



PROVINCIA DI TERNI

Studio sulla dinamica fluviale per la gestione morfo-sedimentaria del sistema alveo-pianura fluviale del Fiume Paglia

(Giunta provinciale – Delibera n. 96 del 08/05/2012)

ALLEGATI

1. Sezioni trasversali di caratterizzazione e di confronto;
2. Stazioni di campionamento granulometrico;
3. Lavori di ordinaria manutenzione – F. Paglia 1997-98;
4. Caratteri sinuometrici;
5. Carta dei caratteri morfologico – sedimentari. Scala 1:10000:
Quadro di unione e Fogli n. 4, 5, 6.

Corrado Cencetti Pierluigi De Rosa Andrea Fredduzzi
Paolo Tacconi

UNIVERSITÀ DI PERUGIA





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(Giunta provinciale – Delibera n. 96 del 08/05/2012)

ALLEGATO 1

Sezioni trasversali di caratterizzazione e di confronto

Emissioni:
1 dicembre 2012

Corrado Cencetti Pierluigi De Rosa Andrea Fredduzzi
Paolo Tacconi

UNIVERSITÀ DI PERUGIA



**Planimetria delle
sezioni trasversali
Tavola 1**

Legenda

- ⁵² Asse dell'alveo (2008)
- ⁴⁴ Asse della valle (2008)
- Affluenti

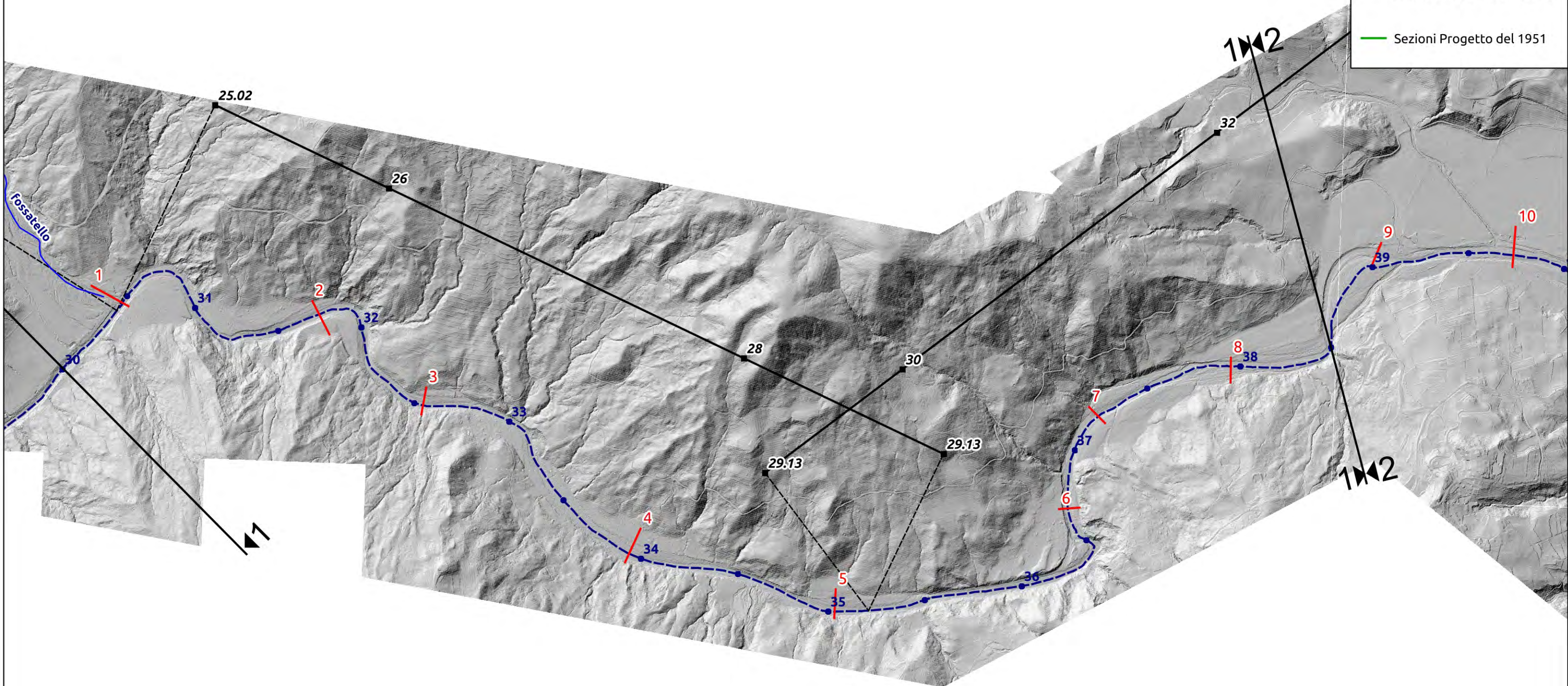
1↔2 Limiti dei tratti caratteristici

Sezioni

— Sezioni di caratterizzazione

— Sezioni Val di Chiana (2009)

— Sezioni Progetto del 1951



1 0 1 km

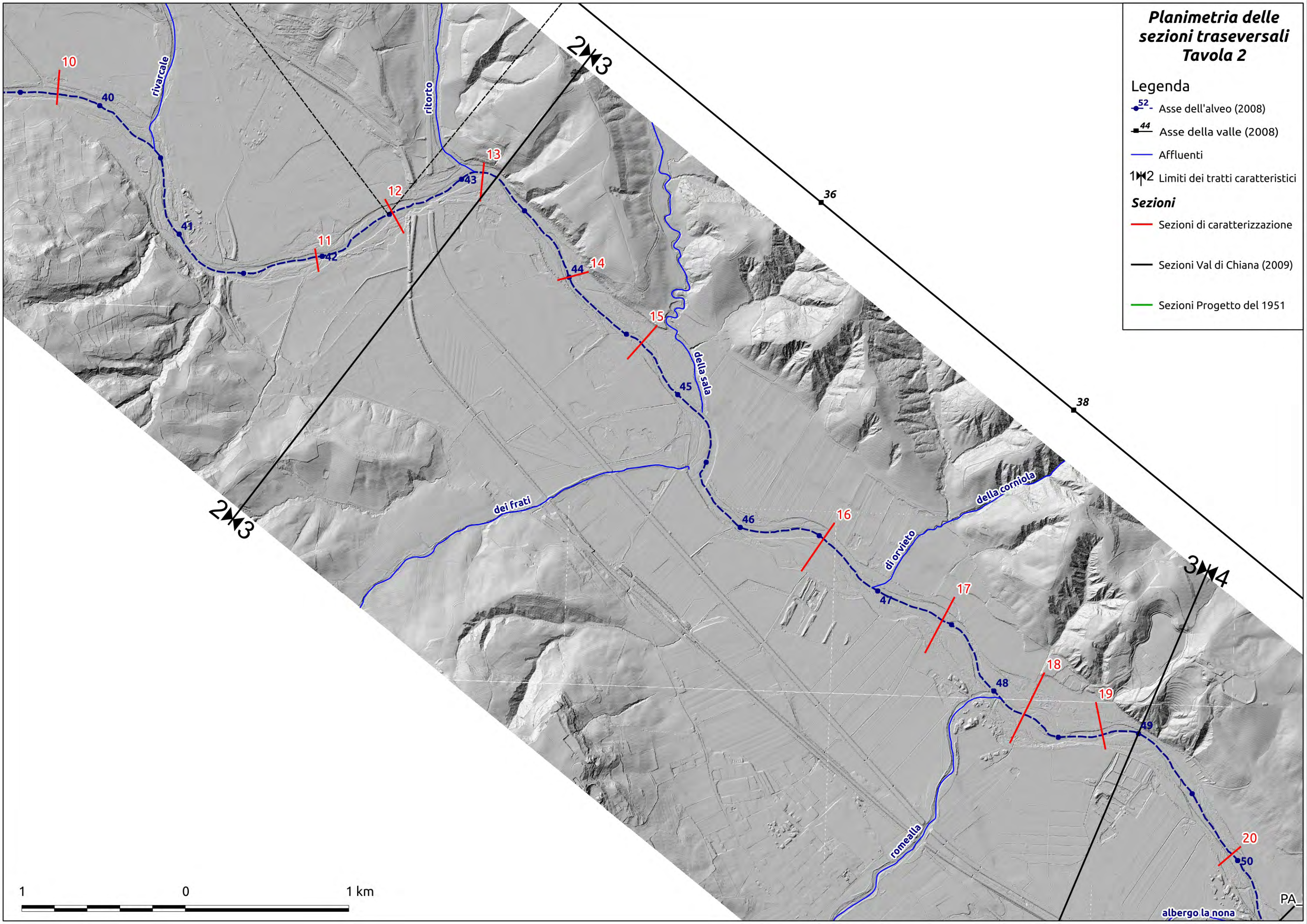
**Planimetria delle
sezioni trasversali
Tavola 2**

Legenda

- ⁵² - Asse dell'alveo (2008)
- ⁴⁴ - Asse della valle (2008)
- Affluenti
- 1 2 - Limiti dei tratti caratteristici

Sezioni

- Sezioni di caratterizzazione
- Sezioni Val di Chiana (2009)
- Sezioni Progetto del 1951



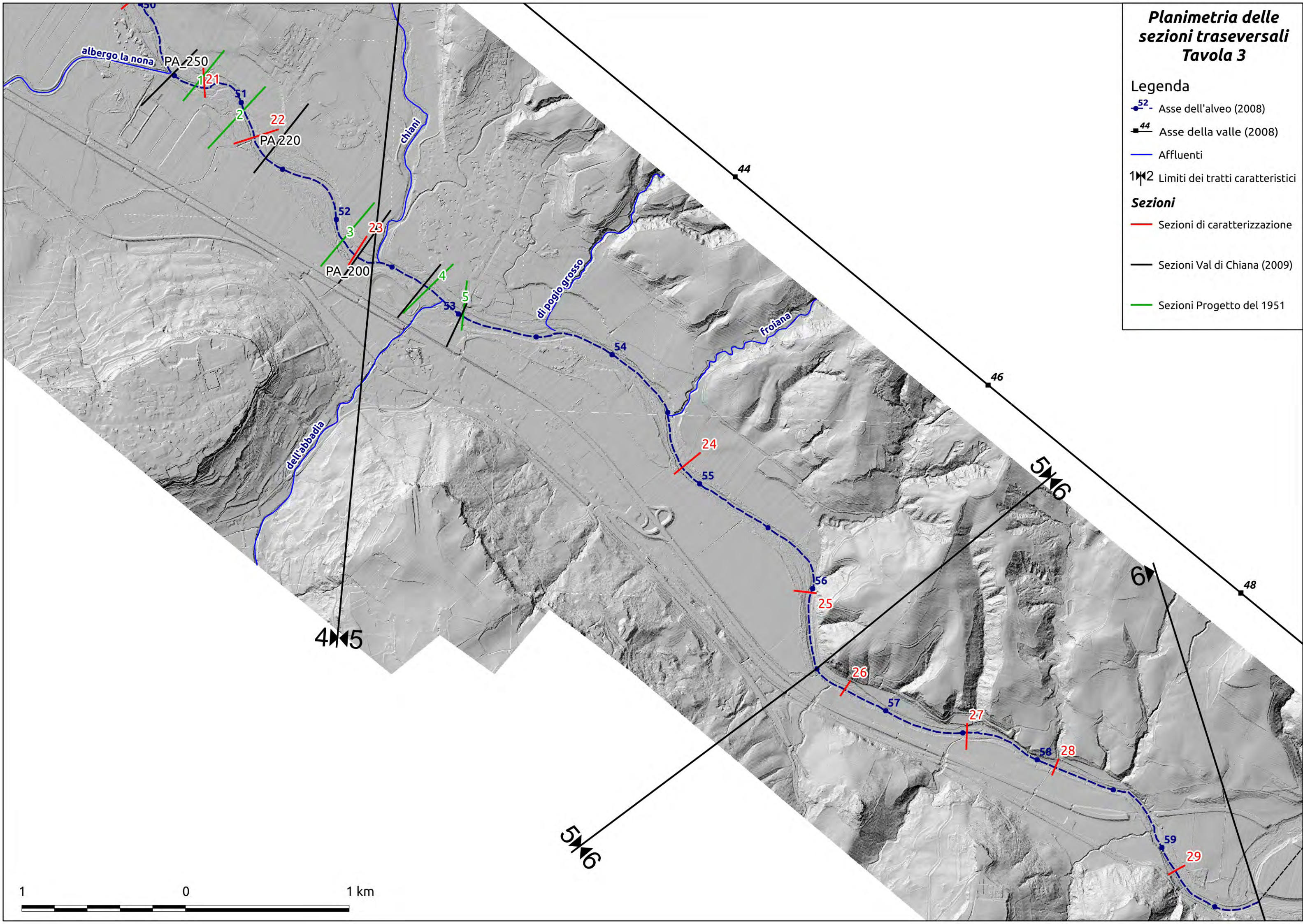
**Planimetria delle
sezioni trasversali
Tavola 3**

Legenda

- 52 - Asse dell'alveo (2008)
- 44 - Asse della valle (2008)
- Affluenti
- 1 2 Limiti dei tratti caratteristici

Sezioni

- Sezioni di caratterizzazione
- Sezioni Val di Chiana (2009)
- Sezioni Progetto del 1951





Studio sulla dinamica fluviale per la gestione morfo-sedimentaria del sistema alveo-pianura fluviale del Fiume Paglia

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Sezioni di caratterizzazione

NB. Le sezioni sono ordinate da monte a valle.

- Il livello di *BANKFULL* è quello relativo all'alveo attivo, corrispondente a portate con tempo di ritorno 1,5-3 anni;
- Il livello di *FLOOD PRONE AREA* è pari al doppio della profondità massima dell'alveo rispetto al livello di bankfull.

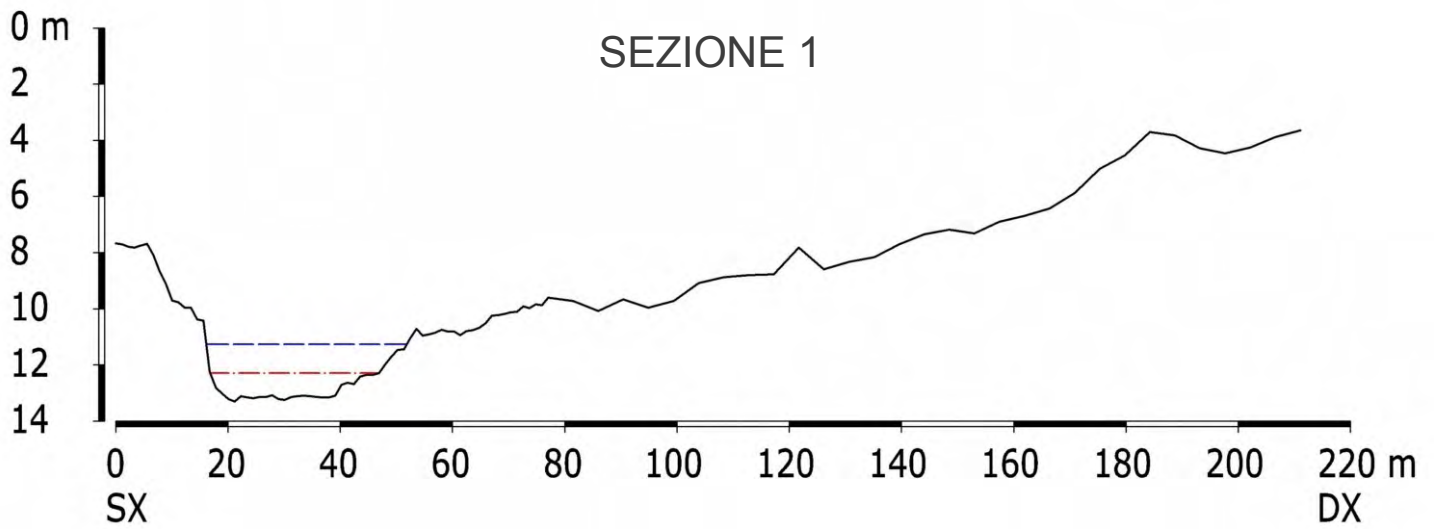
Le sezioni sono state estratte dal modello digitale del terreno (Autorità di Bacino del F. Tevere - 2008) in corrispondenza dei *riffle* (raschi).

