



PROVINCIA DI SAVONA

Settore Difesa del Suolo e Tutela Ambientale

Servizio Piani di Bacino e Lavori Idraulici

VERIFICHE IDRAULICHE

Bacino: MOLINERO

Corso d'acqua: Rio Galletto

RIO GALLETTO

Tabelle delle grandezze idrauliche significative per le portate $T=50, 200, 500$ anni.

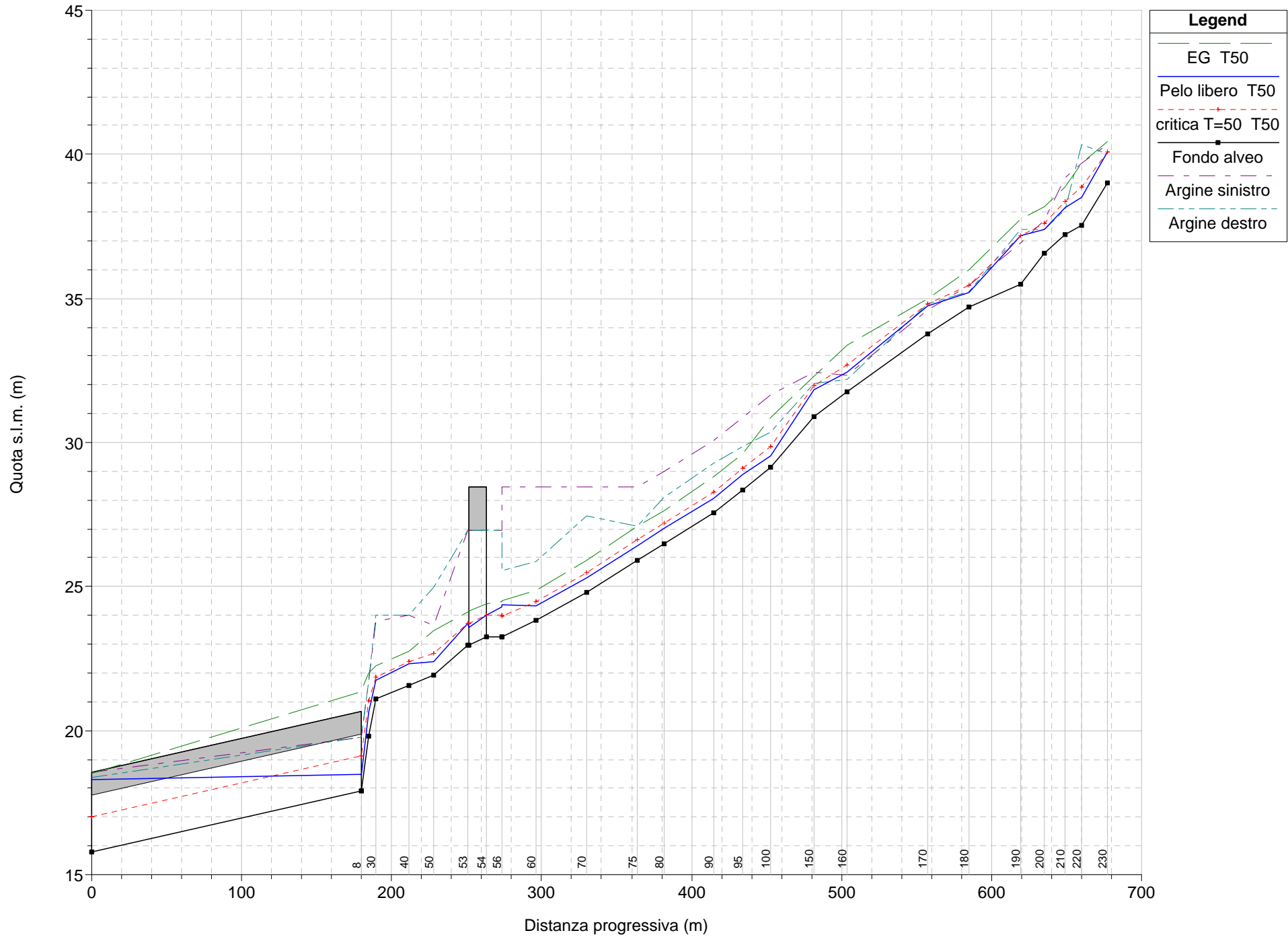
Geometria delle sezioni ed altezza del pelo libero in condizioni di moto permanente per le portate $t=50, 200, 500$ anni.

Profili di rigurgito in condizioni di moto permanente per le portate $t=50, 200, 500$ anni.

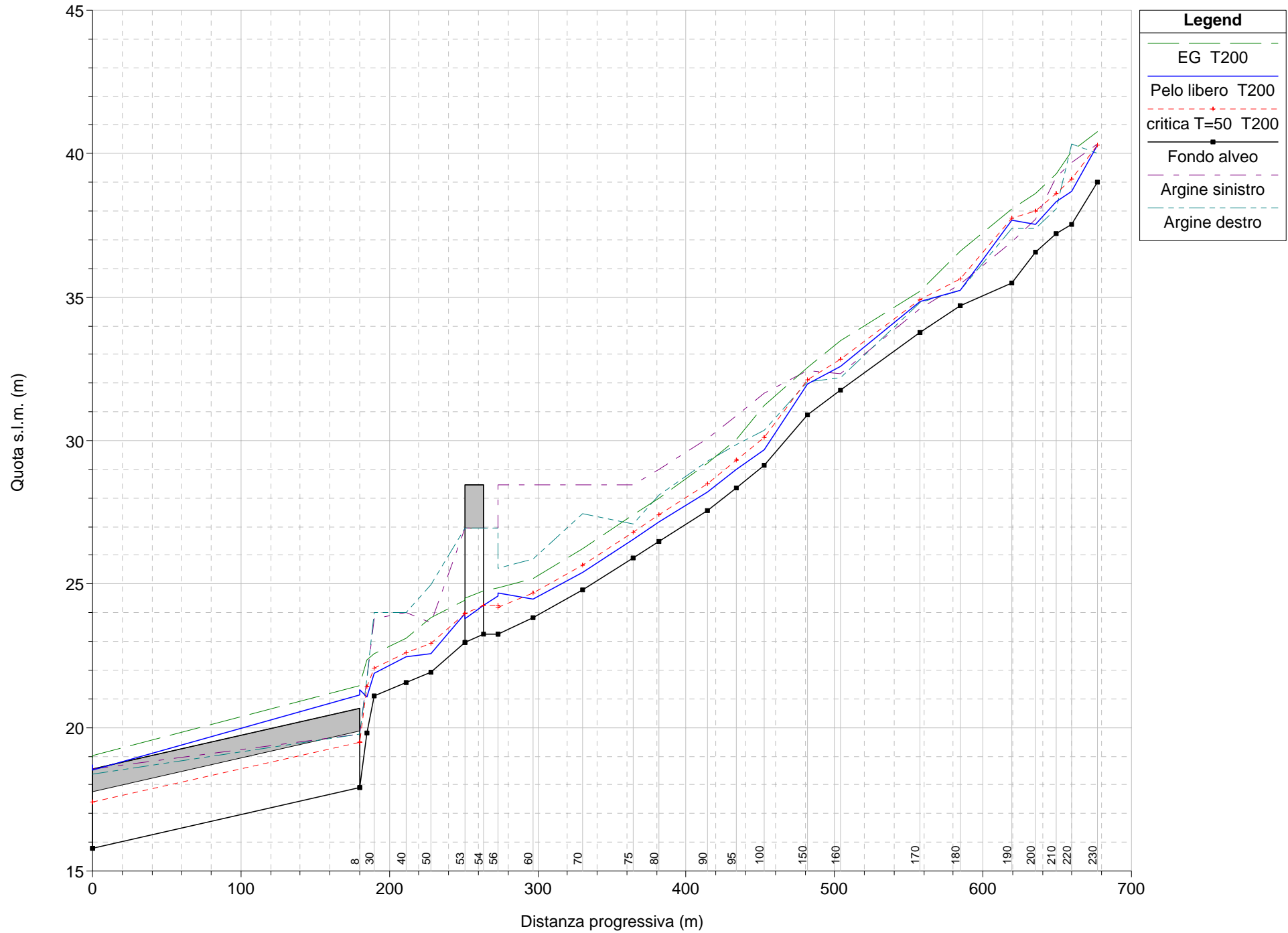
**PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO
PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI**

