

APPENDIX B

**Hydrologic Analysis Data, Calculations,
and Results**

Climate Summary Data

MC MINNVILLE, OREGON (355384)

Period of Record Monthly Climate Summary

Period of Record : 1/ 1/1928 to 12/31/2005

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	45.9	50.9	55.9	62	69.4	74.8	82.7	82.6	77.1	65	52.9	46.8	63.8
Average Min. Temperature (F)	33	35	36.7	38.9	43.2	47.3	49.9	49.8	46.7	42	37.6	34.6	41.2
Average Total Precipitation (in.)	6.5	5.05	4.6	2.61	1.86	1.14	0.39	0.54	1.46	3.19	6.36	7.4	41.11
Average Total SnowFall (in.)	3.5	0.7	0.6	0	0	0	0	0	0	0	0	1.2	6.1
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.

Min. Temp.: 91.1% Precipitation: 91.3% Snowfall: 92% Snow Depth: 91%

Check Station Metadata or Metadata graphics for more detail about data completeness.

[Western Regional Climate Center, wrcc@dri.edu](mailto:wrcc@dri.edu)

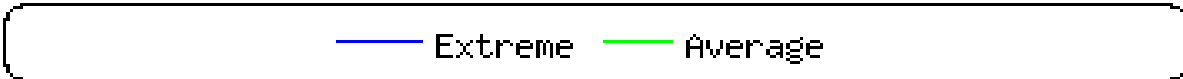
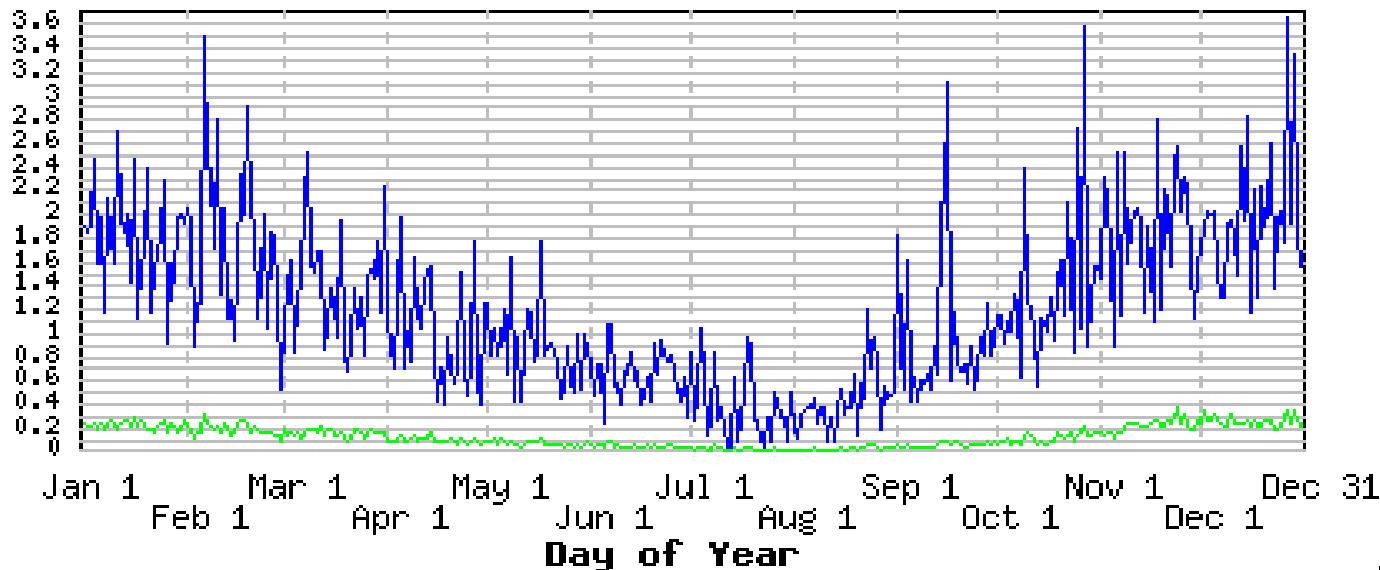
MC MINNVILLE, OREGON

Climate Summary - Precipitation

Station:(355384) MC MINNVILLE														
From Year=1928 To Year=2006														
	Precipitation											Total Snowfall		
	Mean	High	Year	Low	Year	1 Day Max.	>= 0.01 in.	>= 0.10 in.	>= 0.50 in.	>= 1.00 in.	Mean	High	Year	
	in.	in.	-	in.	-	in.	dd/yyyy or yyyyymmdd	# Days	# Days	# Days	# Days	in.	in.	-
January	6.5	13.41	1956	0.35	1985	2.7	Nov-72	18	13	5	1	3.5	47	1950
February	5.05	13.34	1949	0.67	1988	3.5	Jun-96	15	11	3	1	0.7	7.8	1990
March	4.6	9.26	1928	0.81	1992	2.5	Aug-51	16	11	3	1	0.6	23.6	1951
April	2.61	7.07	1937	0.3	1977	1.97	May-91	13	7	1	0	0	0.3	1982
May	1.86	4.63	1948	0.02	1992	1.76	17/1972	10	5	1	0	0	0	1928
June	1.14	3.65	1947	0	1951	1.07	Jun-85	7	3	1	0	0	0	1928
July	0.39	2.22	1983	0	1929	1.05	Apr-86	2	1	0	0	0	0	1928
August	0.54	4.51	1968	0	1928	1.2	23/1968	3	2	0	0	0	0	1928
September	1.46	7.58	1996	0	1965	3.1	16/1996	6	3	1	0	0	0	1928
October	3.19	9.33	1950	0.05	1976	3.58	27/1994	11	7	2	0	0	0	1928
November	6.36	15.94	1942	0.42	1936	2.8	18/1946	16	12	4	2	0	2	1996
December	7.4	19.99	1996	0.2	1989	3.67	27/1937	19	14	5	2	1.2	17.4	1972
Annual	41.11	60.91	1968	23.58	1976	3.67	19371227	137	89	27	8	6.1	48.5	1950
Winter	18.95	29.97	1997	5.43	1977	3.67	19371227	52	37	13	4	5.4	48.5	1950
Spring	9.07	15.34	1928	3.23	1939	2.5	19510308	39	24	5	1	0.6	23.6	1951
Summer	2.07	5.93	1968	0.19	1972	1.2	19680823	12	6	1	0	0	0	1928
Fall	11.01	20.28	1950	1.61	1936	3.58	19941027	34	22	8	2	0	2	1996

MC MINNVILLE, OREGON (355384)
Period of Record : 1/ 1/1928 to 12/31/2005

Precipitation (in.)



