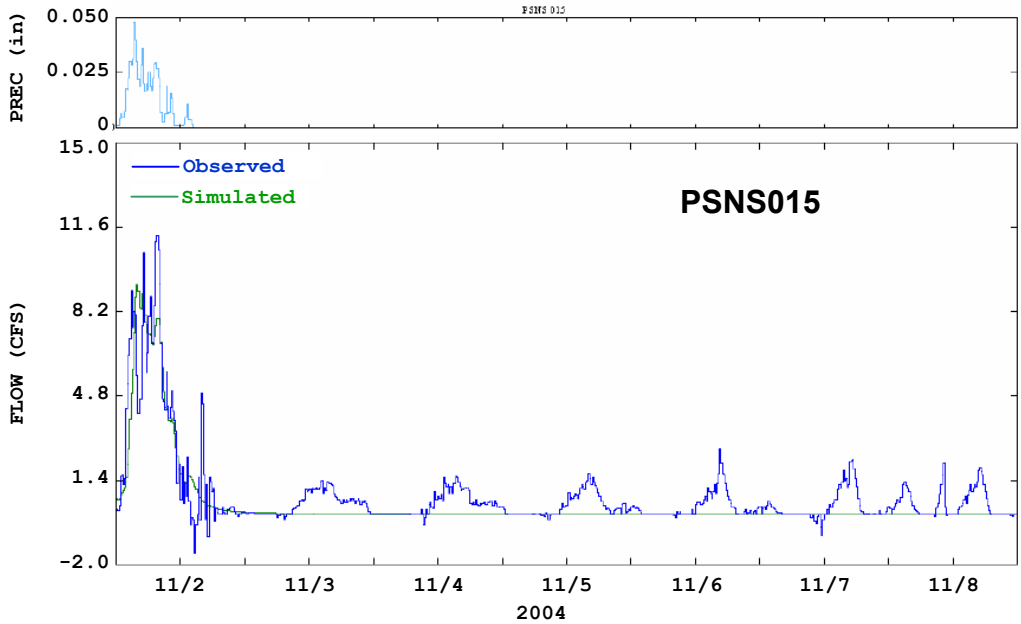
Results of HSPF model verification of BST28 for observed ("o" – solid bars) and simulated ("s" – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.

A.