RIO GALLETTO

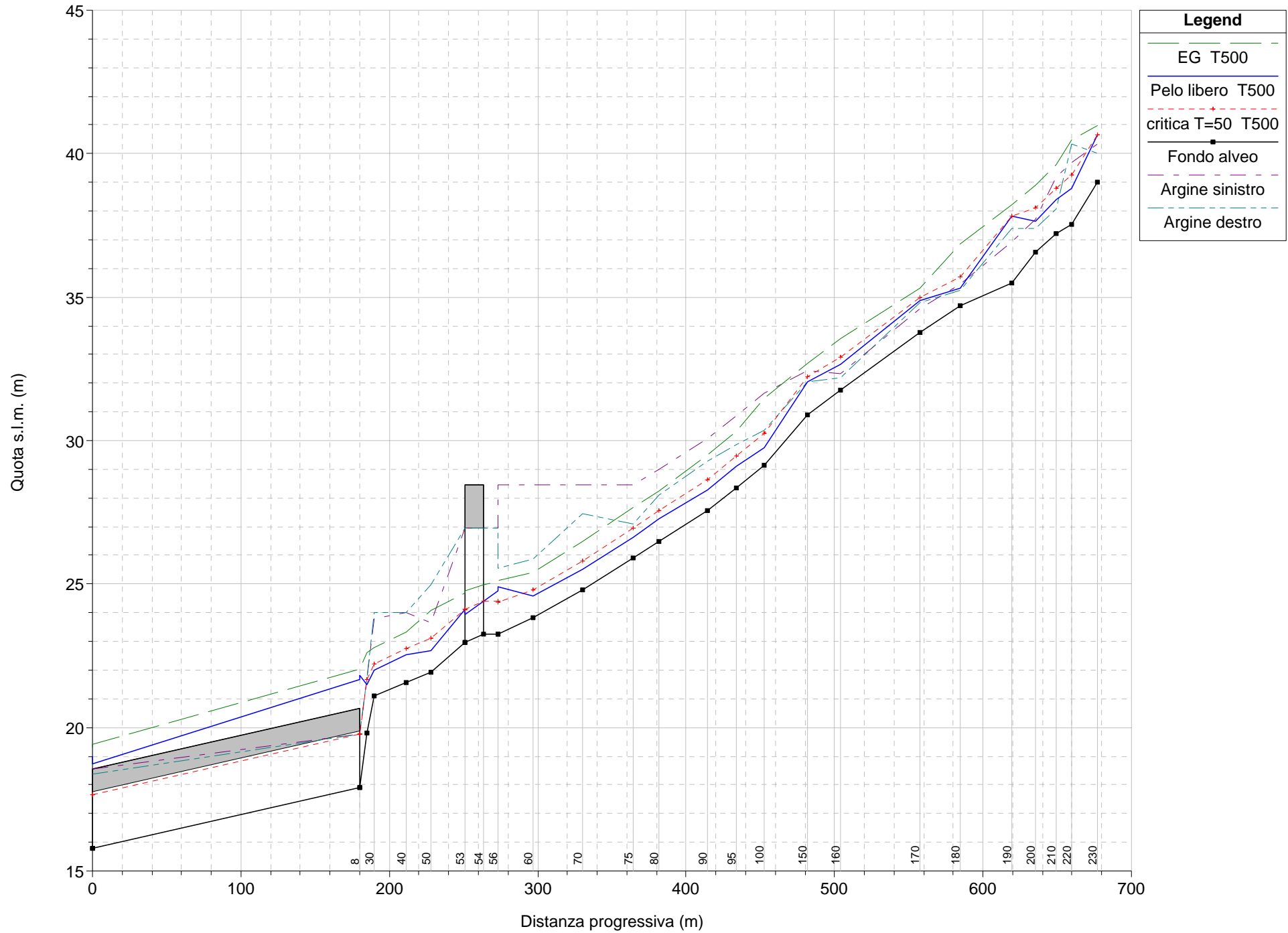
Rio Galletto – profilo longitudinale di moto permanente T=50 anni



Rio Galletto – profilo longitudinale di moto permanente T=200 anni



Rio Galletto – profilo longitudinale di moto permanente T=500 anni



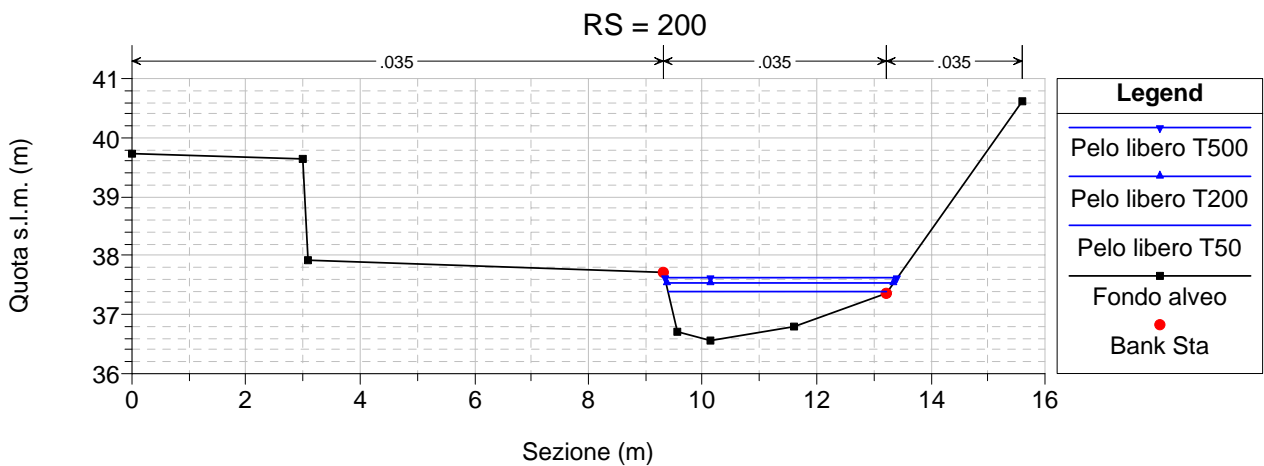
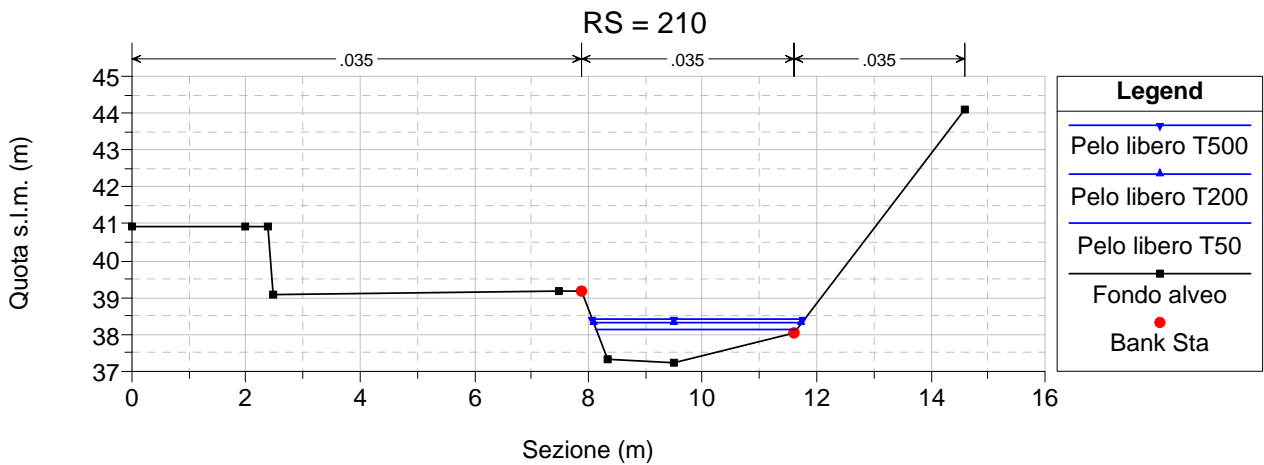
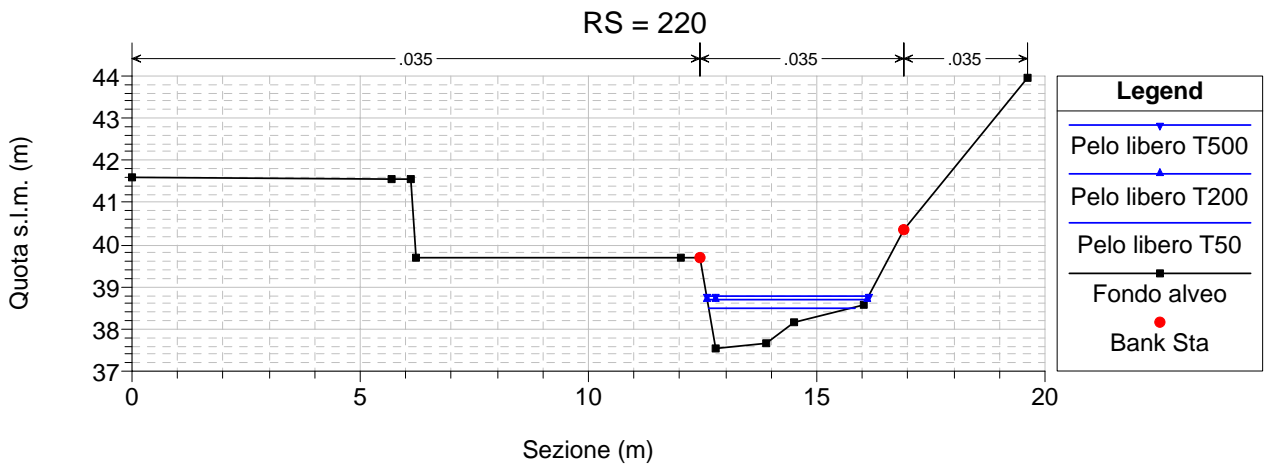
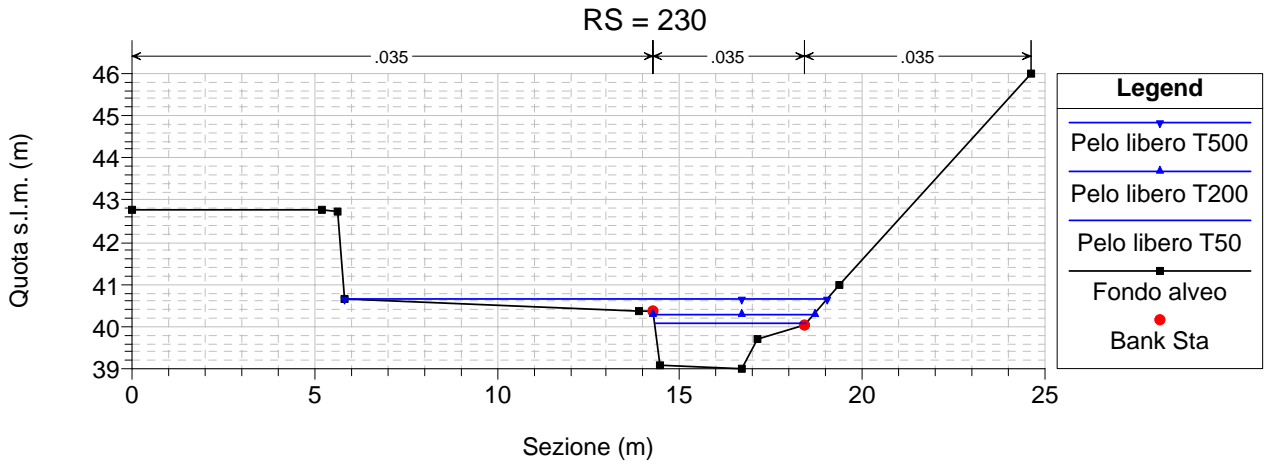
GEOMETRIA DELLE SEZIONI ED ALTEZZA DEL PELO
LIBERO IN CONDIZIONI DI MOTO PERMANENTE
PER LE PORTATE T=50, 200, 500 ANNI

