C-1

JOINT VENTURE TEAM/GAINES

COMPARISON STUDY RESULTS
DRAFT 2

4. RESULTS

4.1. General

4.2. Thirty Previous Model Studies

Table 4-1. Thalweg Comparisons for Thirty Previous Model Study Results

Large-Scale Model NAME	MODEL		Micromodel NAME	MODEL	
	DIFF	MSE		DIFF	MSE
Baleshed-Ajax	0.211	0.109	Augusta	-0.017	0.049
Blountstown	-0.074	0.031	Clarendon	0.035	0.032
Buck Island	-0.034	0.088	Copeland	0.029	0.002
Chipola Cutoff	0.278	0.247	KA 1:8000 Base	0.032	0.221
Devil's Island	-0.040	0.149	KA 1:8000 Predictive	0.071	0.064
Dogtooth Bend	-0.0474	0.0159	KA 1:16,000 Base	0.022	0.192
Kate-Aubrey	-0.270	0.224	KA 1:16000 Predictive	-0.006	0.091
Lake Dardanelle	0.404	0.470	Lock & Dam 24	0.003	0.023
Lock & Dam #2	-0.095	0.086	Memphis Harbor	0.023	0.051
Lock & Dam #4	-0.054	0.054	Morgan City	0.035	0.004
Loosahatchie-Memphis	-0.153	0.049	New Madrid	-0.031	0.027
New Madrid Bar	0.093	0.049	Salt Lake	-0.118	0.025
Redeye Crossing	0.013	0.008	Savanna Bay	0.009	0.009
Smithland Lock & Dam	0.042	0.074	Vicksburg	-0.057	0.010
West Access	-0.026	0.031	White River	0.064	0.011
Willamette River	-0.047	0.024	Wolf Island	0.001	0.009

Table 4-2. Area Comparisons for Thirty Previous Model Study Results

Large-Scale Model NAME	MODEL		Micromodel NAME	MODEL	
	DIFF	MSE		DIFF	MSE
Baleshed-Ajax	-0.406	0.213	Augusta	0.190	0.104
Blountstown	0.074	0.174	Clarendon	0.402	0.374
Buck Island	-0.248	0.149	Copeland	0.110	0.024
Chipola Cutoff	0.026	0.046	KA 1:8000 Base	0.0685	0.216
Devil's Island	-0.048	0.063	KA 1:8000 Predictive	-0.143	0.105
Dogtooth Bend	-0.011	0.179	KA 1:16,000 Base	0.284	0.319
Kate-Aubrey 1:300	-0.218	0.331	KA 1:16000 Predictive	0.111	0.184
Lake Dardanelle	0.058	0.248	Lock & Dam 24	0.128	0.063
Lock & Dam #2	-0.061	0.042	Memphis Harbor	-0.213	0.0911
Lock & Dam #4	0.257	0.156	Morgan City	0.040	0.048
Loosahatchie-Memphis	-0.003	0.023	New Madrid	-0.261	0.158
New Madrid Bar	-0.069	0.122	Salt Lake	0.205	0.0566
Redeye Crossing	-0.280	0.112	Savanna Bay	-0.171	0.0567
Smithland Lock & Dam	-0.098	0.073	Vicksburg	0.0221	0.114
West Access	0.037	0.014	White River	-0.351	0.156
Willamette River	0.028	0.028	Wolf Island	0.387	0.456

