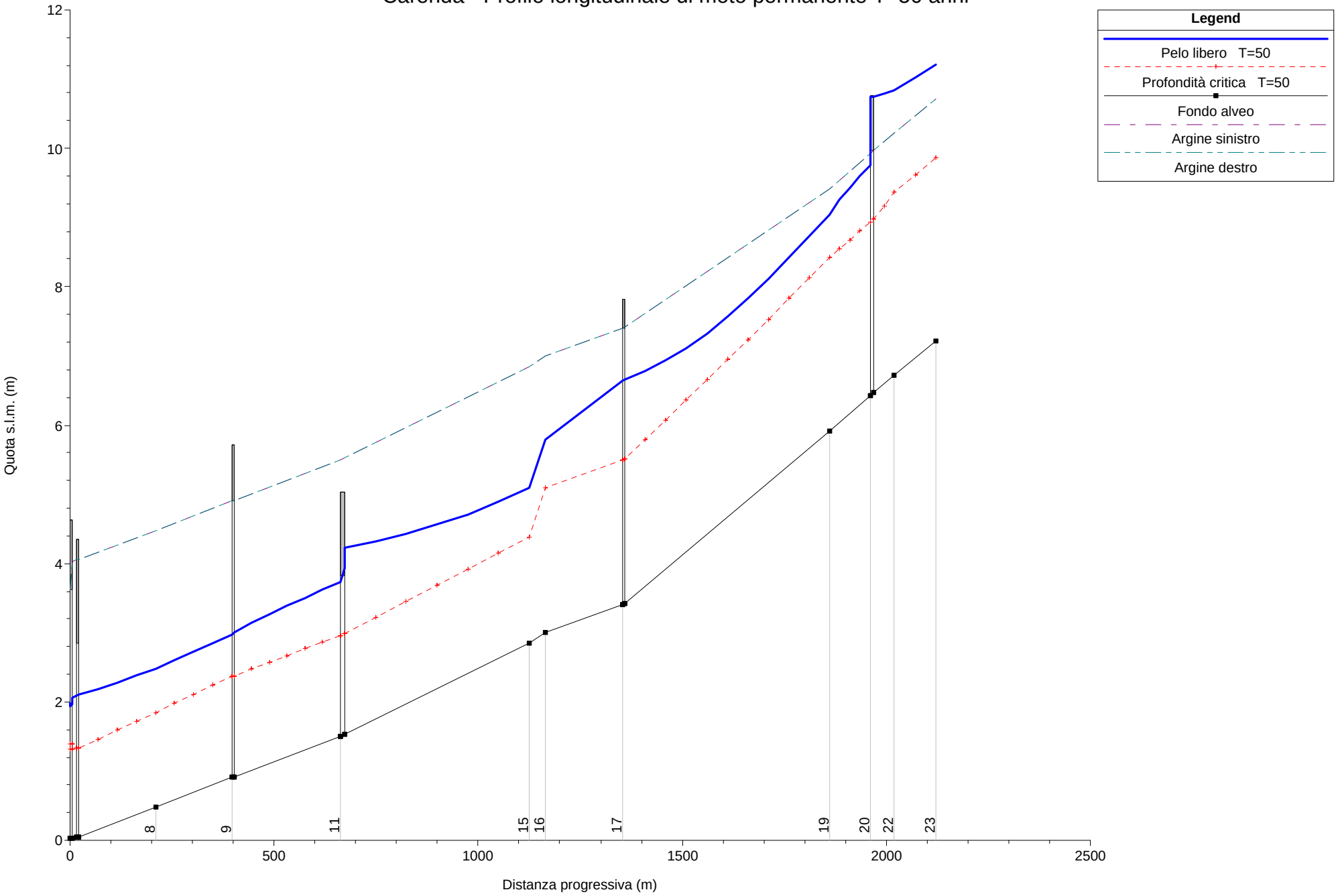
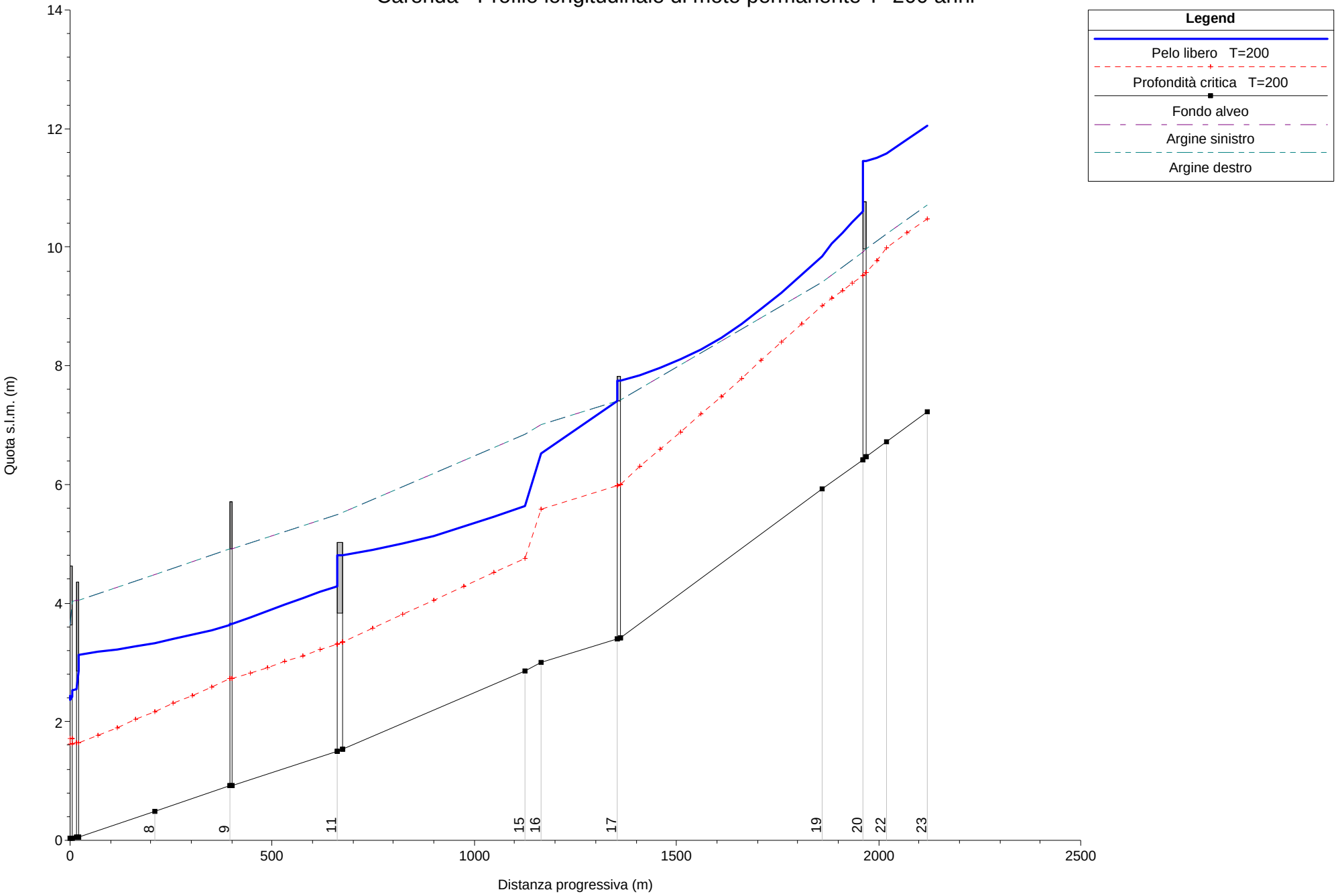
PROFILI DI RIGURGITO IN CONDIZIONI DI MOTO PERMANENTE PER LE PORTATE T=50, 200, 500 ANNI

