

Comune di Chiusdino
Provincia di Siena



**INDAGINI IDROLOGICO-IDRAULICHE A SUPPORTO DEL
REGOLAMENTO URBANISTICO DEL COMUNE DI CHIUSDINO**



Studio di Ingegneria
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COMUNE DI CHIUSDINO

Il Dirigente:
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Il Sindaco:
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Oggetto:

**ALLEGATO IDRAULICO 1
RISULTATI DELLA MODELLAZIONE IDRAULICA DEL FOSSO FIUMARELLO**

PROGETTO

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TIPOLOGIA

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NUMERO

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REVISIONE

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SCALA

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DATA

MAGGIO 2012

REV.	DESCRIZIONE	EMESSO	DATA	VERIFICATO	DATA	APPROVATO	DATA
A	PRIMA EMISSIONE	GABRIELLI	MAGGIO 2012	GABRIELLI	MAGGIO 2012	GABRIELLI	MAGGIO 2012

INDICE ALLEGATO IDRAULICO 1

FOSSO FIUMARELLO

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HEC-RAS Plan: FIU30 River: FIUMARELLO Reach: FIUMARELLO

Reach	River Sta	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
FIUMARELLO	11.1	22.07	337.30	340.49	338.82	340.52	0.000859	0.82	31.02	25.41	0.18
FIUMARELLO	11.1	25.17	337.30	340.56	338.93	340.60	0.000963	0.89	32.92	25.41	0.19
FIUMARELLO	11.1	35.79	337.30	340.77	339.24	340.83	0.001309	1.10	38.36	25.41	0.23
FIUMARELLO	11.1	43.05	337.30	340.90	339.42	340.97	0.001517	1.23	41.63	25.41	0.25
FIUMARELLO	11	22.07	337.12	340.48	338.78	340.51	0.000840	0.81	31.09	25.41	0.18
FIUMARELLO	11	25.17	337.12	340.55	338.89	340.59	0.000942	0.88	32.97	25.41	0.19
FIUMARELLO	11	35.79	337.12	340.76	339.21	340.82	0.001281	1.09	38.33	25.41	0.22
FIUMARELLO	11	43.05	337.12	340.89	339.39	340.95	0.001485	1.21	41.55	25.41	0.24
FIUMARELLO	10.5	Culvert									
FIUMARELLO	10	22.07	336.94	338.31		338.50	0.011095	1.94	11.38	10.16	0.58
FIUMARELLO	10	25.17	336.94	338.37		338.59	0.012118	2.08	12.08	10.29	0.61
FIUMARELLO	10	35.79	336.94	338.56		338.89	0.015915	2.56	14.00	10.67	0.71
FIUMARELLO	10	43.05	336.94	338.65		339.07	0.018750	2.87	15.02	10.86	0.78
FIUMARELLO	9	22.07	336.38	337.79	337.79	338.08	0.024519	2.38	9.26	15.83	1.00
FIUMARELLO	9	25.17	336.38	337.84	337.84	338.16	0.024088	2.48	10.15	16.16	1.00
FIUMARELLO	9	35.79	336.38	338.02	338.02	338.40	0.022426	2.72	13.15	17.20	0.99
FIUMARELLO	9	43.05	336.38	338.13	338.13	338.55	0.021782	2.86	15.03	17.83	1.00