Table 4-3. Width Comparisons for Thirty Previous Model Study Results

Large-Scale Model NAME	MODEL		Micromodel NAME	MODEL	
	DIFF	MSE		DIFF	MSE
Baleshed-Ajax	-.0125	0.1091	Augusta	0.1317	0.0253
Blountstown	-.0710	0.0731	Clarendon	0.1648	0.0695
Buck Island	-.1719	0.0743	Copeland	0.0791	0.0147
Chipola Cutoff	-.0187	0.0405	KA 1:8000 Base	0.1799	0.2292
Devil's Island	-.0322	0.0169	KA 1:8000 Predictive	0.2601	0.2543
Dogtooth Bend	0.0897	0.0498	KA 1:16,000 Base	0.1938	0.1910
Kate-Aubrey	-.1636	0.1090	KA 1:16000 Predictive	0.4067	0.3484
Lake Dardanelle	-.0845	0.1788	Lock & Dam 24	-0.0361	0.0043
Lock & Dam #2	-.0349	0.0186	Memphis Harbor	0.0713	0.0268
Lock & Dam #4	0.1129	0.0393	Morgan City	0.0524	0.0233
Loosahatchie-Memphis	0.0873	0.0346	New Madrid	-0.1803	0.0714
New Madrid Bar	-.0091	0.0702	Salt Lake	0.0230	0.0045
Redeye Crossing	-.1472	0.0618	Savanna Bay	-0.00804	0.0220
Smithland Lock & Dam	-.0027	0.0007	Vicksburg	0.1140	0.0399
West Access	0.0334	0.0024	White River	0.0892	0.0426
Willamette River	-.0041	0.0132	Wolf Island	0.1000	0.0383

Table 4-4. Hydraulic Depth Comparisons for Thirty Previous Model Study Results

Large-Scale Model NAME	MODEL		Micromodel NAME	MODEL	
	DIFF	MSE		DIFF	MSE
Baleshed-Ajax	-0.394	0.177	Augusta	0.056	0.062
Blountstown	0.150	0.165	Clarendon	0.208	0.155
Buck Island	-0.080	0.141	Copeland	0.031	0.011
Chipola Cutoff	0.077	0.079	KA 1:8000 Base	-0.007	0.275
Devil's Island	-0.012	0.047	KA 1:8000 Predictive	-0.257	0.198
Dogtooth Bend	-0.094	0.127	KA 1:16,000 Base	0.156	0.395
Kate-Aubrey	-0.095	0.099	KA 1:16000 Predictive	-0.155	0.218
Lake Dardanelle	0.162	0.093	Lock & Dam 24	0.174	0.090
Lock & Dam #2	-0.019	0.043	Memphis Harbor	-0.267	0.103
Lock & Dam #4	0.137	0.095	Morgan City	-0.003	0.049
Loosahatchie-Memphis	-0.072	0.028	New Madrid	-0.059	0.171
New Madrid Bar	-0.079	0.093	Salt Lake	0.178	0.043
Redeye Crossing	-0.090	0.084	Savanna Bay	-0.134	0.093
Smithland Lock & Dam	-0.100	0.070	Vicksburg	-0.094	0.059
West Access	0.003	0.009	White River	-0.380	0.206
Willamette River	0.031	0.014	Wolf Island	0.261	0.263

Table 4-5. Width/Depth Ratio Comparisons for Thirty Previous Model Study Results

Large-Scale Model NAME	MODEL		Micromodel NAME	MODEL	
	DIFF	MSE		DIFF	MSE
Baleshed-Ajax	0.729	1.107	Augusta	-0.010	0.154
Blountstown	-0.113	0.142	Clarendon	0.045	0.131
Buck Island	0.008	0.176	Copeland	0.054	0.028
Chipola Cutoff	-0.038	0.092	KA 1:8000 Base	0.585	2.099
Devil's Island	0.024	0.053	KA 1:8000 Predictive	1.137	3.446
Dogtooth Bend	0.348	0.422	KA 1:16,000 Base	0.264	0.662
Kate-Aubrey	-0.033	0.162	KA 1:16000 Predictive	1.031	2.277
Lake Dardanelle	-0.199	0.196	Lock & Dam 24	-0.145	0.053
Lock & Dam #2	0.036	0.095	Memphis Harbor	0.532	0.461
Lock & Dam #4	0.019	0.114	Morgan City	0.102	0.077
Loosahatchie-Memphis	0.207	0.181	New Madrid	0.177	0.964
New Madrid Bar	0.112	0.203	Salt Lake	-0.129	0.028
Redeye Crossing	0.018	0.130	Savanna Bay	0.288	0.302
Smithland Lock & Dam	0.249	0.366	Vicksburg	0.284	0.225
West Access	0.040	0.012	White River	0.996	1.457
Willamette River	-0.028	0.022	Wolf Island	0.011	0.285