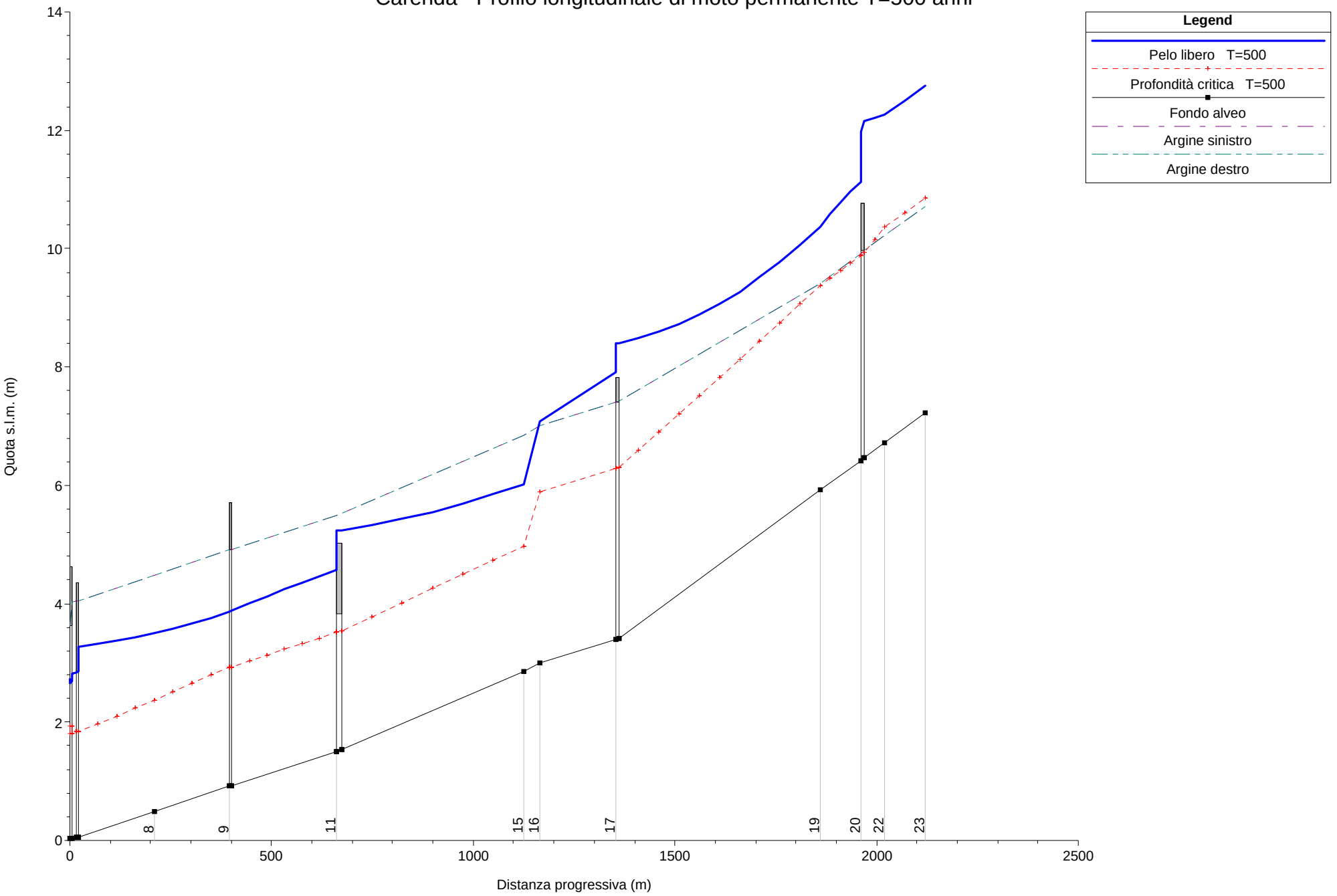
CARENDA

Carenda - Profilo longitudinale di moto permanente T=50 anni



Carenda - Profilo longitudinale di moto permanente T=200 anni




Carenda - Profilo longitudinale di moto permanente T=500 anni
Legend
Pelo libero T=500
Profondità critica T=500
Fondo alveo
Argine sinistro
Argine destro
Quota s.l.m. (m)
Distanza progressiva (m)
0
2
4
6
8
10
12
14
0
500
1000
1500
2000
2500
8
9
11
15
16
17
19
20
22
23