FIUMARELLO	8	22.07	335.26	336.38	336.22	336.49	0.016213	1.50	14.73	28.10	0.66
FIUMARELLO	8	25.17	335.26	336.43	336.27	336.56	0.015741	1.55	16.26	28.87	0.66
FIUMARELLO	8	35.79	335.26	336.60	336.41	336.74	0.014333	1.70	21.03	30.15	0.65
FIUMARELLO	8	43.05	335.26	336.70	336.48	336.86	0.013567	1.78	24.14	30.96	0.64
FIUMARELLO	7	22.07	333.76	335.27	334.95	335.40	0.010888	1.61	13.71	17.03	0.57
FIUMARELLO	7	25.17	333.76	335.36	335.02	335.50	0.010450	1.64	15.39	18.13	0.57
FIUMARELLO	7	35.79	333.76	335.65	335.22	335.80	0.009157	1.69	21.16	21.45	0.54
FIUMARELLO	7	43.05	333.76	335.83	335.35	335.98	0.008380	1.71	25.17	23.49	0.53
FIUMARELLO	6	22.07	331.97	333.91	333.34	334.05	0.009344	1.67	13.21	11.07	0.49
FIUMARELLO	6	25.17	331.97	334.02	333.42	334.17	0.009396	1.74	14.43	11.28	0.49
FIUMARELLO	6	35.79	331.97	334.35	333.67	334.55	0.009550	1.95	18.32	11.95	0.50
FIUMARELLO	6	43.05	331.97	334.55	333.87	334.77	0.009694	2.07	20.76	12.37	0.51
FIUMARELLO	5	22.07	331.51	333.42		333.56	0.008768	1.62	13.62	10.30	0.45
FIUMARELLO	5	25.17	331.51	333.50		333.65	0.009714	1.75	14.40	10.46	0.48
FIUMARELLO	5	35.79	331.51	333.69		333.93	0.013570	2.18	16.39	10.86	0.57
FIUMARELLO	5	43.05	331.51	333.77		334.08	0.016668	2.49	17.37	13.35	0.63
FIUMARELLO	4	22.07	330.65	332.48		332.60	0.011027	1.55	15.06	27.94	0.49
FIUMARELLO	4	25.17	330.65	332.56		332.67	0.010271	1.56	17.10	29.40	0.48
FIUMARELLO	4	35.79	330.65	332.78		332.90	0.007996	1.56	24.17	34.00	0.43
FIUMARELLO	4	43.05	330.65	332.92		333.03	0.006896	1.55	29.00	36.81	0.41
FIUMARELLO	3	22.07	329.50	331.44	330.94	331.54	0.008718	1.44	15.31	14.02	0.44
FIUMARELLO	3	25.17	329.50	331.53	331.02	331.64	0.008893	1.52	16.54	14.02	0.45
FIUMARELLO	3	35.79	329.50	331.79	331.21	331.95	0.009615	1.77	20.23	14.02	0.47
FIUMARELLO	3	43.05	329.50	331.94	331.33	332.13	0.010207	1.92	22.36	14.02	0.49
FIUMARELLO	2	22.07	327.71	329.50	329.25	329.62	0.016678	1.52	14.70	23.04	0.58
FIUMARELLO	2	25.17	327.71	329.56	329.33	329.69	0.016896	1.60	15.97	23.88	0.59
FIUMARELLO	2	35.79	327.71	329.73	329.48	329.89	0.017063	1.83	20.23	26.51	0.61
FIUMARELLO	2	43.05	327.71	329.83	329.58	330.02	0.016818	1.94	23.13	28.16	0.61
FIUMARELLO	1	22.07	327.78	329.16	329.02	329.29	0.011018	1.62	13.61	22.54	0.67
FIUMARELLO	1	25.17	327.78	329.21	329.06	329.36	0.011012	1.71	14.75	22.59	0.67
FIUMARELLO	1	35.79	327.78	329.37	329.19	329.56	0.011003	1.95	18.35	22.74	0.69
FIUMARELLO	1	43.05	327.78	329.47	329.28	329.69	0.011003	2.09	20.57	22.83	0.70