Elenco delle sezioni

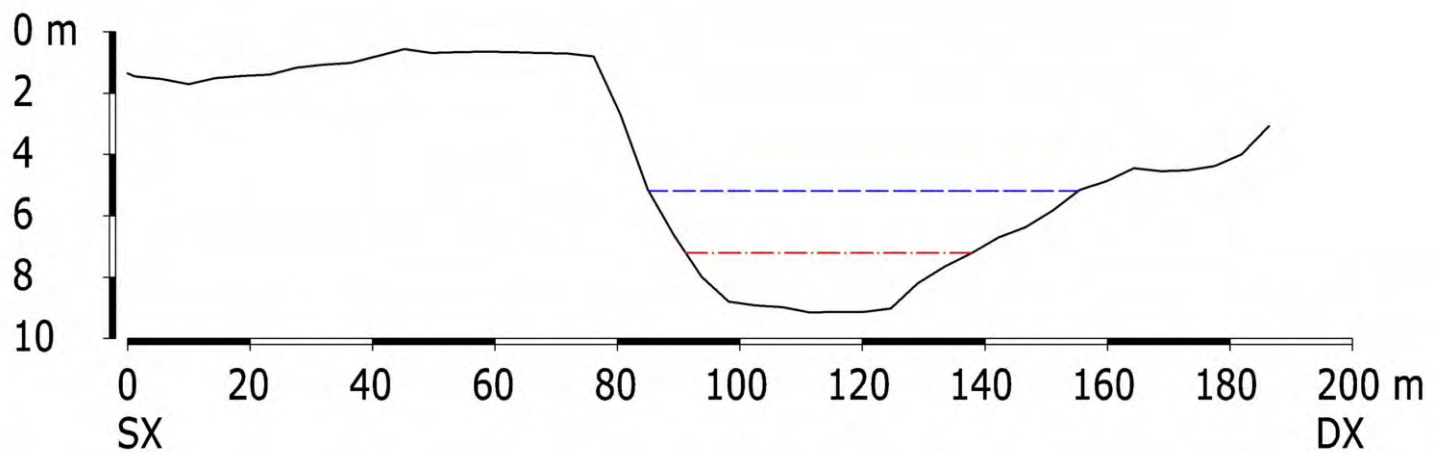
Sezione	Progressiva AdA
1	30,46
2	31,72
3	32,55
4	33,93
5	35,03
6	36,7
7	37,2
8	37,95
9	38,99
10	39,73
11	41,96
12	42,52
13	43,14
14	44
15	44,61
16	46,55
17	47,44
18	48,24
19	48,77
20	49,95
21	50,75
22	51,23
23	52,26
24	54,86
25	56,03
26	56,77
27	57,52
28	58,12
29	59,17