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

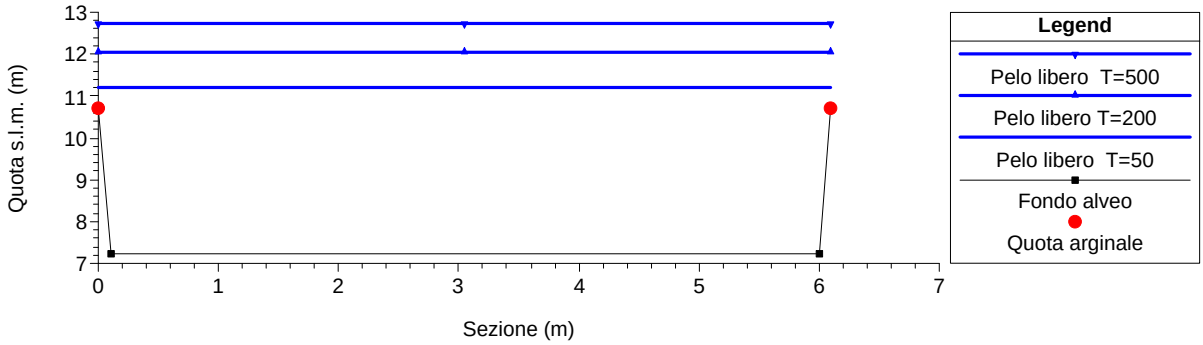
CARENDA

DALLA SEZ. 1
ALLA SEZ. 23

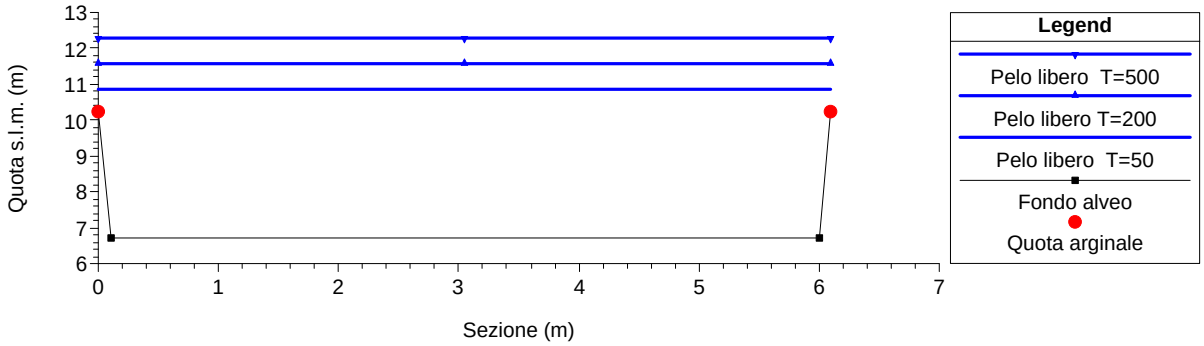
RIO CARENDA

Sezioni trasversali

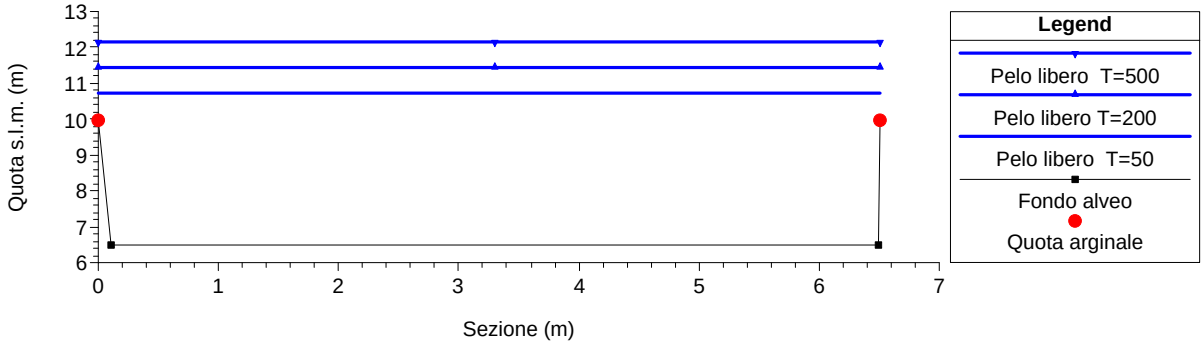
Sezione 23



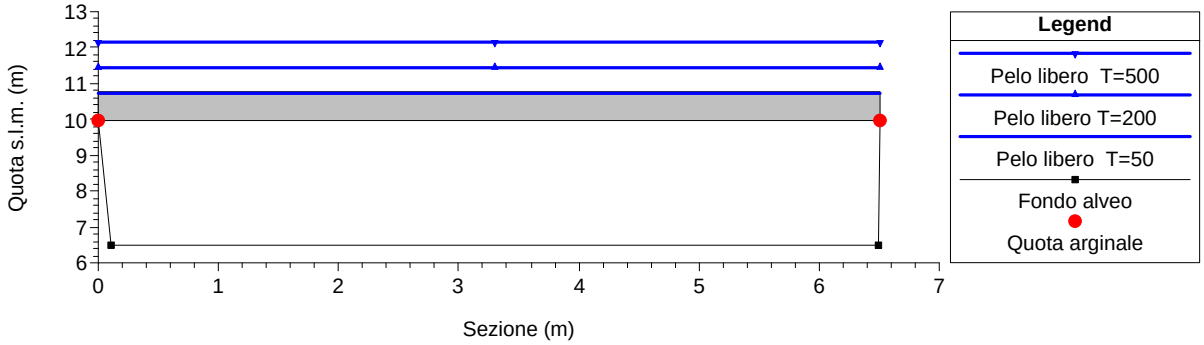
Sezione 22



Sezione 21



Ponte Reg .Rapalline



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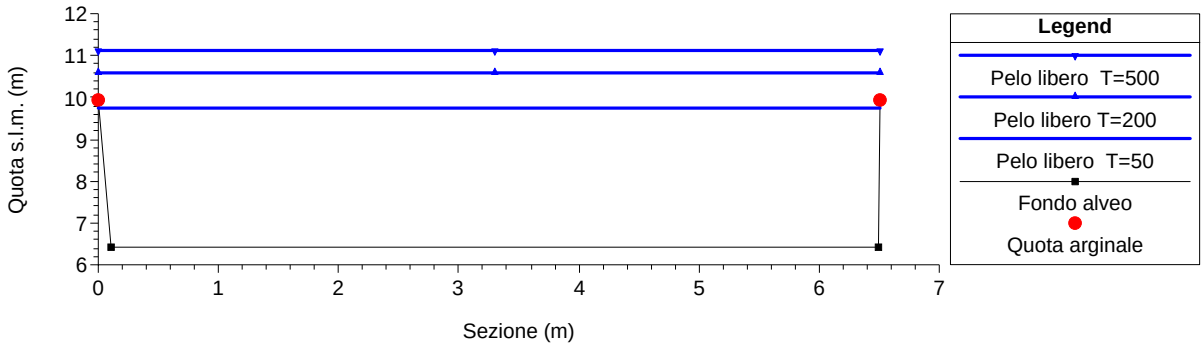