HEC-RAS Plan: FIU60 River: FIUMARELLO Reach: FIUMARELLO

Reach	River Sta	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
FIUMARELLO	11.1	28.19	337.30	340.63	339.02	340.67	0.001066	0.96	34.58	25.41	0.20
FIUMARELLO	11.1	31.27	337.30	340.69	339.11	340.74	0.001166	1.02	36.19	25.41	0.21
FIUMARELLO	11.1	41.76	337.30	340.88	339.39	340.95	0.001481	1.21	41.07	25.41	0.24
FIUMARELLO	11.1	48.88	337.30	341.00	339.55	341.08	0.001671	1.32	44.07	25.41	0.26
FIUMARELLO	11	28.19	337.12	340.62	338.99	340.66	0.001043	0.94	34.60	25.41	0.20
FIUMARELLO	11	31.27	337.12	340.68	339.08	340.72	0.001140	1.00	36.19	25.41	0.21
FIUMARELLO	11	41.76	337.12	340.87	339.36	340.93	0.001450	1.19	41.00	25.41	0.24
FIUMARELLO	11	48.88	337.12	340.98	339.51	341.06	0.001635	1.30	43.97	25.41	0.26
FIUMARELLO	10.5	Culvert									
FIUMARELLO	10	28.19	336.94	338.43		338.68	0.013179	2.22	12.68	10.41	0.64
FIUMARELLO	10	31.27	336.94	338.49		338.77	0.014264	2.36	13.25	10.52	0.67
FIUMARELLO	10	41.76	336.94	338.64		339.04	0.018194	2.81	14.86	10.83	0.77
FIUMARELLO	10	48.88	336.94	338.73		339.21	0.020659	3.08	15.86	11.01	0.82
FIUMARELLO	9	28.19	336.38	337.90	337.90	338.23	0.023471	2.55	11.04	16.47	1.00
FIUMARELLO	9	31.27	336.38	337.95	337.95	338.30	0.022998	2.63	11.91	16.78	0.99
FIUMARELLO	9	41.76	336.38	338.11	338.11	338.52	0.021947	2.84	14.69	17.71	1.00
FIUMARELLO	9	48.88	336.38	338.21	338.21	338.66	0.021311	2.96	16.51	18.30	1.00
FIUMARELLO	8	28.19	335.26	336.48	336.31	336.61	0.015288	1.60	17.65	29.25	0.66
FIUMARELLO	8	31.27	335.26	336.53	336.35	336.67	0.014903	1.64	19.03	29.62	0.65
FIUMARELLO	8	41.76	335.26	336.68	336.47	336.84	0.013709	1.77	23.59	30.82	0.65
FIUMARELLO	8	48.88	335.26	336.78	336.54	336.95	0.012949	1.83	26.64	31.59	0.64
FIUMARELLO	7	28.19	333.76	335.45	335.08	335.59	0.010044	1.65	17.03	19.13	0.56
FIUMARELLO	7	31.27	333.76	335.54	335.14	335.68	0.009655	1.67	18.71	20.11	0.55
FIUMARELLO	7	41.76	333.76	335.80	335.33	335.95	0.008513	1.71	24.45	23.14	0.53