Sezioni di caratterizzazione

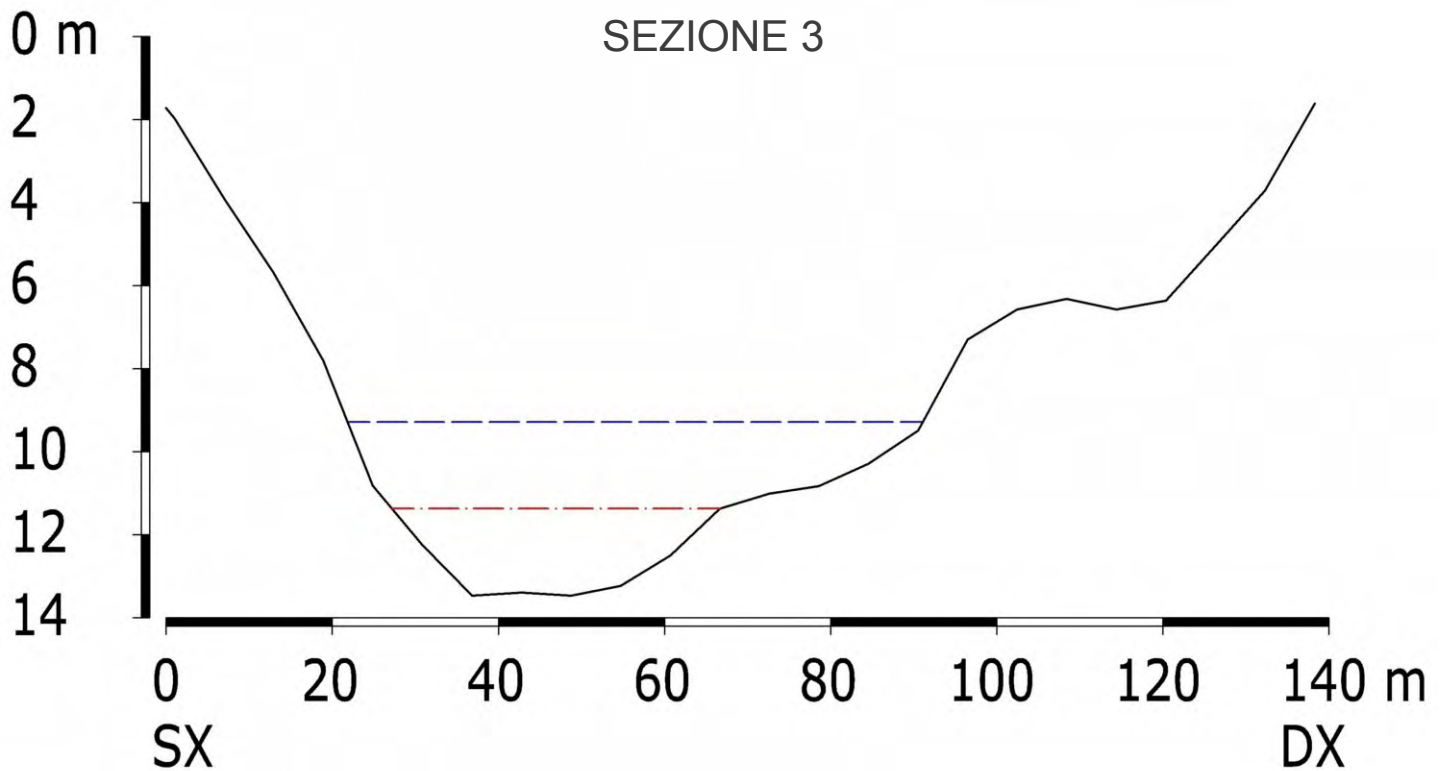
SEZIONE 1



SEZIONE 2



SEZIONE 3



Livello di bankfull

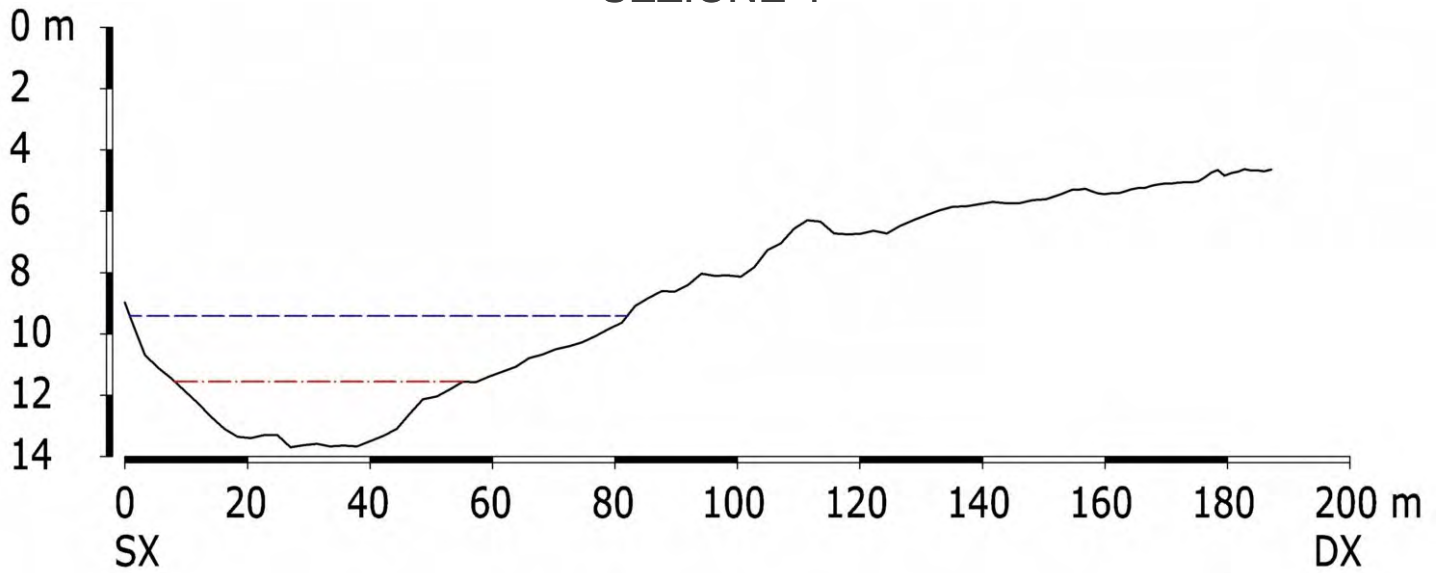


Flood prone area

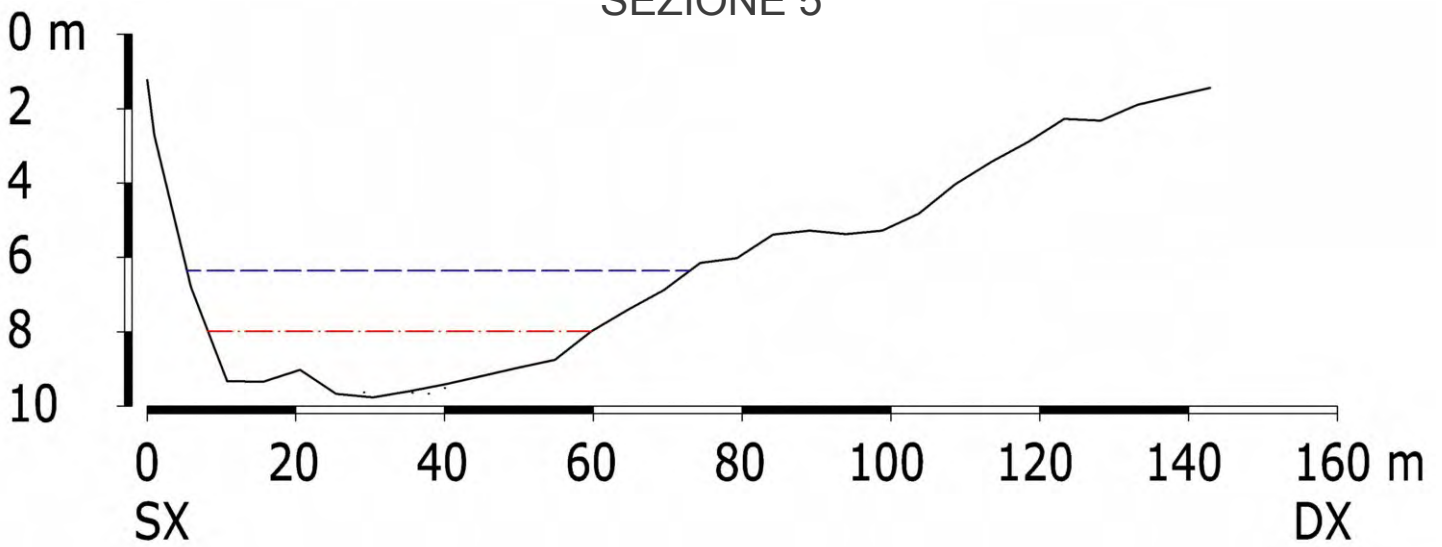


La scala verticale è deformata 5 volte

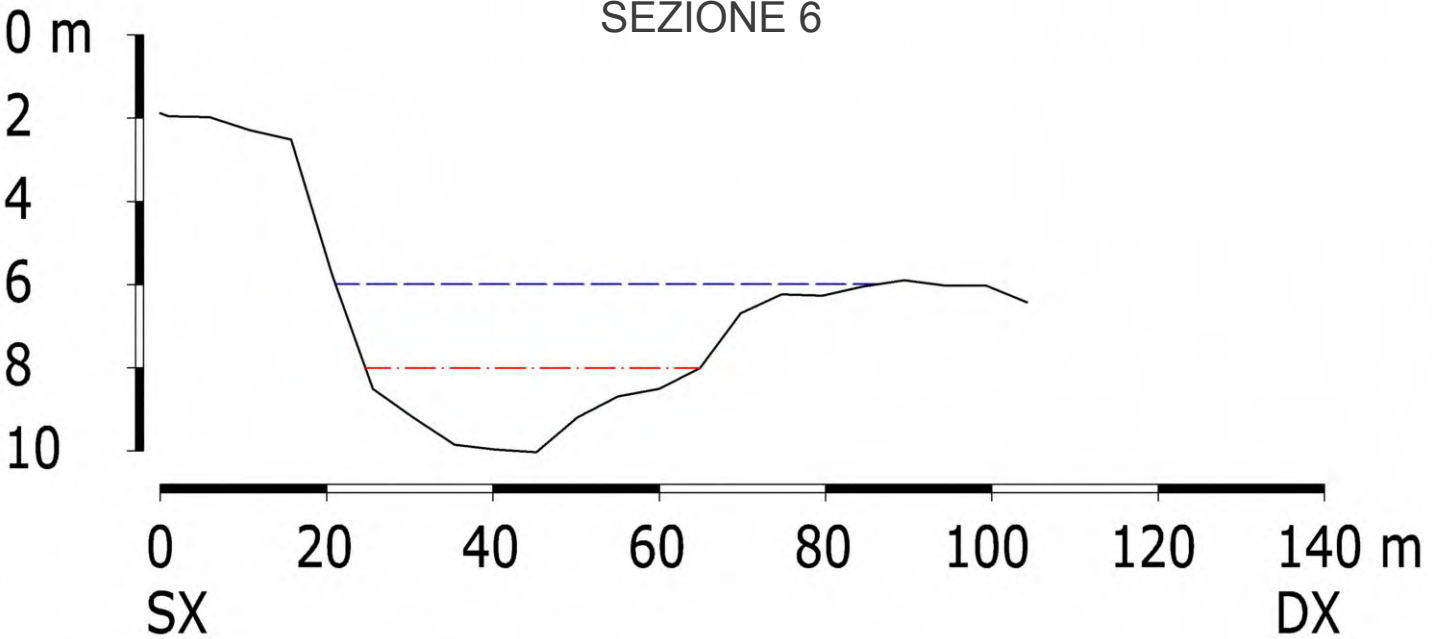
SEZIONE 4



SEZIONE 5



SEZIONE 6



Livello di bankfull

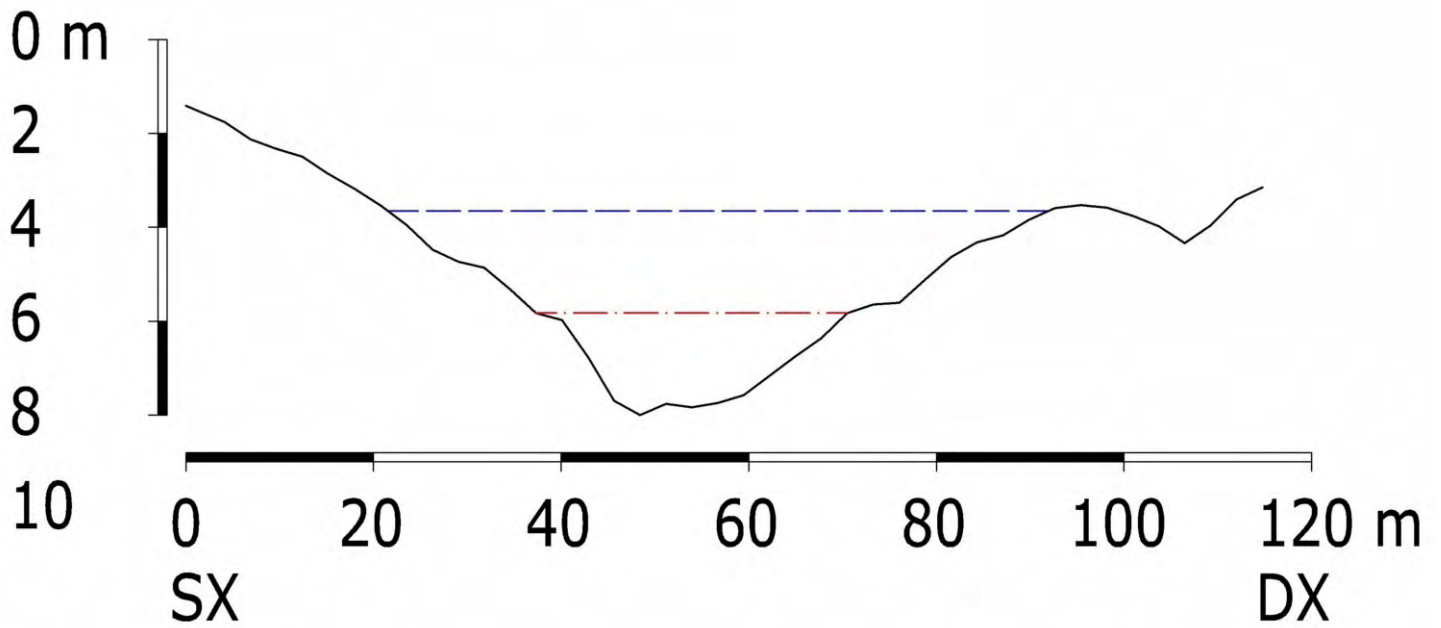


Flood prone area

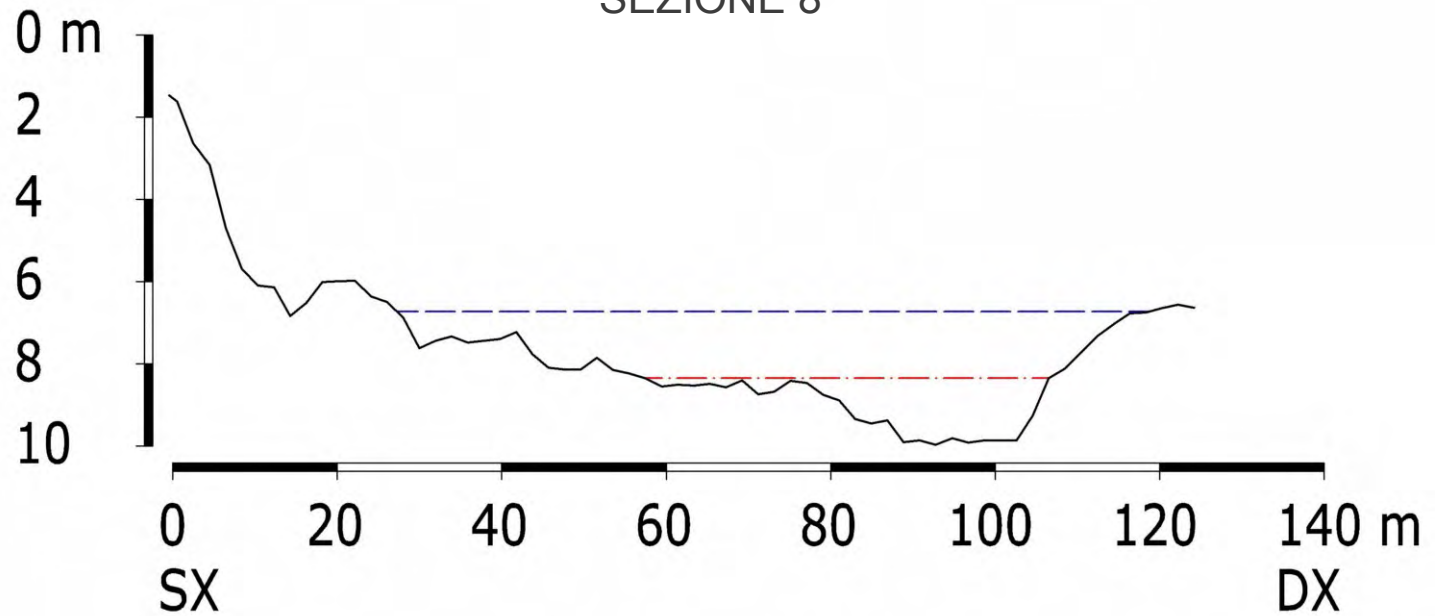


La scala verticale è deformata 5 volte

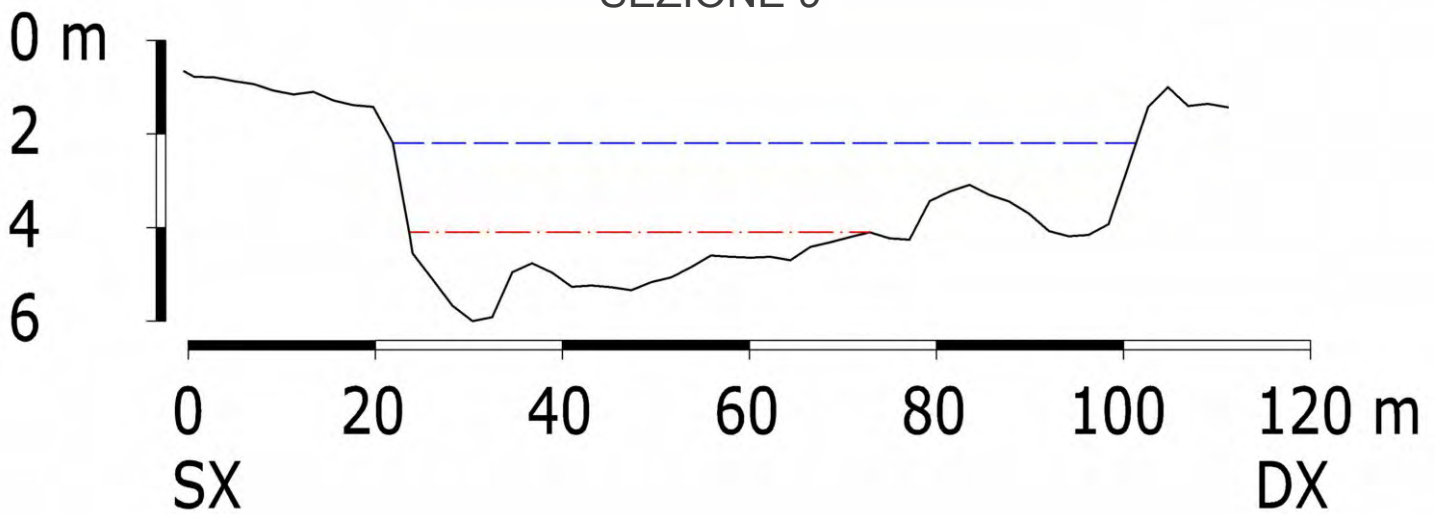
SEZIONE 7



SEZIONE 8



SEZIONE 9



Livello di bankfull

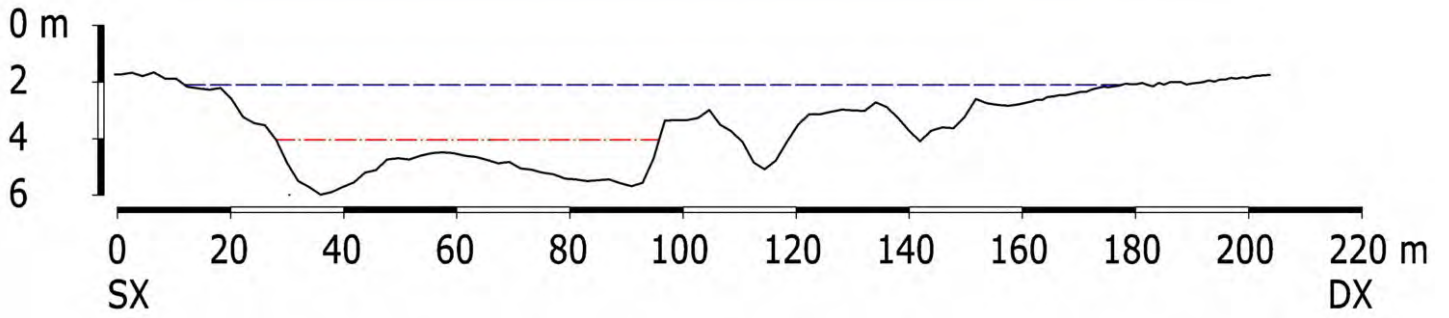


Flood prone area

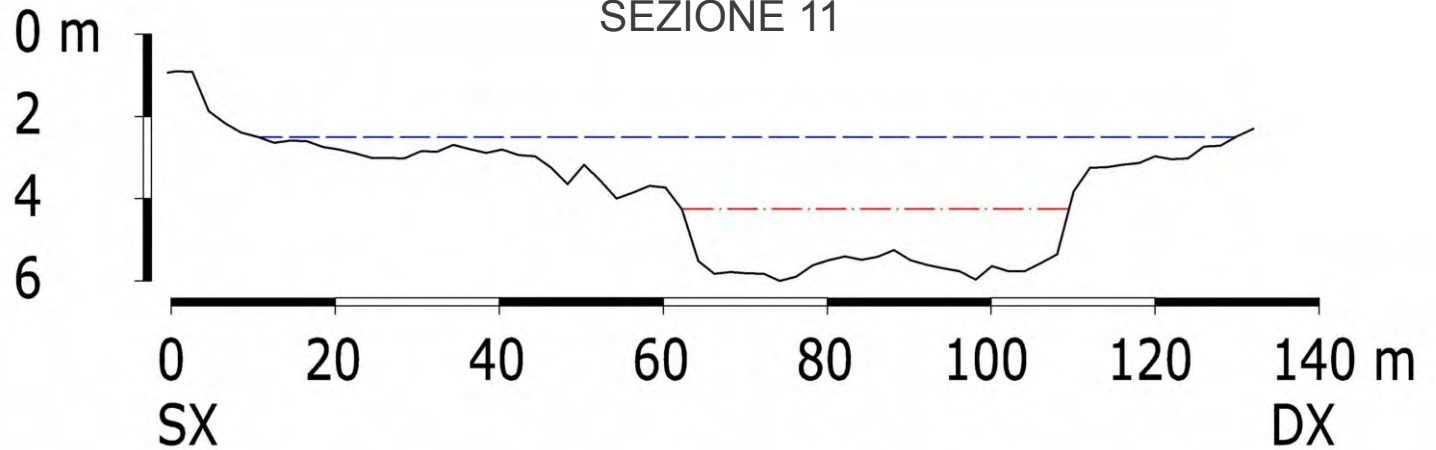


La scala verticale è deformata 5 volte

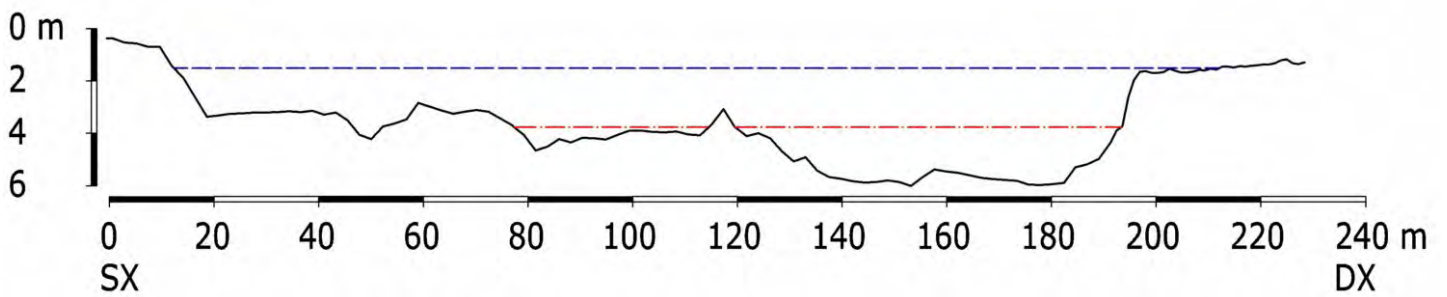
SEZIONE 10



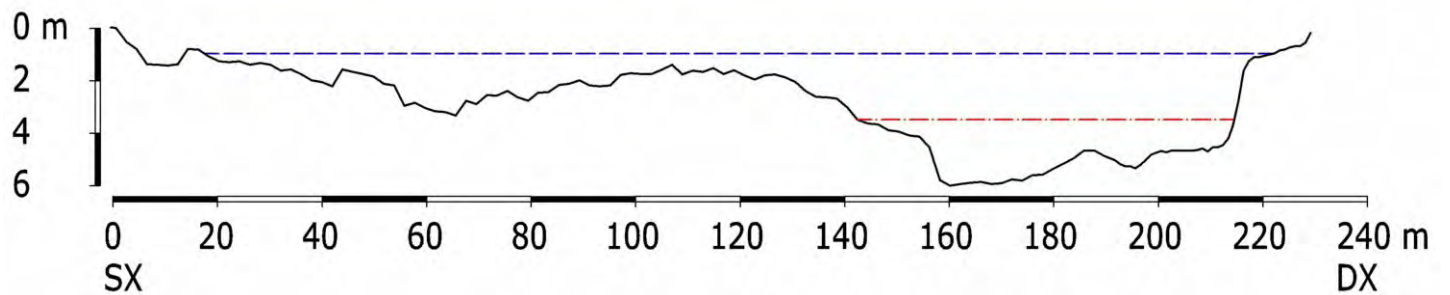
SEZIONE 11



SEZIONE 12