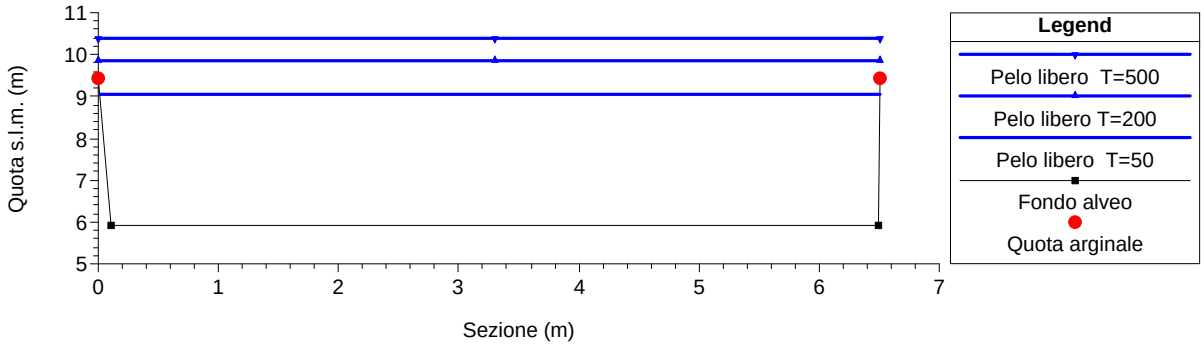
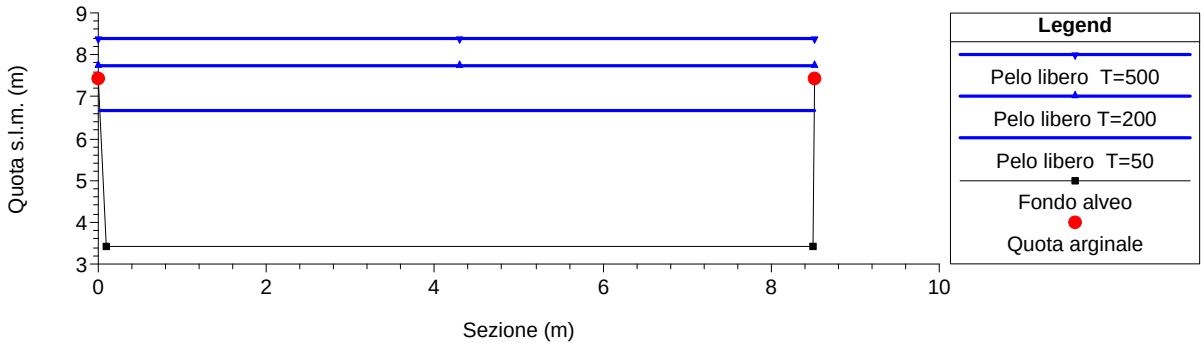


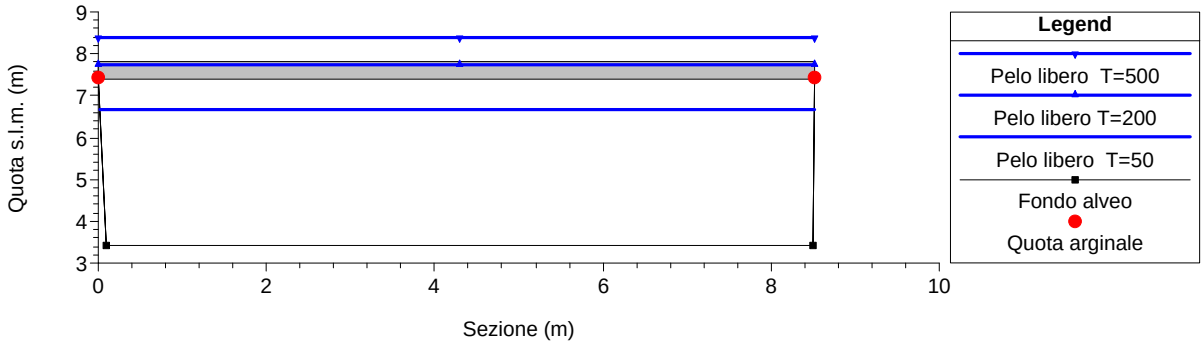
Sezione 19



Sezione 18



Ponte Villa S.Giorgio



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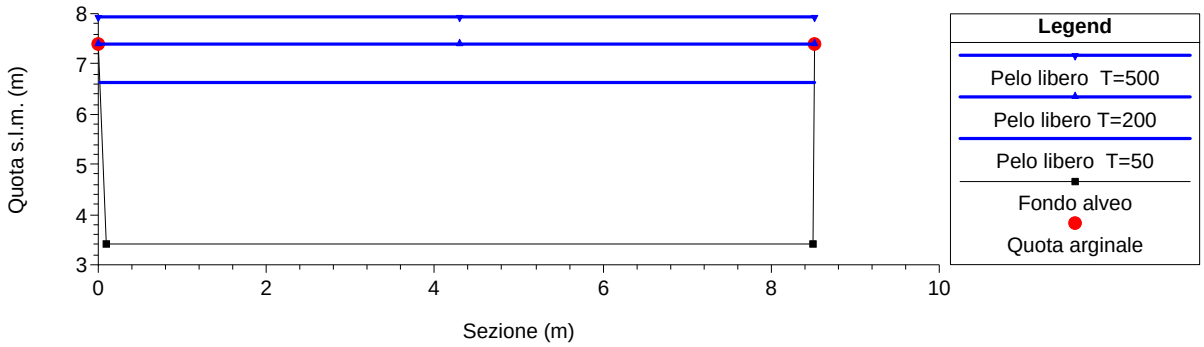

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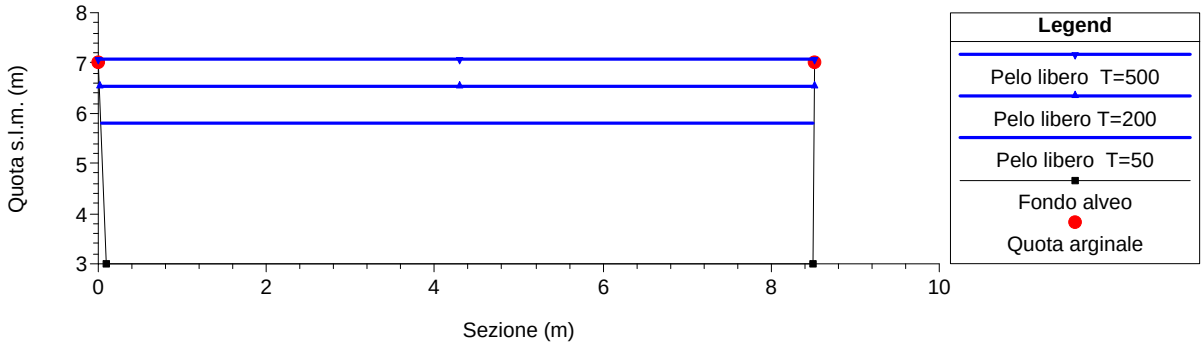