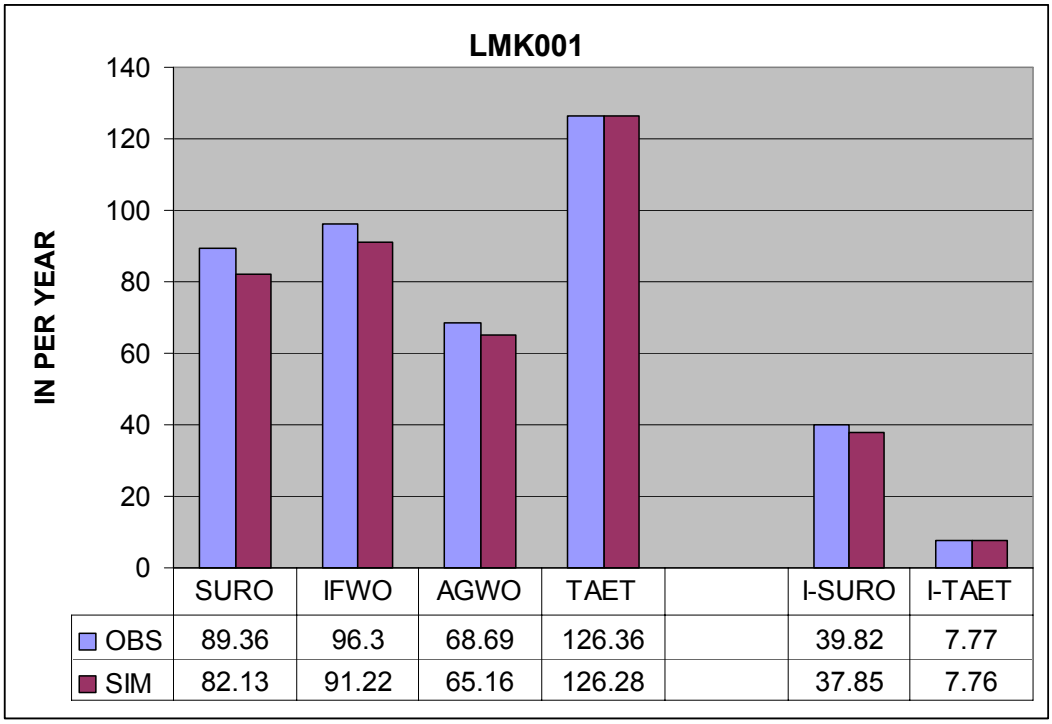


Results of HSPF model verification of BSTCSO16 for observed (OBS) and simulated (SIM) flow for April 19-20, 2004.

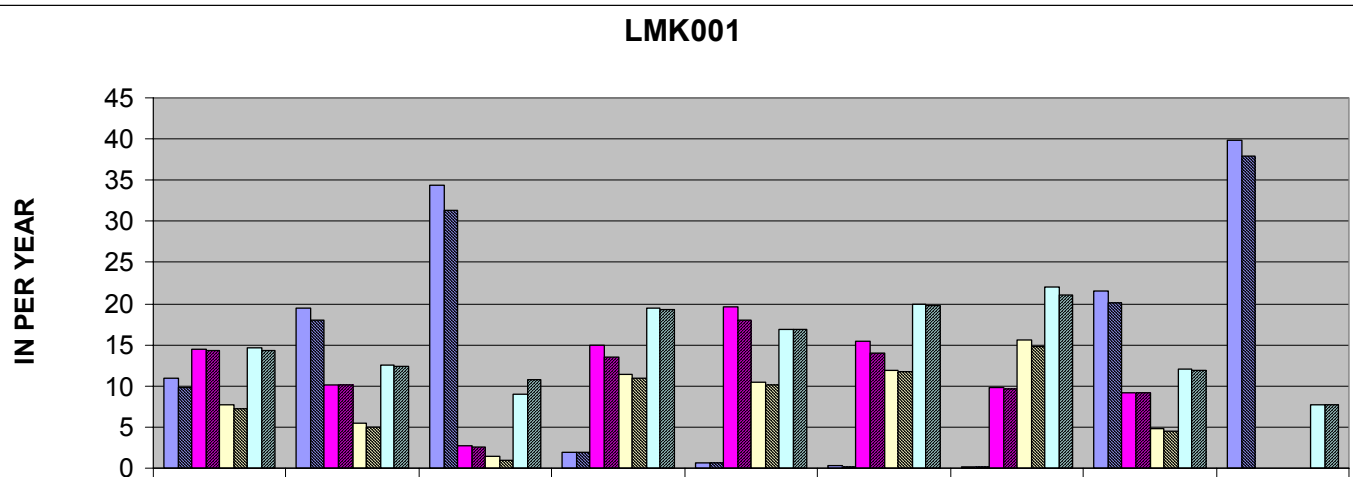
A.



Results of HSPF model verification of BSTCSO16 for observed (OBS) and simulated (SIM) flow for April 19-20, 2004.