SEZIONE 13



SEZIONE 14



Livello di bankfull

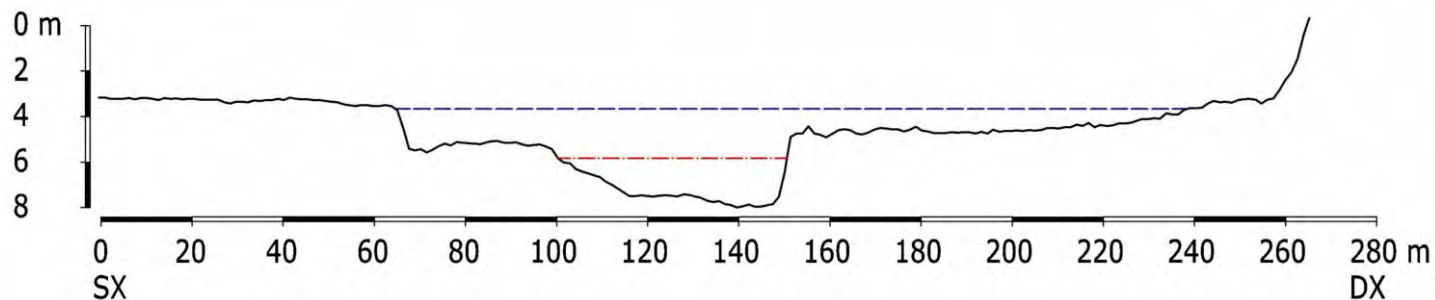


Flood prone area

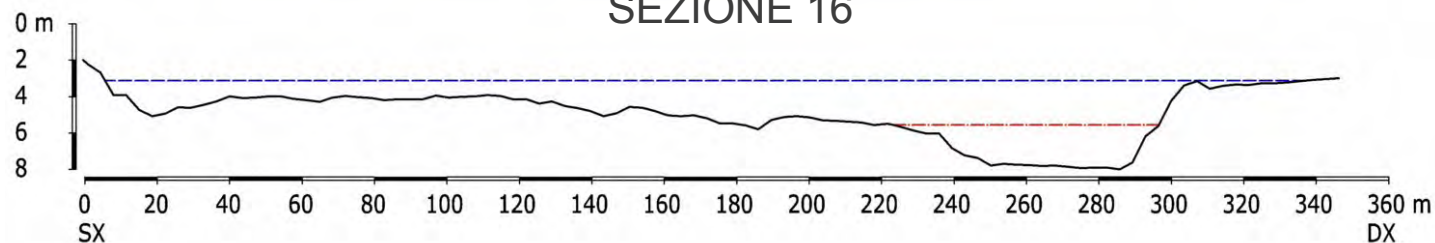


La scala verticale è deformata 5 volte

SEZIONE 15



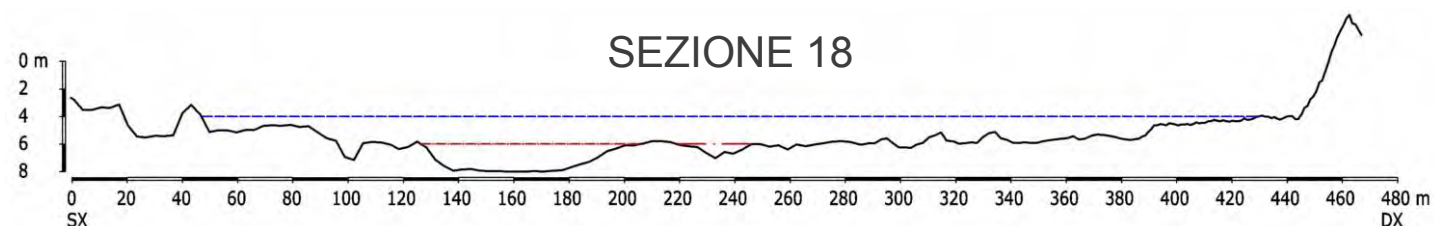
SEZIONE 16



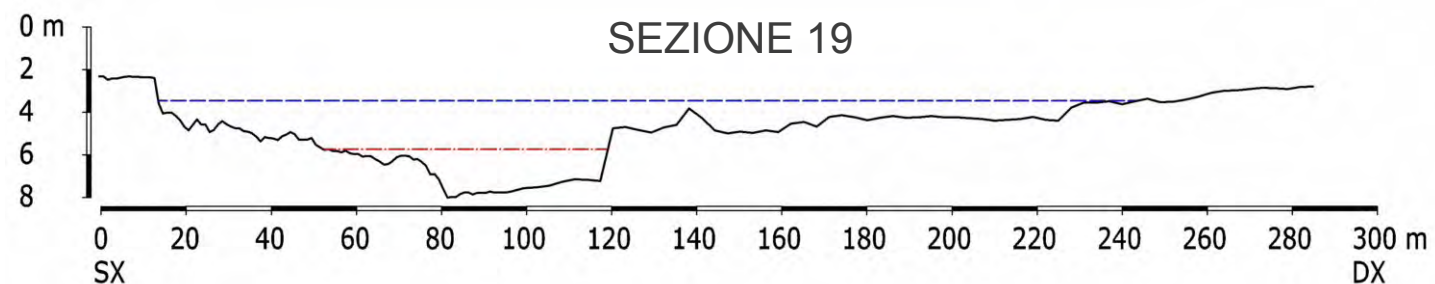
SEZIONE 17



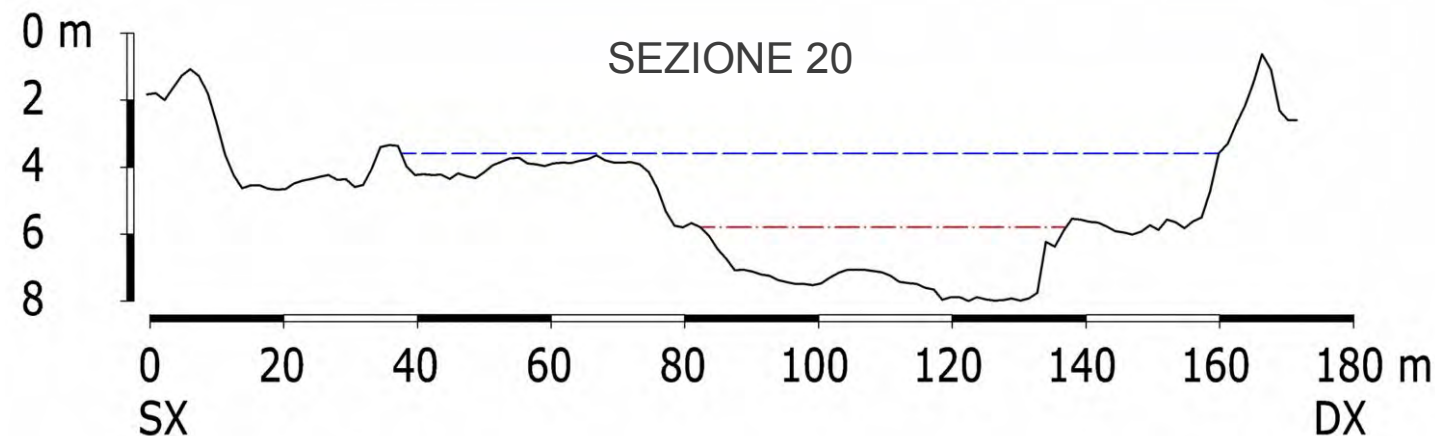
SEZIONE 18



SEZIONE 19



SEZIONE 20



Livello di bankfull

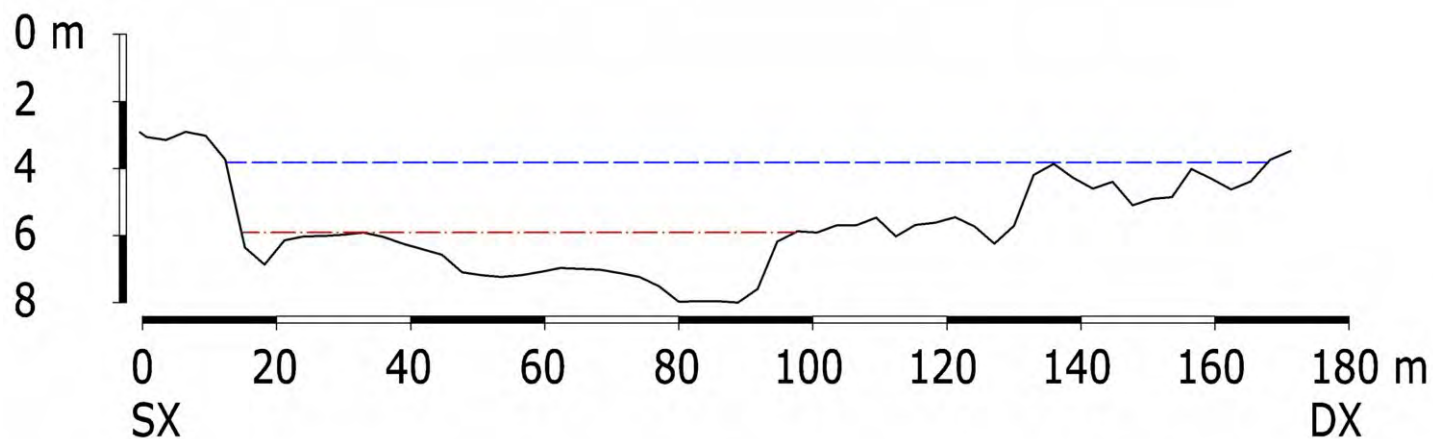


Flood prone area

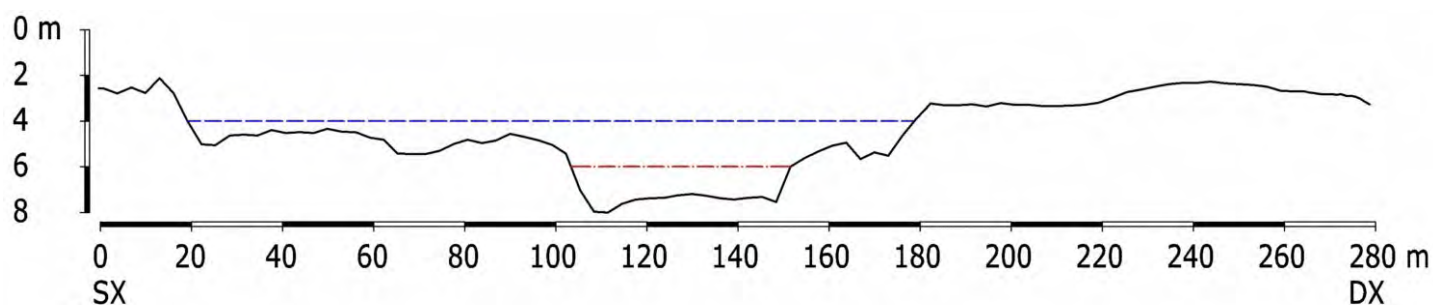


La scala verticale è deformata 5 volte

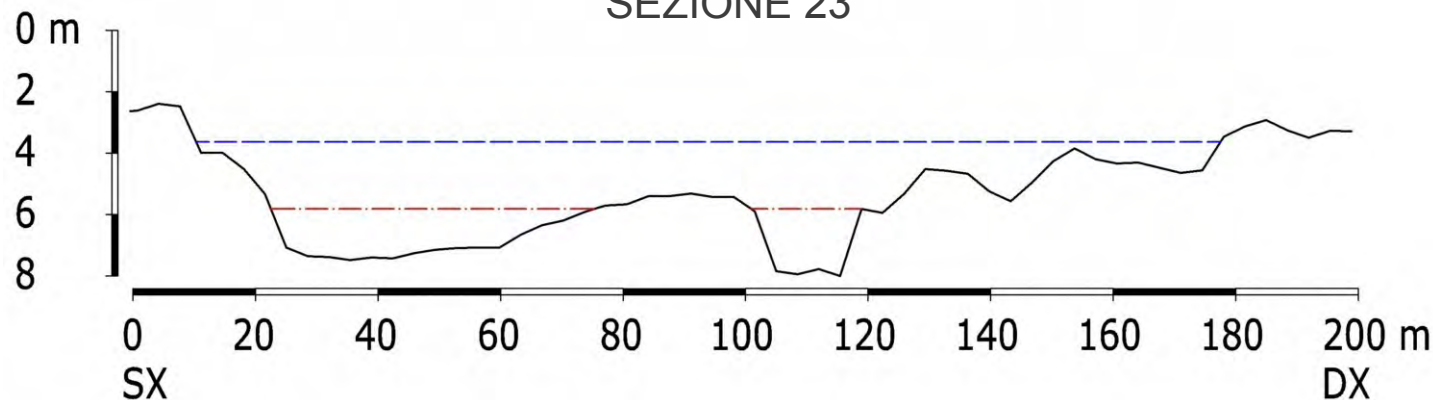
SEZIONE 21



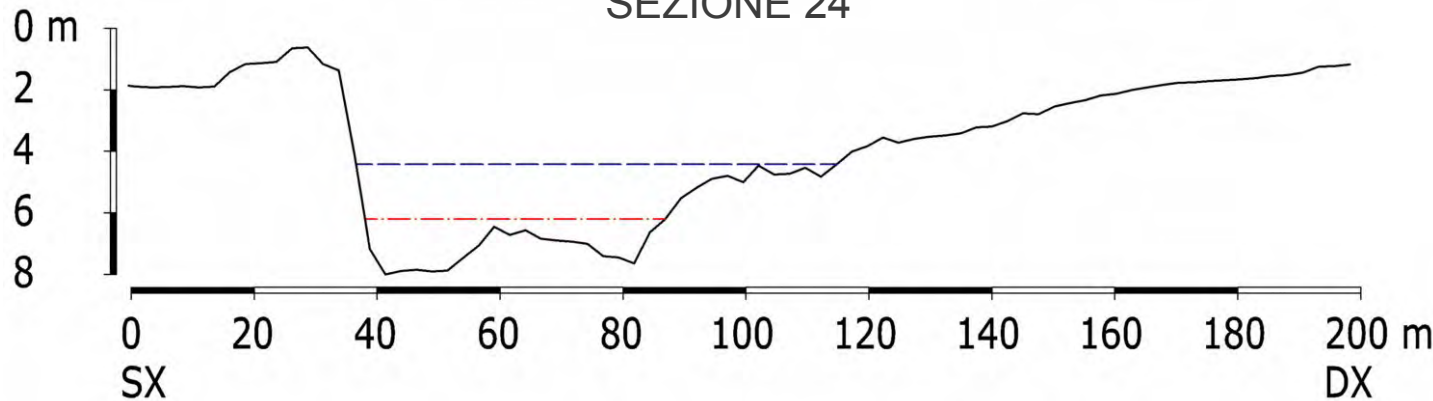
SEZIONE 22



SEZIONE 23



SEZIONE 24



Livello di bankfull

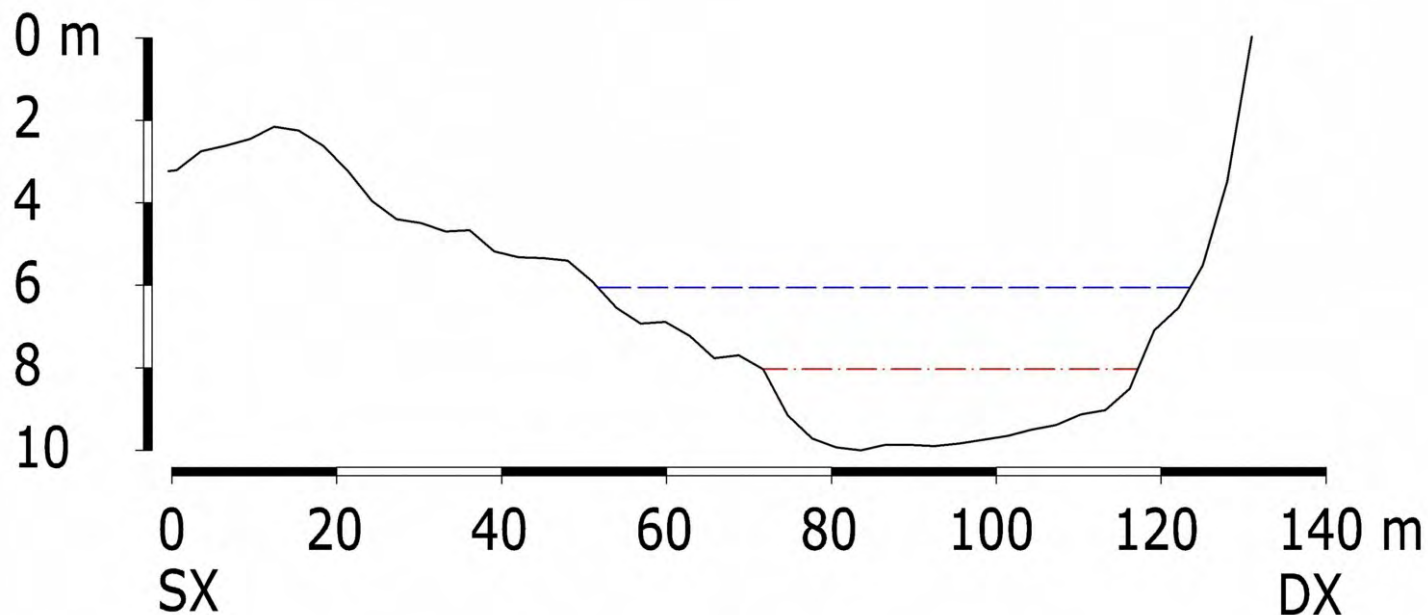


Flood prone area

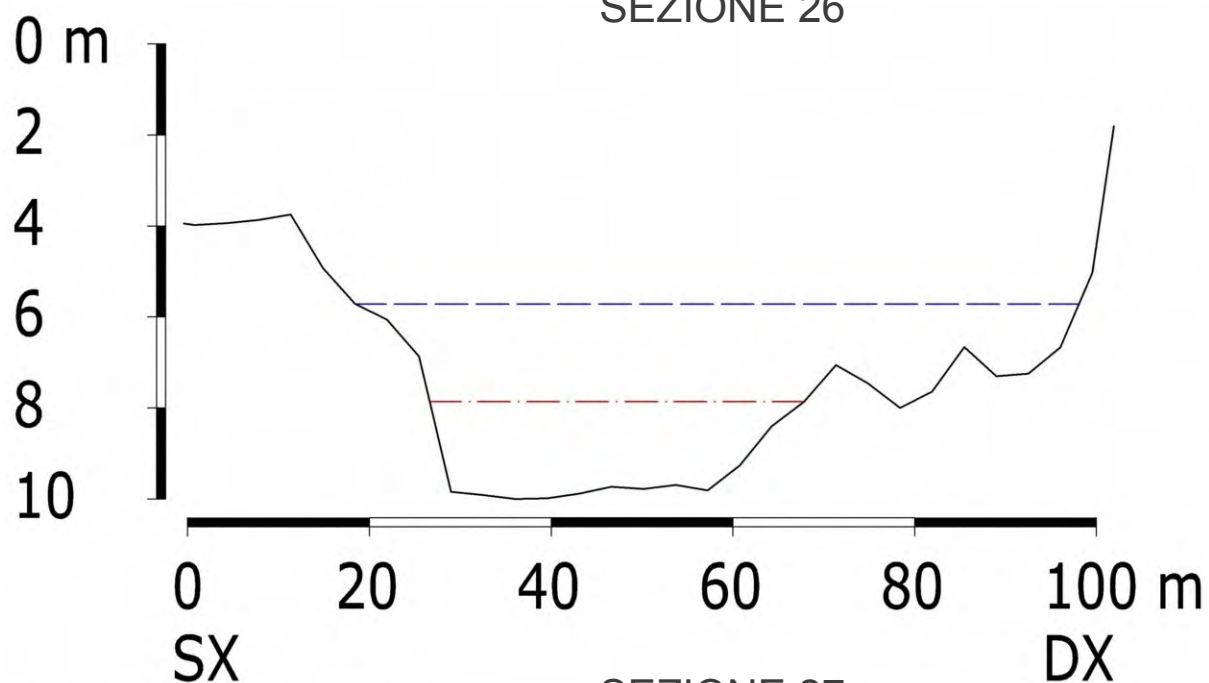


La scala verticale è deformata 5 volte

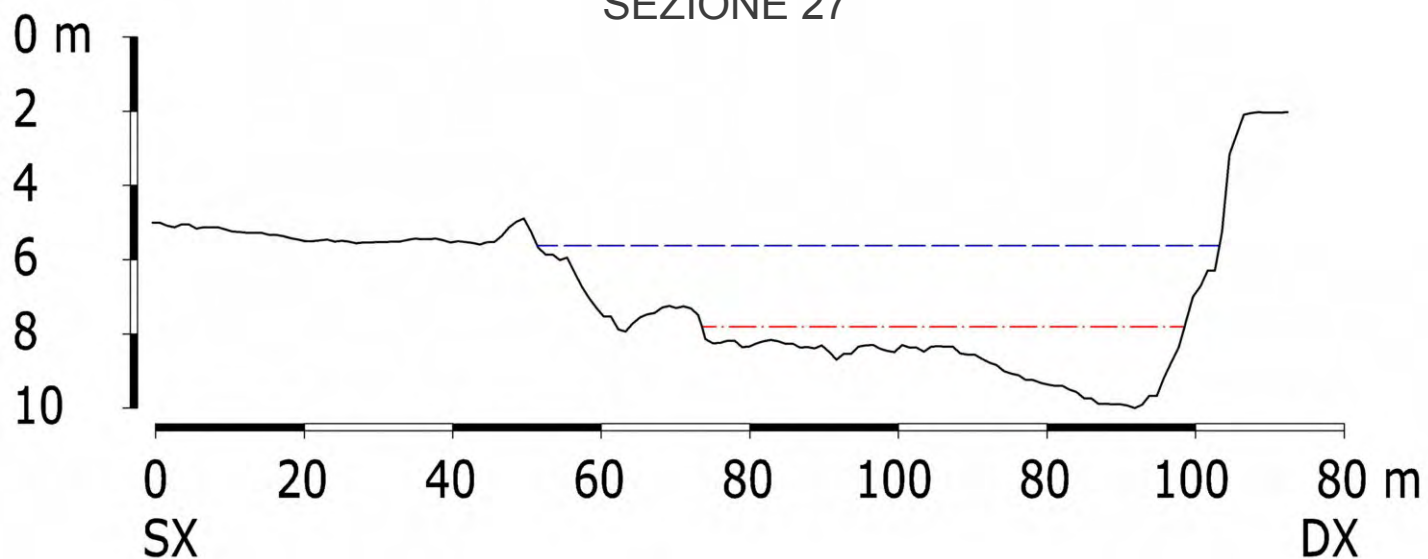
