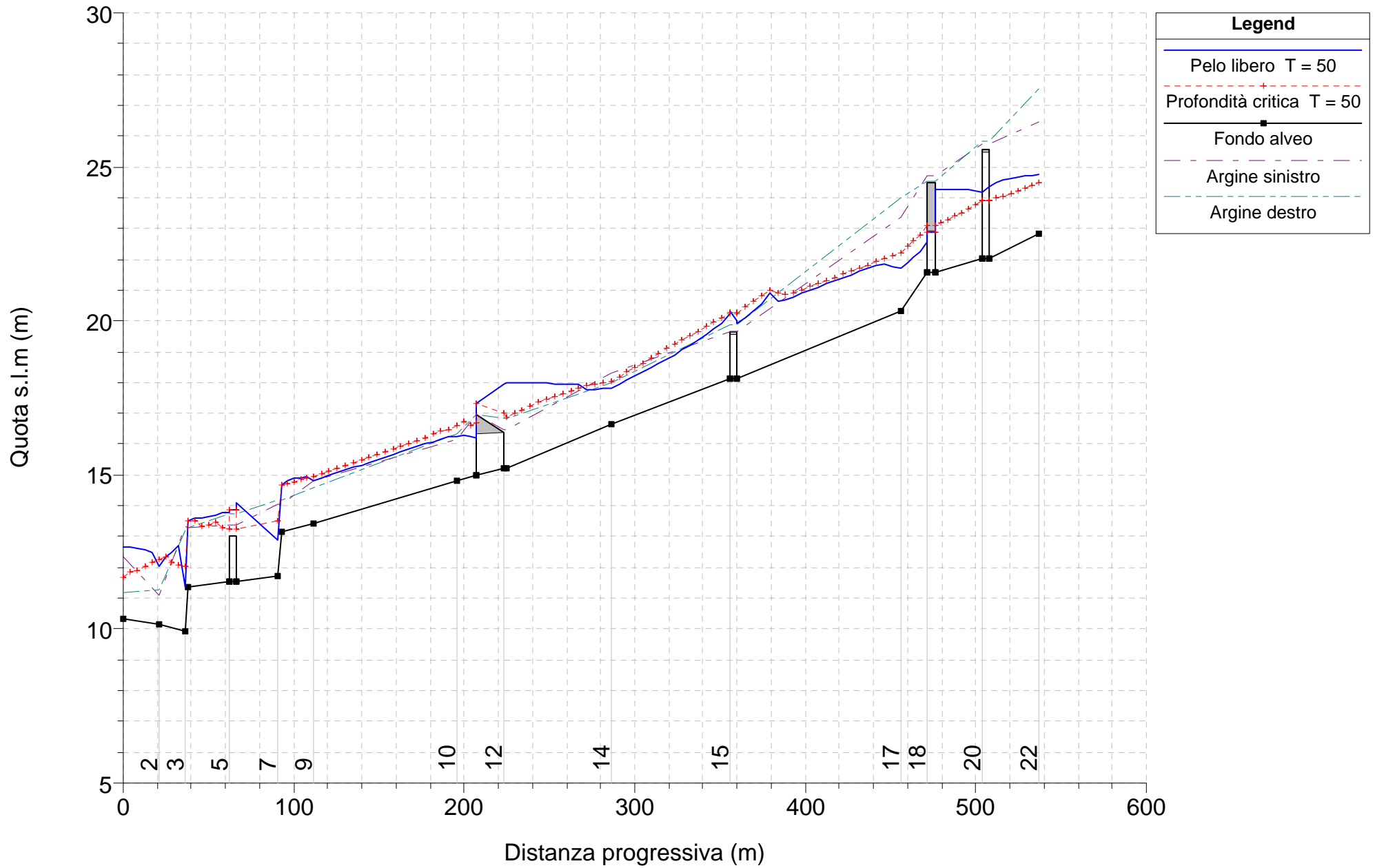


**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO  
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

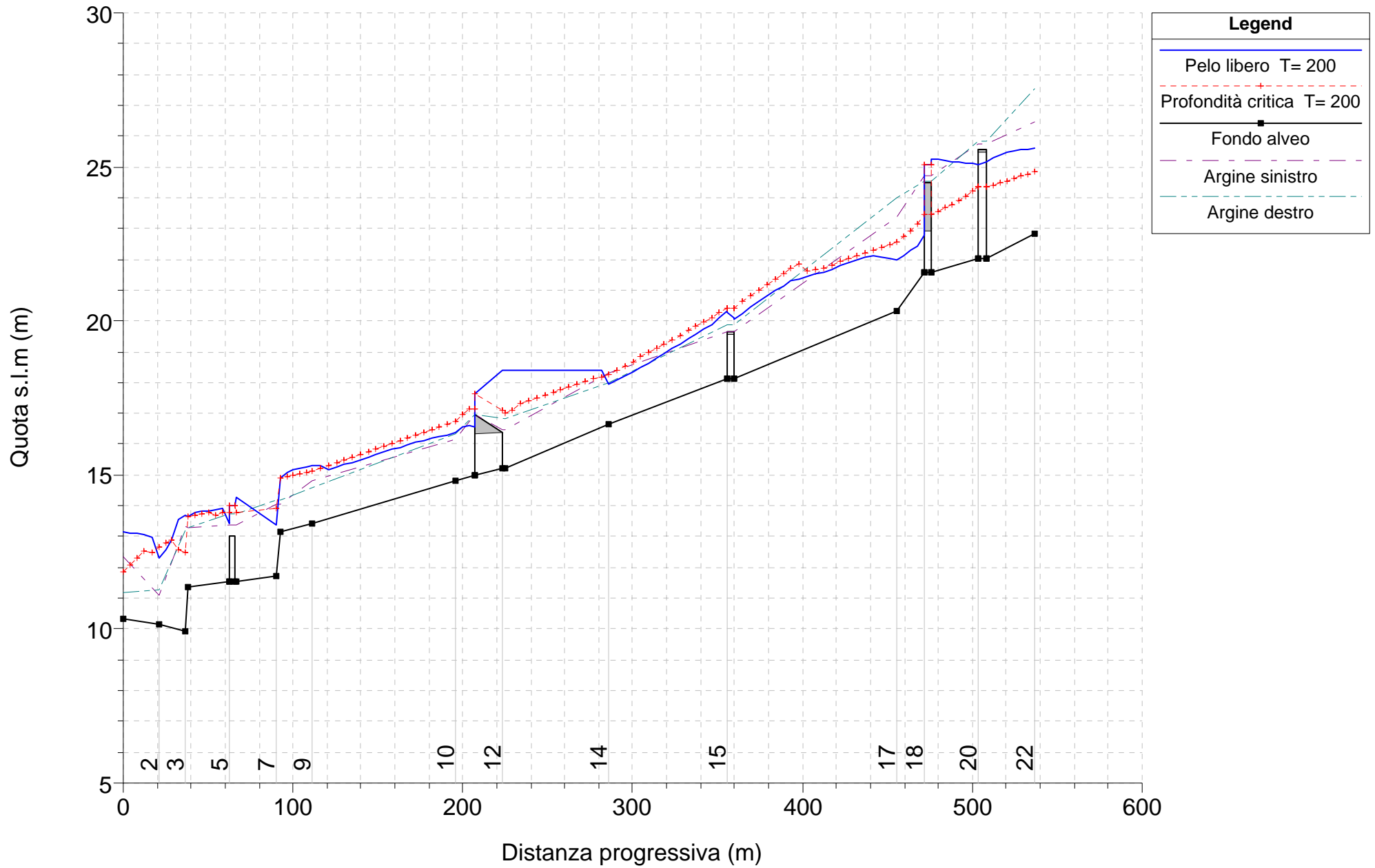
**RIO SAN GIOVANNI**



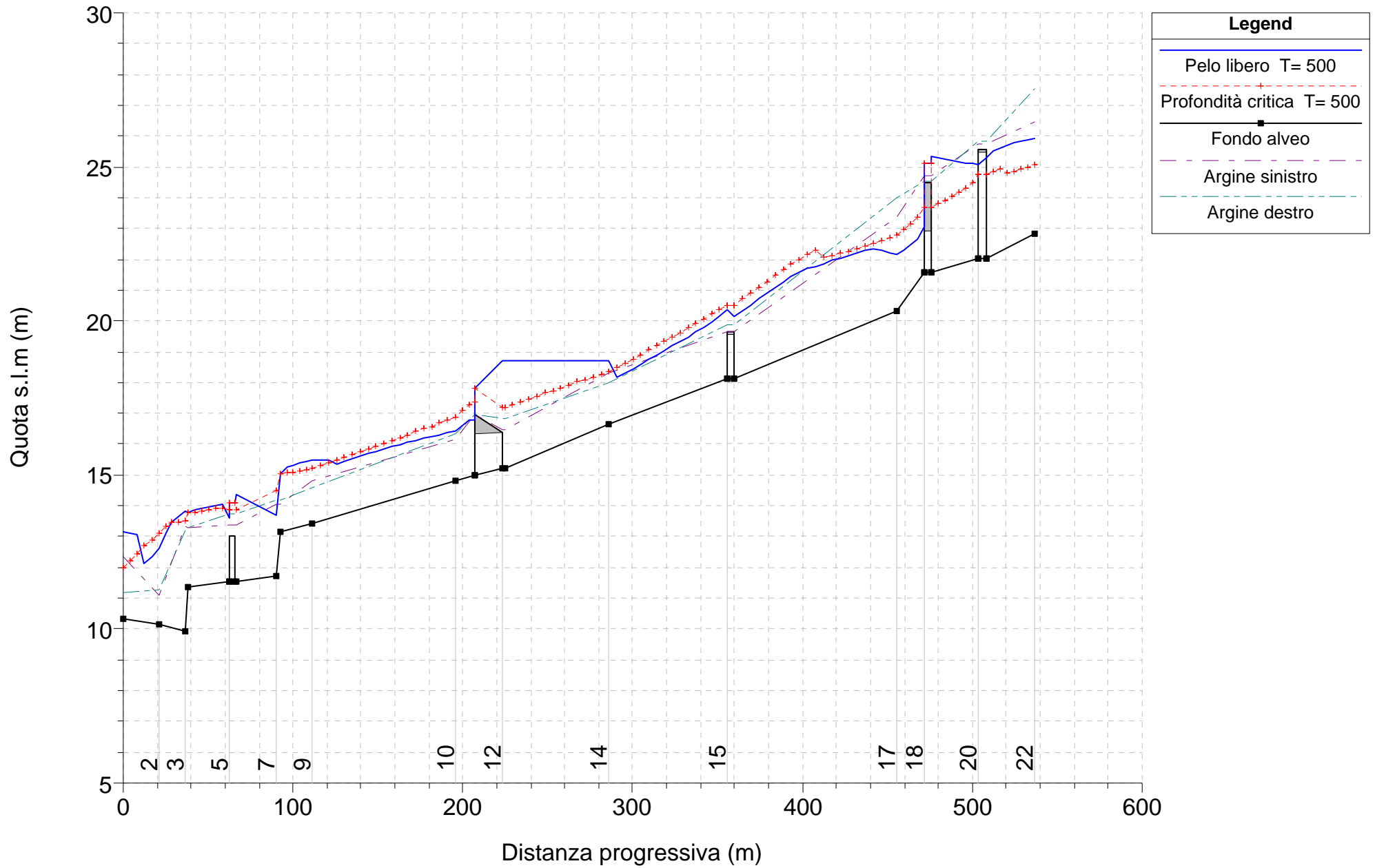
# Rio San Giovanni – profilo longitudinale di moto permanente T=50 anni



Rio San Giovanni – profilo longitudinale di moto permanente T=200 anni



Rio San Giovanni – profilo longitudinale di moto permanente T=500 anni





**GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO  
LIBERO IN CONDIZIONI DI MOTO PERMANENTE  
PER LE PORTATE T=50, 200, 500 ANNI**