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Sub-Basin Summary Data

Sub-Basin Summary										BASIN SUMMARY - EXISTING							
BASIN SUMMARY - FUTURE										BASIN SUMMARY - EXISTING							
Sub-Basin Name	SUM Taxlot CN x Taxlot Area	Total Sub-Basin Area (ac)	Total MIA (ac)	% MIA	Total EIA (ac)	% EIA	Area Weighted CN	Abstraction, S (in)	Initial Abstraction, IA (in)	Sub-Basin Name	SUM Taxlot CN x Taxlot Area	Total Sub-Basin Area (ac)	Total MIA (ac)	% MIA	Total EIA (ac)	% EIA	Area Weighted CN
B-A	6211.85912	73.25479098	48.01312264	0.6554	3.7692	0.0515	85	1.79	0.36	B-A	6150.362536	73.25479098	22.5059656	31%	2.394722433	17%	84
B-B	3570.742254	42.60746188	23.81345039	0.5589	2.5213	0.0592	84	1.93	0.39	B-B	3524.300994	42.60746188	11.48752497	27%	1.196910973	14%	83
B-C	7775.231131	93.85470925	38.99468107	0.4155	3.3199	0.0354	83	2.07	0.41	B-C	7773.184222	93.85470925	36.77629386	39%	3.249509385	25%	83
B-D	2751.274628	32.89643274	15.39933648	0.4681	1.2701	0.0386	84	1.96	0.39	B-D	2751.211956	32.89643274	15.31591592	47%	1.267676982	32%	84
B-E	7885.157285	97.1852508	42.03007184	0.4325	4.3832	0.0451	81	2.33	0.47	B-E	7862.603403	97.1852508	35.13654166	36%	3.834316332	22%	81
B-F	8912.195896	104.9614435	61.45066647	0.5855	10.4643	0.0997	85	1.78	0.36	B-F	8624.31552	104.9614435	13.35877881	13%	1.871467669	5%	82
C-0	3028.530249	37.51010781	12.98337673	0.3461	0.9532	0.0254	81	2.39	0.48	C-0	3024.025511	37.51010781	11.23979762	30%	0.880754037	16%	81
C-10	2693.795655	32.4336556	9.625211036	0.2968	0.4395	0.0136	83	2.04	0.41	C-10	2692.578824	32.4336556	9.06609008	28%	0.40992785	15%	83
C-20	5349.188627	61.97950072	32.2487153	0.5203	5.0736	0.0819	86	1.59	0.32	C-20	5347.604569	61.97950072	31.52689405	51%	5.035441877	36%	86
C-30	7829.457696	93.28102591	40.8060731	0.4375	3.6630	0.0393	84	1.91	0.38	C-30	7821.130149	93.28102591	37.6574317	40%	3.37741025	26%	84
C-30L	6030.802136	68.89440758	49.17090143	0.7137	8.0253	0.1165	88	1.42	0.28	C-30L	6025.753821	68.89440758	47.74414416	69%	7.892048606	58%	87
C-30R	2213.986955	25.82228857	18.65502602	0.7224	1.6014	0.0620	86	1.66	0.33	C-30R	2209.516303	25.82228857	17.69656067	69%	1.562481044	57%	86
C-40	4202.273937	50.35906435	22.48566365	0.4465	1.3807	0.0274	83	1.98	0.40	C-40	4200.567211	50.35906435	21.27531822	42%	1.32463775	27%	83
C-40R	4339.266689	51.80817972	27.39442113	0.5288	3.1110	0.0600	84	1.94	0.39	C-40R	4339.195472	51.80817972	27.31902638	53%	3.108920309	38%	84
C-50	2383.262255	28.47774109	13.04720216	0.4582	0.7533	0.0265	84	1.95	0.39	C-50	2382.630491	28.47774109	12.38016744	43%	0.729665332	29%	84
C-60	14441.52853	171.8242542	70.40677449	0.4098	7.8069	0.0454	84	1.90	0.38	C-60	14374.05527	171.8242542	55.19654667	32%	5.183604254	18%	84
C-60L	5343.120014	57.73764072	51.18754081	0.8866	13.4316	0.2326	93	0.81	0.16	C-60L	5340.611722	57.73764072	50.6866004	88%	13.3975263	82%	92
C-60L1	3148.544796	35.86073194	23.30947576	0.6500	4.5488	0.1268	88	1.39	0.28	C-60L1	3148.544796	35.86073194	23.30947576	65%	4.548839059	52%	88
C-70	5575.025817	63.69164184	41.73853149	0.6553	5.5003	0.0864	88	1.42	0.28	C-70	5450.084059	63.69164184	25.7941591	40%	3.248154963	26%	86
C-70L	5117.914812	56.20047755	48.0784176	0.8555	9.3675	0.1667	91	0.98	0.20	C-70L	5117.914812	56.20047755	48.0784176	86%	9.367502863	79%	91
C-80	3440.991811	39.29121956	20.71414901	0.5272	2.7933	0.0711	88	1.42	0.28	C-80	3439.90675	39.29121956	19.83286377	50%	2.768313472	36%	88
C-80R	11158.90631	129.6321573	75.55923248	0.5829	11.9581	0.0922	86	1.62	0.32	C-80R	11148.39228	129.6321573	71.74100059	55%	11.73416011	41%	86
C-90L	2805.589751	32.3080172	14.56138782	0.4507	1.8729	0.0580	87	1.52	0.30	C-90L	2805.589751	32.3080172	14.56138782	45%	1.872936922	30%	87
C-80R	11158.90631	129.6321573	75.55923248	0.5829	11.9581	0.0922	86	1.62	0.32	C-80R	11148.39228	129.6321573	71.74100059	55%	11.73416011	41%	86
E-A	58598.35763	680.0802573	387.0175366	0.5691	75.7661	0.1114	86	1.61	0.32	E-A	57613.41375	680.0802573	270.5165318	40%	48.29613751	25%	85
E-I	7457.751314	86.81798767	43.88934646	0.5055	4.4109	0.0508	86	1.64	0.33	E-I	7335.789452	86.81798767	25.06762515	29%	2.154395705	16%	84
E-B	3883.932577	47.13136121	19.99000942	0.4241	1.6064	0.0341	82	2.13	0.43	E-B	3879.861595	47.13136121	16.90094429	36%	1.477969438	21%	82
E-C	4158.788552	49.84244024	25.31067308	0.5078	2.1836	0.0438	83	1.98	0.40	E-C	4123.523875	49.84244024	19.10979697	38%	1.5178009	24%	83
E-D	2250.053179	26.87174005	12.61185926	0.4693	1.0203	0.0380	84	1.94	0.39	E-D	2229.146097	26.87174005	6.022861405	22%	0.395869954	11%	83
E-E	7869.844333	86.966051	72.25461214	0.8308	13.8606	0.1594	90	1.05	0.21	E-E	7766.10324	86.966051	61.5256885	71%	11.61541826	60%	89