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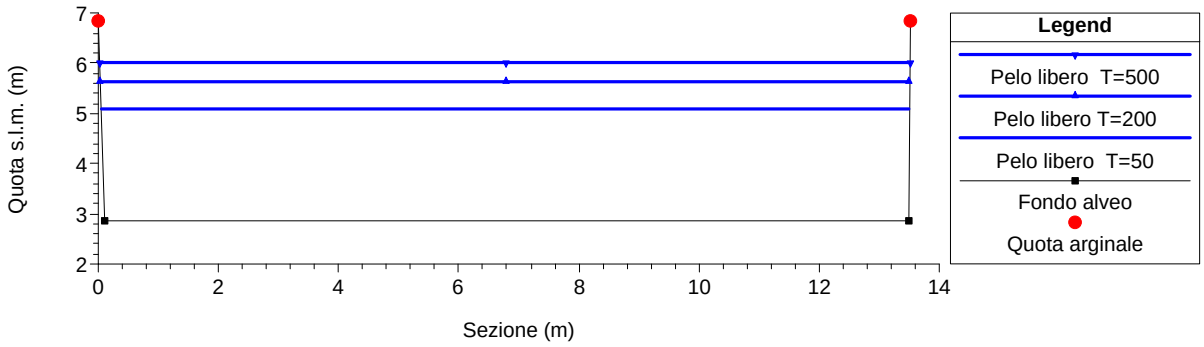
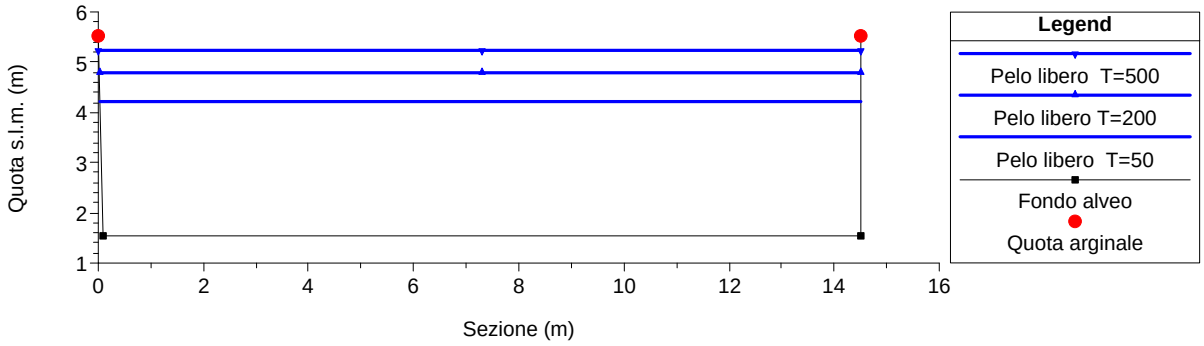
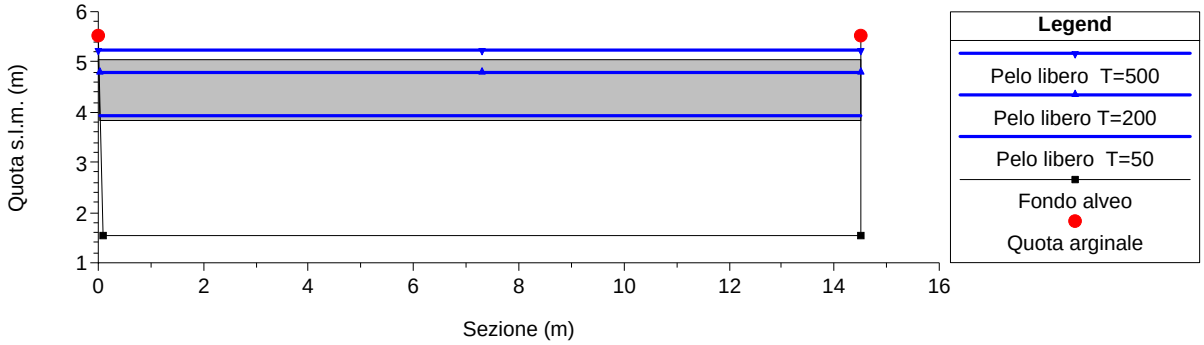