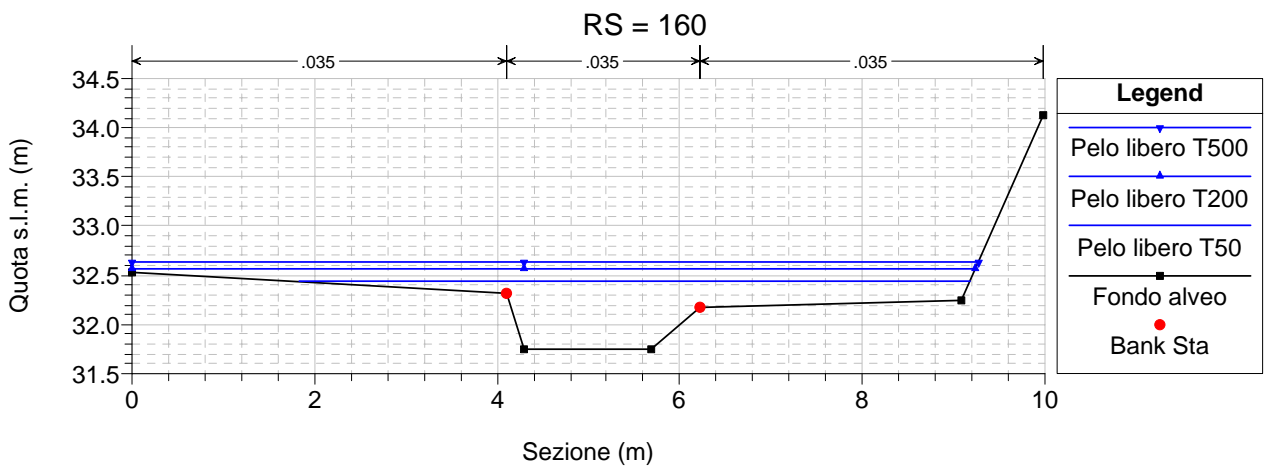
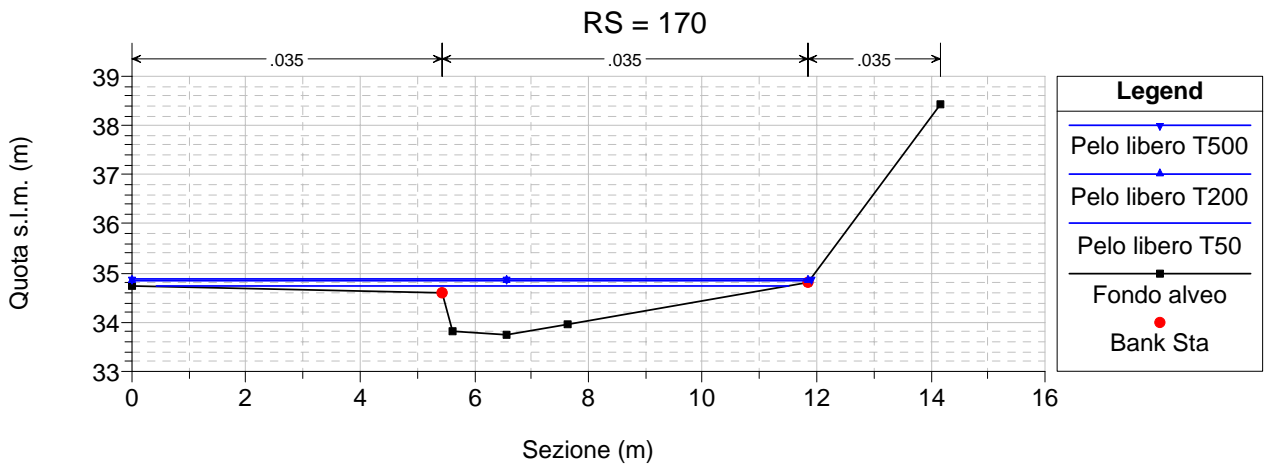
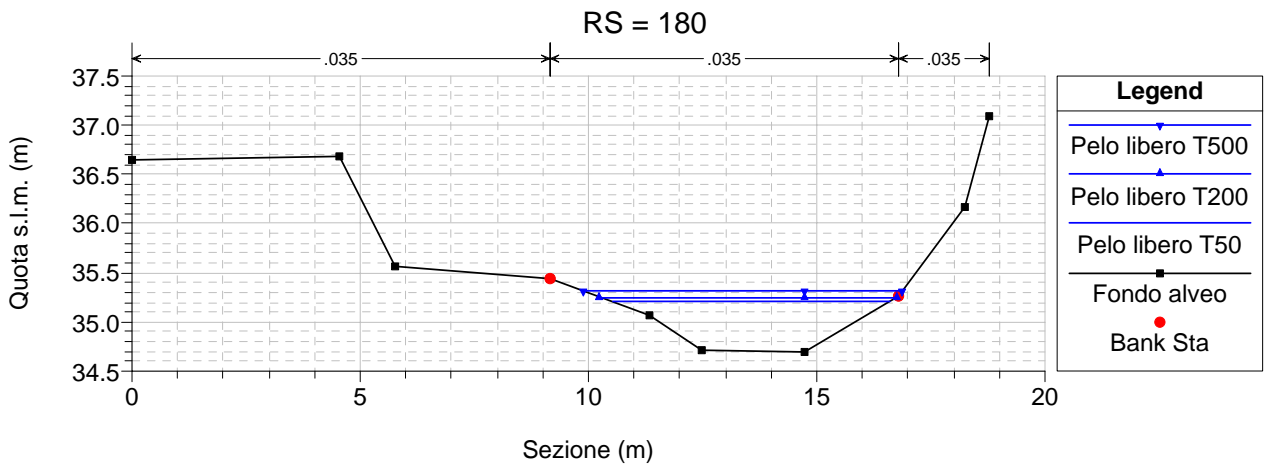
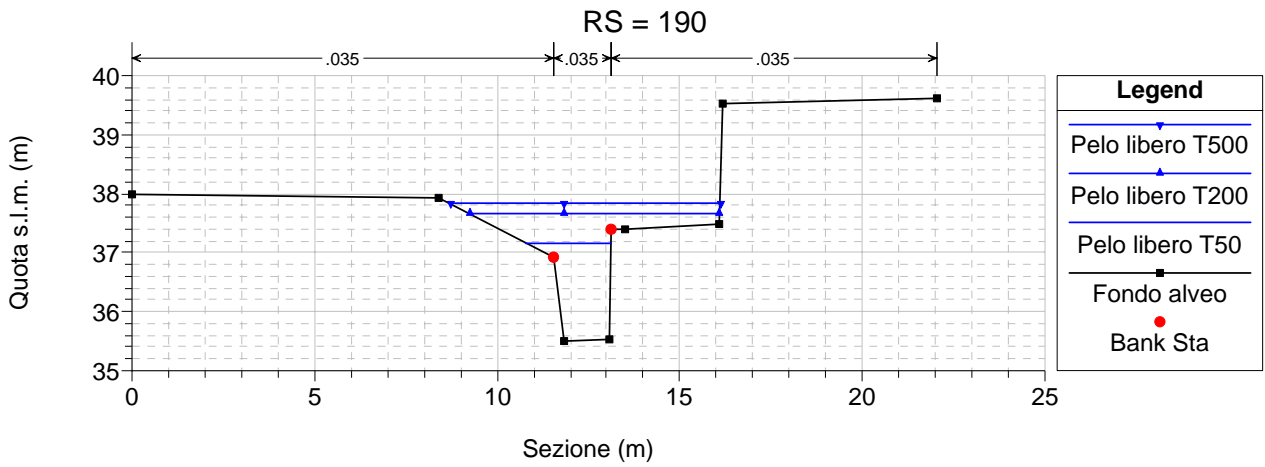
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