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E-F	1793.830497	21.05155572	14.38736806	0.6834	0.8664	0.0412	85	1.74	0.35	E-F	1771.551889	21.05155572	8.516063075	40%	0.628983817	26%	84
E-G	5419.996776	62.7920196	40.28781851	0.6416	5.6991	0.0908	86	1.59	0.32	E-G	5381.333499	62.7920196	32.2254445	51%	4.817891205	37%	86
E-H0	3373.80374	36.64214366	32.75456754	0.8939	6.5315	0.1783	92	0.86	0.17	E-H0	3209.276976	36.64214366	18.82673807	51%	3.223728346	37%	88
E-J	4591.676712	51.56720543	40.79255289	0.7911	7.2482	0.1406	89	1.23	0.25	E-J	4477.916272	51.56720543	27.92873006	54%	4.890203695	40%	87
E-K	8071.799907	87.74487058	70.19589647	0.8000	26.4893	0.3019	92	0.87	0.17	E-K	7547.579352	87.74487058	26.01702538	30%	8.417704948	16%	86
E-L0	10161.37757	110.9798787	88.26781647	0.7953	34.2095	0.3082	92	0.92	0.18	E-L0	9436.272592	110.9798787	25.20586796	23%	8.300645446	11%	85
E-L10	10043.94327	113.5145563	81.62621294	0.7191	16.6122	0.1463	88	1.30	0.26	E-L10	9545.2978	113.5145563	26.43271109	23%	4.417476097	11%	84
E-L20	10453.72425	114.6012894	91.27034113	0.7964	28.1884	0.2460	91	0.96	0.19	E-L20	10385.1725	114.6012894	83.25800204	73%	26.70995717	62%	91
E-L30	8946.830963	95.98685222	76.78948177	0.8000	41.4536	0.4319	93	0.73	0.15	E-L30	8946.830963	95.98685222	76.78948177	80%	41.45361309	72%	93
E-L40	8283.300636	89.07242543	71.25794034	0.8000	34.8391	0.3911	93	0.75	0.15	E-L40	7854.422357	89.07242543	29.49164101	33%	10.48504137	19%	88
E-M	5655.844954	65.65279341	35.58719741	0.5421	10.0920	0.1537	86	1.61	0.32	E-M	5655.7739	65.65279341	35.50759992	54%	10.09071936	40%	86
E-N0	7322.258209	80.30526814	64.19032648	0.7993	21.6775	0.2699	91	0.97	0.19	E-N0	7267.073	80.30526814	57.01251775	71%	20.5537586	60%	90
E-N10	7745.23926	83.55192866	66.84154293	0.8000	31.0583	0.3717	93	0.79	0.16	E-N10	7745.23926	83.55192866	66.84154293	80%	31.05831077	72%	93
H-0	8214.974305	91.21950659	70.40609575	0.7718	14.8134	0.1624	90	1.10	0.22	H-0	8200.064796	91.21950659	67.39658177	74%	14.42945591	64%	90
H-10	4175.900272	48.40949576	29.94893097	0.6187	4.8744	0.1007	86	1.59	0.32	H-10	4173.103108	48.40949576	27.52824096	57%	4.784369984	43%	86
H-10R	6773.775867	80.65885348	44.34413817	0.5498	4.6477	0.0576	84	1.91	0.38	H-10R	6773.375766	80.65885348	43.85029046	54%	4.634661978	40%	84
H-10R1	5254.41332	63.06227696	32.41188257	0.5140	2.8498	0.0452	83	2.00	0.40	H-10R1	5254.41332	63.06227696	32.41188257	51%	2.849798753	37%	83
H-20	2914.359152	32.35178595	29.11660736	0.9000	3.6695	0.1134	90	1.10	0.22	H-20	2914.359152	32.35178595	29.11660736	90%	3.669544628	85%	90
H-20L	4172.535339	47.23590448	34.85379326	0.7379	8.0436	0.1703	88	1.32	0.26	H-20L	4172.535339	47.23590448	34.85379326	74%	8.043589462	63%	88
H-25R	2390.863464	27.02913673	22.14752331	0.8194	2.4177	0.0894	88	1.31	0.26	H-25R	2390.863464	27.02913673	22.14752331	82%	2.41770686	74%	88
H-25R1	3868.236599	45.52565341	27.63825896	0.6071	2.8381	0.0623	85	1.77	0.35	H-25R1	3868.236599	45.52565341	27.63825896	61%	2.838087875	47%	85
H-25R1L	1935.098091	22.56862329	16.12287407	0.7144	1.5823	0.0701	86	1.66	0.33	H-25R1L	1935.066956	22.56862329	16.10609836	71%	1.58212536	60%	86
H-30	6313.899641	73.70836051	43.5645751	0.5910	5.1417	0.0698	86	1.67	0.33	H-30	6313.499922	73.70836051	43.24836144	59%	5.128697973	45%	86
H-30R	4578.183188	54.63244922	27.38797784	0.5013	2.9983	0.0549	84	1.93	0.39	H-30R	4578.183188	54.63244922	27.38797784	50%	2.998333276	35%	84
H-40	2380.804051	28.66433119	14.45769379	0.5044	1.0243	0.0357	83	2.04	0.41	H-40	2380.804051	28.66433119	14.45769379	50%	1.024296941	36%	83
H-50	1922.685212	23.15339199	11.57669599	0.5000	0.8289	0.0358	83	2.04	0.41	H-50	1922.685212	23.15339199	11.57669599	50%	0.82887295	35%	83
M-0	4129.460843	46.46659398	38.83823965	0.8358	5.3925	0.1161	89	1.25	0.25	M-0	4129.460843	46.46659398	38.83823965	84%	5.39251214	76%	89
M-0L	1355.171076	15.91634646	11.04409262	0.6939	0.8733	0.0549	85	1.74	0.35	M-0L	1355.171076	15.91634646	11.04409262	69%	0.873345362	58%	85
M-10	2874.092862	33.94462485	22.59844065	0.6657	2.1409	0.0631	85	1.81	0.36	M-10	2874.092862	33.94462485	22.59844065	67%	2.140893224	54%	85
M-20	4102.503108	49.08005645	25.48499066	0.5193	2.8900	0.0589	84	1.96	0.39	M-20	4102.503108	49.08005645	25.48499066	52%	2.889963055	37%	84

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M-30	4177.805385	49.74105967	26.29081386	0.5286	3.3198	0.0667	84	1.91	0.38	M-30	4177.805385	49.74105967	26.29081386	53%	3.319761834	38%	84
M-30R	3533.930553	41.90719113	23.22919859	0.5543	2.6864	0.0641	84	1.86	0.37	M-30R	3533.930553	41.90719113	23.22919859	55%	2.686410965	41%	84
M-40	4224.984964	50.58005531	27.24579639	0.5387	2.1499	40%	84	1.97	0.39	M-40	4224.984964	50.58005531	27.24579639	54%	2.149877175	40%	84
N-0	1011.452441	12.02940478	6.014677619	0.5000	0.5176	35%	84	1.89	0.38	N-0	1011.452441	12.02940478	6.014677619	50%	0.517573218	35%	84
N-0R	1884.205883	22.72391875	10.86063892	0.4779	0.7048	33%	83	2.06	0.41	N-0R	1884.205883	22.72391875	10.86063892	48%	0.704757688	33%	83
N-0R1	2955.552197	34.67901342	22.51774874	0.6493	2.6024	52%	85	1.73	0.35	N-0R1	2955.552197	34.67901342	22.51774874	65%	2.602350287	52%	85
N-0R1R	2964.86058	34.53689373	25.81144331	0.7474	2.7837	65%	86	1.65	0.33	N-0R1R	2964.86058	34.53689373	25.81144331	75%	2.783700036	65%	86
N-0RR	3361.899527	39.20616066	27.89279338	0.7114	2.7023	60%	86	1.66	0.33	N-0RR	3361.899527	39.20616066	27.89279338	71%	2.702315599	60%	86
N-10	3832.758426	45.95202865	19.51137399	0.4246	1.0619	28%	83	1.99	0.40	N-10	3824.758937	45.95202865	16.03483892	35%	0.787400681	21%	83
N-10R	3505.814988	42.10345896	20.13931024	0.4783	1.7424	33%	83	2.01	0.40	N-10R	3505.814988	42.10345896	20.13931024	48%	1.742381142	33%	83
N-10R1	2575.452812	31.20597739	12.48239096	0.4000	0.6561	25%	83	2.12	0.42	N-10R1	2575.452812	31.20597739	12.48239096	40%	0.656144542	25%	83
N-10R1R	4485.657602	54.06747849	24.32007109	0.4498	1.9344	30%	83	2.05	0.41	N-10R1R	4485.657602	54.06747849	24.32007109	45%	1.934367681	30%	83
N-10RR	2364.49162	28.42539061	13.50658324	0.4752	1.2344	33%	83	2.02	0.40	N-10RR	2364.49162	28.42539061	13.50658324	48%	1.234411871	33%	83
N-20	4058.786021	48.23489029	26.69592844	0.5535	2.6239	41%	84	1.88	0.38	N-20	4058.786021	48.23489029	26.69592844	55%	2.623879307	41%	84
N-20R	3058.720083	37.01047057	14.80418823	0.4000	0.9585	25%	83	2.10	0.42	N-20R	3058.720083	37.01047057	14.80418823	40%	0.958526174	25%	83
N-30	6237.202572	72.99932807	36.496328	0.5000	9.9354	35%	85	1.70	0.34	N-30	6237.202572	72.99932807	36.496328	50%	9.935371732	35%	85
N-30L	4445.442411	52.99553836	28.79919267	0.5434	2.6724	40%	84	1.92	0.38	N-30L	4445.442411	52.99553836	28.79919267	54%	2.672429073	40%	84
N-30L1	12083.93663	144.867923	78.91754339	0.5448	7.0269	40%	83	1.99	0.40	N-30L1	12083.93663	144.867923	78.91754339	54%	7.026875813	40%	83
N-30L2	11134.14511	125.2768988	94.49729943	0.7543	15.5337	66%	89	1.25	0.25	N-30L2	10600.39244	125.2768988	0	0%	0	0%	85
N-40	7689.053829	91.90142419	41.03490316	0.4465	6.8817	30%	84	1.95	0.39	N-40	7689.053829	91.90142419	41.03490316	45%	6.881658029	30%	84
N-40R	7047.989567	84.57982786	35.73414574	0.4225	4.5711	27%	83	2.00	0.40	N-40R	7047.989567	84.57982786	35.73414574	42%	4.571095481	27%	83
N-50	10731.46727	121.7487593	85.53768173	0.7026	17.1385	59%	88	1.35	0.27	N-50	10731.46727	121.7487593	85.53768173	70%	17.13852935	59%	88
NY-?	23903.26739	272.7816178	170.5809889	0.6253	45.9880	49%	88	1.41	0.28	NY-?	22919.58284	272.7816178	69.97934883	26%	15.06326469	13%	84
NY-A	6308.94915	69.62115597	55.96176168	0.8038	18.7650	72%	91	1.04	0.21	NY-A	5786.541333	69.62115597	7.919472904	11%	1.421729035	4%	83
NY-B	6777.060907	77.91791303	47.22058949	0.6060	9.8983	47%	87	1.50	0.30	NY-B	6429.038557	77.91791303	8.300463051	11%	0.756257106	3%	83
NY-C	4397.737477	49.00767528	39.63412164	0.8087	11.1957	73%	90	1.14	0.23	NY-C	4397.737477	49.00767528	39.63412164	81%	11.19569971	73%	90
NY-D	4840.048806	59.18584251	14.12529124	0.2387	1.6896	12%	82	2.23	0.45	NY-D	4840.048806	59.18584251	14.12529124	24%	1.689578837	12%	82
NY-E0	4227.214043	49.89318646	26.56318749	0.5324	2.8494	39%	85	1.80	0.36	NY-E0	4161.708459	49.89318646	6.927743732	14%	0.577186817	5%	83
NY-E10	5033.905809	59.72158883	31.25941589	0.5234	4.6465	38%	84	1.86	0.37	NY-E10	4901.696981	59.72158883	1.927126538	3%	0.078247229	1%	82
NY-F0	5106.396255	56.34167651	45.07334121	0.8000	7.7144	72%	91	1.03	0.21	NY-F0	5050.652618	56.34167651	34.03508673	60%	6.176199206	47%	90