SEZIONE 25



SEZIONE 26



SEZIONE 27



Livello di bankfull

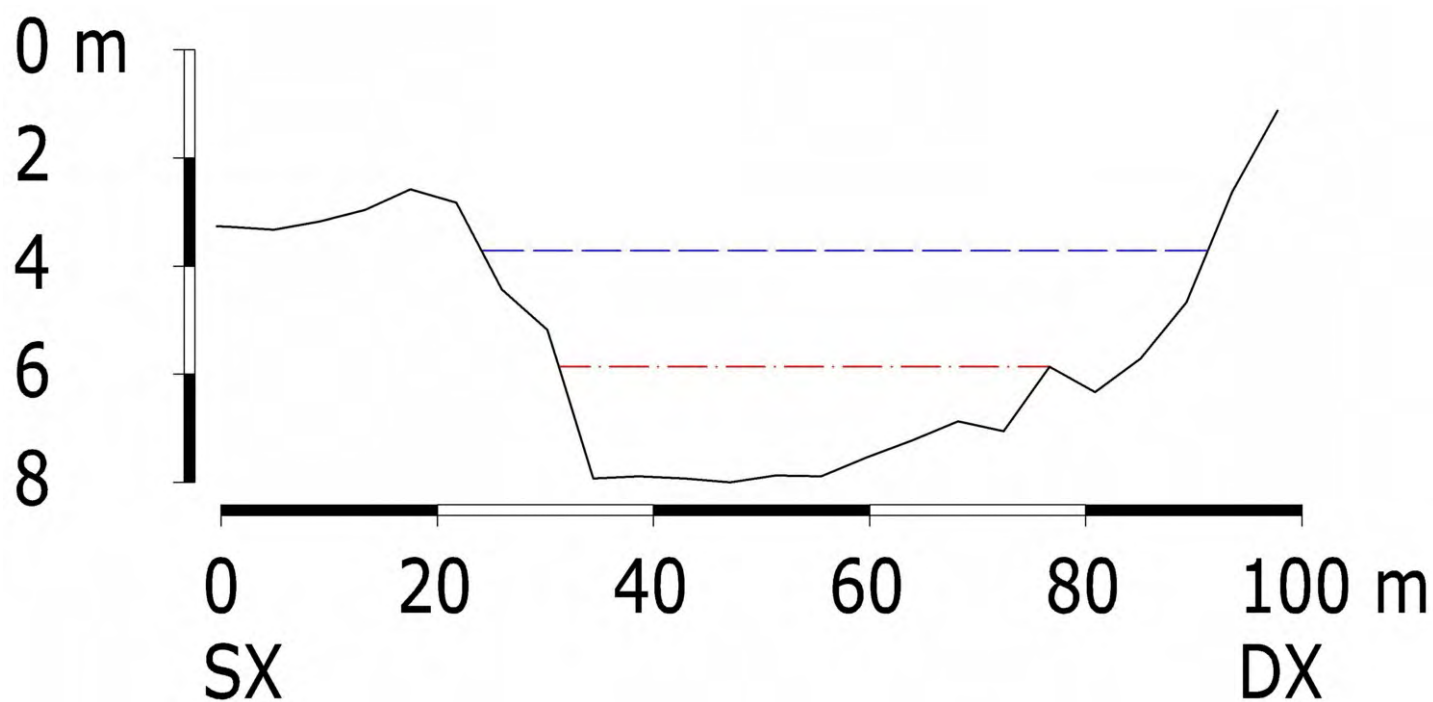


Flood prone area

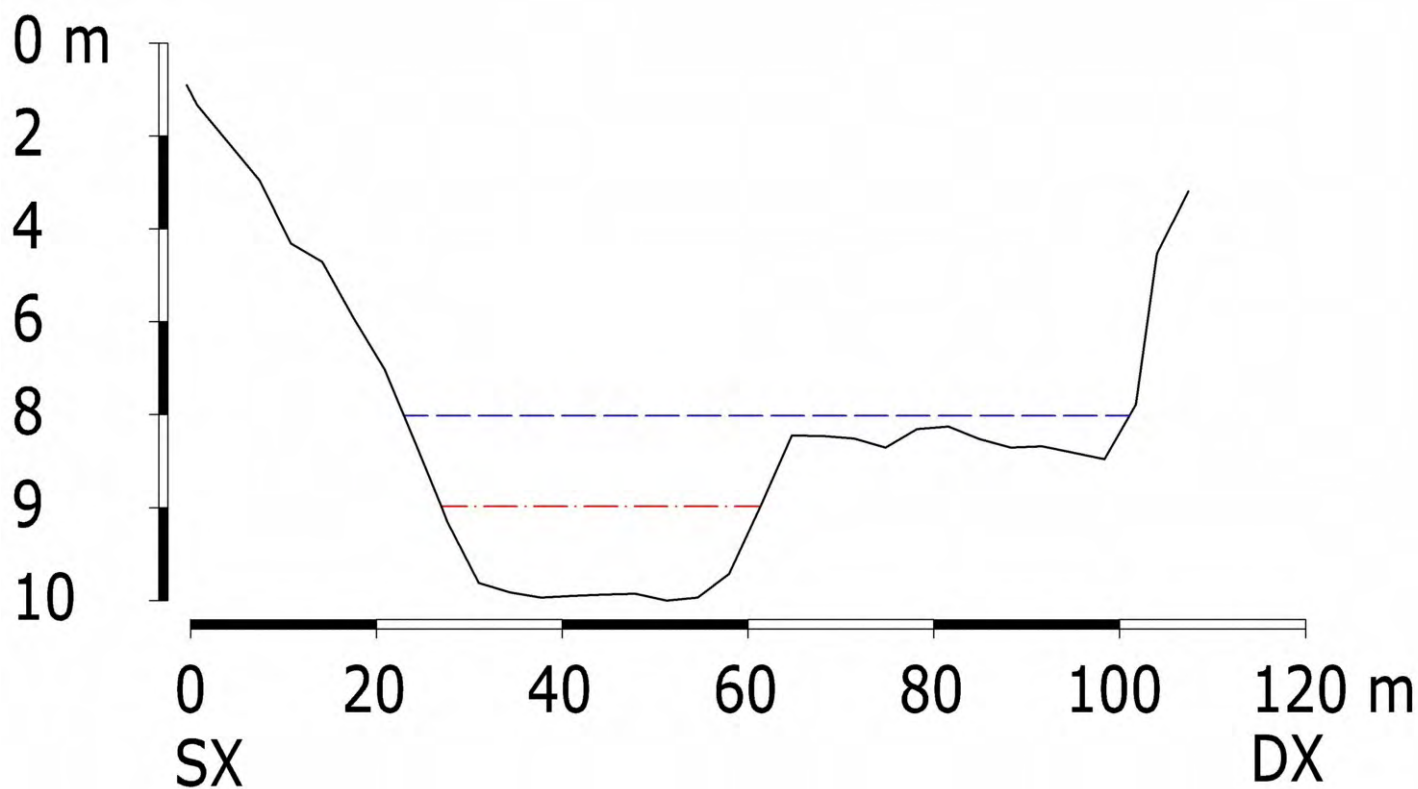


La scala verticale è deformata 5 volte

SEZIONE 28



SEZIONE 29



Livello di bankfull



Flood prone area



La scala verticale è deformata 5 volte



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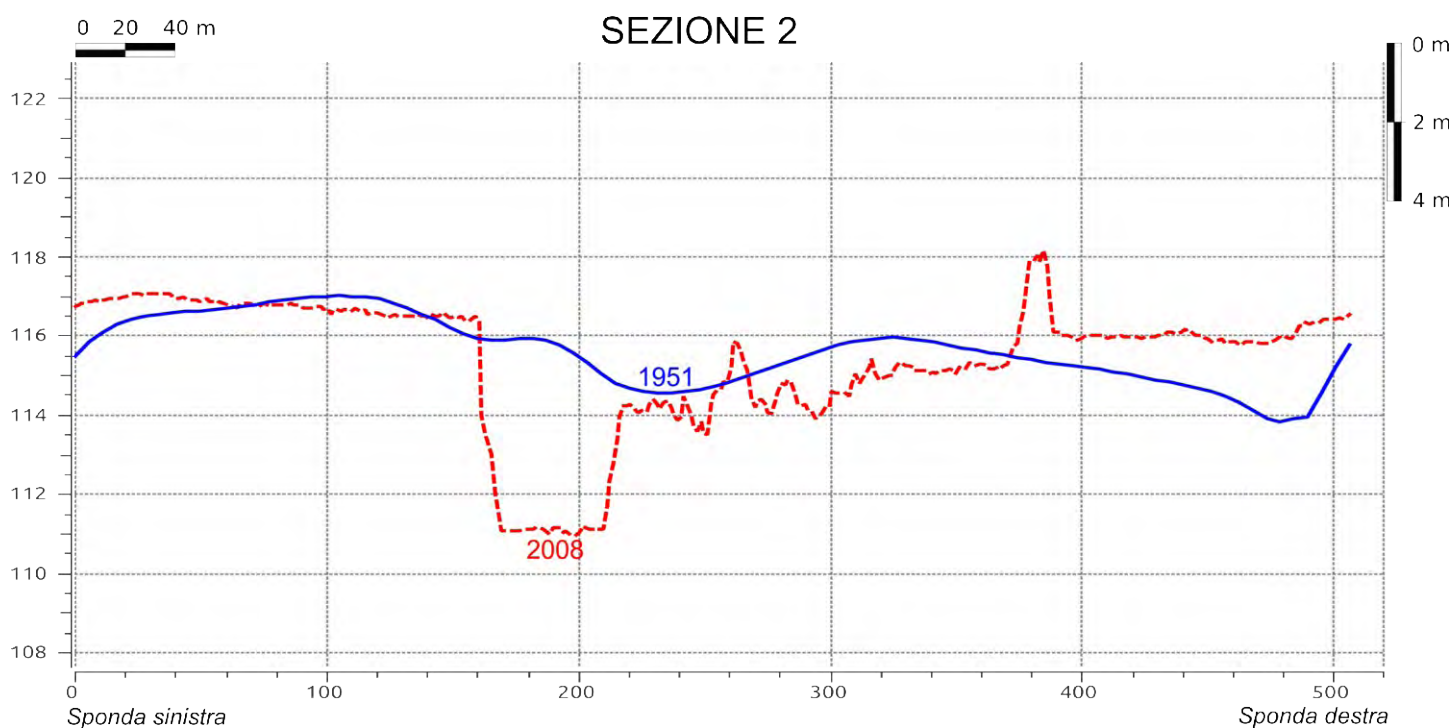
Sezioni di confronto

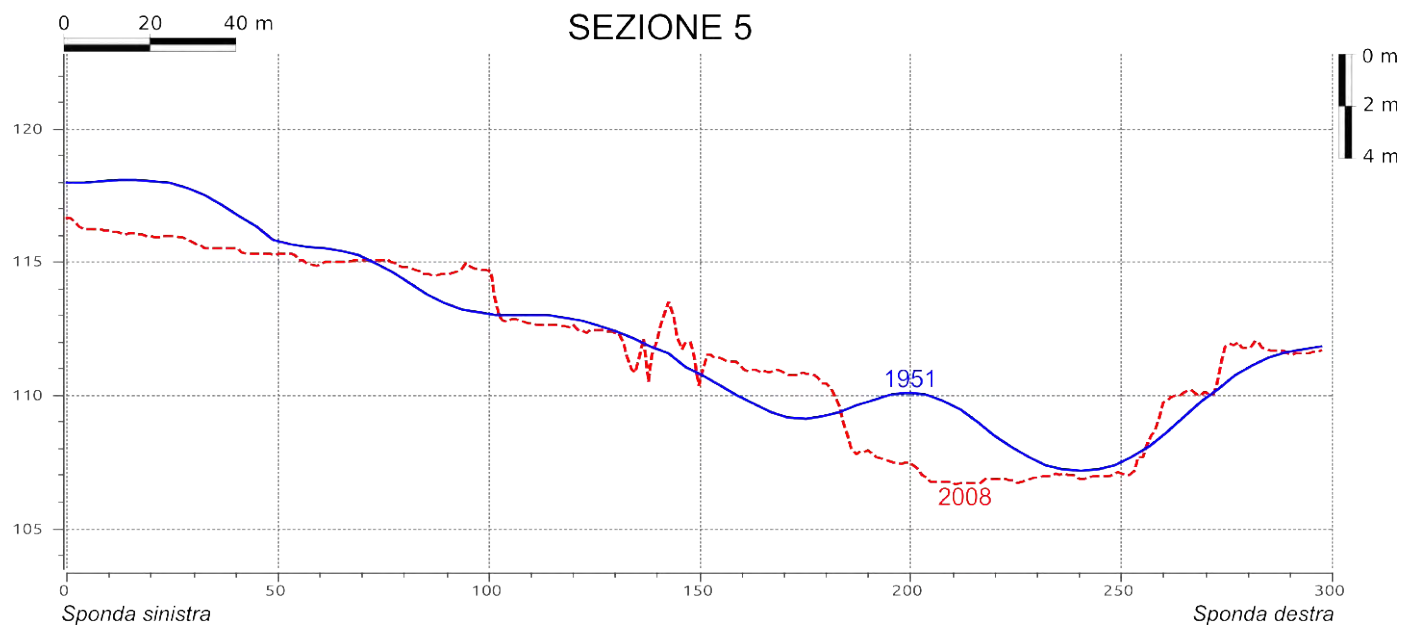
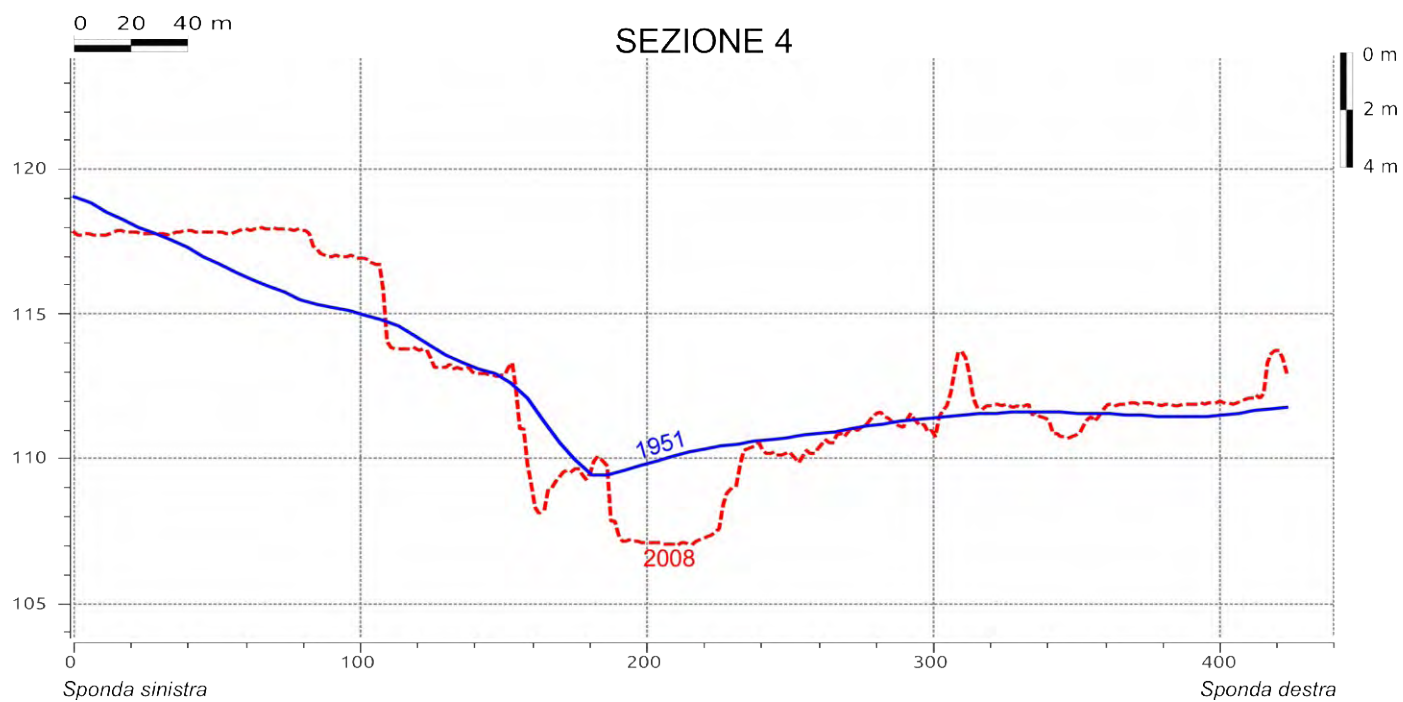
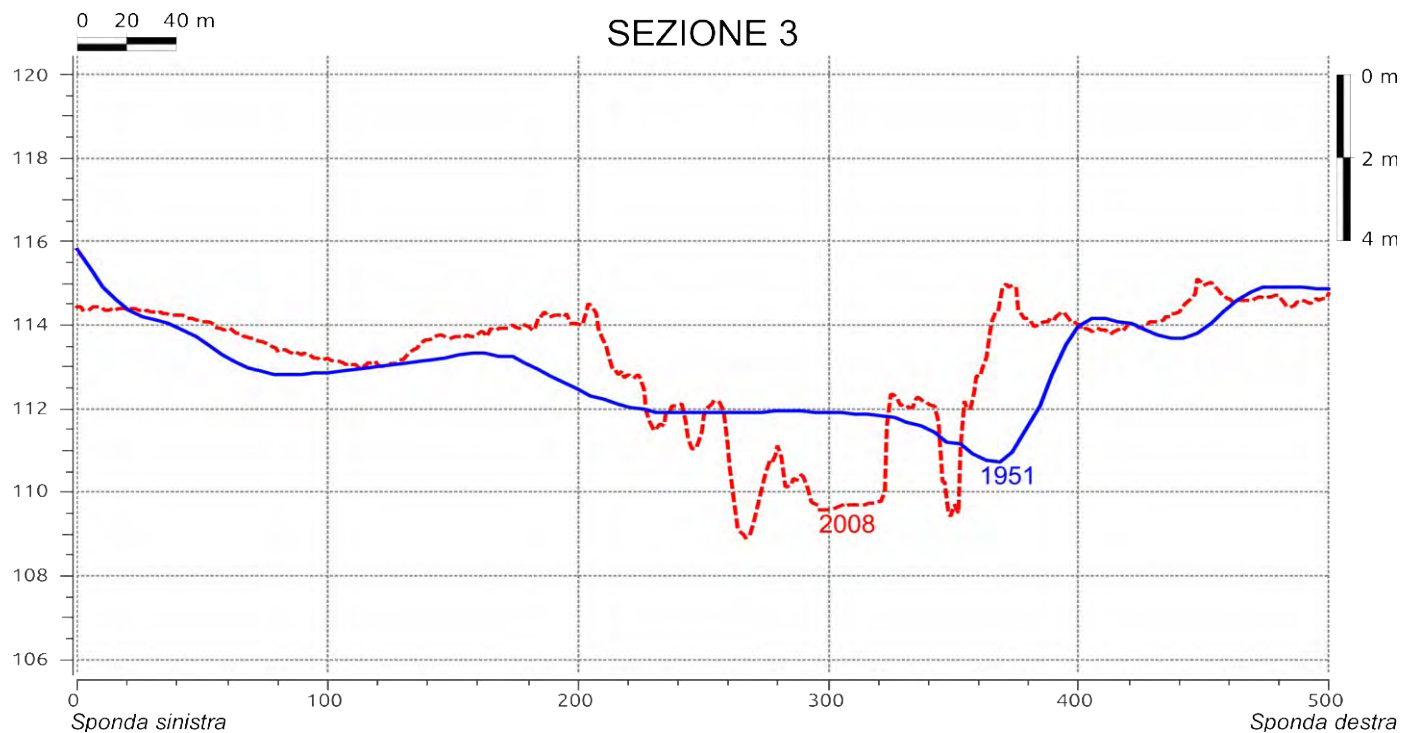
Confronto tra le sezioni del 1951 (Progetto per la sistemazione del Fiume Paglia dalla curva Pantano al Ponte dell'Adunata), le sezioni estratte dal modello digitale del terreno (Autorità di Bacino del F. Tevere – 2008) e le sezioni rilevate dal Consorzio di Bonifica della Val di Chiana Romana e Val di Paglia (Agosto 2009).