FIUMARELLO	7	48.88	333.76	335.97	335.43	336.12	0.007843	1.72	28.41	25.01	0.52
FIUMARELLO	6	28.19	331.97	334.12	333.49	334.29	0.009412	1.81	15.59	11.49	0.50
FIUMARELLO	6	31.27	331.97	334.22	333.57	334.40	0.009468	1.87	16.72	11.68	0.50
FIUMARELLO	6	41.76	331.97	334.52	333.84	334.73	0.009666	2.05	20.33	12.29	0.51
FIUMARELLO	6	48.88	331.97	334.72	333.98	334.95	0.009626	2.14	22.80	12.75	0.51
FIUMARELLO	5	28.19	331.51	333.56		333.74	0.010717	1.87	15.06	10.60	0.50
FIUMARELLO	5	31.27	331.51	333.62		333.82	0.011829	2.00	15.64	10.71	0.53
FIUMARELLO	5	41.76	331.51	333.76		334.06	0.016097	2.43	17.20	12.70	0.62
FIUMARELLO	5	48.88	331.51	333.74		334.16	0.022826	2.88	16.98	11.86	0.74
FIUMARELLO	4	28.19	330.65	332.62		332.74	0.009551	1.57	19.10	30.77	0.46
FIUMARELLO	4	31.27	330.65	332.69		332.80	0.008847	1.56	21.17	32.13	0.45
FIUMARELLO	4	41.76	330.65	332.89		333.01	0.007069	1.55	28.14	36.33	0.41
FIUMARELLO	4	48.88	330.65	333.08		333.18	0.004840	1.39	35.33	38.36	0.35
FIUMARELLO	3	28.19	329.50	331.61	331.08	331.74	0.009084	1.60	17.66	14.02	0.45
FIUMARELLO	3	31.27	329.50	331.68	331.13	331.83	0.009290	1.67	18.75	14.02	0.46
FIUMARELLO	3	41.76	329.50	331.92	331.32	332.10	0.010110	1.90	21.99	14.02	0.48
FIUMARELLO	3	48.88	329.50	331.42	331.42	331.96	0.044904	3.24	15.07	14.02	1.00
FIUMARELLO	2	28.19	327.71	329.61	329.37	329.75	0.017055	1.67	17.18	24.65	0.59
FIUMARELLO	2	31.27	327.71	329.66	329.42	329.81	0.017088	1.74	18.43	25.43	0.60
FIUMARELLO	2	41.76	327.71	329.81	329.56	330.00	0.016875	1.93	22.61	27.87	0.61
FIUMARELLO	2	48.88	327.71	329.91	329.65	330.11	0.016481	2.02	25.48	29.42	0.61
FIUMARELLO	1	28.19	327.78	329.26	329.10	329.42	0.011007	1.78	15.82	22.63	0.68
FIUMARELLO	1	31.27	327.78	329.30	329.14	329.48	0.011004	1.85	16.87	22.68	0.69
FIUMARELLO	1	41.76	327.78	329.45	329.26	329.67	0.011003	2.07	20.19	22.81	0.70
FIUMARELLO	1	48.88	327.78	329.54	329.34	329.79	0.011002	2.19	22.27	22.91	0.71