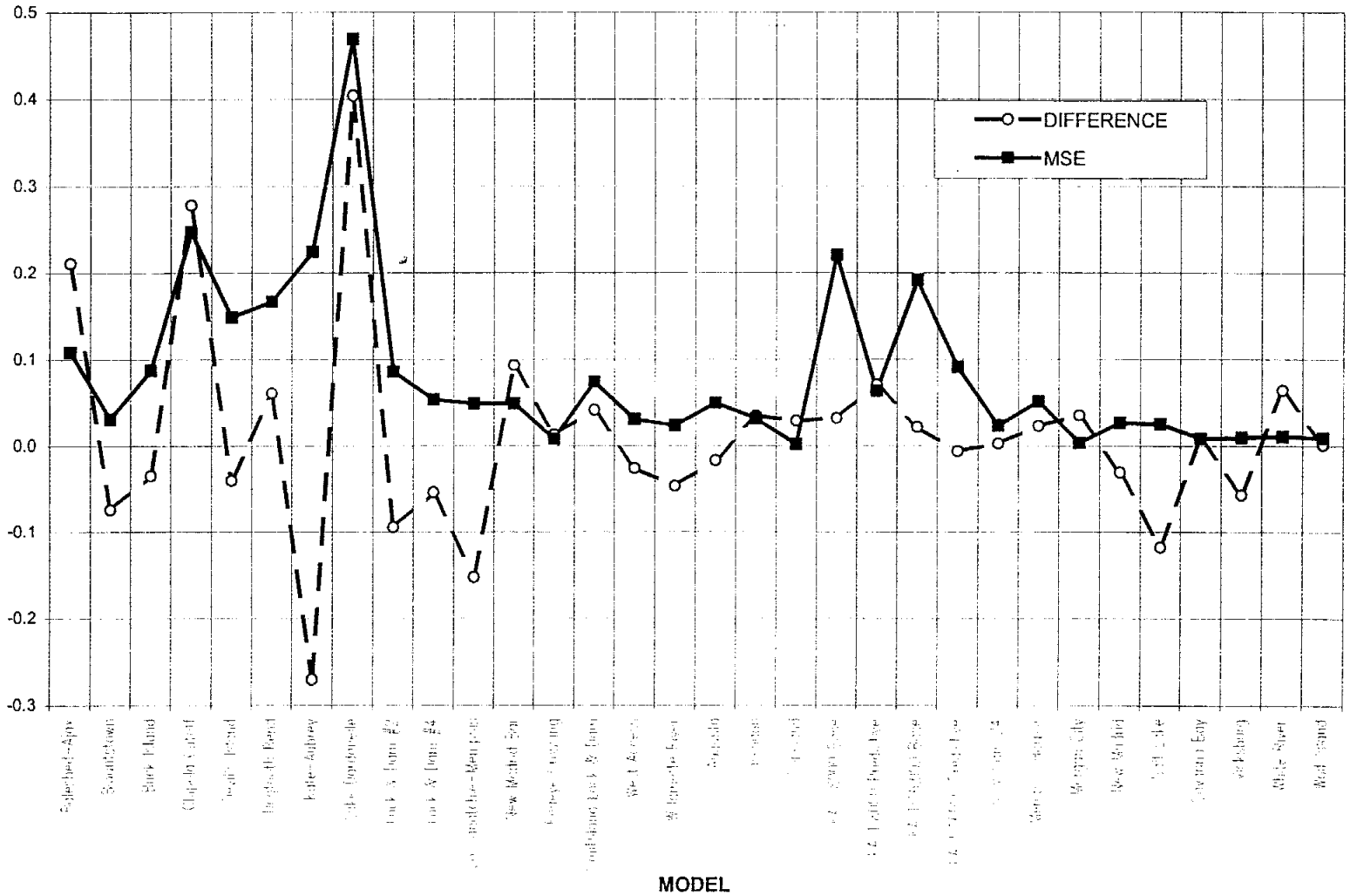

Figure 4-1 Thalweg Differences and MSE