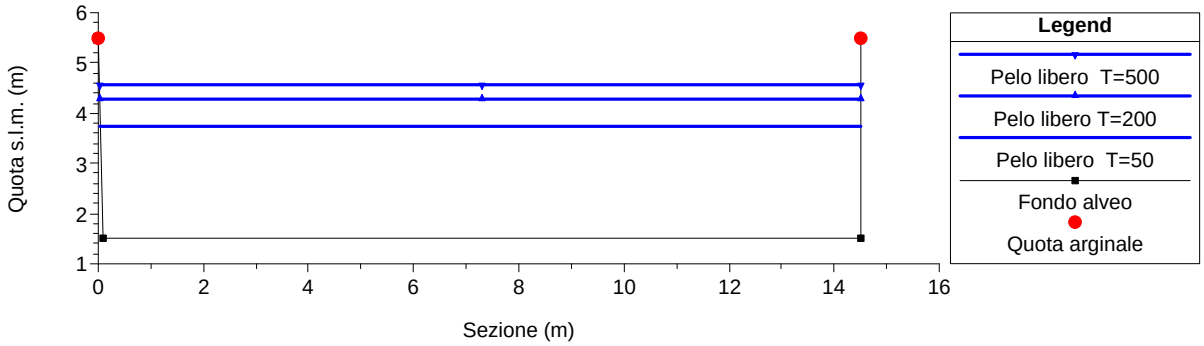
Sezione 14



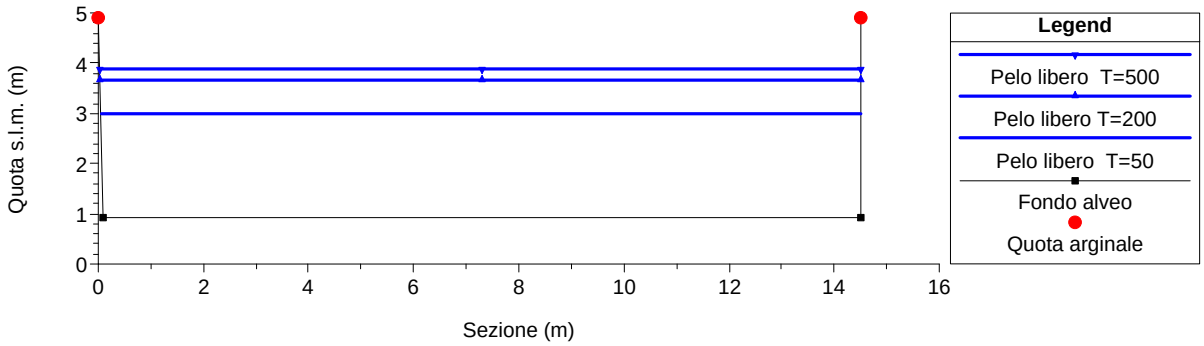
Ponte SS Aurelia



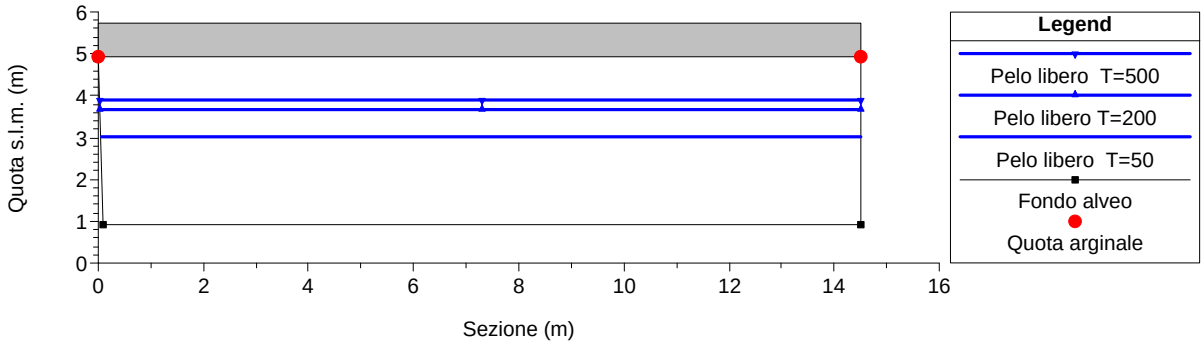
Sezione 11



Sezione 10



Passerella carrabile



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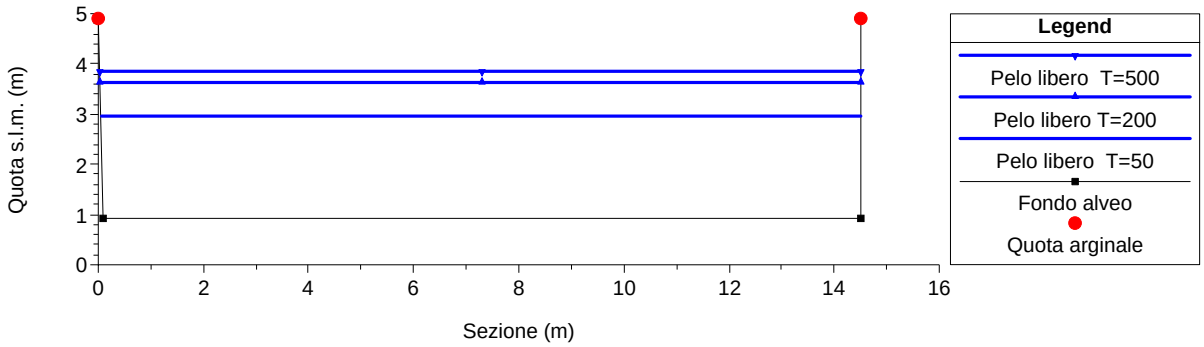
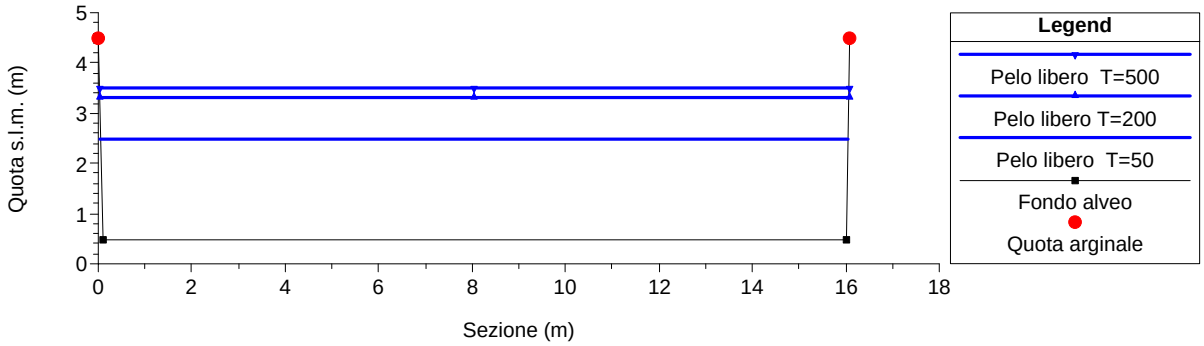
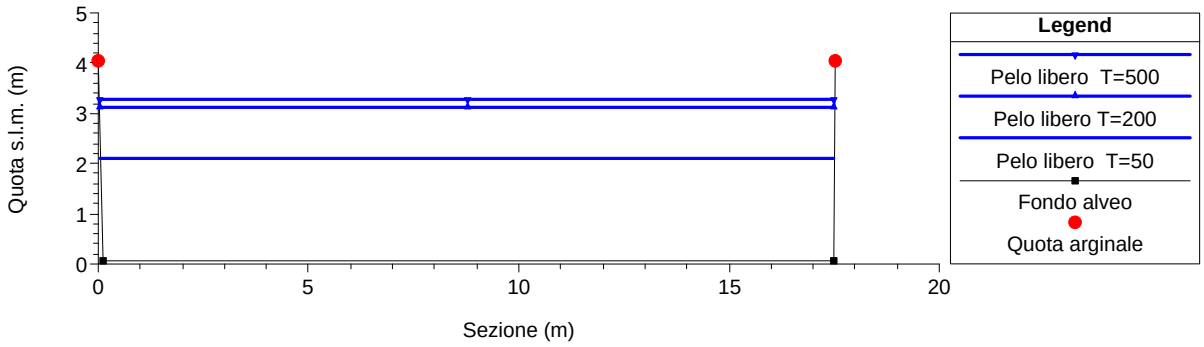