**RIO SAN GIOVANNI**

DALLA SEZ. 22  
ALLA SEZ. 1

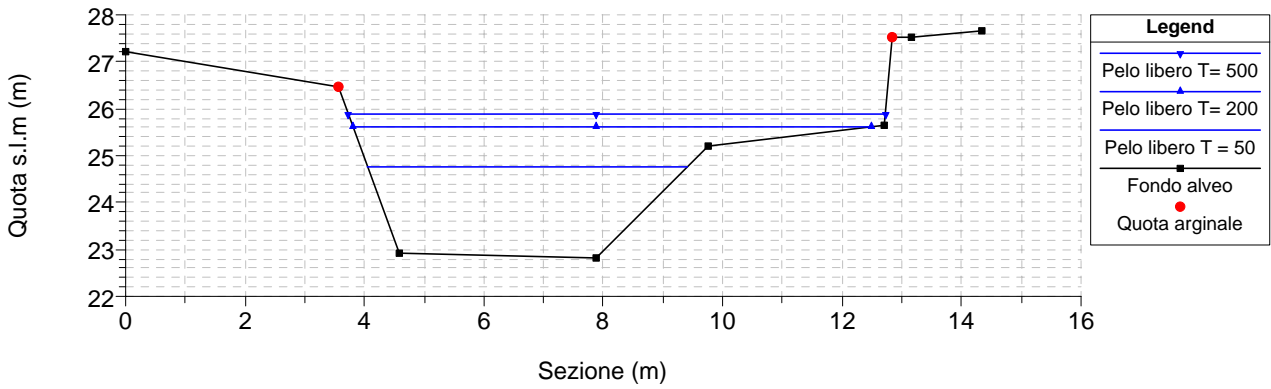




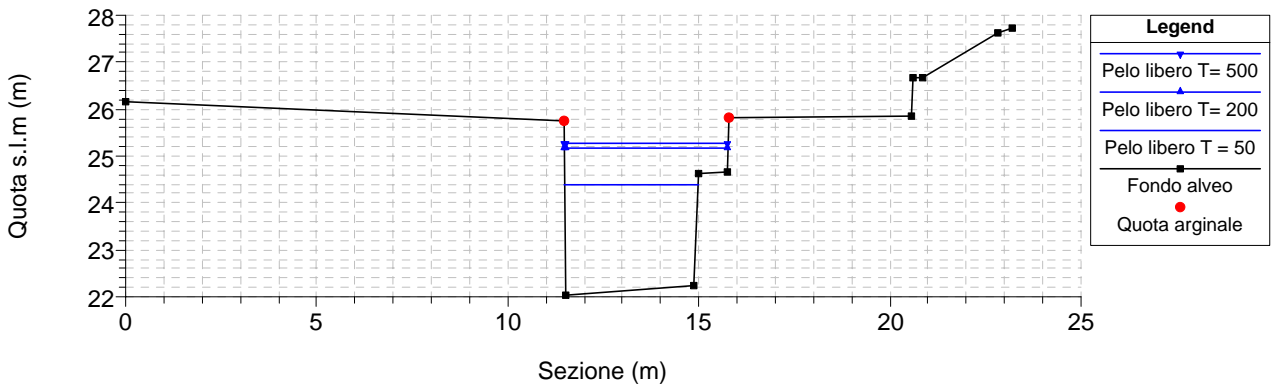
# RIO SAN GIOVANNI

## Sezioni trasversali

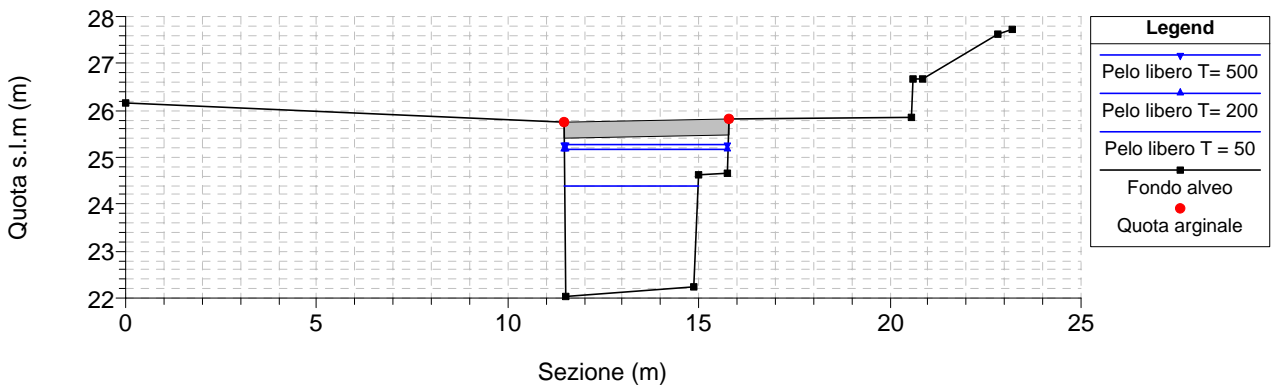