Elenco delle sezioni

Sezione	Progressiva AdA
PA_250	50,49
1	50,65
2	51,05
PA_220	51,38
3	52,14
PA_200	52,28
PA_180	52,73
4	52,76
PA_170	53,02
5	53,04

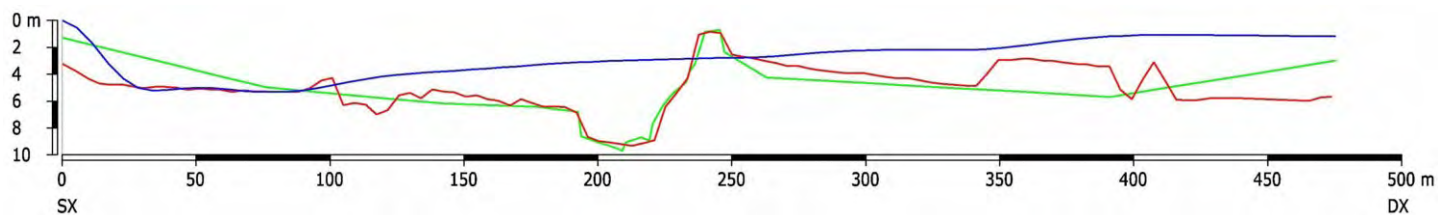
Confronti con le sezioni rilevate nel progetto del 1951



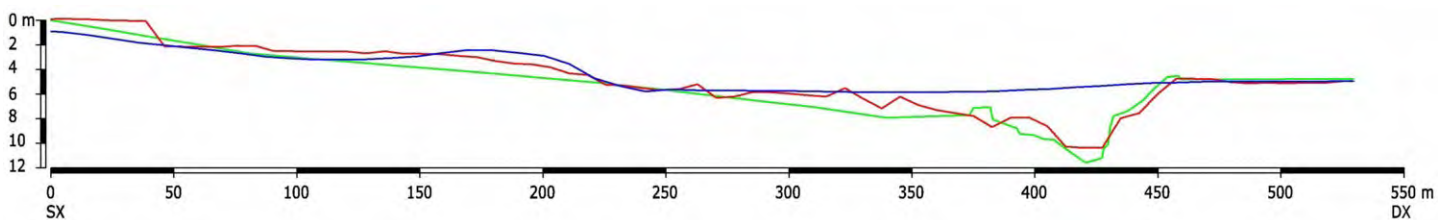


Confronti con le sezioni rilevate dal Consorzio di Bonifica

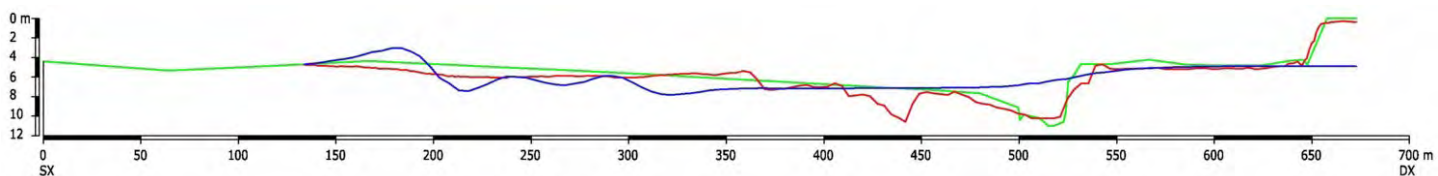
PA 250



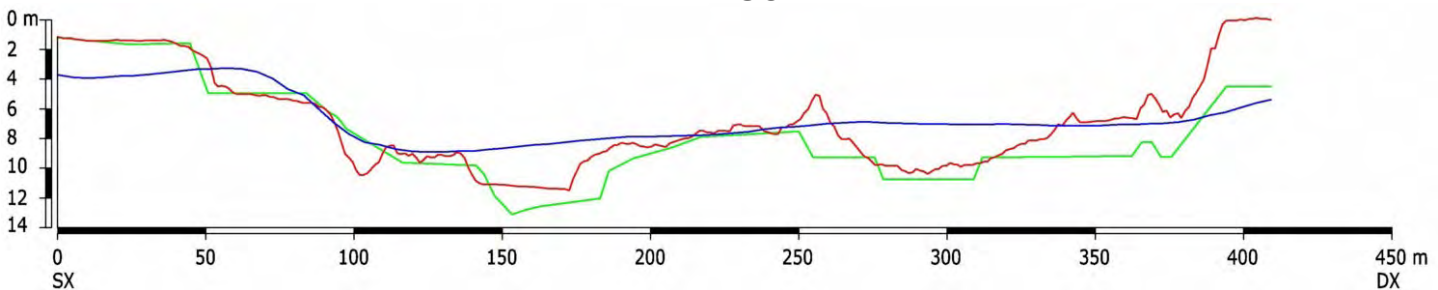
PA 220



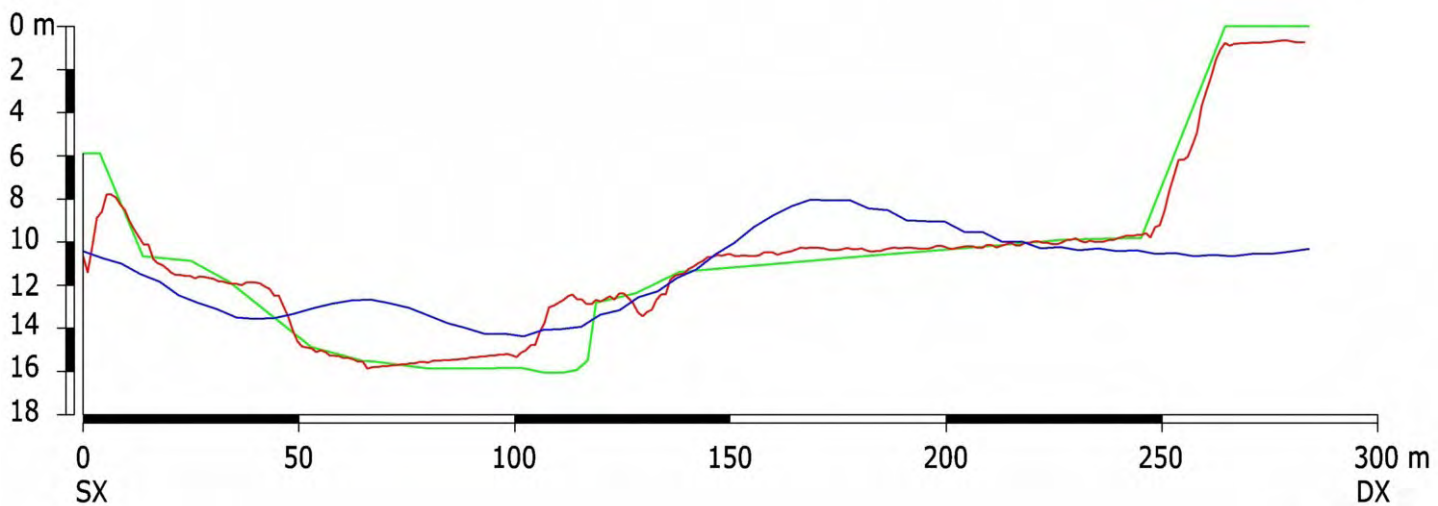
PA 200



PA 180



PA 170



Val di Chiana 2009 — Aut. Bacino Tevere - 2008 — Rilievo 1951 —

La scala verticale è deformata 5 volte



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(Giunta provinciale – Delibera n. 96 del 08/05/2012)

ALLEGATO 2

Stazioni di campionamento granulometrico

N.B. Le schede sono ordinate secondo la posizione sull'asse dell'alveo (AdA)

Elenco delle schede

Scheda	Anno di prelievo	Componente alveo	Posizione sull'asse dell'alveo AdA (km)
D1	2012	Barra	30,5
C1	2011	Testa barra	41,5
C2	2011	Corpo Barra	41,6
C3	2011	Coda barra	41,8
29-barra	2003	Barra	42,2
29-canale	2003	Canale	42,2
29-totale	2003	Barra + canale	42,2
9-canale	2003	Canale	42,5
8-tot	2003	Barra + canale	42,9
D2 barra	2012	Barra	43,2
D2 totale	2012	Barra + canale	43,2
D2 canale	2012	Canale	43,2
7-tot	2003	Barra + canale	43,2
30-barra	2003	Barra	43,6
23-barra	2003	Barra	44,5
D3-totale	2012	Barra + canale	45,5
D3-barra	2012	Barra	45,5
D3-canale	2012	Canale	45,5
6-tot	2003	Barra + canale	45,5
5-barra	2003	Barra	45,7
4-canale	2003	Canale	46,0
3-barra	2003	Barra	46,5
2-tot	2003	Barra + canale	46,8
28-barra	2003	Barra	47,0
22-barra	2003	Barra	47,8
27-barra	2003	Barra	49,1
13-tot	2003	Barra + Canale	49,5
12-barra	2003	Barra	49,8
12-tot	2003	Barra + Canale	49,9
11-tot	2003	Barra + Canale	50,3
10-barra	2003	Barra + Canale	50,8
26-barra	2003	Barra	51,2
21-tot	2003	Barra + Canale	51,7
17-tot	2003	Barra + canale	53,0
16-tot	2003	Barra + canale	53,9
15-canale	2003	Canale	54,4
14tot	2003	Barra + canale	54,6
20bis-tot	2003	Barra + canale	56,0
20-canale	2003	Canale	56,9
1-tot	2003	Barra+canale	57,5
25-barra	2003	Barra	58,0
19-canale	2003	Canale	58,3
18-canale	2003	Canale	58,6

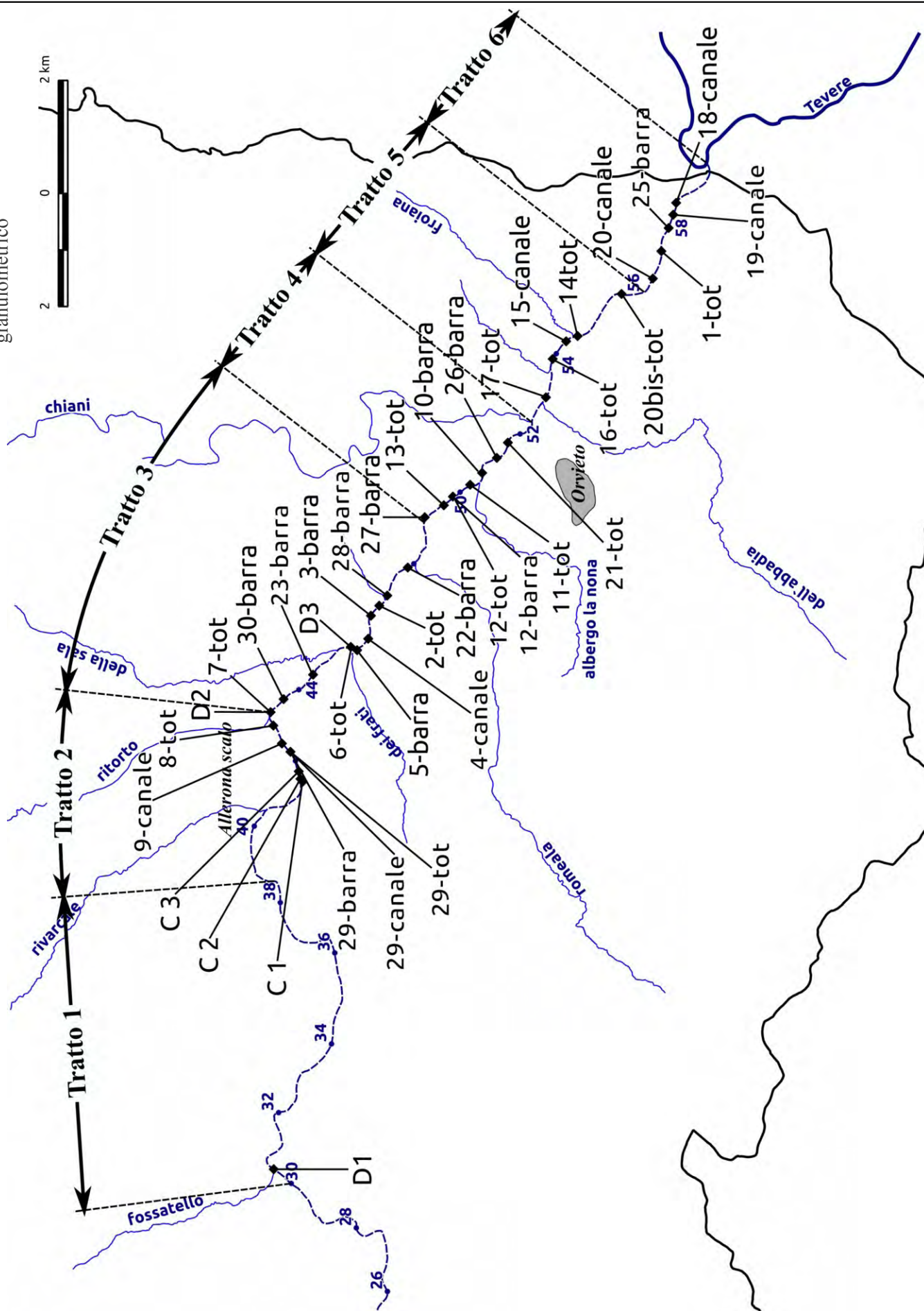
Emissioni:
1 dicembre 2012

Corrado Cencetti Pierluigi De Rosa Andrea Fredduzzi
Paolo Tacconi

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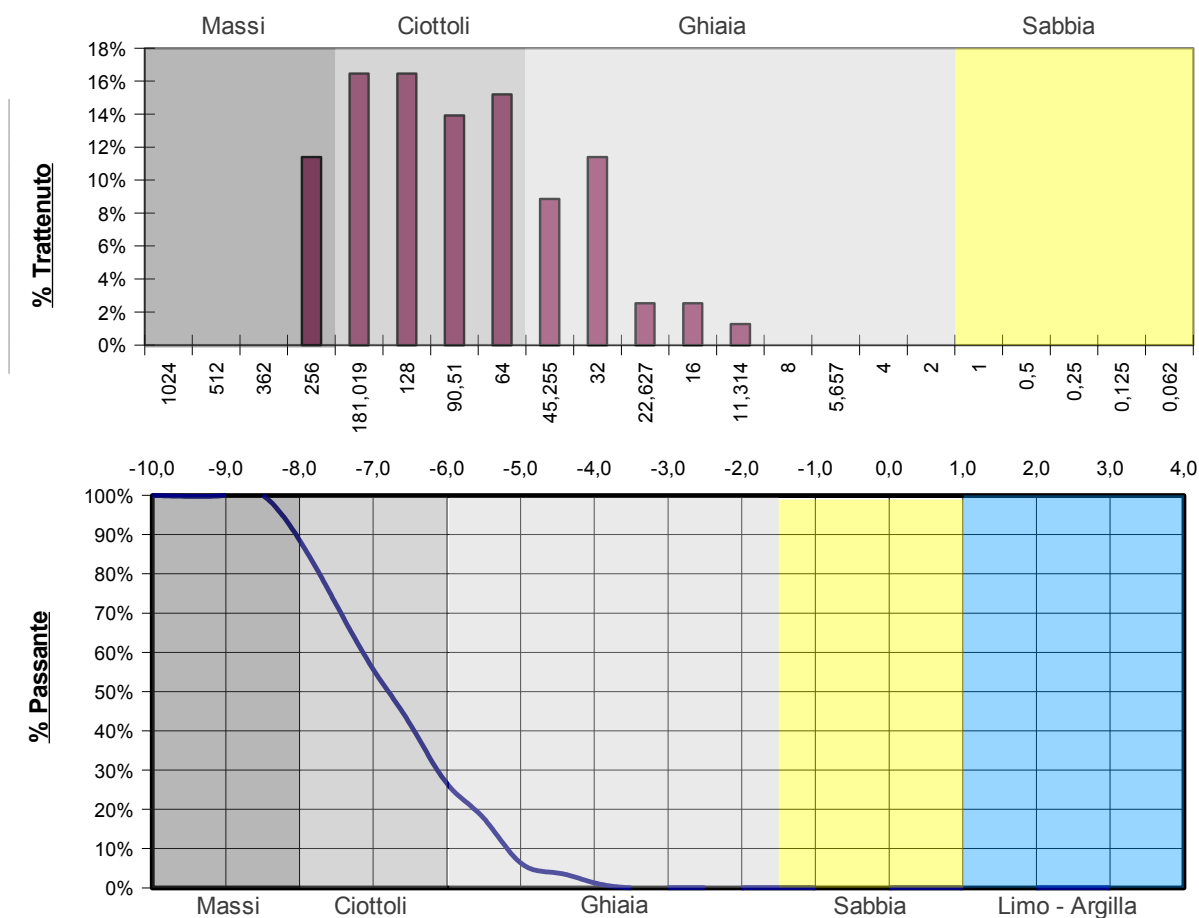