Sub-Basin Summary										BASIN SUMMARY - EXISTING							
BASIN SUMMARY - FUTURE																	
Sub-Basin Name	SUM Taxlot CN x Taxlot Area	Total Sub-Basin Area (ac)	Total MIA (ac)	% MIA	Total EIA (ac)	% EIA	Area Weighted CN	Abstraction, S (in)	Initial Abstraction, IA (in)	Sub-Basin Name	SUM Taxlot CN x Taxlot Area	Total Sub-Basin Area (ac)	Total MIA (ac)	% MIA	Total EIA (ac)	% EIA	Area Weighted CN
NY-F0R	5665.136684	61.27622852	49.02098282	0.8000	17.6286	72%	92	0.82	0.16	NY-F0R	5628.67713	61.27622852	40.34925086	66%	16.76612934	53%	92
NY-F10	4767.094542	55.19287684	33.59202913	0.6086	6.4777	47%	86	1.58	0.32	NY-F10	4760.199529	55.19287684	31.26913545	57%	6.306777536	43%	86
SY-?	31340.73757	369.5059053	206.0470995	0.5576	30.0928	42%	85	1.79	0.36	SY-?	31277.78864	369.5059053	184.7270453	50%	28.54665831	35%	85
SY-A	4574.17803	51.62557713	37.75415338	0.7313	6.4830	63%	89	1.29	0.26	SY-A	4574.17803	51.62557713	37.75415338	73%	6.482950396	63%	89
SY-A0	8404.761876	93.64359299	74.91487439	0.8000	19.2304	72%	90	1.14	0.23	SY-A0	8404.761876	93.64359299	74.91487439	80%	19.23039409	72%	90
SY-A10	7393.547604	84.07758742	67.26206993	0.8000	9.5466	72%	88	1.37	0.27	SY-A10	7393.547604	84.07758742	67.26206993	80%	9.546604315	72%	88
SY-A10L	4241.564796	48.81088642	39.04870913	0.8000	4.3183	72%	87	1.51	0.30	SY-A10L	4241.564796	48.81088642	39.04870913	80%	4.318287321	72%	87
SY-C0	5706.754374	67.07939308	42.42481762	0.6325	5.0981	50%	85	1.75	0.35	SY-C0	5703.772422	67.07939308	40.94323234	61%	5.040759685	48%	85
SY-C10	2861.220081	33.00962932	22.29161882	0.6753	4.3806	55%	87	1.54	0.31	SY-C10	2861.220081	33.00962932	22.29161882	68%	4.38061385	55%	87
SY-C20	4993.66933	56.47115358	43.47407873	0.7698	8.1177	68%	88	1.31	0.26	SY-C20	4993.66933	56.47115358	43.47407873	77%	8.117722792	68%	88
SY-C20R	2879.356153	32.64379684	26.11503748	0.8000	4.4215	72%	88	1.34	0.27	SY-C20R	2879.356153	32.64379684	26.11503748	80%	4.421514303	72%	88
SY-D	3736.182045	44.71492347	28.37979022	0.6347	1.8542	51%	84	1.97	0.39	SY-D	3699.917774	44.71492347	17.18118264	38%	1.092041326	24%	83
SY-E	3856.382406	45.953975	27.26170155	0.5932	2.1941	46%	84	1.92	0.38	SY-E	3853.500499	45.953975	24.99675156	54%	2.108827395	40%	84
SY-F	7716.266333	91.10916977	52.77484492	0.5792	5.6477	44%	85	1.81	0.36	SY-F	7698.24788	91.10916977	46.72023465	51%	5.14668804	37%	84
SY-CS	5832.269652	66.37954449	52.05650311	0.7842	8.9620	69%	88	1.38	0.28	SY-CS	5832.269652	66.37954449	52.05650311	78%	8.96198545	69%	88
C-80R2	26509.65874	328.9515991	139.1555888	0.4230	24.6063	28%	81	2.41	0.48	C-80R2	26304.29287	328.9515991	83.88803443	26%	18.32106526	13%	80
W-0	6066.784962	72.81777663	36.22737675	0.4975	2.3035	35%	83	2.00	0.40	W-0	6051.515049	72.81777663	26.58163514	37%	1.732797038	22%	83
W-10	5749.654796	68.8448226	35.53015668	0.5161	2.2800	37%	84	1.97	0.39	W-10	5747.655631	68.8448226	33.51531356	49%	2.221321871	34%	83
W-10L	3576.832832	42.76840797	21.5829358	0.5046	1.9771	36%	84	1.96	0.39	W-10L	3576.731809	42.76840797	21.41471181	50%	1.972806498	35%	84
W-10L1	8456.467985	100.4274182	53.04552823	0.5282	3.7546	38%	84	1.88	0.38	W-10L1	8455.921961	100.4274182	52.39320572	52%	3.737055452	38%	84
W-10R	5995.111372	71.88020046	38.88329353	0.5409	2.7622	40%	83	1.99	0.40	W-10R	5995.111372	71.88020046	38.88329353	54%	2.762197862	40%	83
W-20	7604.456087	91.35827058	46.38206587	0.5077	3.1309	36%	83	2.01	0.40	W-20	7604.456087	91.35827058	46.38206587	51%	3.130912043	36%	83
W-30	9294.757965	110.6832582	63.41655553	0.5730	6.0774	43%	84	1.91	0.38	W-30	9294.757965	110.6832582	63.41655553	57%	6.077432746	43%	84
W-40	7926.003519	95.61103897	39.01718807	0.4081	2.2578	26%	83	2.06	0.41	W-40	7926.003519	95.61103897	39.01718807	41%	2.257818565	26%	83
W-40L	5362.511895	64.85952668	32.14174779	0.4956	2.5989	35%	83	2.09	0.42	W-40L	5361.864256	64.85952668	31.59173564	49%	2.574298259	34%	83