RS = 22



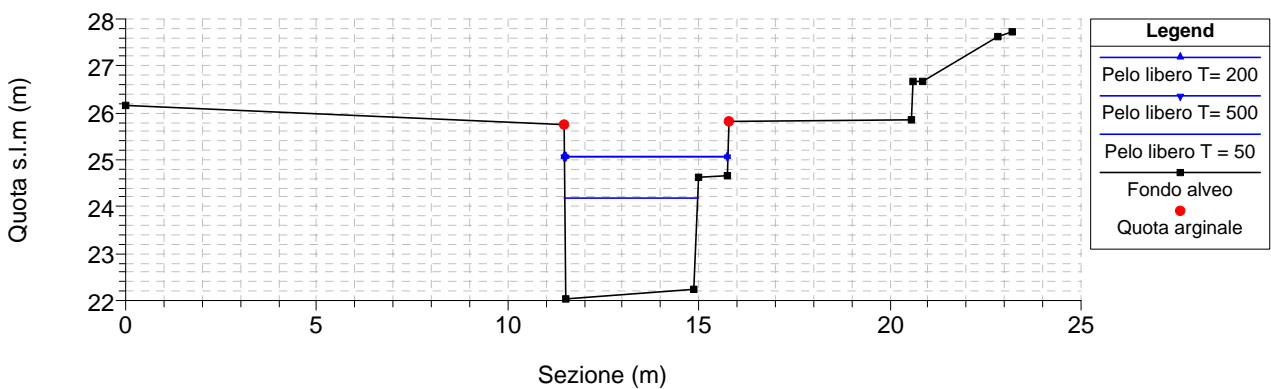
RS = 21



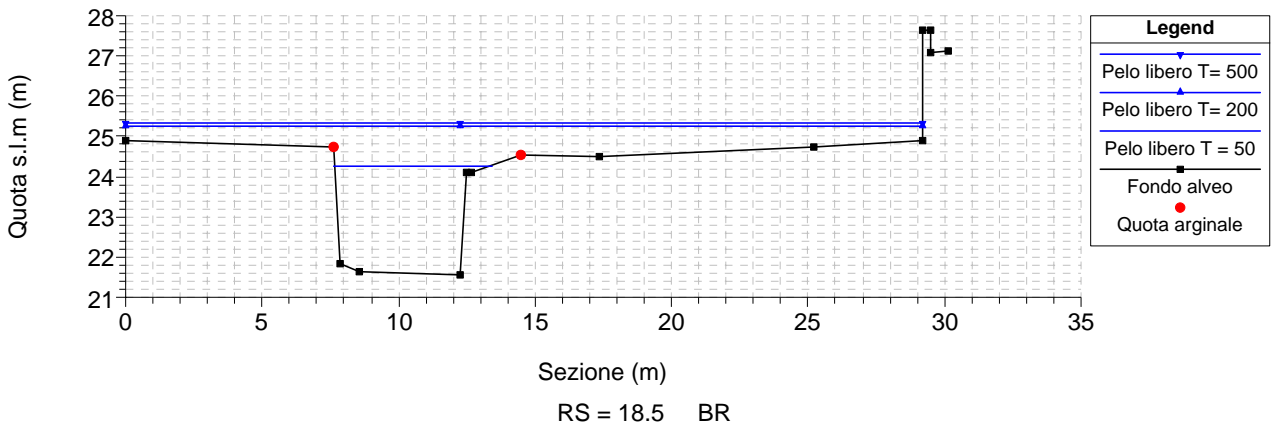
RS = 20.5 BR



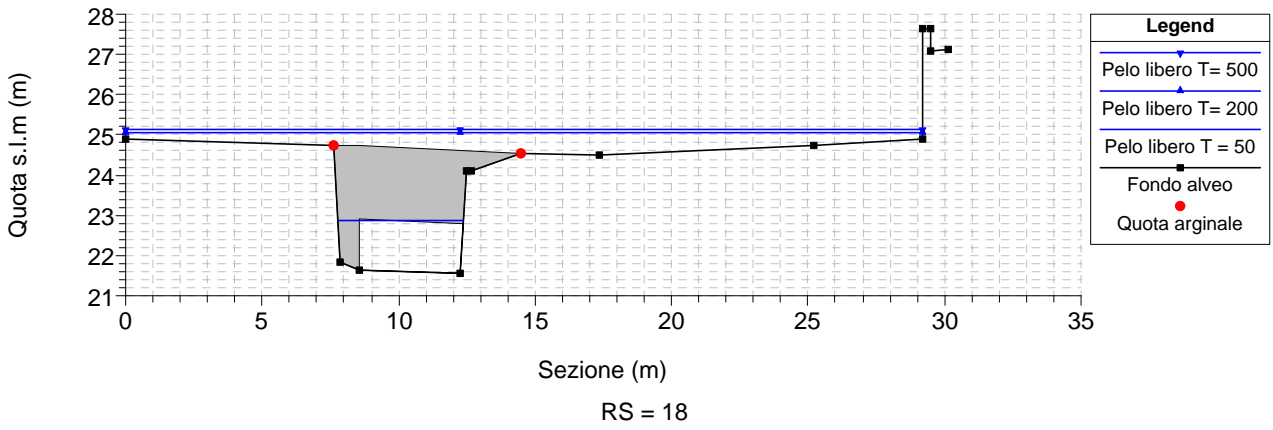
RS = 20



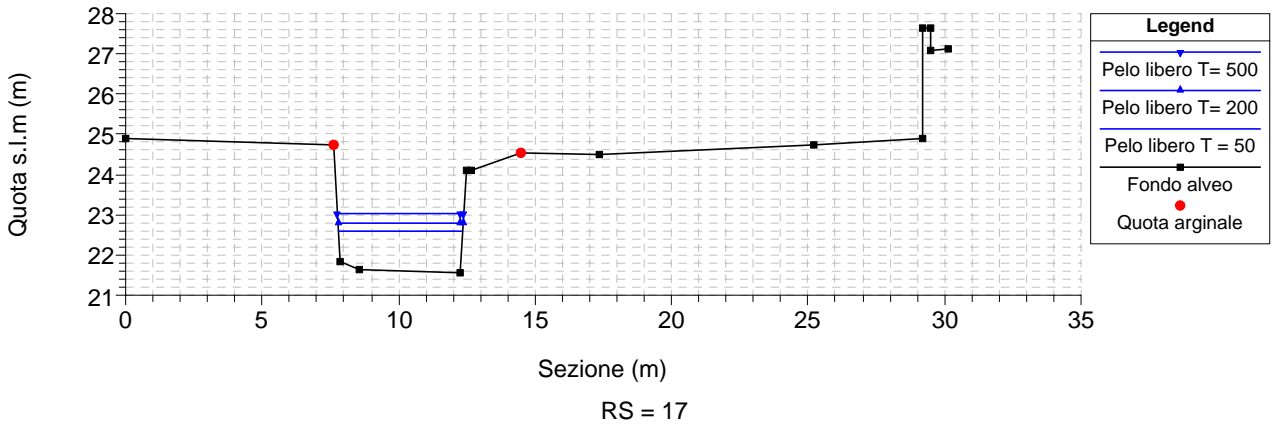
RS = 19