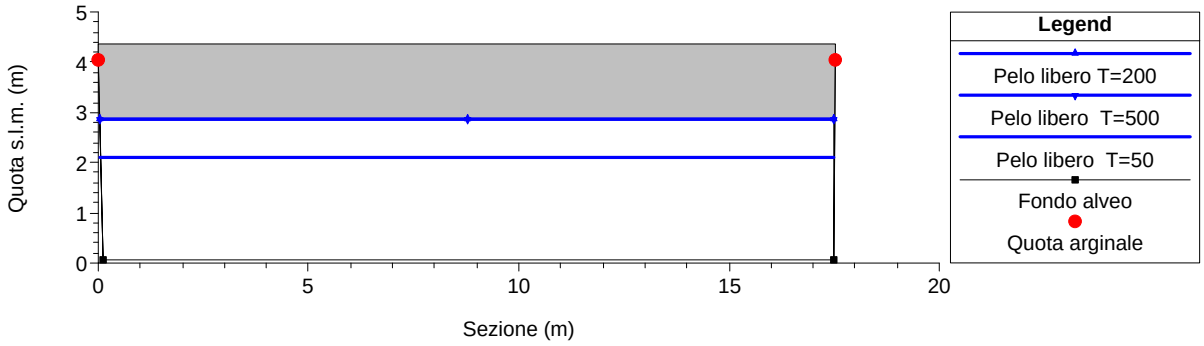
Sezione 8



Sezione 7



Ponte Vecchia Aurelia



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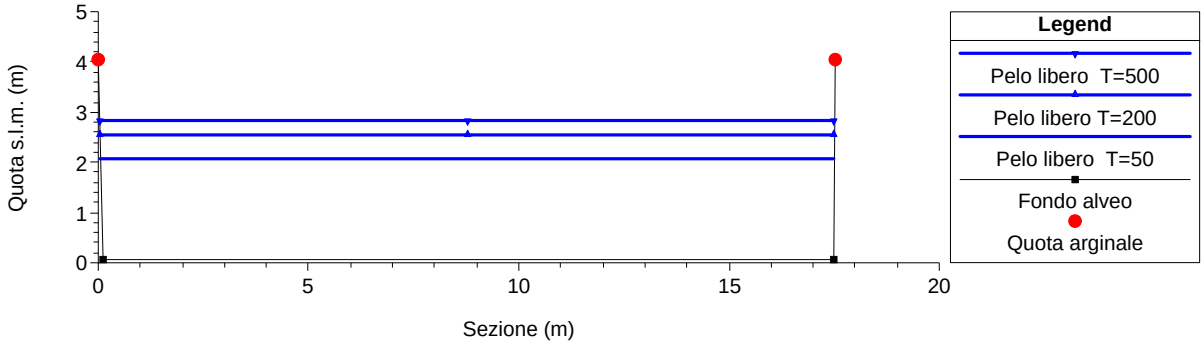

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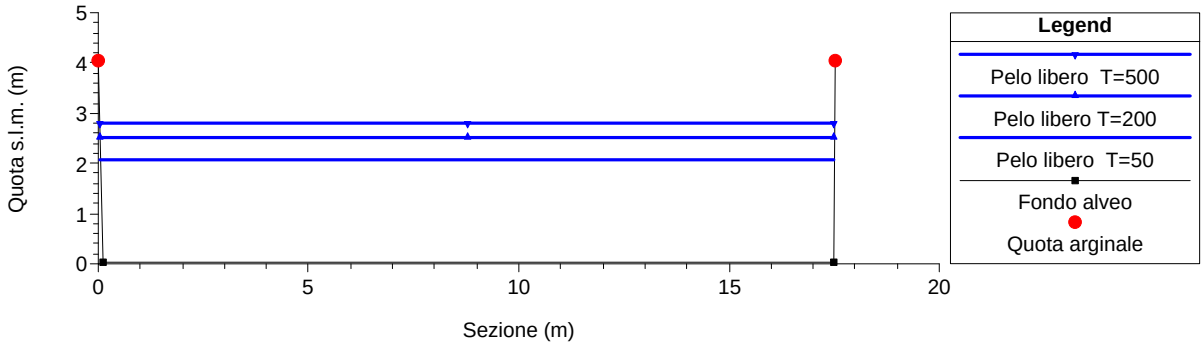
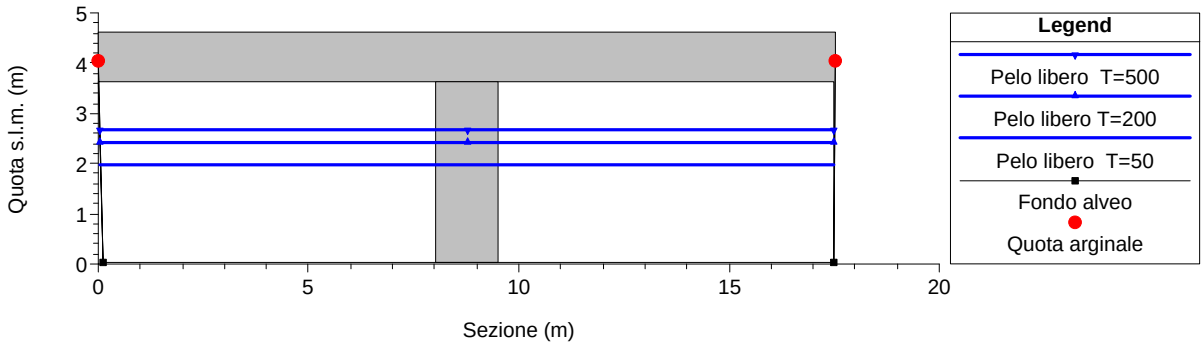
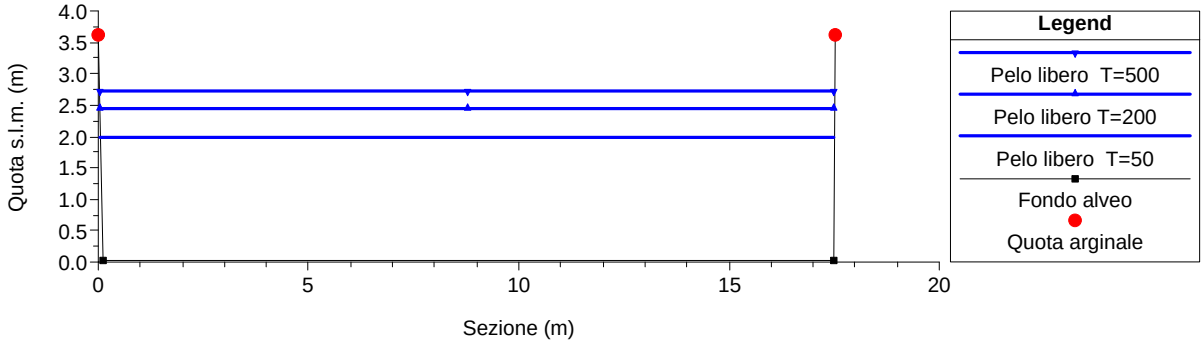