HEC-RAS Plan: FIU90 River: FIUMARELLO Reach: FIUMARELLO

Reach	River Sta	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
FIUMARELLO	11.1	27.58	337.30	340.62	339.00	340.66	0.001039	0.94	34.34	25.41	0.20
FIUMARELLO	11.1	30.16	337.30	340.66	339.08	340.70	0.001149	1.00	35.39	25.41	0.21
FIUMARELLO	11.1	38.96	337.30	340.84	339.32	340.90	0.001378	1.15	40.08	25.41	0.23
FIUMARELLO	11.1	44.95	337.30	340.94	339.46	341.01	0.001565	1.26	42.47	25.41	0.25
FIUMARELLO	11	27.58	337.12	340.61	338.97	340.65	0.001016	0.93	34.38	25.41	0.20
FIUMARELLO	11	30.16	337.12	340.65	339.05	340.69	0.001125	0.99	35.40	25.41	0.21
FIUMARELLO	11	38.96	337.12	340.83	339.29	340.89	0.001348	1.14	40.04	25.41	0.23
FIUMARELLO	11	44.95	337.12	340.92	339.43	340.99	0.001532	1.24	42.39	25.41	0.25
FIUMARELLO	10.5	Culvert									
FIUMARELLO	10	27.58	336.94	338.42		338.67	0.012978	2.20	12.56	10.39	0.64
FIUMARELLO	10	30.16	336.94	338.47		338.74	0.013681	2.30	13.11	10.50	0.66
FIUMARELLO	10	38.96	336.94	338.60		338.97	0.017110	2.69	14.47	10.76	0.74
FIUMARELLO	10	44.95	336.94	338.68		339.12	0.019243	2.93	15.34	10.92	0.79
FIUMARELLO	9	27.58	336.38	337.89	337.89	338.22	0.023526	2.54	10.87	16.41	1.00
FIUMARELLO	9	30.16	336.38	337.92	337.92	338.28	0.023901	2.63	11.48	16.63	1.01
FIUMARELLO	9	38.96	336.38	338.07	338.07	338.47	0.022132	2.79	13.98	17.48	0.99
FIUMARELLO	9	44.95	336.38	338.15	338.15	338.59	0.022039	2.92	15.42	17.95	1.00
FIUMARELLO	8	27.58	335.26	336.47	336.30	336.60	0.015359	1.59	17.38	29.18	0.66
FIUMARELLO	8	30.16	335.26	336.51	336.34	336.65	0.015032	1.63	18.54	29.49	0.66
FIUMARELLO	8	38.96	335.26	336.64	336.44	336.79	0.014023	1.74	22.38	30.51	0.65
FIUMARELLO	8	44.95	335.26	336.72	336.50	336.89	0.013361	1.80	24.96	31.17	0.64
FIUMARELLO	7	27.58	333.76	335.43	335.07	335.57	0.010134	1.65	16.70	18.93	0.56
FIUMARELLO	7	30.16	333.76	335.51	335.11	335.65	0.009797	1.67	18.11	19.76	0.56
FIUMARELLO	7	38.96	333.76	335.73	335.28	335.88	0.008808	1.70	22.90	22.36	0.54
FIUMARELLO	7	44.95	333.76	335.88	335.37	336.03	0.008193	1.71	26.23	24.00	0.52
FIUMARELLO	6	27.58	331.97	334.10	333.47	334.27	0.009409	1.80	15.36	11.45	0.49
FIUMARELLO	6	30.16	331.97	334.18	333.54	334.36	0.009435	1.85	16.33	11.61	0.50
FIUMARELLO	6	38.96	331.97	334.44	333.76	334.65	0.009605	2.01	19.40	12.13	0.51
FIUMARELLO	6	44.95	331.97	334.60	333.90	334.83	0.009732	2.10	21.38	12.49	0.51
FIUMARELLO	5	27.58	331.51	333.55		333.72	0.010533	1.85	14.92	10.57	0.50
FIUMARELLO	5	30.16	331.51	333.60		333.79	0.011426	1.95	15.44	10.67	0.52
FIUMARELLO	5	38.96	331.51	333.73		334.00	0.014886	2.31	16.83	11.22	0.60
FIUMARELLO	5	44.95	331.51	333.79		334.12	0.017573	2.57	17.60	14.17	0.65
FIUMARELLO	4	27.58	330.65	332.61		332.73	0.009632	1.56	18.74	30.53	0.46
FIUMARELLO	4	30.16	330.65	332.66		332.78	0.009076	1.56	20.44	31.66	0.45
FIUMARELLO	4	38.96	330.65	332.84		332.96	0.007479	1.55	26.28	35.25	0.42
FIUMARELLO	4	44.95	330.65	332.95		333.07	0.006636	1.54	30.30	37.53	0.40
FIUMARELLO	3	27.58	329.50	331.59	331.06	331.72	0.009041	1.58	17.45	14.02	0.45
FIUMARELLO	3	30.16	329.50	331.66	331.11	331.79	0.009229	1.64	18.35	14.02	0.46
FIUMARELLO	3	38.96	329.50	331.86	331.27	332.03	0.009850	1.84	21.20	14.02	0.48
FIUMARELLO	3	44.95	329.50	331.98	331.36	332.18	0.010359	1.96	22.89	14.02	0.49
FIUMARELLO	2	27.58	327.71	329.60	329.37	329.74	0.017040	1.66	16.94	24.50	0.59
FIUMARELLO	2	30.16	327.71	329.64	329.40	329.79	0.017066	1.72	17.99	25.16	0.60
FIUMARELLO	2	38.96	327.71	329.77	329.52	329.95	0.016984	1.88	21.49	27.24	0.61
FIUMARELLO	2	44.95	327.71	329.86	329.60	330.05	0.016720	1.97	23.89	28.57	0.61
FIUMARELLO	1	27.58	327.78	329.25	329.09	329.41	0.011009	1.77	15.61	22.62	0.68
FIUMARELLO	1	30.16	327.78	329.29	329.12	329.46	0.011005	1.83	16.50	22.66	0.68
FIUMARELLO	1	38.96	327.78	329.41	329.23	329.62	0.011002	2.01	19.34	22.78	0.70
FIUMARELLO	1	44.95	327.78	329.49	329.30	329.72	0.011003	2.13	21.14	22.85	0.71