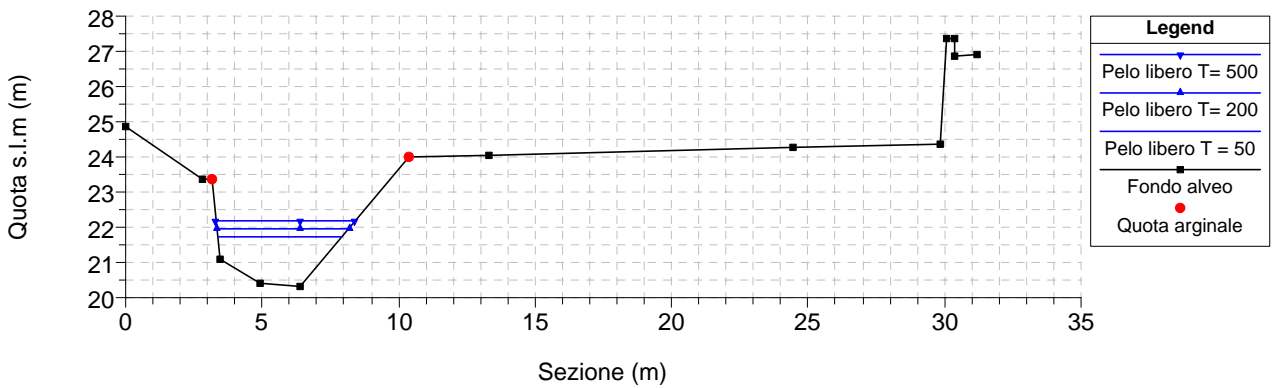
RS = 18.5 BR



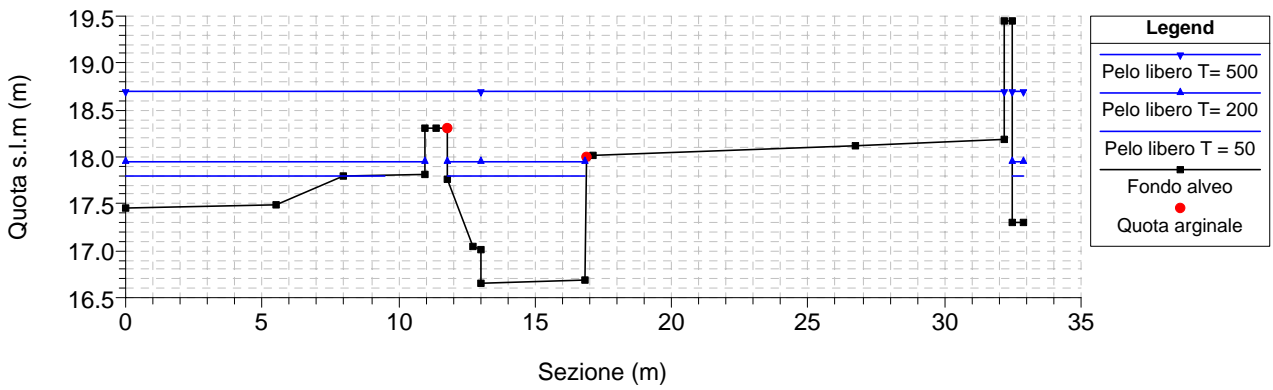
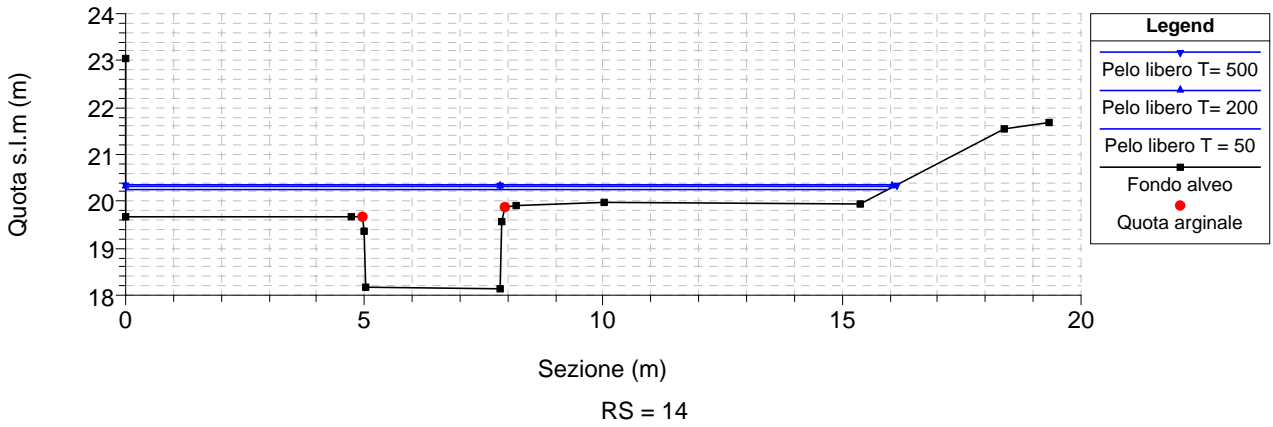
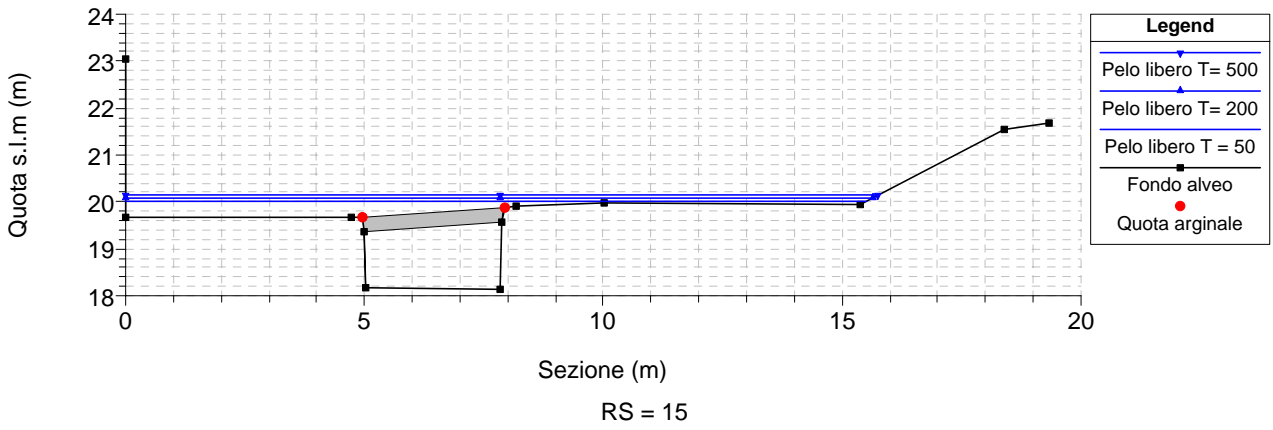
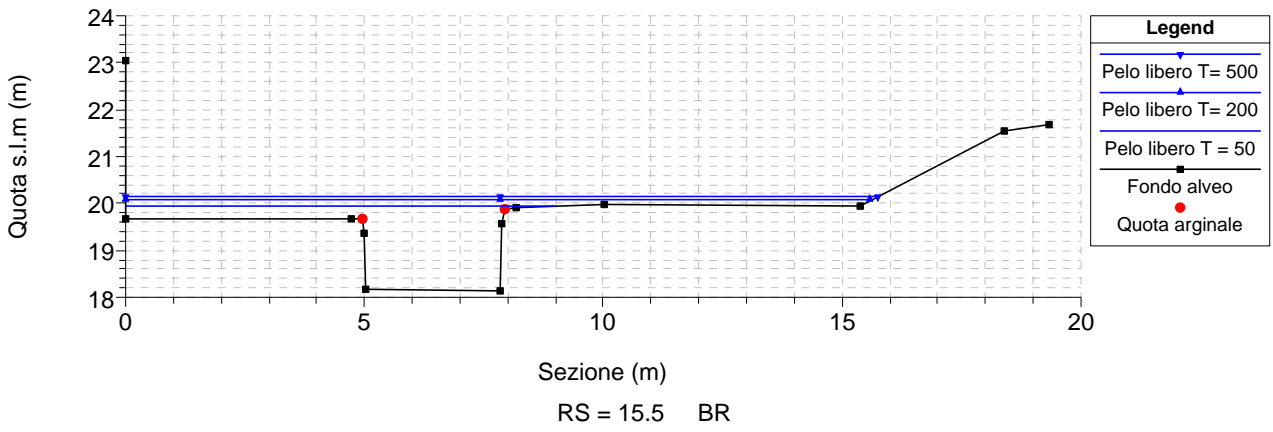
RS = 18