Ponte FS



Sezione 1



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

CARENDA

Torrente Carenda 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
23	80	7,22	10,72	10,72	11,21	9,86	11,78	3,33	24,03	0,54
22	80	6,72	10,22	10,22	10,84	9,36	11,37	3,23	24,77	0,51
21	80	6,47	9,97	9,97	10,75	8,98	11,17	2,89	27,65	0,45
20,5	Bridge									
20	80	6,42	9,92	9,92	9,76	8,93	10,46	3,72	21,53	0,65
19	80	5,92	9,42	9,42	9,05	8,43	9,85	3,96	20,18	0,72
18	80	3,42	7,42	7,42	6,66	5,51	7,1	2,92	27,41	0,52
17,5	Bridge									
17	80	3,4	7,4	7,4	6,65	5,49	7,08	2,92	27,41	0,52
16	80	3	7	7	5,79	5,09	6,38	3,4	23,51	0,65
15	80	2,85	6,85	6,85	5,09	4,38	5,45	2,66	30,04	0,57
14	80	1,53	5,53	5,53	4,23	2,99	4,45	2,05	39,01	0,4
13	80	1,53	4,93	4,93	4,23	2,99	4,45	2,05	39,02	0,4
12,5	Bridge									
12	80	1,5	4,93	4,93	3,73	2,96	4,04	2,49	32,18	0,53
11	80	1,5	5,5	5,5	3,73	2,96	4,04	2,49	32,14	0,53
10	80	0,91	4,91	4,91	3	2,37	3,36	2,66	30,1	0,59
9,5	Bridge									
9	80	0,91	4,91	4,91	2,97	2,37	3,34	2,69	29,7	0,6
8	80	0,48	4,48	4,48	2,48	1,85	2,8	2,5	31,98	0,56
7	80	0,05	4,05	4,05	2,1	1,34	2,36	2,24	35,71	0,5
5,5	Bridge									
4	80	0,05	4,05	4,05	2,08	1,34	2,34	2,26	35,42	0,51
3	80	0,03	4,03	4,03	2,06	1,32	2,32	2,26	35,42	0,51
1,5	Bridge									
1	80	0,03	3,63	3,63	1,99	1,32	2,27	2,34	34,13	0,54

Torrente Carenda 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
23	110	7,22	10,72	10,72	12,05	10,48	12,78	3,78	29,12	0,55
22	110	6,72	10,22	10,22	11,57	9,98	12,29	3,76	29,26	0,55
21	110	6,47	9,97	9,97	11,45	9,57	12,04	3,41	32,24	0,49
20,5	Bridge									
20	110	6,42	9,92	9,92	10,6	9,52	11,44	4,07	27	0,64
19	110	5,92	9,42	9,42	9,85	9,02	10,81	4,33	25,4	0,7
18	110	3,42	7,42	7,42	7,75	6	8,21	3	36,64	0,46
17,5	Bridge									
17	110	3,4	7,4	7,4	7,4	5,98	7,94	3,25	33,86	0,52
16	110	3	7	7	6,52	5,58	7,22	3,69	29,78	0,63
15	110	2,85	6,85	6,85	5,63	4,74	6,07	2,94	37,42	0,56
14	110	1,53	5,53	5,53	4,8	3,34	5,08	2,33	47,27	0,41
13	110	1,53	4,93	4,93	4,8	3,33	5,08	2,33	47,28	0,41
12,5	Bridge									
12	110	1,5	4,93	4,93	4,29	3,3	4,67	2,73	40,33	0,52
11	110	1,5	5,5	5,5	4,29	3,3	4,67	2,73	40,29	0,52
10	110	0,91	4,91	4,91	3,66	2,72	4,05	2,78	39,61	0,54
9,5	Bridge									
9	110	0,91	4,91	4,91	3,64	2,72	4,04	2,8	39,34	0,54
8	110	0,48	4,48	4,48	3,32	2,17	3,62	2,42	45,43	0,46
7	110	0,05	4,05	4,05	3,13	1,65	3,34	2,05	53,71	0,37
5,5	Bridge									
4	110	0,05	4,05	4,05	2,55	1,65	2,87	2,53	43,52	0,51
3	110	0,03	4,03	4,03	2,53	1,63	2,85	2,53	43,52	0,51
1,5	Bridge									
1	110	0,03	3,63	3,63	2,44	1,63	2,79	2,62	42	0,54

Torrente Carenda 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
23	130	7,22	10,72	10,72	12,75	10,86	13,52	3,9	33,37	0,53
22	130	6,72	10,22	10,22	12,27	10,36	13,04	3,88	33,52	0,53
21	130	6,47	9,97	9,97	12,15	9,94	12,79	3,53	36,81	0,47
20,5	Bridge									
20	130	6,42	9,92	9,92	11,13	9,88	12,06	4,26	30,51	0,63
19	130	5,92	9,42	9,42	10,38	9,38	11,41	4,51	28,83	0,68
18	130	3,42	7,42	7,42	8,39	6,31	8,88	3,09	42,09	0,44
17,5	Bridge									
17	130	3,4	7,4	7,4	7,92	6,29	8,51	3,4	38,26	0,51
16	130	3	7	7	7,09	5,89	7,81	3,76	34,57	0,6
15	130	2,85	6,85	6,85	6,02	4,97	6,49	3,05	42,59	0,55
14	130	1,53	5,53	5,53	5,24	3,55	5,54	2,43	53,57	0,4
13	130	1,53	4,93	4,93	5,24	3,55	5,54	2,43	53,6	0,4
12,5	Bridge									
12	130	1,5	4,93	4,93	4,58	3,52	5,02	2,92	44,52	0,53
11	130	1,5	5,5	5,5	4,58	3,52	5,01	2,92	44,47	0,53
10	130	0,91	4,91	4,91	3,89	2,93	4,35	3,03	42,95	0,56
9,5	Bridge									
9	130	0,91	4,91	4,91	3,87	2,93	4,34	3,05	42,63	0,57
8	130	0,48	4,48	4,48	3,51	2,37	3,87	2,69	48,35	0,49
7	130	0,05	4,05	4,05	3,27	1,83	3,54	2,32	56,15	0,41
5,5	Bridge									
4	130	0,05	4,05	4,05	2,84	1,83	3,2	2,68	48,56	0,51
3	130	0,03	4,03	4,03	2,81	1,81	3,18	2,68	48,55	0,51
1,5	Bridge									
1	130	0,03	3,63	3,63	2,72	1,81	3,11	2,77	46,91	0,54