HEC-RAS Plan: FIU120 River: FIUMARELLO Reach: FIUMARELLO

Reach	River Sta	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
FIUMARELLO	11.1	24.76	337.30	340.54	338.91	340.58	0.000969	0.89	32.43	25.41	0.19
FIUMARELLO	11.1	26.89	337.30	340.59	338.98	340.63	0.001041	0.93	33.64	25.41	0.20
FIUMARELLO	11.1	34.20	337.30	340.74	339.20	340.80	0.001260	1.07	37.61	25.41	0.22
FIUMARELLO	11.1	39.22	337.30	340.83	339.32	340.89	0.001416	1.17	39.88	25.41	0.24
FIUMARELLO	11	24.76	337.12	340.53	338.87	340.57	0.000948	0.88	32.47	25.41	0.19
FIUMARELLO	11	26.89	337.12	340.58	338.95	340.62	0.001019	0.92	33.67	25.41	0.20
FIUMARELLO	11	34.20	337.12	340.73	339.16	340.78	0.001233	1.06	37.59	25.41	0.22
FIUMARELLO	11	39.22	337.12	340.82	339.29	340.88	0.001385	1.15	39.83	25.41	0.23
FIUMARELLO	10.5	Culvert									
FIUMARELLO	10	24.76	336.94	338.37		338.58	0.011962	2.06	12.00	10.28	0.61
FIUMARELLO	10	26.89	336.94	338.41		338.64	0.012765	2.17	12.41	10.36	0.63
FIUMARELLO	10	34.20	336.94	338.54		338.85	0.015033	2.47	13.84	10.64	0.69
FIUMARELLO	10	39.22	336.94	338.61		338.98	0.017028	2.69	14.56	10.77	0.74
FIUMARELLO	9	24.76	336.38	337.84	337.84	338.15	0.024250	2.47	10.02	16.11	1.00
FIUMARELLO	9	26.89	336.38	337.88	337.88	338.20	0.023528	2.52	10.69	16.35	0.99
FIUMARELLO	9	34.20	336.38	337.99	337.99	338.37	0.023495	2.72	12.55	17.00	1.01
FIUMARELLO	9	39.22	336.38	338.07	338.07	338.47	0.022518	2.81	13.96	17.47	1.00
FIUMARELLO	8	24.76	335.26	336.43	336.27	336.55	0.015787	1.54	16.07	28.82	0.66
FIUMARELLO	8	26.89	335.26	336.46	336.29	336.59	0.015411	1.57	17.08	29.10	0.66
FIUMARELLO	8	34.20	335.26	336.57	336.39	336.72	0.014538	1.68	20.32	29.97	0.65
FIUMARELLO	8	39.22	335.26	336.64	336.44	336.80	0.013994	1.74	22.49	30.53	0.65
FIUMARELLO	7	24.76	333.76	335.35	335.01	335.49	0.010502	1.63	15.17	17.99	0.57
FIUMARELLO	7	26.89	333.76	335.41	335.05	335.55	0.010226	1.65	16.32	18.70	0.56
FIUMARELLO	7	34.20	333.76	335.61	335.19	335.76	0.009343	1.69	20.28	20.98	0.55
FIUMARELLO	7	39.22	333.76	335.74	335.28	335.89	0.008779	1.70	23.04	22.43	0.54
FIUMARELLO	6	24.76	331.97	334.00	333.40	334.16	0.009394	1.74	14.27	11.26	0.49
FIUMARELLO	6	26.89	331.97	334.08	333.46	334.24	0.009403	1.78	15.10	11.40	0.49
FIUMARELLO	6	34.20	331.97	334.31	333.62	334.50	0.009521	1.93	17.77	11.86	0.50
FIUMARELLO	6	39.22	331.97	334.45	333.77	334.66	0.009612	2.01	19.49	12.14	0.51
FIUMARELLO	5	24.76	331.51	333.49		333.64	0.009581	1.73	14.31	10.44	0.47
FIUMARELLO	5	26.89	331.51	333.53		333.70	0.010287	1.82	14.78	10.54	0.49
FIUMARELLO	5	34.20	331.51	333.66		333.89	0.012938	2.12	16.14	10.81	0.55
FIUMARELLO	5	39.22	331.51	333.73		334.00	0.015026	2.33	16.86	11.32	0.60
FIUMARELLO	4	24.76	330.65	332.55		332.66	0.010382	1.56	16.83	29.21	0.48
FIUMARELLO	4	26.89	330.65	332.59		332.71	0.009826	1.56	18.26	30.20	0.47
FIUMARELLO	4	34.20	330.65	332.75		332.86	0.008280	1.56	23.12	33.35	0.44
FIUMARELLO	4	39.22	330.65	332.84		332.96	0.007440	1.55	26.45	35.35	0.42
FIUMARELLO	3	24.76	329.50	331.51	331.01	331.63	0.008869	1.51	16.38	14.02	0.45
FIUMARELLO	3	26.89	329.50	331.57	331.05	331.70	0.009003	1.56	17.19	14.02	0.45
FIUMARELLO	3	34.20	329.50	331.75	331.18	331.91	0.009476	1.73	19.74	14.02	0.47
FIUMARELLO	3	39.22	329.50	331.86	331.27	332.04	0.009872	1.84	21.28	14.02	0.48
FIUMARELLO	2	24.76	327.71	329.55	329.32	329.68	0.016871	1.59	15.81	23.77	0.58
FIUMARELLO	2	26.89	327.71	329.59	329.36	329.72	0.016977	1.64	16.67	24.33	0.59
FIUMARELLO	2	34.20	327.71	329.70	329.46	329.86	0.017099	1.80	19.59	26.13	0.60
FIUMARELLO	2	39.22	327.71	329.78	329.53	329.95	0.016976	1.89	21.60	27.30	0.61
FIUMARELLO	1	24.76	327.78	329.20	329.06	329.35	0.011014	1.70	14.61	22.58	0.67
FIUMARELLO	1	26.89	327.78	329.24	329.08	329.39	0.011009	1.75	15.37	22.61	0.68
FIUMARELLO	1	34.20	327.78	329.35	329.17	329.53	0.011003	1.92	17.84	22.72	0.69
FIUMARELLO	1	39.22	327.78	329.42	329.23	329.62	0.011001	2.02	19.42	22.78	0.70