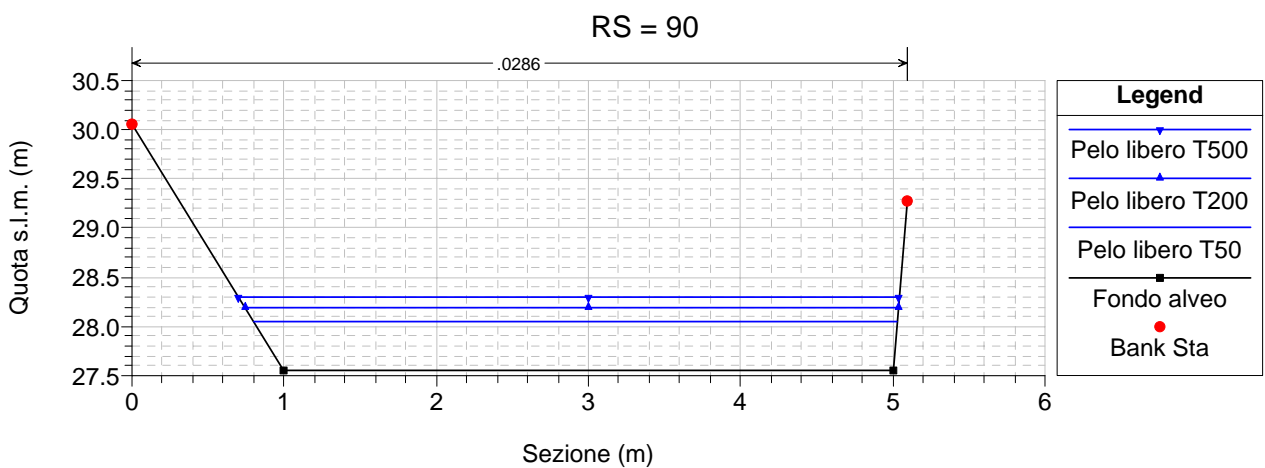
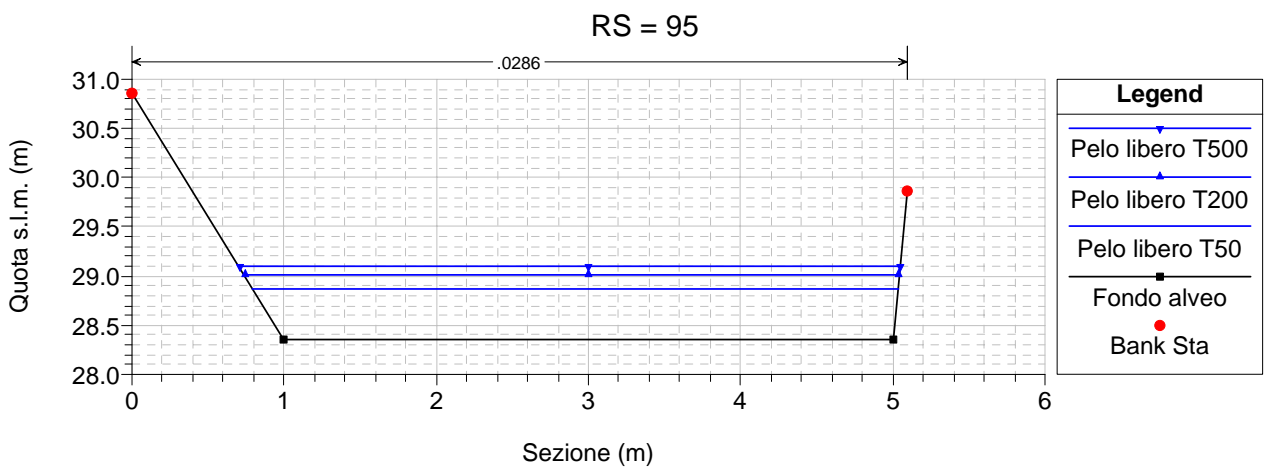
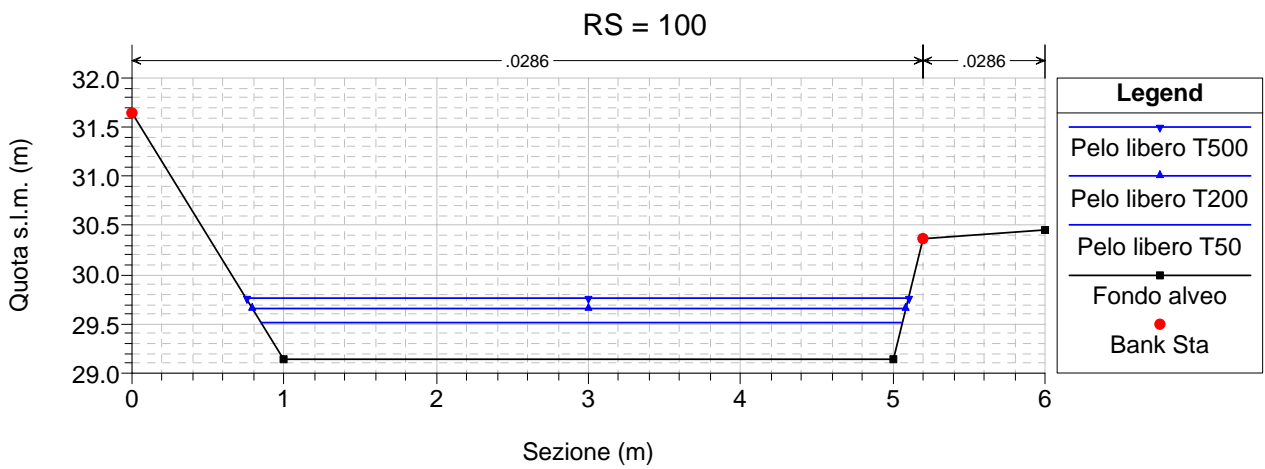
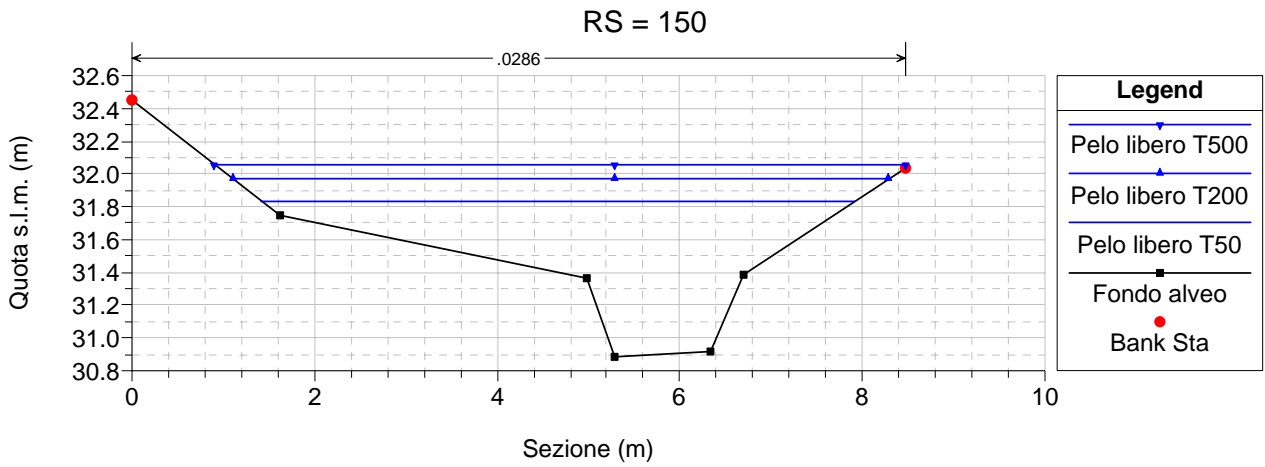
DALLA SEZ. 230
ALLA SEZ. 5