Hydrologic Calculations

TIME OF CONCENTRATION CALCULATION SHEET

Sub Basin	Sheet Flow						Shallow Conc. Flow				Pipe & Channel Flow			Gutters Flow		Total length (ft)	Cummulative Time of Concentratio T _c (min)	
	Length	Surface Description	Manning's Roughness Coeff.	Slope	Travel Time	Travel Time	Length	Slope	Paved, Un-paved, or na	Average Velocity	Travel Time	length	Average Velocity	Travel Time	Street Gutter length			Travel Time
	L (ft)		n	S (ft/ft)	T ₁ (hr)	T ₁ (min)	L (ft)	S (ft/ft)		V _{ave.} (ft/s)	T ₁ (min)	L (ft)	V _{ave.} (ft/s)	T ₁ (min)	L (ft)			T ₁ (min)
1	2	3	4	5	6	7	8	9	10	12	13	14	16	17	18			
Baker Creek																		
B-A	20	Pavement and Roofs	0.014	0.1	0.004	0.24	780	0.0026	paved	1.0	12.7	150	3	0.8	1000	11.1	1950	25
B-B	20	Pavement and Roofs	0.014	0.03	0.006	0.38	75	0.0133	unpaved	1.8	0.7	2800	3	15.6	85	0.9	2980	18
B-C	20	Pavement and Roofs	0.014	0.03	0.006	0.38	85	0.0118	unpaved	1.7	0.8	5400	3	30.0	50	0.6	5555	32
B-D	20	Pavement and Roofs	0.014	0.03	0.006	0.38	130	0.0077	unpaved	1.4	1.5	750	3	4.2	450	5.0	1350	11
B-E	20	Pavement and Roofs	0.014	0.03	0.006	0.38	145	0.0069	unpaved	1.3	1.8	1500	3	8.3	100	1.1	1765	12
B-F	100	Pavement and Roofs	0.014	0.01	0.036	2.15	750	0.0067	unpaved	1.3	9.6	2200	3	12.2			3050	24
Highway																		
H-0	100	Pavement and Roofs	0.014	0.01	0.036	2.15	90	0.0222	paved	3.0	0.5	2300	3	12.8			2390	13
H-0L	100	Pavement and Roofs	0.014	0.01	0.036	2.15	320	0.0313	unpaved	2.8	1.9						420	4
H-0R	100	Pavement and Roofs	0.014	0.01	0.036	2.15	760	0.0039	paved	1.3	10.0	1500	3	8.3			2360	20
H-10	100	Pavement and Roofs	0.014	0.01	0.036	2.15	1200	0.0333	paved	3.7	5.4	1000	3	5.6			2300	13
H-10R	50	Pavement and Roofs	0.014	0.01	0.021	1.24	100	0.01	unpaved	1.6	1.0	3600	3	20.0			5800	33
H-10R1	20	Pavement and Roofs	0.014	0.03	0.006	0.38	380	0.0026	paved	1.0	6.1	2100	3	11.7			4080	27
H-20	100	Pavement and Roofs	0.014	0.01	0.036	2.15	680	0.003	paved	1.1	10.2	1600	3	8.9			2380	21
H-20L	100	Pavement and Roofs	0.014	0.01	0.036	2.15	2400	0.0075	unpaved	1.4	28.9						2500	31
H-25R	100	Pavement and Roofs	0.014	0.01	0.036	2.15	400	0.01	paved	2.0	3.3	1500	3	8.3			2000	14
H-25R1	100	Pavement and Roofs	0.014	0.01	0.036	2.15	380	0.01	unpaved	1.6	4.0	2000	3	11.1			2480	17
H-25R1L	100	Pavement and Roofs	0.014	0.01	0.036	2.15	1500	0.002	paved	0.9	27.7	600	3	3.3			2200	33
H-30	20	Pavement and Roofs	0.014	0.01	0.010	0.59	130	0.0154	paved	2.5	0.9	2500	3	13.9	300	3.3	2950	19
H-30R	100	Pavement and Roofs	0.014	0.01	0.036	2.15	300	0.01	unpaved	1.6	3.1	3200	3	17.8	200	2.2	3800	25
H-40	20	Pavement and Roofs	0.014	0.01	0.010	0.59	80	0.01	unpaved	1.6	0.8	1500	3	8.3	100	1.1	1700	11
H-50	20	Pavement and Roofs	0.014	0.01	0.010	0.59	50	0.01	unpaved	1.6	0.5	800	3	4.4	700	7.8	1570	13
North Yamhill																		
NY-A	100	Gravel	0.020	0.01	0.048	2.86	3000	0.0047	unpaved	1.1	45.9						3100	49
NY-B	100	Gravel	0.020	0.01	0.048	2.86	3100	0.0194	unpaved	2.2	23.2						3200	26
NY-C	100	Gravel	0.020	0.01	0.048	2.86	2700	0.0222	unpaved	2.4	18.8						2800	22
NY-D	100	Meadow, Pasture, Range Land	0.150	0.005	0.315	18.93	2700	0.0093	unpaved	1.5	29.2						2800	48
NY-E0	100	Meadow, Pasture, Range Land	0.150	0.02	0.181	10.87	2800	0.0161	unpaved	2.0	23.0						2900	34
NY-E10	100	Meadow, Pasture, Range Land	0.150	0.02	0.181	10.87	2600	0.0115	unpaved	1.7	25.2						2700	36
NY-F0	100	Meadow, Pasture, Range Land	0.150	0.02	0.181	10.87	3100	0.0097	unpaved	1.6	32.8						3200	44
NY-F0R	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	2100	0.0119	unpaved	1.7	20.0						2200	34
NY-F10	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	2800	0.0107	unpaved	1.7	28.2						2900	43
South Yamhill																		
SY-?	100	Meadow, Pasture, Range Land	0.150	0.1	0.095	5.71	600	0.0667	unpaved	4.2	2.4						700	8
SY-A	100	Meadow, Pasture, Range Land	0.150	0.002	0.489	29.37	520	0.0016	unpaved	0.6	13.8						1210	47
							590	0.0288	unpaved	2.7	3.6							
SY-A0	100	Meadow, Pasture, Range Land	0.150	0.010	0.239	14.34	2900	0.0052	unpaved	1.1	42.1						3000	56
SY-A10	100	Pavement and Roofs	0.014	0.020	0.027	1.63	700	0.0086	paved	1.9	6.2	1300	3	7.2			2100	15
SY-A10L	100	Pavement and Roofs	0.014	0.010	0.036	2.15	750	0.0027	paved	1.0	12.0	1800	3	10.0			2650	24
SY-C0	20	Pavement and Roofs	0.014	0.030	0.006	0.38	80	0.05	paved	4.5	0.3	1700	3	9.4	700	7.8	2500	18
SY-C10	100	Meadow, Pasture, Range Land	0.150	0.005	0.315	18.93	300	0.005	unpaved	1.1	4.4	500	3	2.8	550	6.1	1450	41
							420	0.0024	unpaved	0.8	9.0							
SY-C20	100	Meadow, Pasture, Range Land	0.150	0.007	0.281	16.87	780	0.0259	unpaved	2.6	5.0						1900	46
							1020	0.002	unpaved	0.7	24.1							
SY-C20R	100	Meadow, Pasture, Range Land	0.150	0.005	0.307	18.44	500	0.0067	unpaved	1.3	6.4	1269	3	7.1			1869	32
SY-C20L	100	Meadow, Pasture, Range Land	0.150	0.010	0.239	14.34	1300	0.01	unpaved	1.6	13.5						1400	28
SY-D	100	Urban Residential	0.080	0.060	0.071	4.24	416	0.0093	unpaved	1.5	4.5	644	3	3.6			1382	13
							222	0.1261	unpaved	5.7	0.6							
SY-E	100	Meadow, Pasture, Range Land	0.150	0.002	0.455	27.30	370	0.002	unpaved	0.7	8.7	590	3	3.3			3426	52