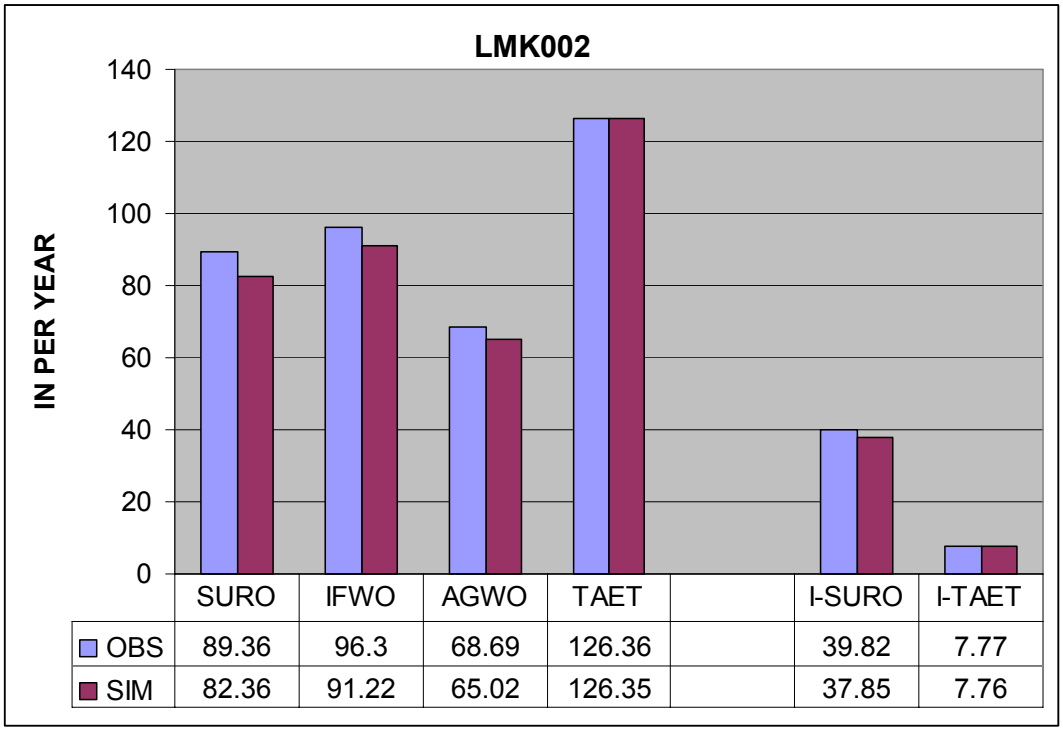


Results of HSPF model verification of LMK001 for observed (OBS) and simulated (SIM) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET).



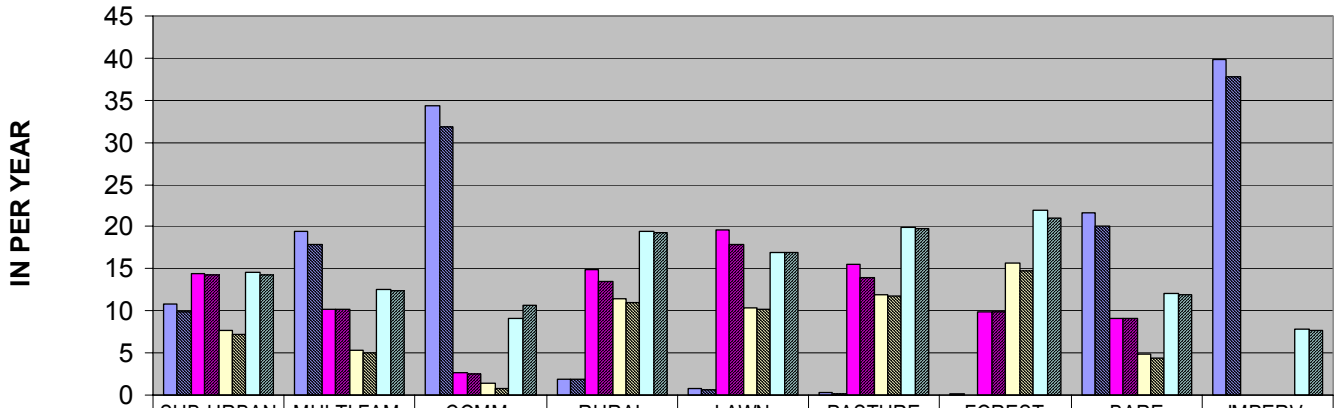
	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	10.88	19.48	34.35	1.92	0.71	0.34	0.11	21.57	39.82
sSURO	9.76	17.95	31.4	1.91	0.67	0.2	0.18	20.06	37.85
oIFWO	14.47	10.16	2.74	14.88	19.55	15.5	9.88	9.12	
sIFWO	14.31	10.16	2.54	13.53	17.94	13.95	9.68	9.11	
oAGWO	7.7	5.4	1.45	11.39	10.39	11.86	15.65	4.85	
sAGWO	7.16	5.06	0.98	10.9	10.13	11.73	14.75	4.45	
oTAET	14.55	12.54	9.05	19.4	16.93	19.89	21.95	12.05	7.77
sTAET	14.34	12.34	10.77	19.29	16.83	19.75	21.02	11.94	7.76