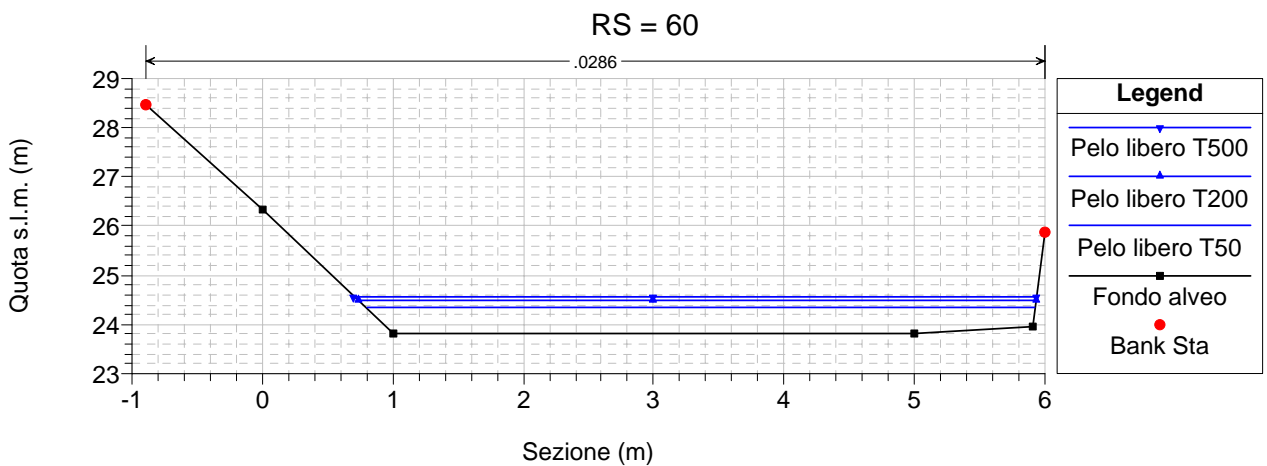
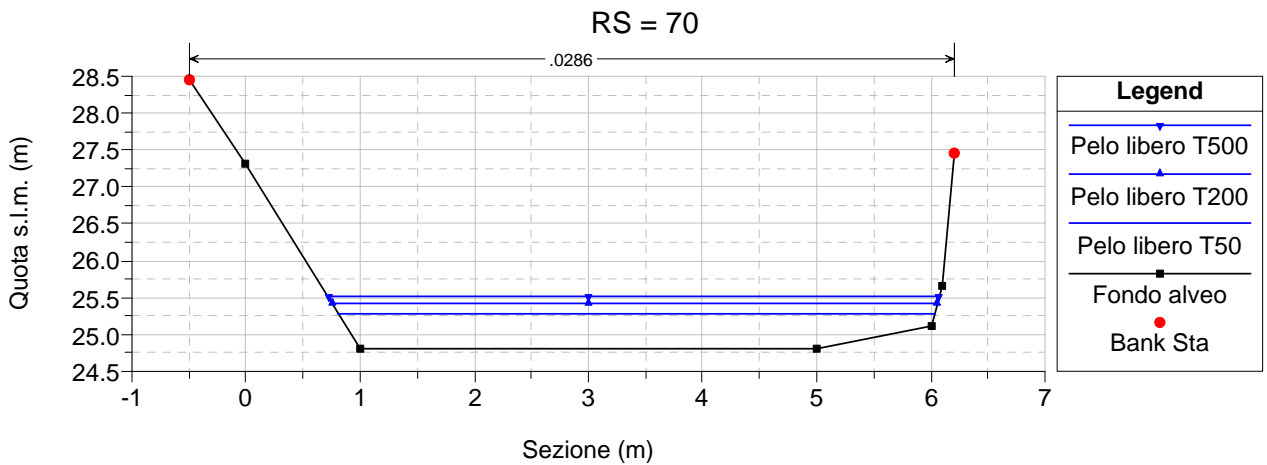
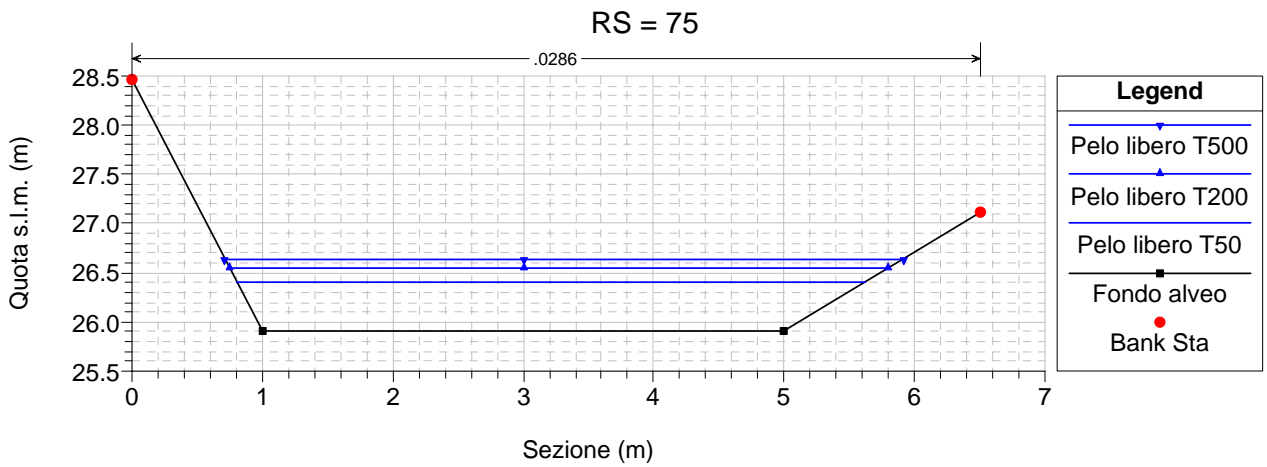
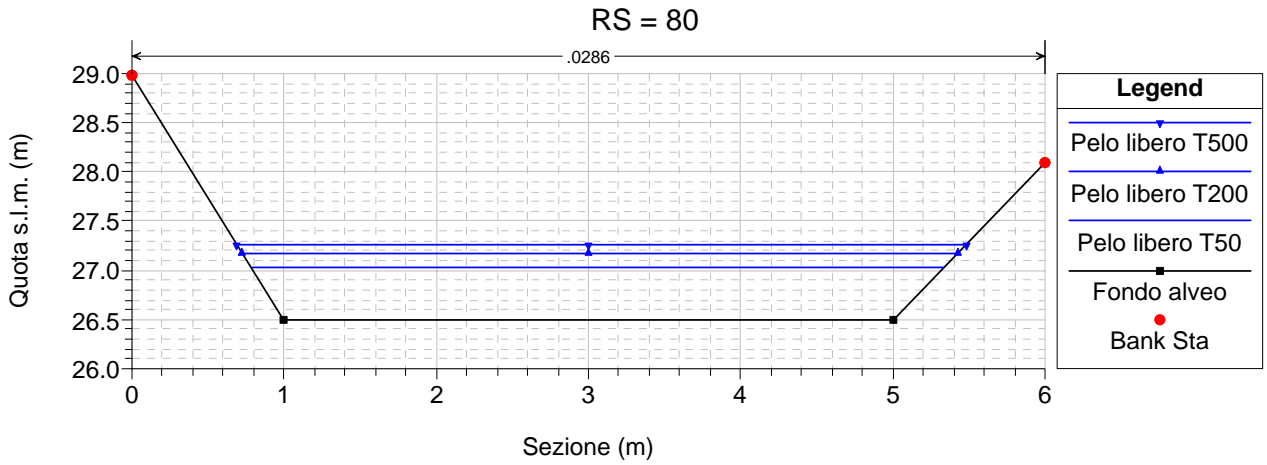
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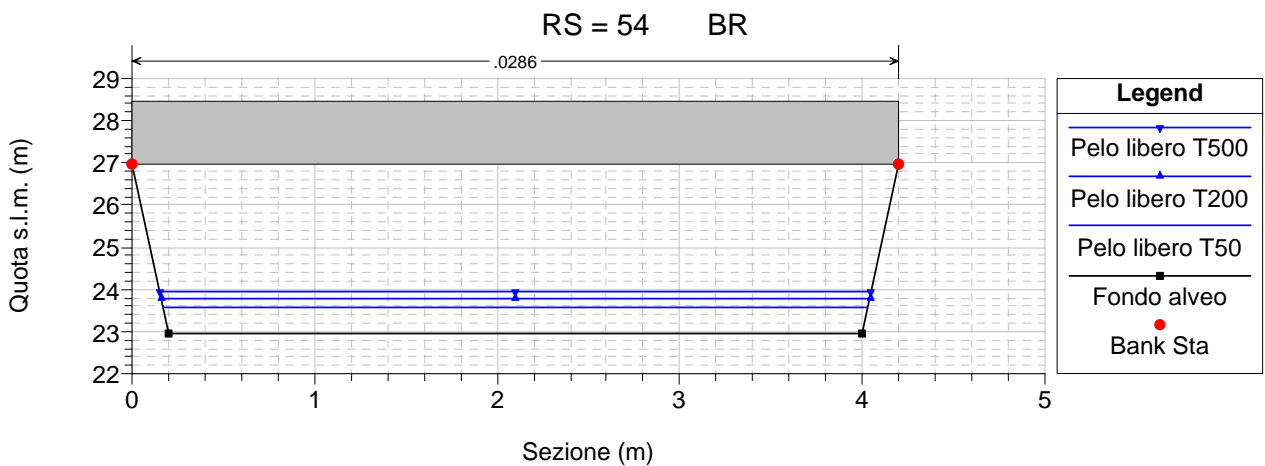
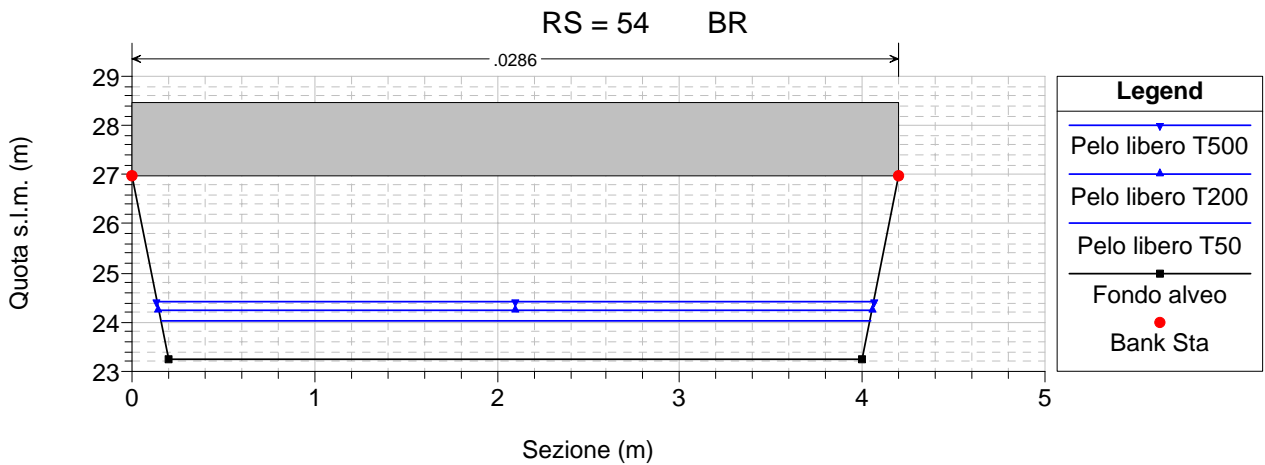
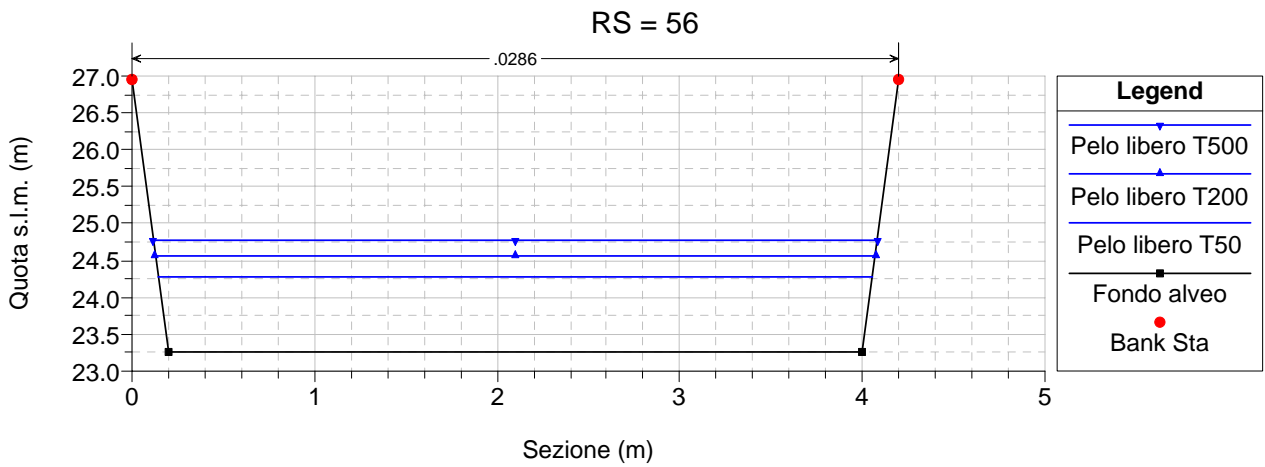
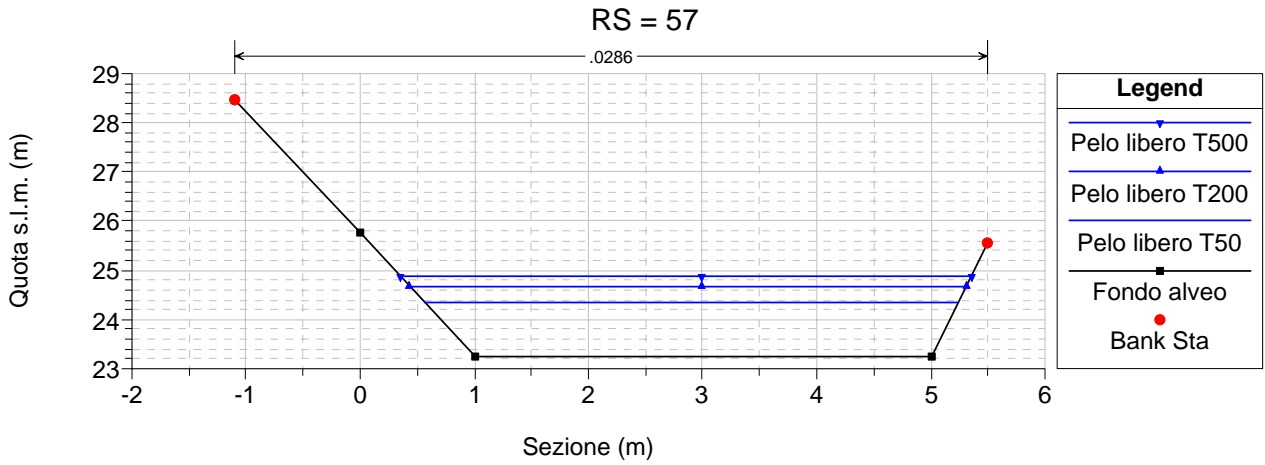
Sezioni trasversali