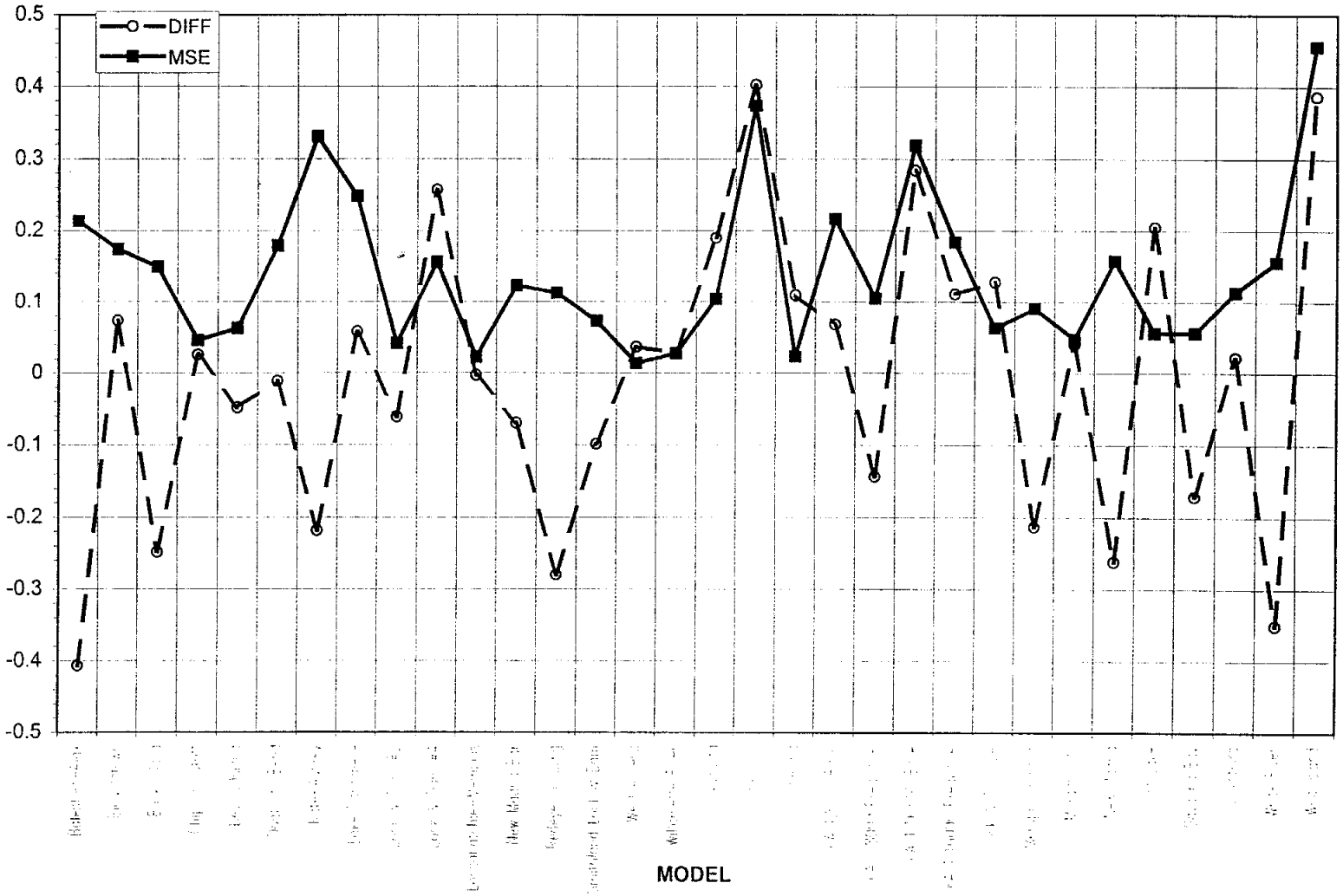

Figure 4-2 Area at 0.0 LWRP Differences and MSE