TIME OF CONCENTRATION CALCULATION SHEET

Sub Basin	Sheet Flow						Shallow Conc. Flow					Pipe & Channel Flow			Gutters Flow		Total length (ft)	Cummulative Time of Concentration T _c (min)
	Length	Surface Description	Manning's Roughness Coeff.	Slope	Travel Time	Travel Time	Length	Slope	Paved, Un-paved, or na	Average Velocity	Travel Time	length	Average Velocity	Travel Time	Street Gutter length	Travel Time		
	L (ft)		n	S (ft/ft)	T ₁ (hr)	T ₁ (min)	L (ft)	S (ft/ft)		V _{ave.} (ft/s)	T ₁ (min)	L (ft)	V _{ave.} (ft/s)	T ₁ (min)	L (ft)	T ₁ (min)		
1	2		3	4		5	6	7		8	9	10	12	13	14	16	17	18
SY-F	100	Meadow, Pasture, Range Land	0.150	0.007	0.281	16.87	950	0.0014	unpaved	0.6	27.1	1608	3	8.9	600	6.7	3808	63
SY-CS	100	Pavement and Roofs	0.014	0.010	0.036	2.15	500	0.01	paved	2.0	4.1	2700	3	15.0			3300	21
West Cozine																		
W-0	100	Meadow, Pasture, Range Land	0.150	0.020	0.181	10.87	200	0.14	unpaved	6.0	0.6	1480	3	8.2			1780	20
W-10	100	Meadow, Pasture, Range Land	0.150	0.009	0.253	15.19	435	0.0011	unpaved	0.5	13.5	2800	3	15.6			3335	44
W-10L	100	Meadow, Pasture, Range Land	0.150	0.010	0.239	14.34	800	0.01	unpaved	1.6	8.3	1300	3	7.2			2200	30
W-10L1	100	Pavement and Roofs	0.014	0.007	0.042	2.53	2280	0.0026	paved	1.0	36.7	500	3	2.8			2880	42
W-10R	100	Meadow, Pasture, Range Land	0.150	0.100	0.095	5.71	200	0.35	unpaved	9.6	0.3	1300	3	7.2	1300	14.4	2900	28
W-20	100	Pavement and Roofs	0.014	0.007	0.042	2.53	1334	0.0105	unpaved	1.6	13.6	1700	3	9.4			3134	26
W-30	100	Meadow, Pasture, Range Land	0.150	0.007	0.281	16.87	1900	0.0409	unpaved	3.3	9.7	950	3	5.3	110	1.2	3060	33
W-40	100	Meadow, Pasture, Range Land	0.150	0.090	0.099	5.96	1230	0.0893	unpaved	4.8	4.3	1560	3	8.7			2890	19
W-40L	100	Meadow, Pasture, Range Land	0.150	0.100	0.095	5.71	500	0.1	unpaved	5.1	1.6	2100	3	11.7			2700	19
Cozine Creek																		
C-0	20	Pavement and Roofs	0.014	0.01	0.010	0.59	80	0.01	unpaved	1.6	0.8	2400	3	13.3			2500	15
C-10	100	Meadow, Pasture, Range Land	0.150	0.0545	0.121	7.28	260	0.0833	unpaved	4.7	0.9	950	3	5.3			1310	13
C-20	100	Meadow, Pasture, Range Land	0.150	0.005	0.315	18.93	930	0.0658	unpaved	4.1	3.8	1280	3	7.1			2310	30
C-30	20	Pavement and Roofs	0.014	0.03	0.006	0.38	973	0.0452	paved	4.3	3.7	627	3	3.5	300	3.3	1920	11
C-30L	40	Pavement and Roofs	0.014	0.0300	0.011	0.67	100	0.01	paved	2.0	0.8	1193	3	6.6			1333	8
C-30R	40	Pavement and Roofs	0.014	0.01	0.017	1.03	40	0.01	unpaved	1.6	0.4	1750	3	9.7			1830	11
C-40	100	Pavement and Roofs	0.014	0.0100	0.036	2.15	475	0.0836	paved	5.9	1.3	1991	3	11.1			2566	15
C-40R	100	Pavement and Roofs	0.014	0.0100	0.036	2.15	830	0.0032	unpaved	0.9	15.4	1500	3	8.3	340	3.8	2770	30
C-50	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	450	0.0622	unpaved	4.0	1.9	1030	3	5.7			1580	22
C-60	30	Meadow, Pasture, Range Land	0.150	0.0100	0.091	5.47	400	0.01	unpaved	1.6	4.2	4100	3	22.8			4530	32
C-60L	100	Meadow, Pasture, Range Land	0.150	0.0017	0.489	29.37	840	0.0008	unpaved	0.4	31.6	509	3	2.8			1449	64
C-60L1	100	Meadow, Pasture, Range Land	0.150	0.0017	0.489	29.37	500	0.0007	unpaved	0.4	20.4	400	3	2.2			1000	52
C-70	100	Meadow, Pasture, Range Land	0.150	0.0033	0.371	22.26	1200	0.0054	unpaved	1.2	17.1	183	3	1.0			1483	40
C-70L	100	Industrial Area	0.050	0.0033	0.154	9.24	530	0.003	paved	1.1	7.9	125	3	0.7			755	18
C-80	100	Pavement and Roofs	0.014	0.0200	0.027	1.63	520	0.0429	unpaved	3.3	2.6	700	3	3.9			1320	8
C-80R	100	Pavement and Roofs	0.014	0.0100	0.036	2.15	400	0.01	paved	2.0	3.3	4200	3	23.3			4700	29
C-80R1																		
C-80R2																		
C-90																		
C-90L	100	Meadow, Pasture, Range Land	0.150	0.0033	0.371	22.26	1050	0.0189	unpaved	2.2	7.9	1172	3	6.5			2322	37
East End																		
E-A	100	Meadow, Pasture, Range Land	0.150	0.1	0.095	5.71	1900	0.0368	unpaved	3.1	10.3						2000	16
E-B	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	2500	0.028	unpaved	2.7	15.5						2600	30
E-C	100	Industrial Area	0.050	0.01	0.099	5.96	1100	0.0636	unpaved	4.1	4.5						1200	10
E-D	20	Pavement and Roofs	0.014	0.01	0.010	0.59	170	0.01	paved	2.0	1.4	1051	3	5.8	250	2.8	1491	11
E-E	100	Pavement and Roofs	0.014	0.01	0.036	2.15	700	0.0071	paved	1.7	6.8	1800	3	10.0			2600	19
E-F	100	Pavement and Roofs	0.014	0.03	0.023	1.39	100	0.01	paved	2.0	0.8	1600	3	8.9	150	1.7	1950	13
E-G	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	350	0.01	unpaved	1.6	3.6	3100	3	17.2			3550	35
E-H0	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	1400	0.01	unpaved	1.6	14.6	500	3	2.8			2000	32
E_H10																		
E-H20																		
E-I	100	Pavement and Roofs	0.014	0.01	0.036	2.15	1900	0.01	paved	2.0	15.6						2000	18