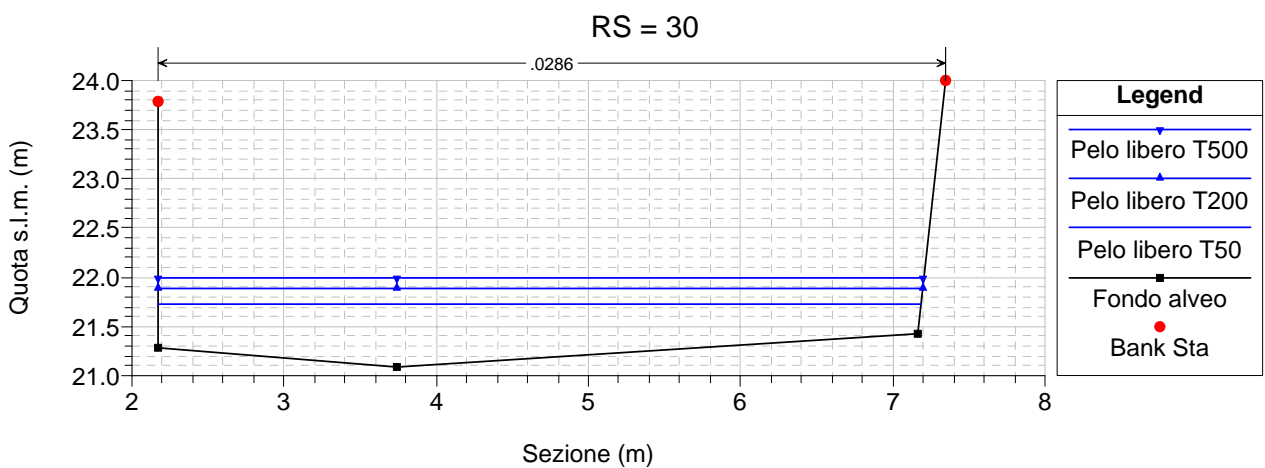
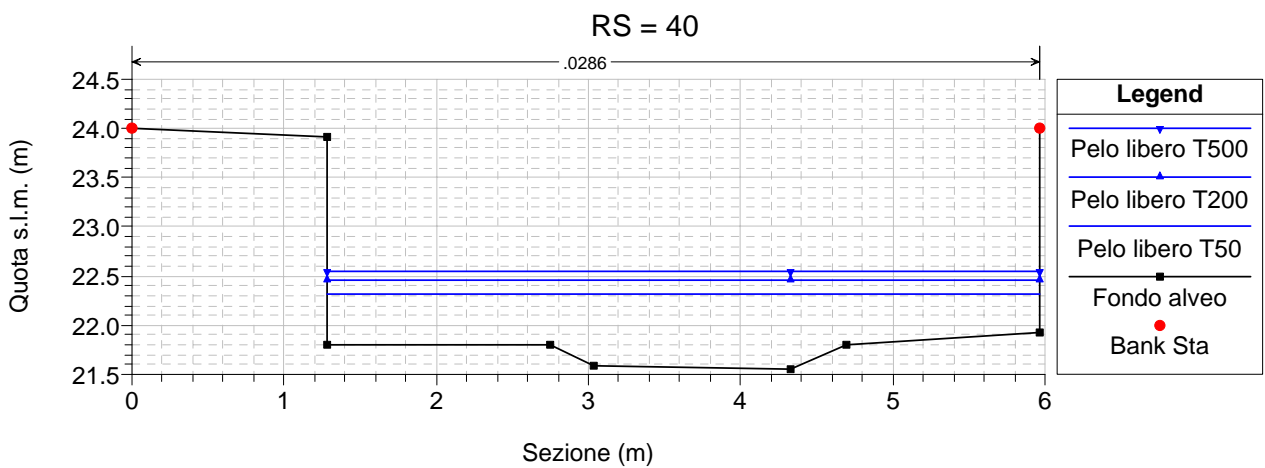
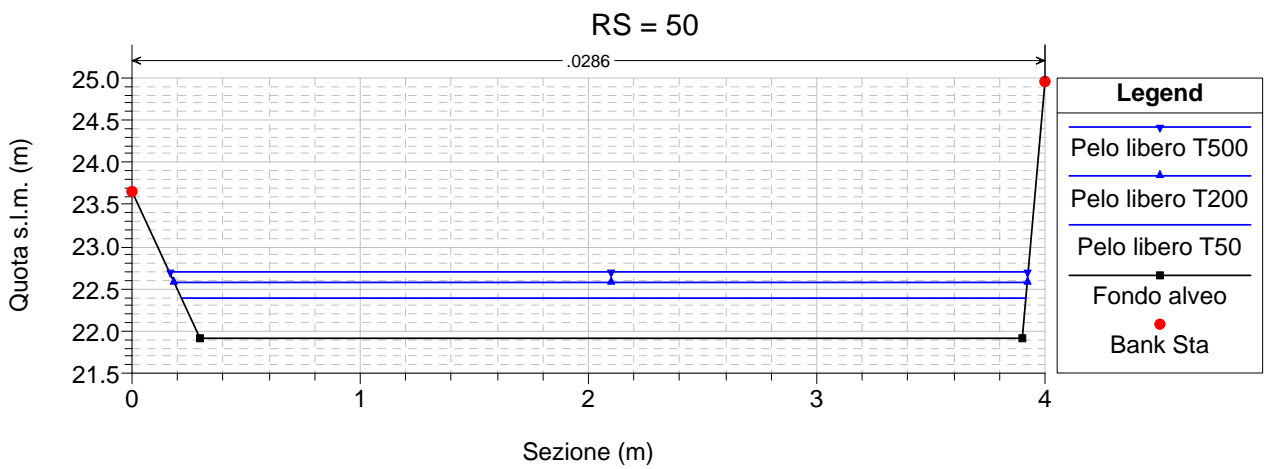
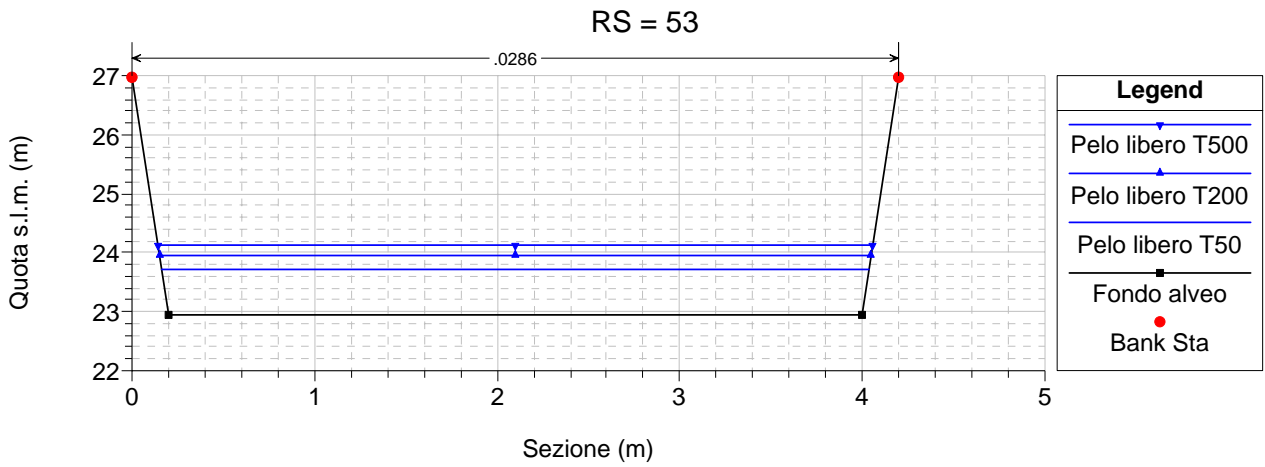