Results of HSPF model verification of LMK001 for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.



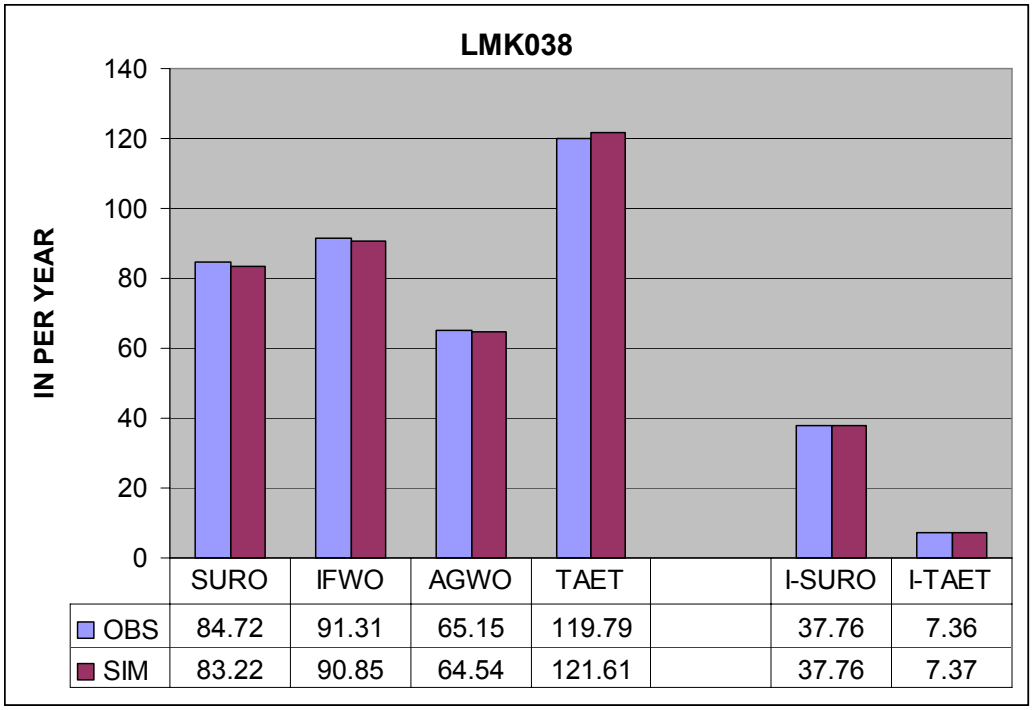
	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	89.36	96.3	68.69	126.36		39.82	7.77
SIM	82.36	91.22	65.02	126.35		37.85	7.76

Results of HSPF model verification of LMK002 for observed (OBS) and simulated (SIM) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET).