Stazioni di campionamento
granulometrico



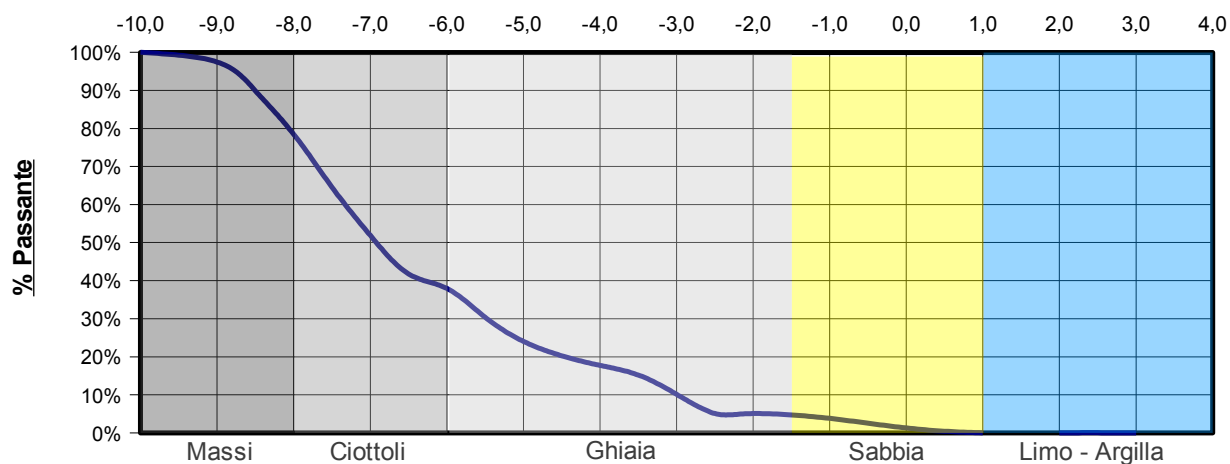
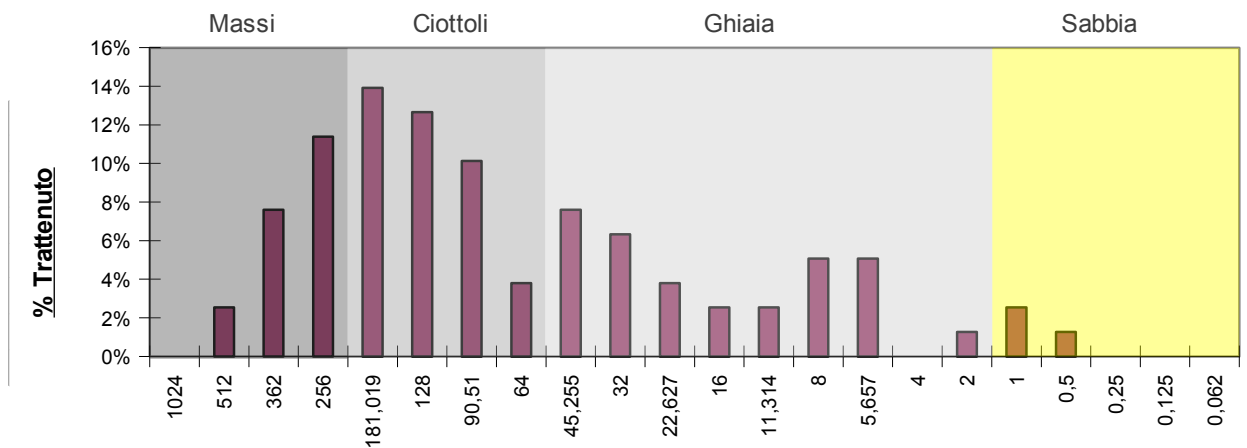
Campione numero = D1barra				Dist. lungo l'asse dell'alveo 30,5		
Numero ciottoli 79				Note:	testa barra	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	9	9	11,392%	11,392%	88,608%
-7,5	181,019	22	13	27,848%	16,456%	72,152%
-7,0	128,000	35	13	44,304%	16,456%	55,696%
-6,5	90,510	46	11	58,228%	13,924%	41,772%
-6,0	64,000	58	12	73,418%	15,190%	26,582%
-5,5	45,255	65	7	82,278%	8,861%	17,722%
-5,0	32,000	74	9	93,671%	11,392%	6,329%
-4,5	22,627	76	2	96,203%	2,532%	3,797%
-4,0	16,000	78	2	98,734%	2,532%	1,266%
-3,5	11,314	79	1	100,000%	1,266%	0,000%
-3,0	8,000	79	0	100,000%	0,000%	0,000%
-2,5	5,657	79	0	100,000%	0,000%	0,000%
-2,0	4,000	79	0	100,000%	0,000%	0,000%
-1,0	2,000	79	0	100,000%	0,000%	0,000%
0,0	1,000	79	0	100,000%	0,000%	0,000%
1,0	0,500	79	0	100,000%	0,000%	0,000%
2,0	0,250	79	0	100,000%	0,000%	0,000%
3,0	0,125	79	0	100,000%	0,000%	0,000%
4,0	0,062	79	0	100,000%	0,000%	0,000%
			79		100,000%	

Note: i punti di misura (grid) sono sul file GARMIN – punti: 510, 511, 512 e 513



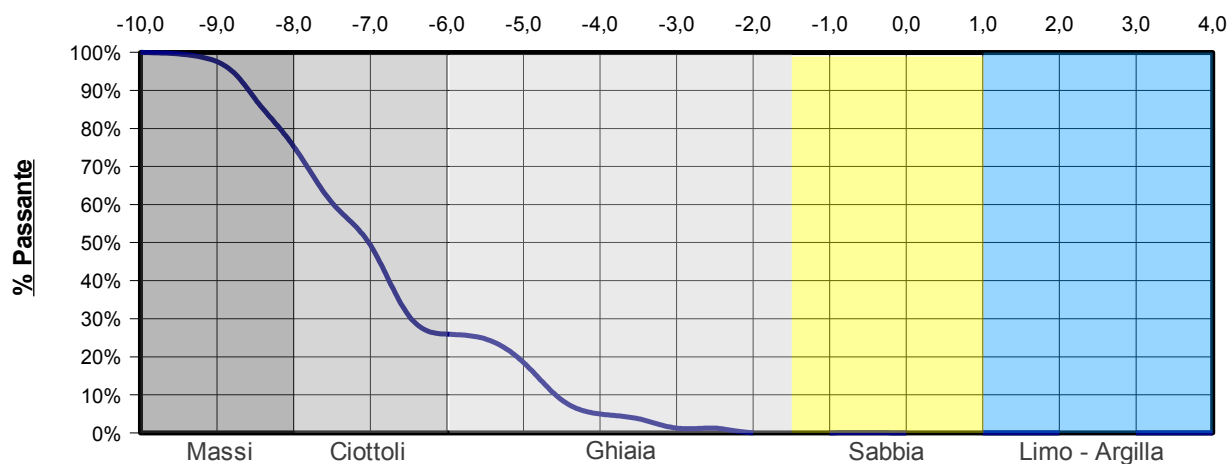
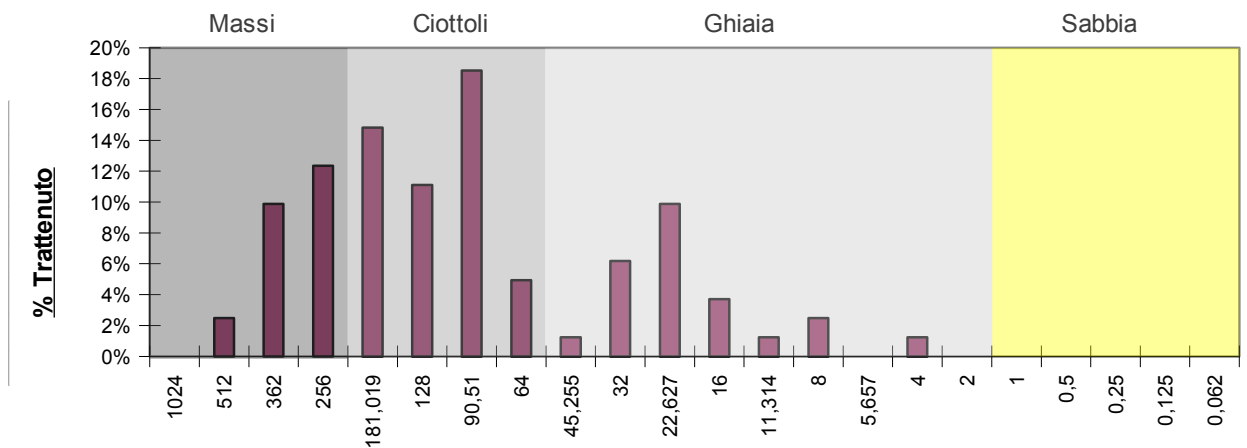
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	134,13	268,96	112,66	36,27	87,79	0,66	2,36

Campione numero = C 1				Dist. lungo l'asse dell'alveo 41,5		
Numero ciottoli 79				Note:	testa barra	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	2	2	2,532%	2,532%	97,468%
-8,5	362	8	6	10,127%	7,595%	89,873%
-8,0	256,000	17	9	21,519%	11,392%	78,481%
-7,5	181,019	28	11	35,443%	13,924%	64,557%
-7,0	128,000	38	10	48,101%	12,658%	51,899%
-6,5	90,510	46	8	58,228%	10,127%	41,772%
-6,0	64,000	49	3	62,025%	3,797%	37,975%
-5,5	45,255	55	6	69,620%	7,595%	30,380%
-5,0	32,000	60	5	75,949%	6,329%	24,051%
-4,5	22,627	63	3	79,747%	3,797%	20,253%
-4,0	16,000	65	2	82,278%	2,532%	17,722%
-3,5	11,314	67	2	84,810%	2,532%	15,190%
-3,0	8,000	71	4	89,873%	5,063%	10,127%
-2,5	5,657	75	4	94,937%	5,063%	5,063%
-2,0	4,000	75	0	94,937%	0,000%	5,063%
-1,0	2,000	76	1	96,203%	1,266%	3,797%
0,0	1,000	78	2	98,734%	2,532%	1,266%
1,0	0,500	79	1	100,000%	1,266%	0,000%
2,0	0,250	79	0	100,000%	0,000%	0,000%
3,0	0,125	79	0	100,000%	0,000%	0,000%
4,0	0,062	79	0	100,000%	0,000%	0,000%
			79		100,000%	



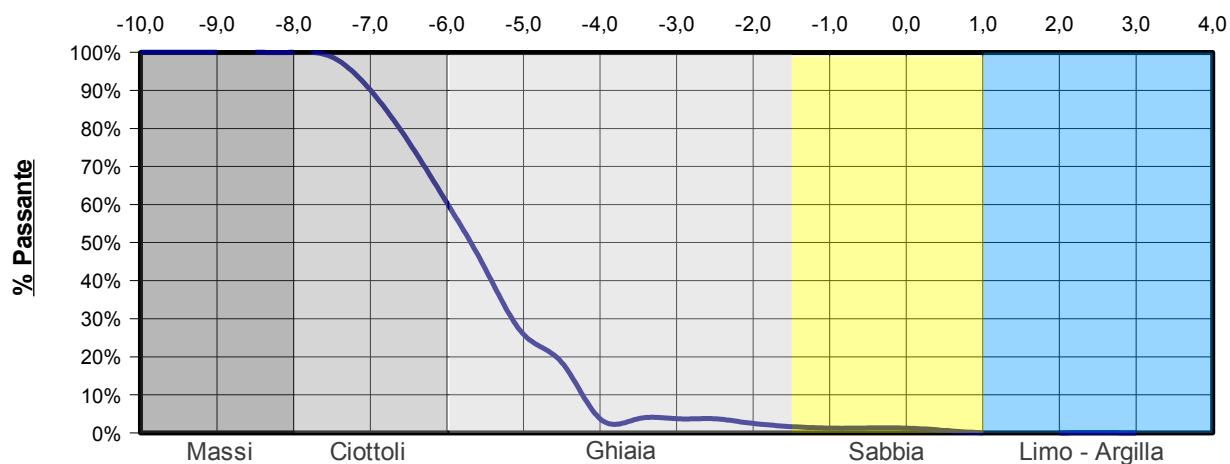
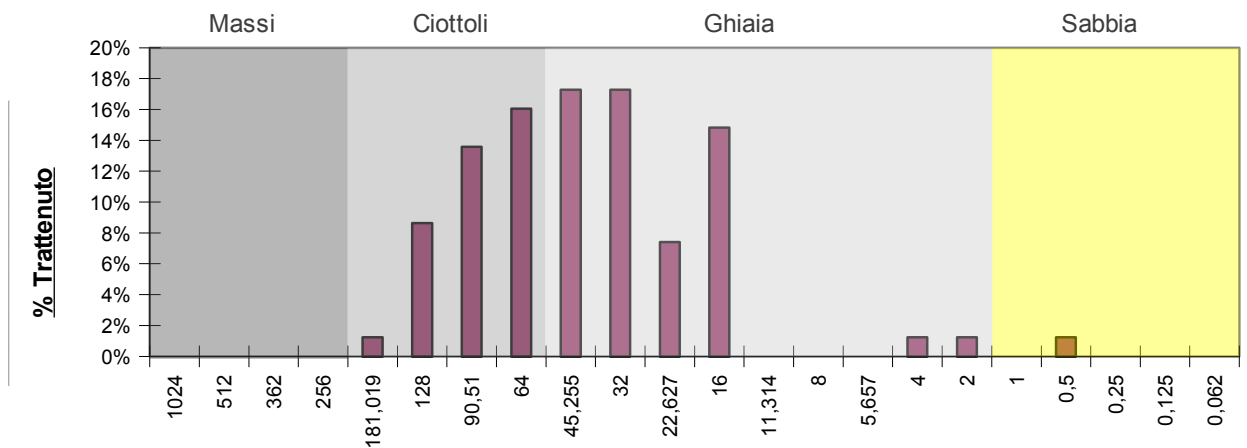
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	161,20	364,50	120,97	7,94	160,64	1,59	6,12

Campione numero = C 2				Dist. lungo l'asse dell'alveo 41,6		
Numero ciottoli 81				Note:	corpo barra	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	2	2	2,469%	2,469%	97,531%
-8,5	362	10	8	12,346%	9,877%	87,654%
-8,0	256,000	20	10	24,691%	12,346%	75,309%
-7,5	181,019	32	12	39,506%	14,815%	60,494%
-7,0	128,000	41	9	50,617%	11,111%	49,383%
-6,5	90,510	56	15	69,136%	18,519%	30,864%
-6,0	64,000	60	4	74,074%	4,938%	25,926%
-5,5	45,255	61	1	75,309%	1,235%	24,691%
-5,0	32,000	66	5	81,481%	6,173%	18,519%
-4,5	22,627	74	8	91,358%	9,877%	8,642%
-4,0	16,000	77	3	95,062%	3,704%	4,938%
-3,5	11,314	78	1	96,296%	1,235%	3,704%
-3,0	8,000	80	2	98,765%	2,469%	1,235%
-2,5	5,657	80	0	98,765%	0,000%	1,235%
-2,0	4,000	81	1	100,000%	1,235%	0,000%
-1,0	2,000	81	0	100,000%	0,000%	0,000%
0,0	1,000	81	0	100,000%	0,000%	0,000%
1,0	0,500	81	0	100,000%	0,000%	0,000%
2,0	0,250	81	0	100,000%	0,000%	0,000%
3,0	0,125	81	0	100,000%	0,000%	0,000%
4,0	0,062	81	0	100,000%	0,000%	0,000%
			81		100,000%	



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	180,80	397,63	130,95	23,92	158,04	1,48	5,70

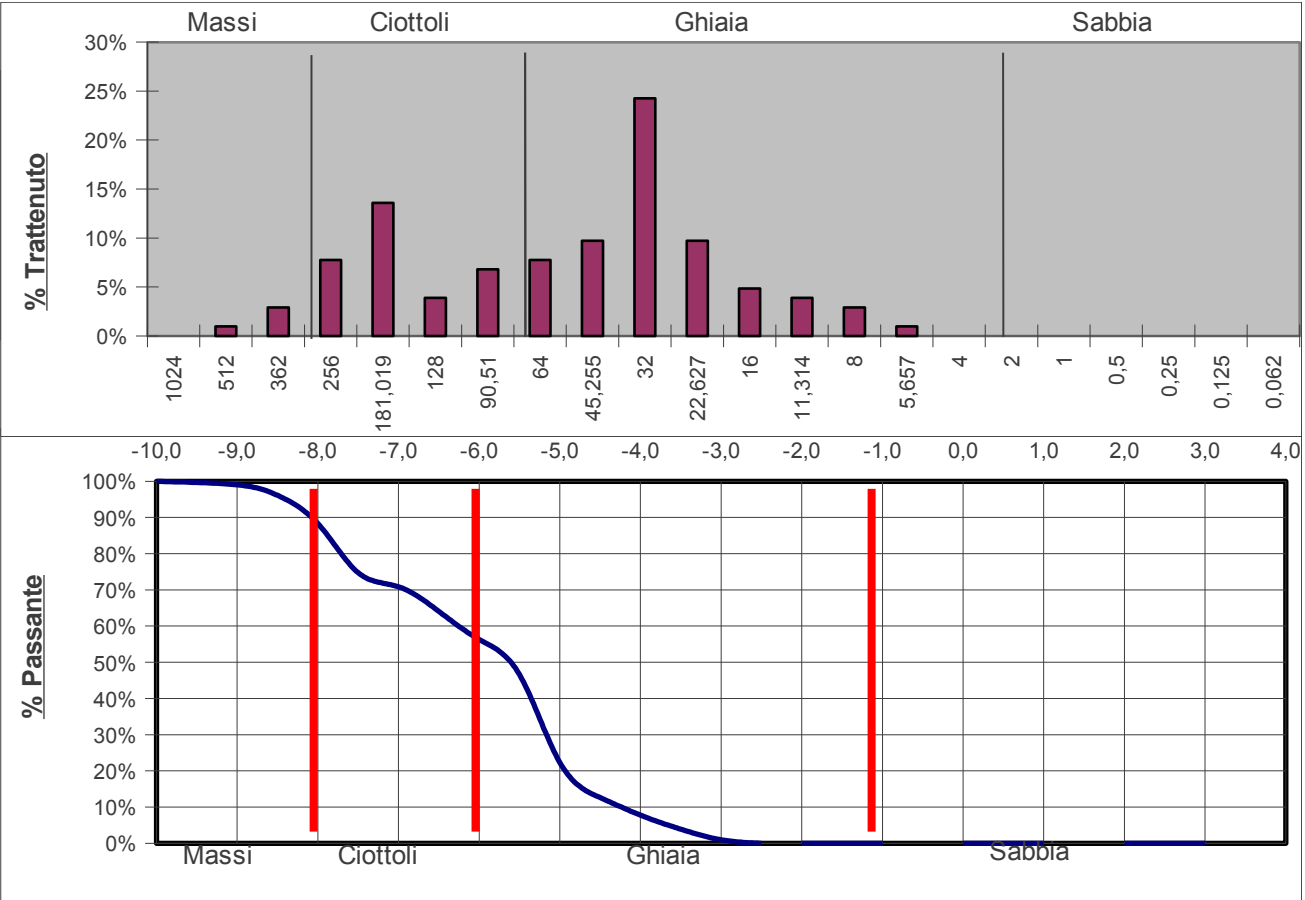
Campione numero = C 3				Dist. lungo l'asse dell'alveo 41,8		
Numero ciottoli 81				Note:	coda barra	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	0		0,000%		100,000%
-7,5	181,019	1	1	1,235%	1,235%	98,765%
-7,0	128,000	8	7	9,877%	8,642%	90,123%
-6,5	90,510	19	11	23,457%	13,580%	76,543%
-6,0	64,000	32	13	39,506%	16,049%	60,494%
-5,5	45,255	46	14	56,790%	17,284%	43,210%
-5,0	32,000	60	14	74,074%	17,284%	25,926%
-4,5	22,627	66	6	81,481%	7,407%	18,519%
-4,0	16,000	78	12	96,296%	14,815%	3,704%
-3,5	11,314	78	0	96,296%	0,000%	3,704%
-3,0	8,000	78	0	96,296%	0,000%	3,704%
-2,5	5,657	78	0	96,296%	0,000%	3,704%
-2,0	4,000	79	1	97,531%	1,235%	2,469%
-1,0	2,000	80	1	98,765%	1,235%	1,235%
0,0	1,000	80	0	98,765%	0,000%	1,235%
1,0	0,500	81	1	100,000%	1,235%	0,000%
2,0	0,250	81	0	100,000%	0,000%	0,000%
3,0	0,125	81	0	100,000%	0,000%	0,000%
4,0	0,062	81	0	100,000%	0,000%	0,000%
			81		100,000%	