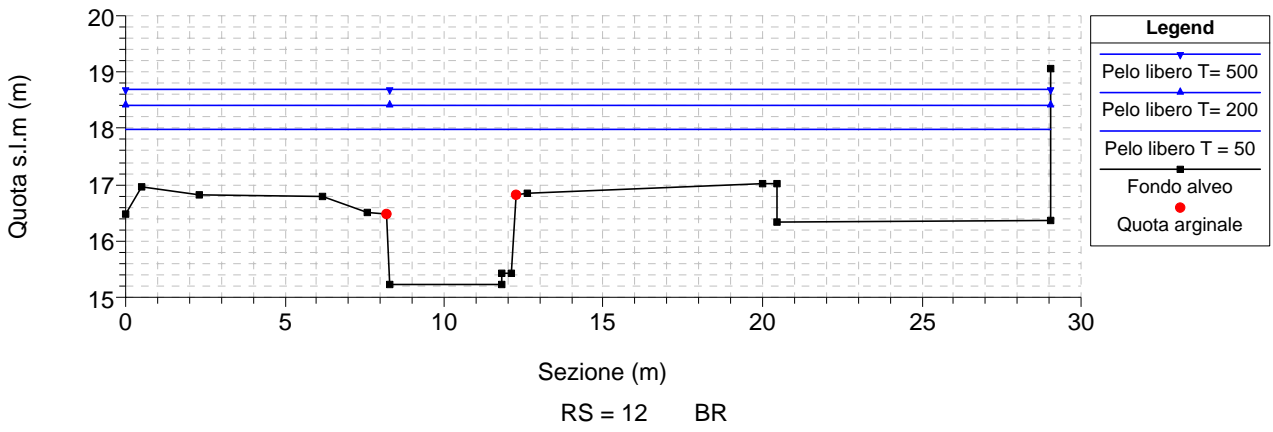
RS = 17



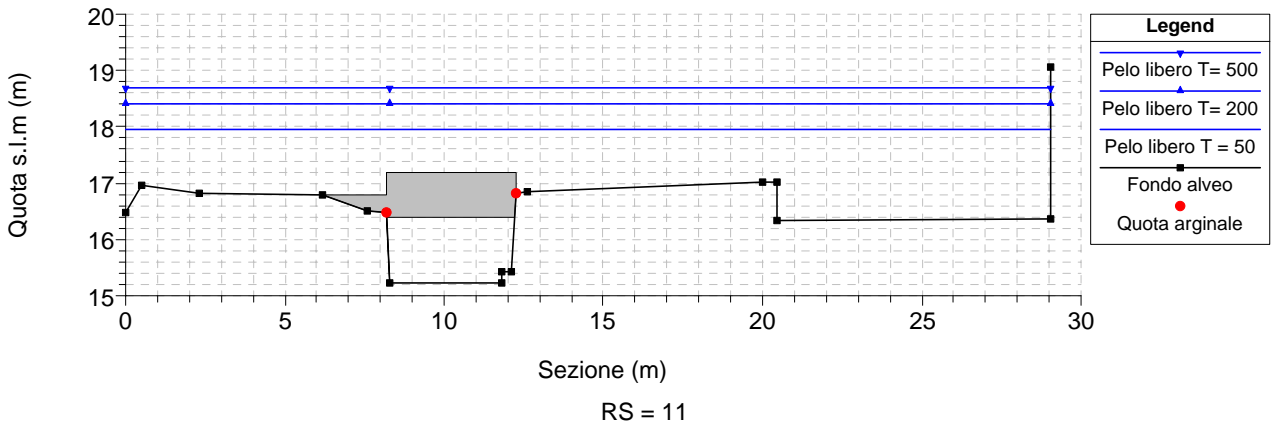
RS = 16



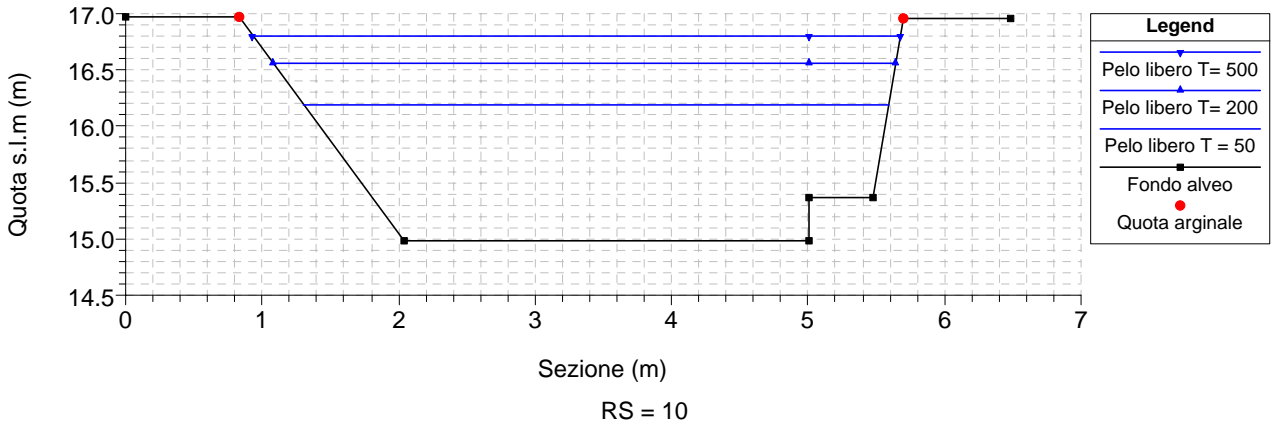
RS = 13



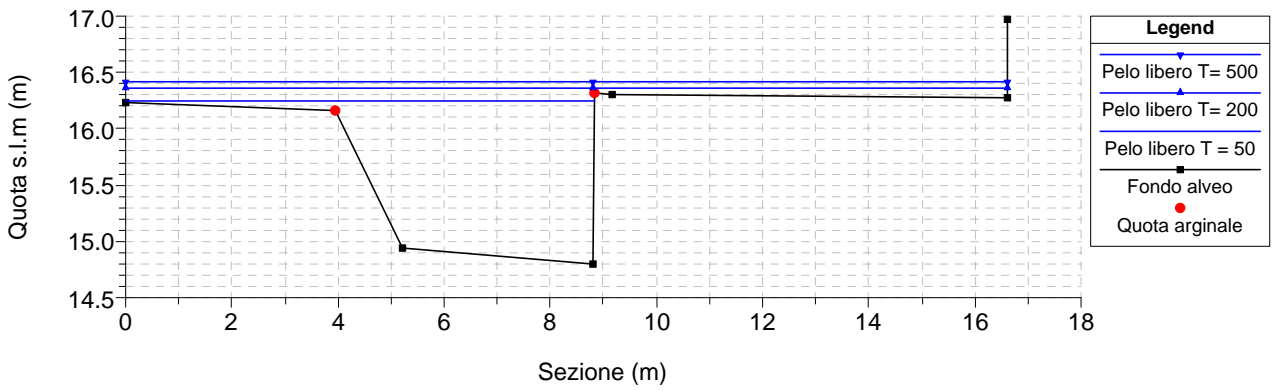