TIME OF CONCENTRATION CALCULATION SHEET

Sub Basin	Sheet Flow						Shallow Conc. Flow				Pipe & Channel Flow			Gutters Flow		Total length (ft)	Cummulative Time of Concentratio T _c (min)	
	Length	Surface Description	Manning's Roughness Coeff.	Slope	Travel Time	Travel Time	Length	Slope	Paved, Un-paved, or na	Average Velocity	Travel Time	length	Average Velocity	Travel Time	Street Gutter length			Travel Time
	L (ft)		n	S (ft/ft)	T _t (hr)	T _t (min)	L (ft)	S (ft/ft)		V _{ave.} (ft/s)	T _t (min)	L (ft)	V _{ave.} (ft/s)	T _t (min)	L (ft)			T _t (min)
1	2	3	4	5	6	7	8	9	10	12	13	14	16	17	18			
E-J	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	1500	0.01	unpaved	1.6	15.6					1600	30	
E-K	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	2100	0.01	unpaved	1.6	21.9					2200	36	
E-LO	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	2500	0.01	unpaved	1.6	26.0					2600	40	
E-L10	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	1300	0.01	unpaved	1.6	13.5	1800	3	10.0		3200	38	
E-L20	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	900	0.01	unpaved	1.6	9.4	3800	3	21.1		4800	45	
E-L30	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	300	0.01	unpaved	1.6	3.1	2300	3	12.8		2700	30	
E-L40	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	200	0.0025	unpaved	0.8	4.2	3700	3	20.6		4000	39	
E-M	100	Pavement and Roofs	0.014	0.01	0.036	2.15	1600	0.01	paved	2.0	13.2					1700	15	
E-N0	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	300	0.01	unpaved	1.6	3.1	2500	3	13.9		2900	31	
E-N10	100	Meadow, Pasture, Range Land	0.150	0.01	0.239	14.34	400	0.01	unpaved	1.6	4.2	2000	3	11.1		2500	30	
Midtown																		
M-40	30	Pavement and Roofs	0.014	0.01	0.014	0.82	170	0.01	unpaved	1.6	1.8	2100	3	11.7	250	2.8	2550	17
M-30	50	Pavement and Roofs	0.014	0.01	0.021	1.24	150	0.01	paved	2.0	1.2	2000	3	11.1	260	2.9	2460	16
M-30R	50	Pavement and Roofs	0.014	0.02	0.016	0.94	50	0.01	paved	2.0	0.4	1900	3	10.6	800	8.9	2800	21
M-20	20	Pavement and Roofs	0.014	0.01	0.010	0.59	50	0.01	paved	2.0	0.4	2300	3	12.8		2370	14	
M-10	100	Industrial Area	0.050	0.005	0.131	7.86	150	0.01	paved	2.0	1.2	2300	3	12.8		2550	22	
M-01	100	Pavement and Roofs	0.014	0.01	0.036	2.15	1000	0.012	paved	2.2	7.5					1100	10	
M-02	100	Pavement and Roofs	0.014	0.02	0.027	1.63	800	0.0075	paved	1.8	7.6	1300	3	7.2		2200	16	
M-0L	100	Pavement and Roofs	0.014	0.01	0.036	2.15	600	0.0067	unpaved	1.3	7.7	1800	3	10.0		2500	20	
M-0	100	Industrial Area	0.050	0.01	0.099	5.96	600	0.005	paved	1.4	7.0	1100	3	6.1		1800	19	
North Cozine																		
N-0	100	Gravel	0.020	0.01	0.048	2.86						540	3	3.0			640	6
N-0R	100	Urban Residential	0.080	0.01	0.145	8.67						2143	3	11.9			2243	21
N-0R1	100	Pavement and Roofs	0.014	0.01	0.036	2.15	130	0.01	paved	2.0	1.1	1627	3	9.0	140	1.6	1997	14
N-0R1R	100	Urban Residential	0.080	0.01	0.145	8.67	75	0.01	unpaved	1.6	0.8	1760	3	9.8			1935	19
N-0RR	40	Industrial Area	0.050	0.001	0.120	7.19						2485	3	13.8	175	1.9	2700	23
N-10	30	Urban Residential	0.080	0.007	0.064	3.82						2342	3	13.0			2372	17
N-10R	100	Urban Residential	0.080	0.01	0.145	8.67	420	0.0071	unpaved	1.4	5.2	240	3	1.3	275	3.1	1035	18
N-10R1	100	Urban Residential	0.080	0.01	0.145	8.67	40	0.01	unpaved	1.6	0.4	2027	3	11.3	90	1.0	2257	21
N-10R1R	100	Urban Residential	0.080	0.01	0.145	8.67	40	0.01	unpaved	1.6	0.4	3012	3	16.7	40	0.4	3192	26
N-10RR	100	Pavement and Roofs	0.014	0.01	0.036	2.15	80	0.01	paved	2.0	0.7	1900	3	10.6			2080	13
N-20	100	Heavy Turf (Parks)	0.400	0.01	0.524	31.43	1240	0.006	unpaved	1.2	16.7	575	3	3.2	470	5.2	2385	57
N-20R	100	Urban Residential	0.080	0.01	0.145	8.67	50	0.01	unpaved	1.6	0.5	1479	3	8.2	550	6.1	2179	24
N-30	100	Pavement and Roofs	0.014	0.01	0.036	2.15	860	0.0116	unpaved	1.7	8.3	400	3	2.2			1360	13
N-30L	100	Pavement and Roofs	0.014	0.01	0.036	2.15	350	0.0057	paved	1.5	3.8	1330	3	7.4			1780	13
N-30L1	100	Meadow, Pasture, Range Land	0.150	0.005	0.315	18.93	500	0.004	unpaved	1.0	8.3	1380	3	7.7			1980	35
N-30L2	100	Meadow, Pasture, Range Land	0.150	0.22	0.069	4.17	1500	0.0147	unpaved	1.9	12.9	800	3	4.4			2400	21
N-40	100	Light Turf	0.240	0.01	0.348	20.89	1100	0.0055	unpaved	1.2	15.6	1214	3	6.7			2414	43
N-40R	100	Light Turf	0.240	1.01	0.055	3.30	1900	0.0063	unpaved	1.3	24.9						2000	28
N-50	100	Light Turf	0.240	0.01	0.348	20.89	1000	0.006	unpaved	1.2	13.5	2002	3	11.1			3102	45