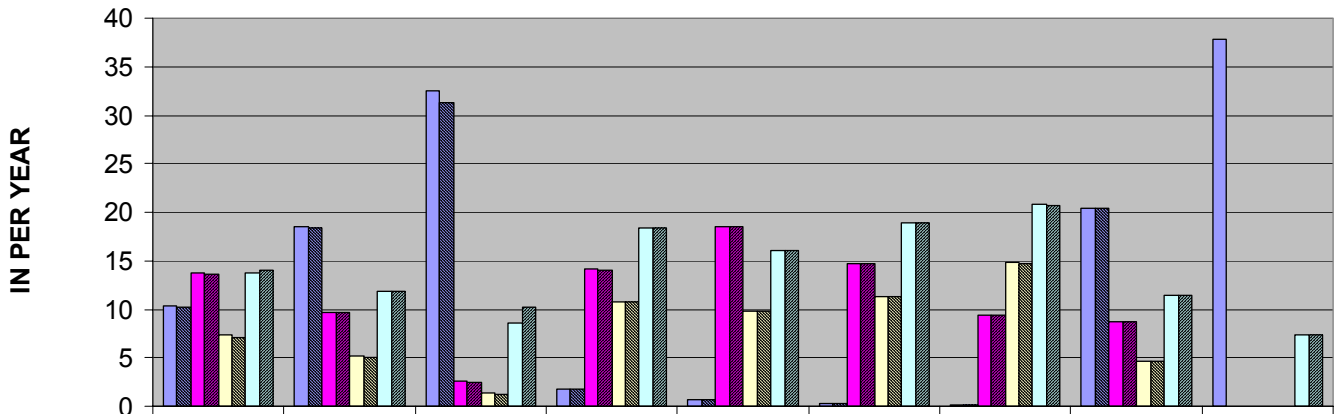
	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	10.88	19.48	34.35	1.92	0.71	0.34	0.11	21.57	39.82
sSURO	9.83	17.94	31.8	1.87	0.64	0.11	0.07	20.1	37.85
oIFWO	14.47	10.16	2.74	14.88	19.55	15.5	9.88	9.12	
sIFWO	14.26	10.16	2.57	13.46	17.89	13.96	9.81	9.11	
oAGWO	7.7	5.4	1.45	11.39	10.39	11.86	15.65	4.85	
sAGWO	7.15	5.03	0.79	10.99	10.17	11.76	14.69	4.44	
oTAET	14.55	12.54	9.05	19.4	16.93	19.89	21.95	12.05	7.77
sTAET	14.34	12.36	10.66	19.31	16.89	19.8	21.05	11.94	7.76

Results of HSPF model verification of LMK002 for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.



	SURO	IFWO	AGWO	TAET		I-SURO	I-TAET
OBS	84.72	91.31	65.15	119.79		37.76	7.36
SIM	83.22	90.85	64.54	121.61		37.76	7.37

Results of HSPF model verification of LMK038 for observed (OBS) and simulated (SIM) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET), impervious surface runoff (I-SUFO), and impervious surface total evapotranspiration (I-TAET).



	SUB-URBAN	MULTI-FAM.	COMM.	RURAL	LAWN	PASTURE	FOREST	BARE	IMPERV.
oSURO	10.31	18.47	32.57	1.82	0.68	0.32	0.1	20.45	37.76
sSURO	10.19	18.39	31.35	1.81	0.67	0.3	0.12	20.39	
oIFWO	13.72	9.64	2.59	14.11	18.54	14.69	9.37	8.65	
sIFWO	13.67	9.64	2.5	13.98	18.45	14.63	9.33	8.65	
oAGWO	7.3	5.12	1.38	10.8	9.86	11.25	14.84	4.6	
sAGWO	7.13	5.1	1.23	10.75	9.84	11.24	14.67	4.58	
oTAET	13.79	11.89	8.58	18.39	16.05	18.86	20.81	11.42	7.36
sTAET	14.03	11.88	10.25	18.39	16.05	18.86	20.74	11.41	7.37

Results of HSPF model verification of LMK038 for observed (“o” – solid bars) and simulated (“s” – stripped bars) partitioning of annual surface runoff (SUFO), interflow runoff (IFWO), baseflow runoff (AGWO), total evapotranspiration (TAET) by each land use class and impervious surfaces.