RS = 12 BR



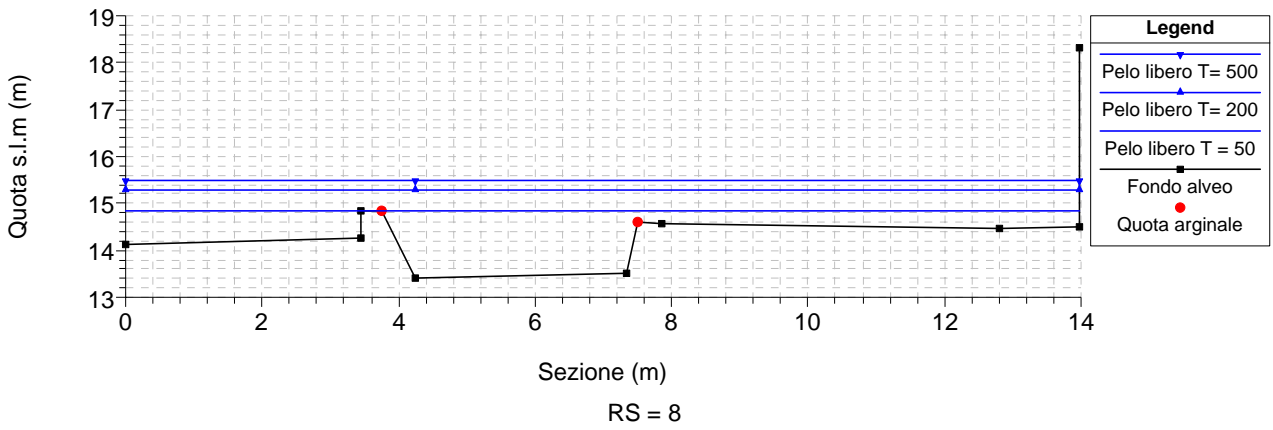
RS = 11



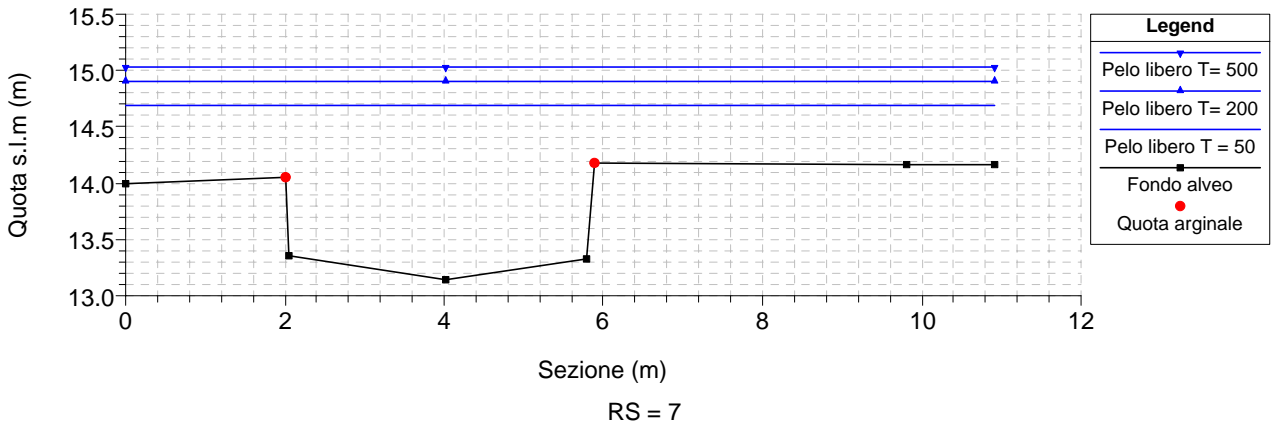
RS = 10



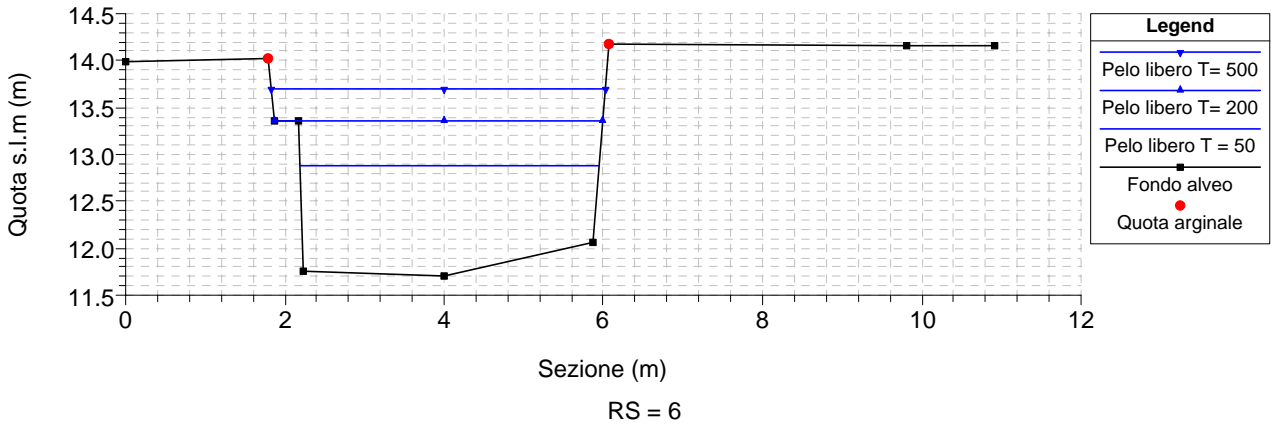
RS = 9



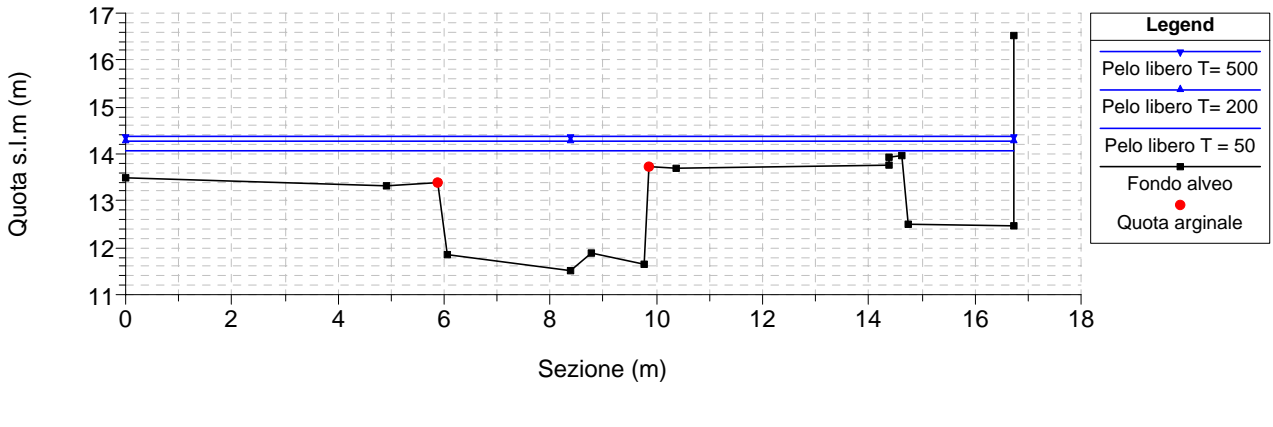