McMinnville Storm Drainage Master Plan
Sub-basin Results Summary

Sub-Basin Parameters & Results					Existing Condition								Future Condition													
Major Basin	Sub-Basin ID	Area (acres)	Area (mi2)	Area	Developed Area 2005	MIA	EIA	Weighted CN	Abstraction [S]	Initial		Q 10-YR	Q 25-YR	Q 50-YR	Q 100-YR	MIA	EIA	Weighted CN	Abstraction [S]	Initial		Q 10-YR	Q 25-YR	Q 50-YR	Q 100-YR	
										Abstraction [la]	Time of Concentration (min)									Abstraction [la]	Lag Time (min)					Abstraction [la]
This data reflects 2007 calibration results	N-0R1	35	0.05	35	100%	41%	26%	85	1.73	0.35	14	17	15	18	21	24	41%	26%	85	1.73	0.35	17	15	18	21	24
	N-0R1R	35	0.05	35	100%	47%	32%	86	1.65	0.33	19	23	16	18	21	24	47%	32%	86	1.65	0.33	23	16	18	21	24
	N-0RR	39	0.06	39	100%	45%	30%	86	1.66	0.33	23	28	18	21	24	27	45%	30%	86	1.66	0.33	28	18	21	24	27
	N-10	46	0.07	39	85%	22%	10%	83	1.99	0.40	17	20	18	21	25	29	27%	14%	83	1.99	0.40	20	18	21	25	29
	N-10R	42	0.07	42	100%	30%	17%	83	2.01	0.40	18	22	19	22	26	29	30%	17%	83	2.01	0.40	22	19	22	26	29
	N-10R1	31	0.05	31	100%	25%	13%	83	2.12	0.42	21	26	13	15	17	20	25%	13%	83	2.12	0.42	26	13	15	17	20
	N-10R1R	54	0.08	54	100%	28%	15%	83	2.05	0.41	26	32	19	22	26	31	28%	15%	83	2.05	0.41	32	19	22	26	31
	N-10RR	28	0.04	28	100%	30%	16%	83	2.02	0.40	13	16	11	13	15	18	30%	16%	83	2.02	0.40	16	11	13	15	18
	N-20	48	0.08	48	100%	35%	21%	84	1.88	0.38	57	68	16	19	22	25	35%	21%	84	1.88	0.38	68	16	19	22	25
	N-20R	37	0.06	37	100%	25%	13%	83	2.10	0.42	24	28	15	17	20	24	25%	13%	83	2.10	0.42	28	15	17	20	24
	N-30	73	0.11	73	100%	31%	18%	85	1.70	0.34	13	15	34	40	47	54	31%	18%	85	1.70	0.34	15	34	40	47	54
	N-30L	53	0.08	53	100%	34%	20%	84	1.92	0.38	13	16	24	27	32	37	34%	20%	84	1.92	0.38	16	24	27	32	37
	N-30L1	145	0.23	145	100%	32%	18%	83	1.99	0.40	35	42	52	61	71	82	34%	20%	83	1.99	0.40	42	52	61	72	83
	N-30L2	125	0.20	0	0%	0%	0%	85	1.25	0.25	21	26	53	61	72	83	48%	33%	89	1.25	0.25	26	68	77	88	100
	N-40	92	0.14	92	100%	17%	7%	84	1.95	0.39	43	52	28	33	39	45	28%	15%	84	1.95	0.39	52	28	34	40	47
N-40R	85	0.13	85	100%	27%	14%	83	2.00	0.40	28	34	30	35	42	48	27%	14%	83	2.00	0.40	34	30	35	42	48	
N-50	122	0.19	122	100%	18%	7%	88	1.35	0.27	45	55	44	51	60	68	44%	29%	88	1.35	0.27	55	48	55	63	72	
This data reflects 2007 calibration results	North Yamhill NY-A	70	0.11	10	14%	7%	2%	83	2.03	0.41	97	58	20	23	28	33	51%	36%	91	1.04	0.21	58	31	35	39	44
	NY-B	78	0.12	19	25%	6%	2%	83	2.12	0.42	53	32	26	31	37	44	38%	24%	87	1.50	0.30	31	36	41	48	54
	NY-C	49	0.08	49	100%	51%	37%	90	1.14	0.23	43	26	27	30	35	39	51%	36%	90	1.14	0.23	26	27	30	34	39
	NY-D	59	0.09	59	100%	15%	6%	82	2.23	0.45	97	58	16	19	23	27	15%	6%	82	2.23	0.45	58	16	19	23	27
	NY-E0	50	0.08	12	25%	9%	3%	83	1.99	0.40	67	40	16	19	23	26	34%	19%	85	1.80	0.36	41	19	22	26	30
	NY-E10	60	0.09	4	6%	3%	1%	82	2.18	0.44	73	44	17	21	25	29	33%	19%	84	1.86	0.37	43	22	25	30	34
	NY-F0	56	0.09	43	76%	38%	24%	90	1.16	0.23	87	52	24	27	31	35	50%	36%	91	1.03	0.21	52	25	29	33	37
	NY-F0R	61	0.10	50	82%	41%	27%	92	0.89	0.18	70	42	30	34	39	43	50%	36%	92	0.82	0.16	41	31	35	39	44
	NY-F10	55	0.09	52	94%	36%	22%	86	1.59	0.32	87	52	20	24	27	31	38%	24%	86	1.58	0.32	51	21	24	28	32
	This data reflects 2007 calibration results	South Yamhill SY-A0	94	0.15	94	100%	80%	72%	90	1.14	0.23	57	34	54	60	68	75	80%	72%	90	1.14	0.23	34	54	60	68
SY-A10		84	0.13	84	100%	80%	72%	88	1.37	0.27	15	9	62	69	78	87	80%	72%	88	1.37	0.27	9	62	69	78	87
SY-A10L		49	0.08	49	100%	80%	72%	87	1.51	0.30	24	14	34	38	43	48	80%	72%	87	1.51	0.30	14	34	38	43	48
SY-C0		67	0.10	64	96%	61%	48%	85	1.75	0.35	18	11	41	46	53	60	63%	50%	85	1.75	0.35	11	41	46	53	60
SY-C10		33	0.05	33	100%	68%	55%	87	1.54	0.31	41	25	18	20	23	26	68%	55%	87	1.54	0.31	25	18	20	23	26
SY-C20		56	0.09	56	100%	77%	68%	88	1.31	0.26	46	28	33	37	42	47	77%	68%	88	1.31	0.26	28	33	37	42	47
SY-C20R		33	0.05	33	100%	80%	72%	88	1.34	0.27	32	19	19	22	24	27	80%	72%	88	1.34	0.27	19	19	22	24	27
SY-D		45	0.07	28	63%	38%	24%	83	2.09	0.42	13	8	23	27	32	37	63%	51%	84	1.97	0.39	8	28	32	37	42
SY-E	46	0.07	42	91%	54%	40%	84	1.93	0.39	52	31	20	23	27	31	59%	46%	84	1.92	0.38	31	21	24	28	32	
SY-F	91	0.14	81	89%	51%	37%	84	1.84	0.37	63	38	38	43	50	56	58%	44%	85	1.81	0.36	38	40	45	52	59	
This data reflects 2007 calibration results	West Cozine W-0	73	0.11	53	73%	37%	22%	83	2.00	0.40	15	9	37	43	50	58	50%	35%	83	2.00	0.40	9	40	46	54	61
	W-10	69	0.1	65	95%	49%	34%	83	1.97	0.39	43	26	32	37	43	49	52%	37%	84	1.97	0.39	26	33	38	44	50
	W-10L	43	0.1	42	99%	50%	35%	84	1.96	0.39	32	19	21	24	28	32	50%	36%	84	1.96	0.39	19	21	25	28	32
	W-10L1	100	0.2	99	99%	52%	38%	84	1.88	0.38	42	25	49	56	65	74	53%	38%	84	1.88	0.38	25	49	56	65	74
	W-10R	72	0.1	72	100%	54%	40%	83	1.99	0.40	28	17	37	42	49	56	54%	40%	83	1.99	0.40	17	37	42	49	56
	W-20	91	0.1	91	100%	51%	36%	83	2.01	0.40	26	15	46	53	61	70	51%	36%	83	2.01	0.40	15	46	53	61	70
	W-30	111	0.2	111	100%	57%	43%	84	1.91	0.38	33	20	54	62	71	81	57%	43%	84	1.91	0.38	20	54	62	71	81
	W-40	96	0.1	96	100%	41%	26%	83	2.06	0.41	19	11	51	58	68	79	41%	26%	83	2.06	0.41	11	51	58	68	79
W-40L	65	0.1	64	98%	49%	34%	83	2.09	0.42	19	11	35	41	47	54	50%	35%	83	2.09	0.42	11	36	41	48	54	