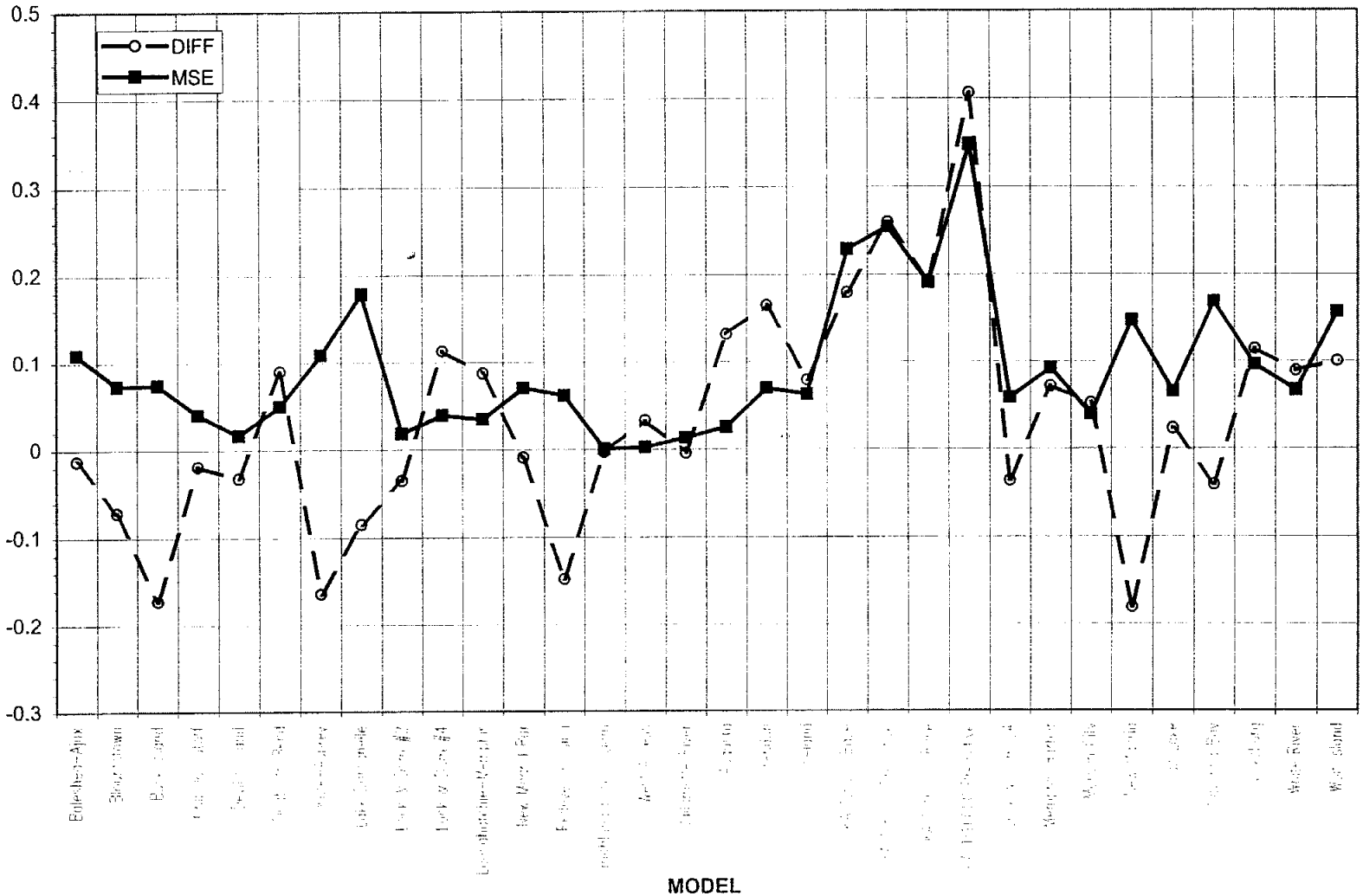

Figure 4.3 Width at 0.0 LWRP Differences and MSE