RS = 8



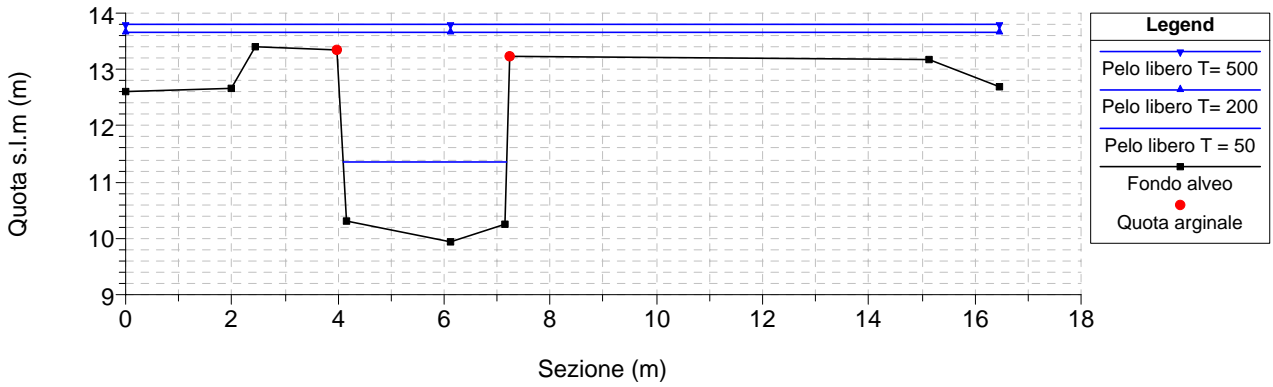
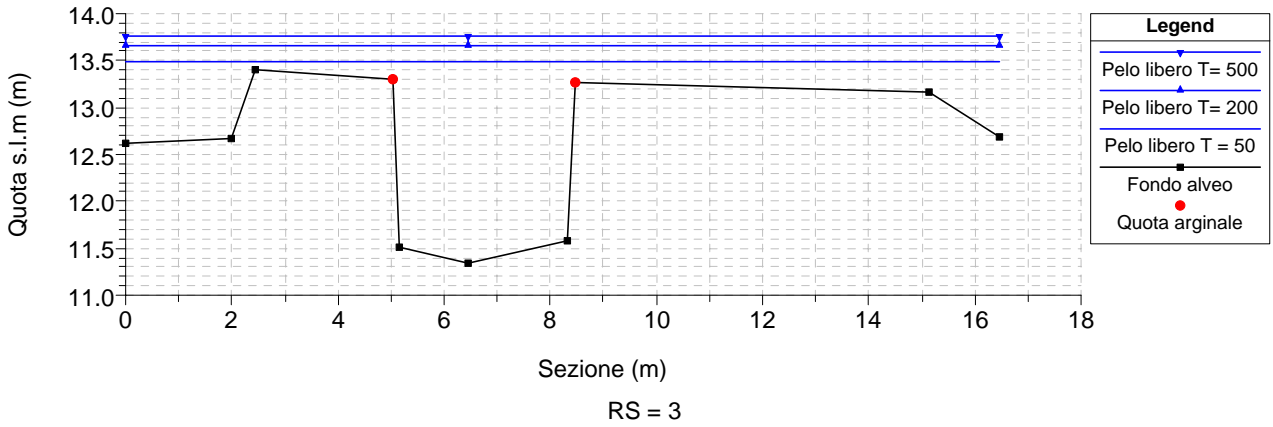
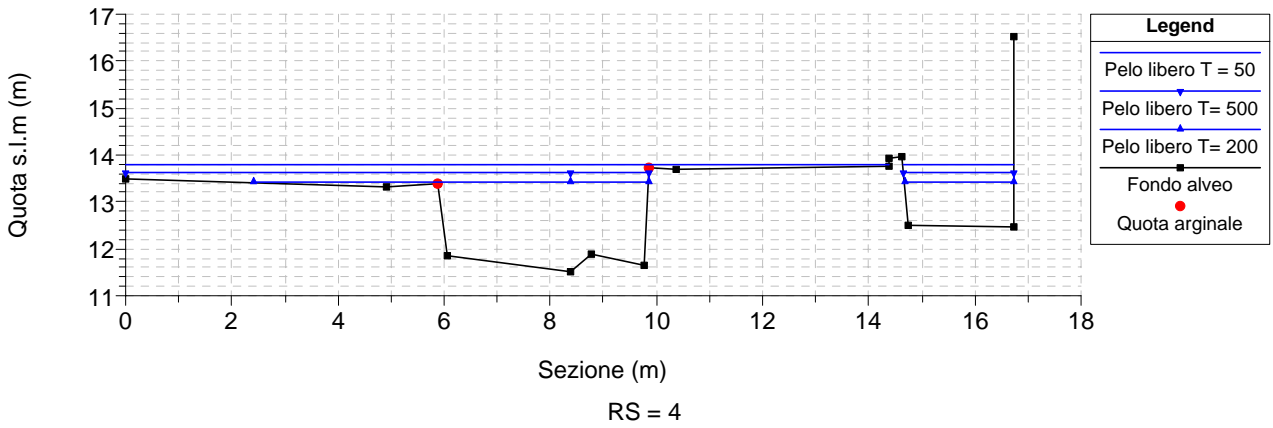
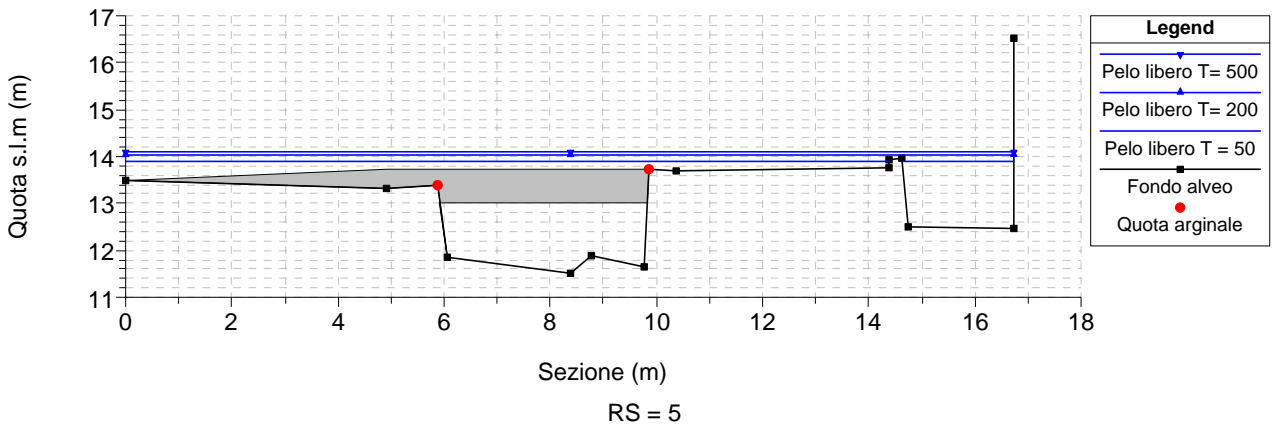
RS = 7