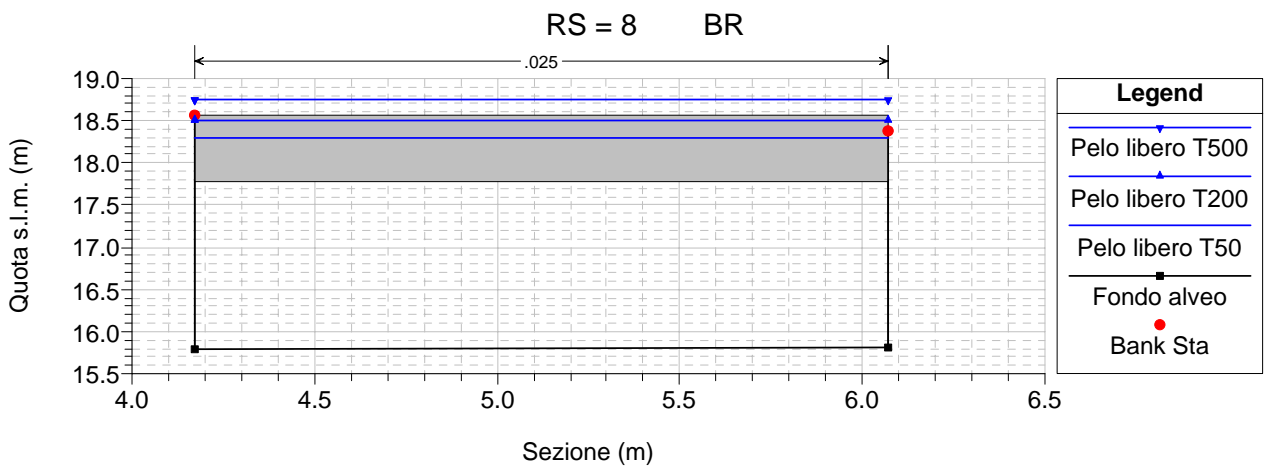
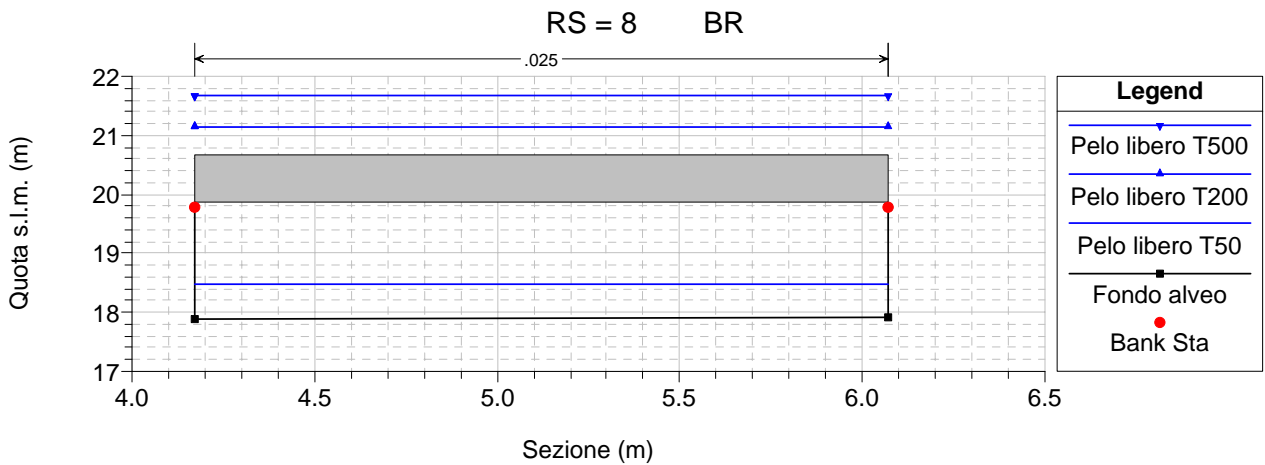
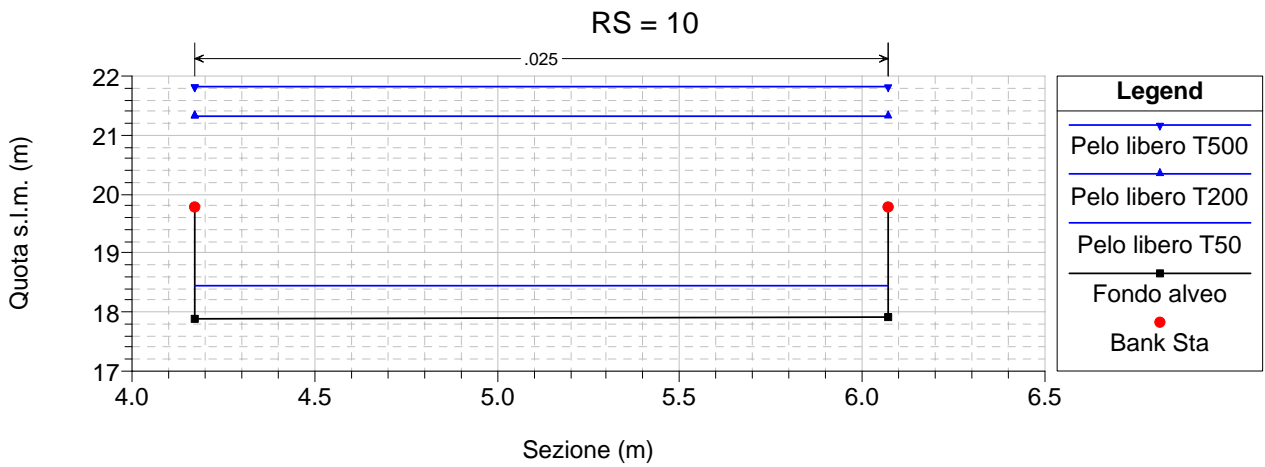
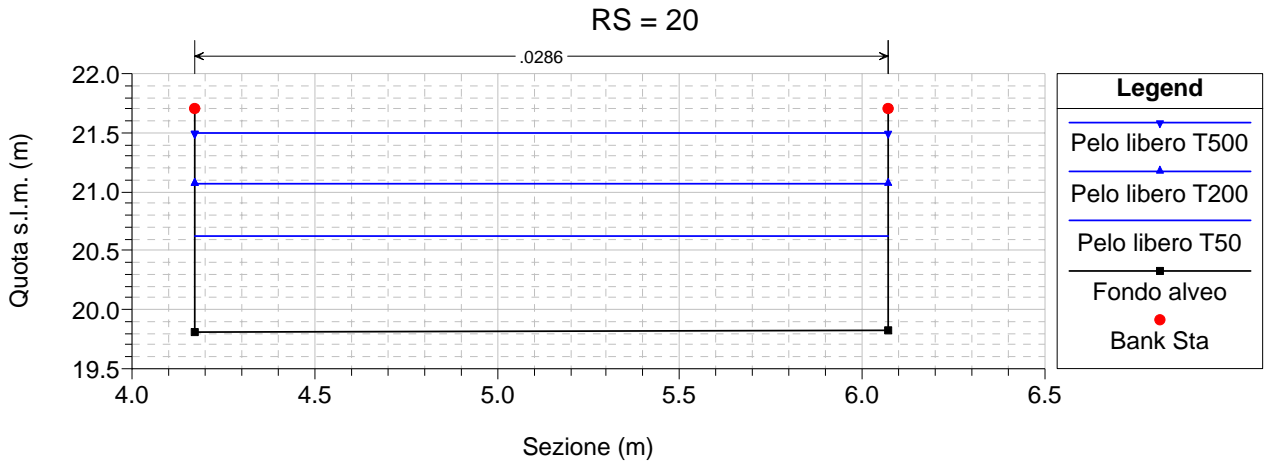