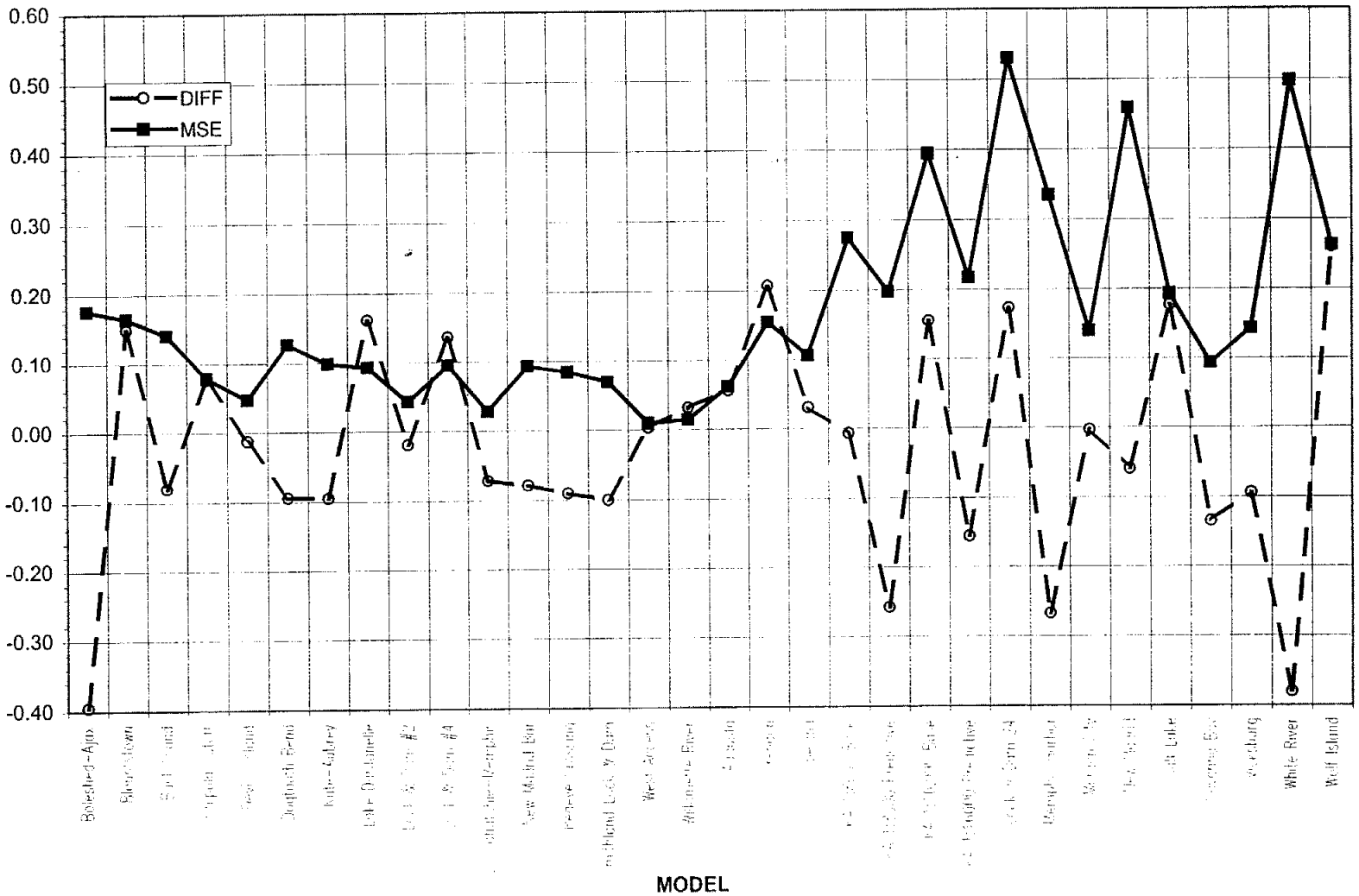

Figure 4.4 Hydraulic Depth at 0.0 LWRP Differences and MSE