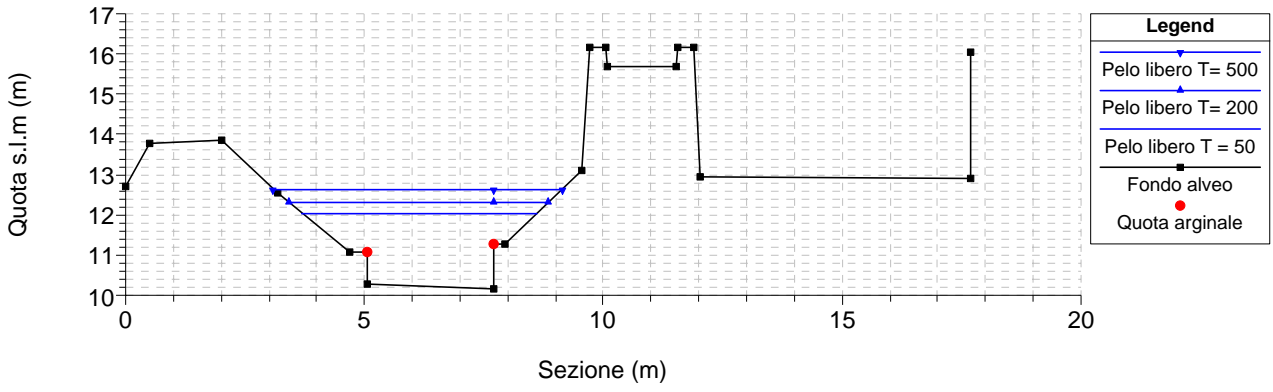
RS = 6



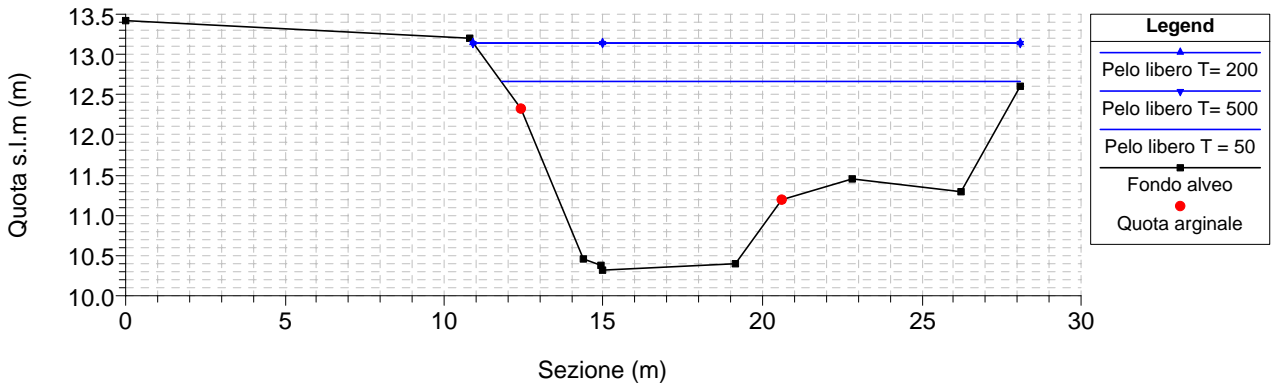
RS = 5.5 BR



RS = 2



RS = 1







**MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO  
PERMANENTE:  
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE  
PER LE PORTATE T=50, 200, 500 ANNI**

**RIO SAN GIOVANNI**



### Rio San Giovanni T=50 anni

Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
22	25	22.82	26.47	27.54	24.76	24.5	25.23	3.04	8.21	0.78
21	25	22.04	25.76	25.82	24.37	23.92	24.92	3.28	7.62	0.71
20.5	Bridge									
20	25	22.04	25.76	25.82	24.19	23.92	24.84	3.57	7	0.8
19	25	21.56	24.73	24.53	24.28	23.1	24.49	2.03	12.34	0.44
18.5	Bridge									
18	25	21.56	24.73	24.53	22.58	23.1	24.33	5.87	4.26	1.93
17	25	20.32	23.39	24	21.73	22.21	23.28	5.51	4.54	1.76
16	25	18.14	19.66	19.88	19.93	20.25	20.85	3.91	6.4	1.48
15.5	Bridge									
15	25	18.14	19.66	19.88	20.25	20.25	20.57	2.23	11.19	0.85
14	25	16.66	18.3	18	17.8	18.04	18.57	3.45	7.24	1.58
13	25	15.22	16.46	16.81	17.97	16.89	17.99	0.58	43.29	0.15
12	Bridge									
11	25	14.98	16.96	16.96	16.19	16.68	17.8	5.63	4.44	1.77
10	25	14.81	16.16	16.33	16.25	16.59	17.16	4.1	6.1	1.57
9	25	13.43	14.83	14.59	14.83	14.95	15.32	2.81	8.89	1.13
8	25	13.14	14.05	14.18	14.7	14.7	15.1	2.6	9.6	0.89
7	25	11.7	14.03	14.18	12.89	13.51	14.89	6.27	3.99	1.94
6	25	11.53	13.37	13.73	14.08	13.25	14.2	1.38	18.16	0.42
5.5	Bridge									
5	25	11.53	13.37	13.73	13.8	13.25	14.01	1.86	13.43	0.66
4	25	11.34	13.31	13.27	13.5	13.5	13.81	2.14	11.66	0.81
3	25	9.94	13.34	13.22	11.36	12.02	13.58	6.59	3.79	1.9
2	25	10.16	11.09	11.27	12.04	12.25	13	4.12	6.06	1.18
1	25	10.32	12.34	11.19	12.67	11.67	12.72	1	25.1	0.26

**Rio San Giovanni T=200 anni**

Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
22	35	22.82	26.47	27.54	25.61	24.86	25.94	2.58	13.57	0.66
21	35	22.04	25.76	25.82	25.18	24.36	25.71	3.22	10.88	0.65
20.5	Bridge									
20	35	22.04	25.76	25.82	25.08	24.36	25.65	3.35	10.44	0.69
19	35	21.56	24.73	24.53	25.26	23.46	25.34	1.11	31.54	0.34
18.5	Bridge									
18	35	21.56	24.73	24.53	22.78	23.46	25.12	6.78	5.16	2.04
17	35	20.32	23.39	24	21.97	22.58	23.92	6.18	5.66	1.83
16	35	18.14	19.66	19.88	20.07	20.42	21.25	4.23	8.27	1.85
15.5	Bridge									
15	35	18.14	19.66	19.88	20.31	20.42	20.83	2.9	12.07	1.07
14	35	16.66	18.3	18	17.94	18.25	18.78	3.65	9.59	1.52
13	35	15.22	16.46	16.81	18.41	17.01	18.43	0.62	56.07	0.14
12	Bridge									
11	35	14.98	16.96	16.96	16.56	17.14	18.24	5.75	6.09	1.59
10	35	14.81	16.16	16.33	16.36	16.76	17.69	4.6	7.61	2.17
9	35	13.43	14.83	14.59	15.3	15.11	15.58	2.28	15.37	0.69
8	35	13.14	14.05	14.18	14.9	14.9	15.41	2.96	11.81	0.91
7	35	11.7	14.03	14.18	13.36	13.91	15.22	6.04	5.8	1.63
6	35	11.53	13.37	13.73	14.26	13.79	14.42	1.66	21.1	0.47
5.5	Bridge									
5	35	11.53	13.37	13.73	13.41	13.79	14.34	4.09	8.55	1.38
4	35	11.34	13.31	13.27	13.66	13.66	14.04	2.43	14.42	0.83
3	35	9.94	13.34	13.22	13.67	12.47	13.89	1.87	18.69	0.56
2	35	10.16	11.09	11.27	12.32	12.66	13.56	4.66	7.51	1.27
1	35	10.32	12.34	11.19	13.14	11.86	13.2	1.06	32.97	0.24

**Rio San Giovanni T=500 anni**

Sezioni	Portata totale (m3/s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m2)	Velocità (m/s)	Area bagnata (m2)	N° Froude
22	42	22.82	26.47	27.54	25.9	25.09	26.24	2.59	16.23	0.62
21	42	22.04	25.76	25.82	25.27	24.77	25.98	3.72	11.28	0.73
20.5	Bridge									
20	42	22.04	25.76	25.82	25.05	24.77	25.9	4.07	10.32	0.84
19	42	21.56	24.73	24.53	25.35	23.7	25.45	1.23	34.03	0.36
18.5	Bridge									
18	42	21.56	24.73	24.53	23.05	23.7	25.24	6.56	6.4	1.78
17	42	20.32	23.39	24	22.17	22.81	24.21	6.33	6.64	1.77
16	42	18.14	19.66	19.88	20.15	20.52	21.43	4.42	9.5	1.82
15.5	Bridge									
15	42	18.14	19.66	19.88	20.36	20.52	21	3.24	12.98	1.15
14	42	16.66	18.3	18	18.7	18.34	18.8	1.34	31.38	0.44
13	42	15.22	16.46	16.81	18.7	17.18	18.72	0.65	64.37	0.14
12	Bridge									
11	42	14.98	16.96	16.96	16.8	17.35	18.53	5.82	7.21	1.51
10	42	14.81	16.16	16.33	16.42	16.86	18.02	4.93	8.51	2.2
9	42	13.43	14.83	14.59	15.48	15.22	15.77	2.35	17.9	0.66
8	42	13.14	14.05	14.18	15.03	15.03	15.6	3.18	13.21	0.92
7	42	11.7	14.03	14.18	13.7	14.51	15.44	5.84	7.19	1.43
6	42	11.53	13.37	13.73	14.38	13.85	14.57	1.81	23.15	0.49
5.5	Bridge									
5	42	11.53	13.37	13.73	13.62	13.85	14.5	3.82	10.99	1.27
4	42	11.34	13.31	13.27	13.76	13.76	14.18	2.62	16.05	0.85
3	42	9.94	13.34	13.22	13.82	13.52	14.05	1.99	21.07	0.56
2	42	10.16	11.09	11.27	12.64	13.11	13.8	4.48	9.37	1.15
1	42	10.32	12.34	11.19	13.14	11.97	13.23	1.27	32.97	0.29