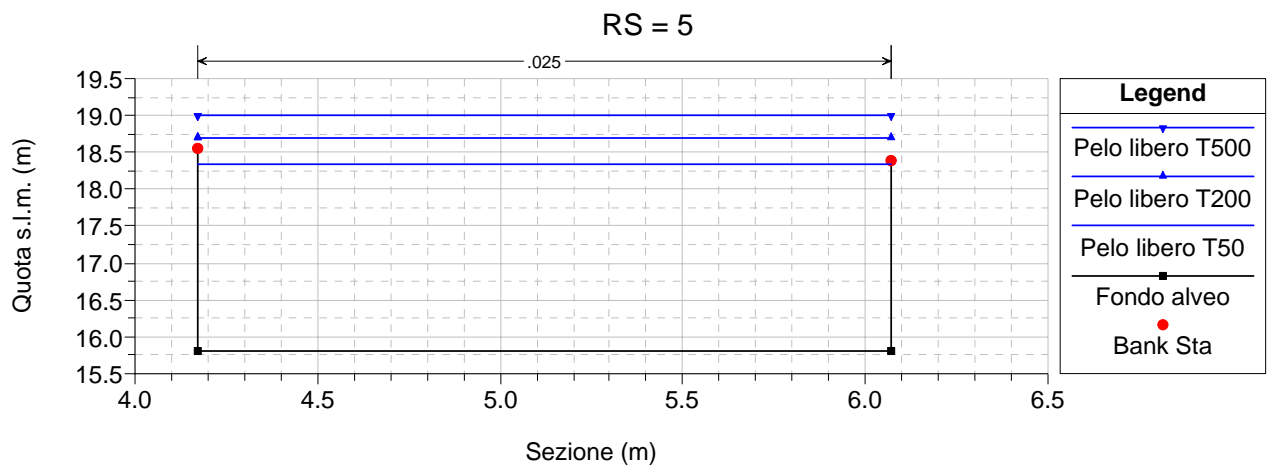












**MODELLAZIONE IDRAULICA IN CONDIZIONI DI MOTO
PERMANENTE:
TABELLE DELLE GRANDEZZE IDRAULICHE SIGNIFICATIVE
PER LE PORTATE T=50, 200, 500 ANNI**

RIO GALLETTTO

Rio Galletto T=50 anni

Sezioni	Portata totale (m ³ /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m ²)	N° Froude
230	8	39	40.35	40.02	40.07	40.07	40.44	2.69	2.97	1.01
220	8	37.53	39.69	40.34	38.51	38.85	39.7	4.83	1.66	2.15
210	8	37.22	39.18	38.06	38.14	38.35	38.86	3.78	2.12	1.54
200	8	36.56	37.71	37.37	37.38	37.62	38.19	3.97	2.02	1.74
190	8	35.51	36.91	37.4	37.16	37.16	37.73	3.38	2.43	0.89
180	8	34.7	35.44	35.26	35.2	35.44	36.01	3.98	2.01	2.21
170	8	33.76	34.61	34.8	34.74	34.79	34.99	2.27	3.78	0.96
160	8	31.74	32.32	32.17	32.44	32.69	33.38	4.7	2.07	1.92
150	8	30.89	32.45	32.04	31.84	31.97	32.3	3.01	2.65	1.5
100	8	29.14	31.64	30.36	29.52	29.87	30.86	5.12	1.56	2.69
95	8	28.36	30.86	29.86	28.87	29.09	29.61	3.8	2.11	1.72
90	8	27.55	30.06	29.28	28.05	28.28	28.83	3.91	2.05	1.8
80	8	26.49	28.99	28.09	27.03	27.21	27.64	3.47	2.3	1.56
75	8	25.91	28.46	27.11	26.41	26.61	27.08	3.61	2.22	1.7
70	8	24.81	28.46	27.46	25.29	25.47	25.91	3.48	2.3	1.67
60	8	23.83	28.46	25.86	24.33	24.48	24.87	3.25	2.46	1.49
57	8	23.26	28.46	25.56	24.35	23.99	24.5	1.69	4.74	0.53
56	8	23.25	26.96	26.96	24.29	24.01	24.49	2	4	0.63
54	Bridge									
53	8	22.96	26.96	26.96	23.72	23.72	24.1	2.74	2.92	1.01
50	8	21.91	23.66	24.96	22.39	22.7	23.46	4.58	1.75	2.12
40	8	21.55	24	24.01	22.33	22.4	22.76	2.9	2.75	1.21
30	8	21.09	23.79	24	21.73	21.87	22.26	3.23	2.48	1.46
20	8	19.81	21.7	21.7	20.63	21.03	21.99	5.18	1.54	1.83
10	8	17.9	19.79	19.79	18.46	19.12	21.39	7.58	1.06	3.25
8	Bridge									
5	8	15.8	18.56	18.38	18.35	17.02	18.49	1.65	4.84	0.33

Rio Galletto T=200 anni

Sezioni	Portata totale (m ³ /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m ²)	N° Froude
230	12	39	40.35	40.02	40.3	40.3	40.77	3.06	3.95	1
220	12	37.53	39.69	40.34	38.7	39.11	40.07	5.2	2.31	2.04
210	12	37.22	39.18	38.06	38.31	38.6	39.29	4.39	2.75	1.59
200	12	36.56	37.71	37.37	37.54	38	38.61	4.59	2.62	1.78
190	12	35.51	36.91	37.4	37.66	37.73	38.06	3.03	4.63	0.69
180	12	34.7	35.44	35.26	35.25	35.63	36.62	5.17	2.32	2.77
170	12	33.76	34.61	34.8	34.83	34.92	35.19	2.73	4.89	1.1
160	12	31.74	32.32	32.17	32.57	32.82	33.47	4.79	3.2	1.78
150	12	30.89	32.45	32.04	31.97	32.13	32.54	3.35	3.58	1.51
100	12	29.14	31.64	30.36	29.66	30.09	31.23	5.54	2.17	2.49
95	12	28.36	30.86	29.86	29.01	29.31	30.03	4.48	2.68	1.81
90	12	27.55	30.06	29.28	28.19	28.5	29.22	4.49	2.67	1.82
80	12	26.49	28.99	28.09	27.17	27.42	28	4.04	2.97	1.62
75	12	25.91	28.46	27.11	26.55	26.82	27.42	4.14	2.9	1.75
70	12	24.81	28.46	27.46	25.42	25.66	26.25	4.03	2.98	1.71
60	12	23.83	28.46	25.86	24.48	24.68	25.19	3.75	3.2	1.52
57	12	23.26	28.46	25.56	24.68	24.2	24.86	1.91	6.29	0.54
56	12	23.25	26.96	26.96	24.57	24.25	24.85	2.34	5.12	0.66
54	Bridge									
53	12	22.96	26.96	26.96	23.96	23.96	24.45	3.12	3.84	1
50	12	21.91	23.66	24.96	22.57	22.94	23.82	4.96	2.42	1.97
40	12	21.55	24	24.01	22.46	22.61	23.1	3.56	3.37	1.34
30	12	21.09	23.79	24	21.89	22.07	22.57	3.66	3.28	1.45
20	12	19.81	21.7	21.7	21.07	21.41	22.36	5.02	2.39	1.43
10	12	17.9	19.79	19.79	21.31	19.5	21.49	1.85	6.47	0.32
8	Bridge									
5	12	15.8	18.56	18.38	18.7	17.4	18.94	2.18	5.5	0.41

Rio Galletto T=500 anni

Sezioni	Portata totale (m ³ /s)	Fondo alveo (m)	Argine sinistro (m)	Argine destro (m)	Pelo libero (m)	Profondità critica (m)	Energia (m)	Velocità (m/s)	Area bagnata (m ²)	N° Froude
230	15	39	40.35	40.02	40.67	40.67	40.96	2.52	7.04	0.7
220	15	37.53	39.69	40.34	38.78	39.27	40.48	5.78	2.6	2.16
210	15	37.22	39.18	38.06	38.41	38.78	39.61	4.85	3.12	1.65
200	15	36.56	37.71	37.37	37.64	38.11	38.9	4.98	3.03	1.81
190	15	35.51	36.91	37.4	37.83	37.84	38.21	3.01	5.83	0.66
180	15	34.7	35.44	35.26	35.31	35.72	36.86	5.51	2.73	2.8
170	15	33.76	34.61	34.8	34.89	35	35.32	3.04	5.54	1.17
160	15	31.74	32.32	32.17	32.64	32.9	33.55	4.89	3.9	1.73
150	15	30.89	32.45	32.04	32.06	32.24	32.7	3.53	4.25	1.5
100	15	29.14	31.64	30.36	29.76	30.24	31.46	5.77	2.6	2.38
95	15	28.36	30.86	29.86	29.1	29.46	30.31	4.87	3.08	1.85
90	15	27.55	30.06	29.28	28.3	28.65	29.48	4.83	3.11	1.82
80	15	26.49	28.99	28.09	27.27	27.56	28.25	4.38	3.42	1.66
75	15	25.91	28.46	27.11	26.64	26.95	27.66	4.47	3.36	1.77
70	15	24.81	28.46	27.46	25.51	25.79	26.47	4.35	3.45	1.73
60	15	23.83	28.46	25.86	24.57	24.81	25.41	4.05	3.7	1.54
57	15	23.26	28.46	25.56	24.9	24.35	25.11	2.03	7.39	0.53
56	15	23.25	26.96	26.96	24.77	24.41	25.1	2.55	5.88	0.67
54	Bridge									
53	15	22.96	26.96	26.96	24.12	24.12	24.69	3.36	4.46	1
50	15	21.91	23.66	24.96	22.7	23.11	24.07	5.19	2.89	1.89
40	15	21.55	24	24.01	22.55	22.75	23.34	3.95	3.8	1.4
30	15	21.09	23.79	24	21.99	22.2	22.79	3.96	3.79	1.46
20	15	19.81	21.7	21.7	21.49	21.66	22.62	4.71	3.19	1.16
10	15	17.9	19.79	19.79	21.83	19.76	22.04	2.01	7.46	0.32
8	Bridge									
5	15	15.8	18.56	18.38	19	17.65	19.31	2.47	6.07	0.44