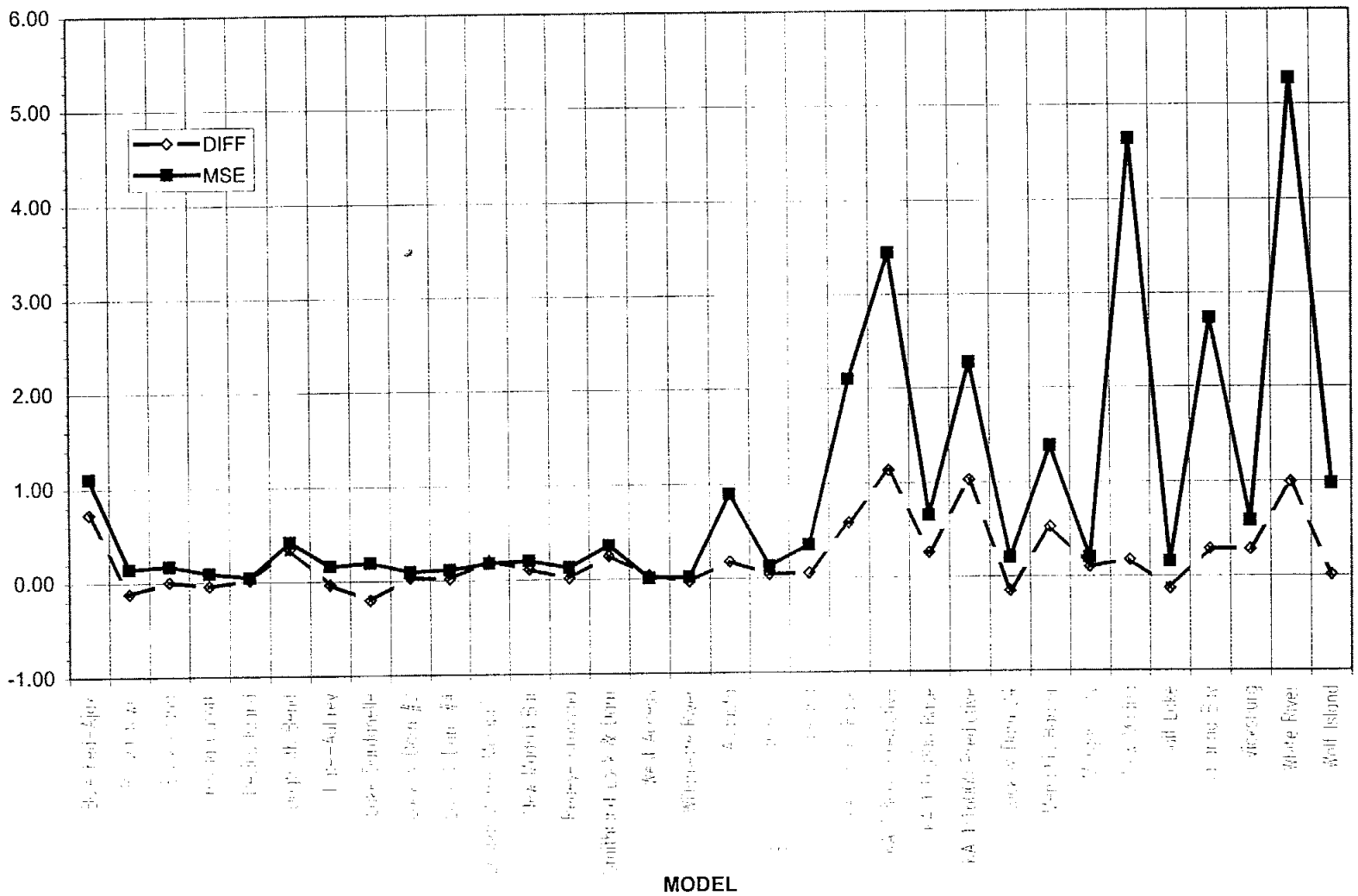

Figure 4-5 W/D Ratio @ 0.0 LWRP Differences and MSE