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	64,39	127,66	52,62	18,82	44,38	1,05	3,76

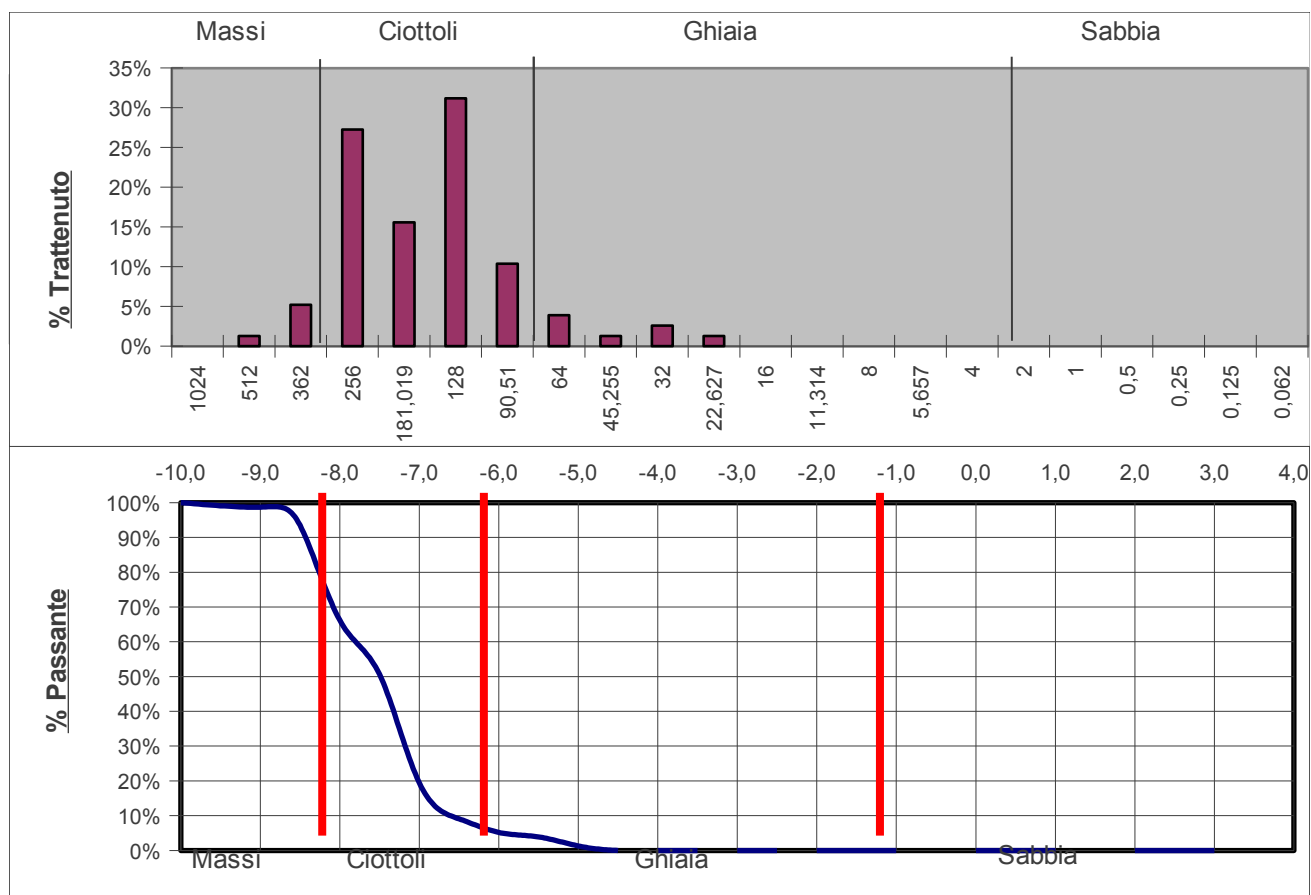
Campione numero = 29-barra				Dist. lungo l'asse dell'alveo 42,2		
Numero ciottoli 103				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	1	1	0,971%	0,971%	99,029%
-8,5	362	4	3	3,883%	2,913%	96,117%
-8,0	256,000	12	8	11,650%	7,767%	88,350%
-7,5	181,019	26	14	25,243%	13,592%	74,757%
-7,0	128,000	30	4	29,126%	3,883%	70,874%
-6,5	90,510	37	7	35,922%	6,796%	64,078%
-6,0	64,000	45	8	43,689%	7,767%	56,311%
-5,5	45,255	55	10	53,398%	9,709%	46,602%
-5,0	32,000	80	25	77,670%	24,272%	22,330%
-4,5	22,627	90	10	87,379%	9,709%	12,621%
-4,0	16,000	95	5	92,233%	4,854%	7,767%
-3,5	11,314	99	4	96,117%	3,883%	3,883%
-3,0	8,000	102	3	99,029%	2,913%	0,971%
-2,5	5,657	103	1	100,000%	0,971%	0,000%
-2,0	4,000	103	0	100,000%	0,000%	0,000%
-1,0	2,000	103	0	100,000%	0,000%	0,000%
0,0	1,000	103	0	100,000%	0,000%	0,000%
1,0	0,500	103	0	100,000%	0,000%	0,000%
2,0	0,250	103	0	100,000%	0,000%	0,000%
3,0	0,125	103	0	100,000%	0,000%	0,000%
4,0	0,062	103	0	100,000%	0,000%	0,000%
			103		100,000%	

NOTE: il campionamento viene effettuato tramite grid sulla barra



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	112,46	278,53	51,82	19,05	124,51	2,17	9,46

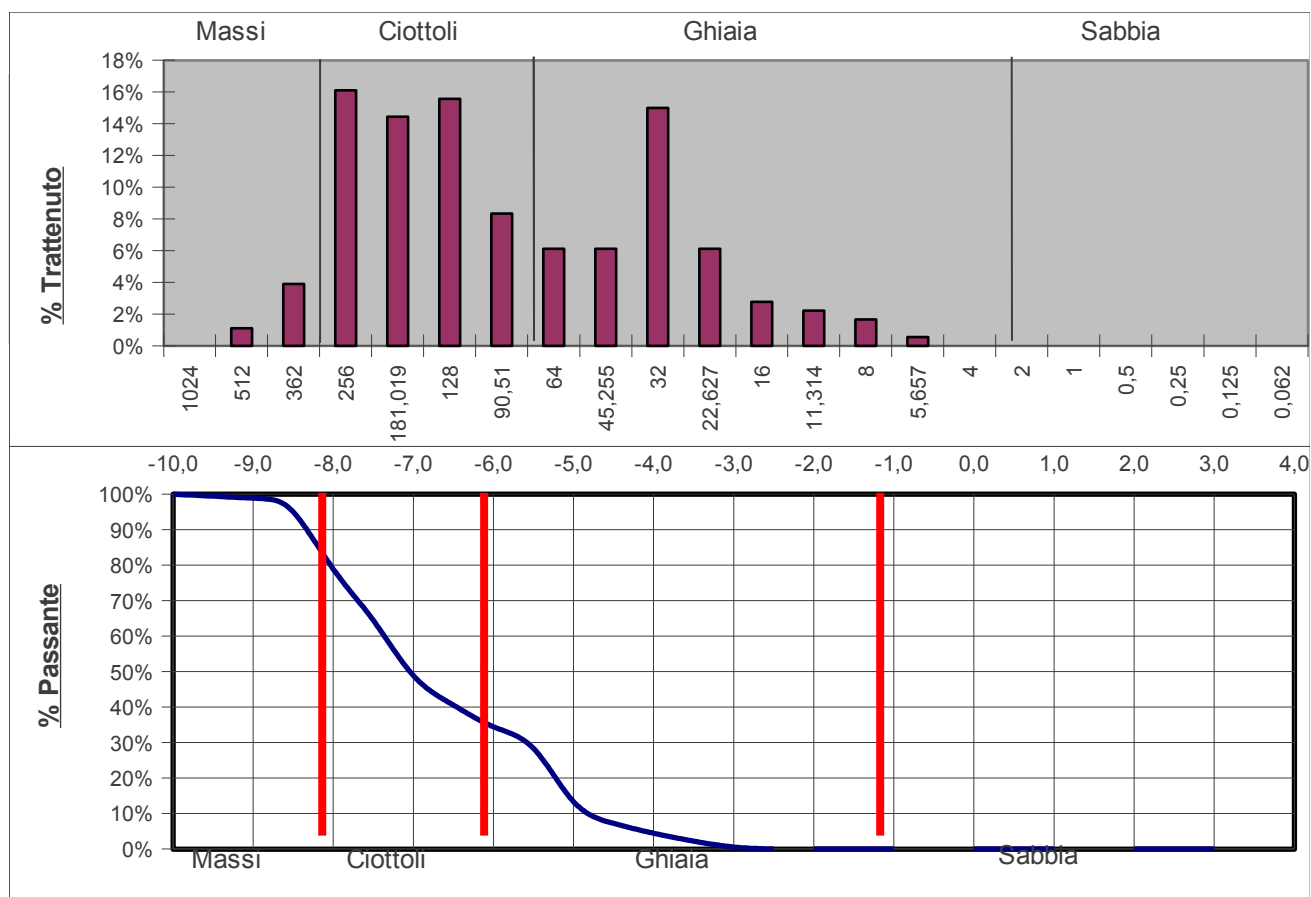
Campione numero = 29-canale				Dist. lungo l'asse dell'alveo 42,2		
Numero ciottoli 77				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	1	1	1,299%	1,299%	98,701%
-8,5	362	5	4	6,494%	5,195%	93,506%
-8,0	256,000	26	21	33,766%	27,273%	66,234%
-7,5	181,019	38	12	49,351%	15,584%	50,649%
-7,0	128,000	62	24	80,519%	31,169%	19,481%
-6,5	90,510	70	8	90,909%	10,390%	9,091%
-6,0	64,000	73	3	94,805%	3,896%	5,195%
-5,5	45,255	74	1	96,104%	1,299%	3,896%
-5,0	32,000	76	2	98,701%	2,597%	1,299%
-4,5	22,627	77	1	100,000%	1,299%	0,000%
-4,0	16,000	77	0	100,000%	0,000%	0,000%
-3,5	11,314	77	0	100,000%	0,000%	0,000%
-3,0	8,000	77	0	100,000%	0,000%	0,000%
-2,5	5,657	77	0	100,000%	0,000%	0,000%
-2,0	4,000	77	0	100,000%	0,000%	0,000%
-1,0	2,000	77	0	100,000%	0,000%	0,000%
0,0	1,000	77	0	100,000%	0,000%	0,000%
1,0	0,500	77	0	100,000%	0,000%	0,000%
2,0	0,250	77	0	100,000%	0,000%	0,000%
3,0	0,125	77	0	100,000%	0,000%	0,000%
4,0	0,062	77	0	100,000%	0,000%	0,000%
			77		100,000%	



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	215,59	348,37	179,91	93,79	116,55	1,51	7,79

Campione numero =			29-totale	Dist. lungo l'asse dell'alveo			42,2
Numero ciottoli			180	Note:			
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante	
-10,0	1024	0		0,000%		100,000%	
-9,0	512	2	2	1,111%	1,111%	98,889%	
-8,5	362	9	7	5,000%	3,889%	95,000%	
-8,0	256,000	38	29	21,111%	16,111%	78,889%	
-7,5	181,019	64	26	35,556%	14,444%	64,444%	
-7,0	128,000	92	28	51,111%	15,556%	48,889%	
-6,5	90,510	107	15	59,444%	8,333%	40,556%	
-6,0	64,000	118	11	65,556%	6,111%	34,444%	
-5,5	45,255	129	11	71,667%	6,111%	28,333%	
-5,0	32,000	156	27	86,667%	15,000%	13,333%	
-4,5	22,627	167	11	92,778%	6,111%	7,222%	
-4,0	16,000	172	5	95,556%	2,778%	4,444%	
-3,5	11,314	176	4	97,778%	2,222%	2,222%	
-3,0	8,000	179	3	99,444%	1,667%	0,556%	
-2,5	5,657	180	1	100,000%	0,556%	0,000%	
-2,0	4,000	180	0	100,000%	0,000%	0,000%	
-1,0	2,000	180	0	100,000%	0,000%	0,000%	
0,0	1,000	180	0	100,000%	0,000%	0,000%	
1,0	0,500	180	0	100,000%	0,000%	0,000%	
2,0	0,250	180	0	100,000%	0,000%	0,000%	
3,0	0,125	180	0	100,000%	0,000%	0,000%	
4,0	0,062	180	0	100,000%	0,000%	0,000%	
			180		100,000%		

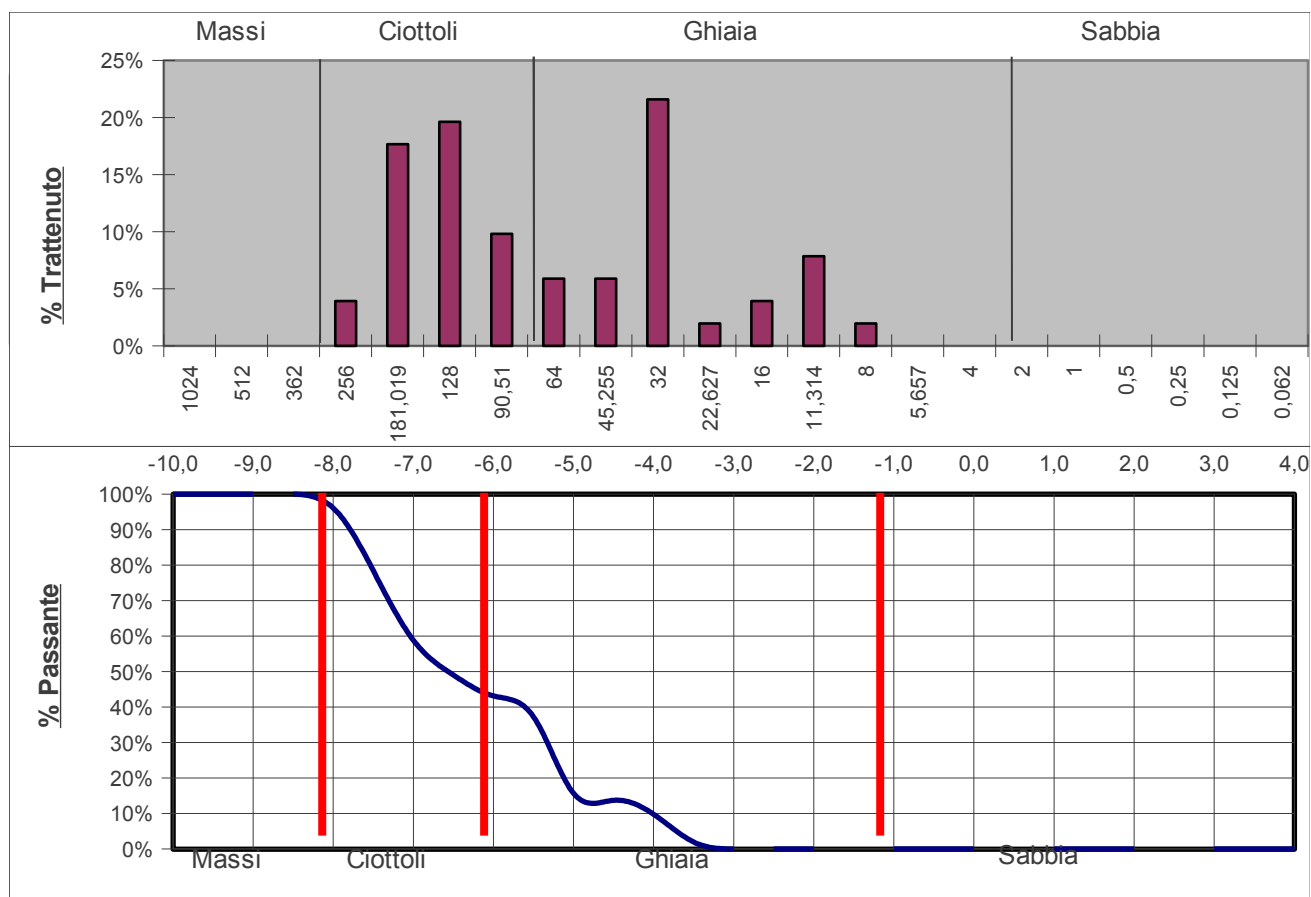
NOTE: il campionamento è relativo sia alla barra che al canale



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	156,57	329,10	131,79	26,89	131,47	1,46	6,59

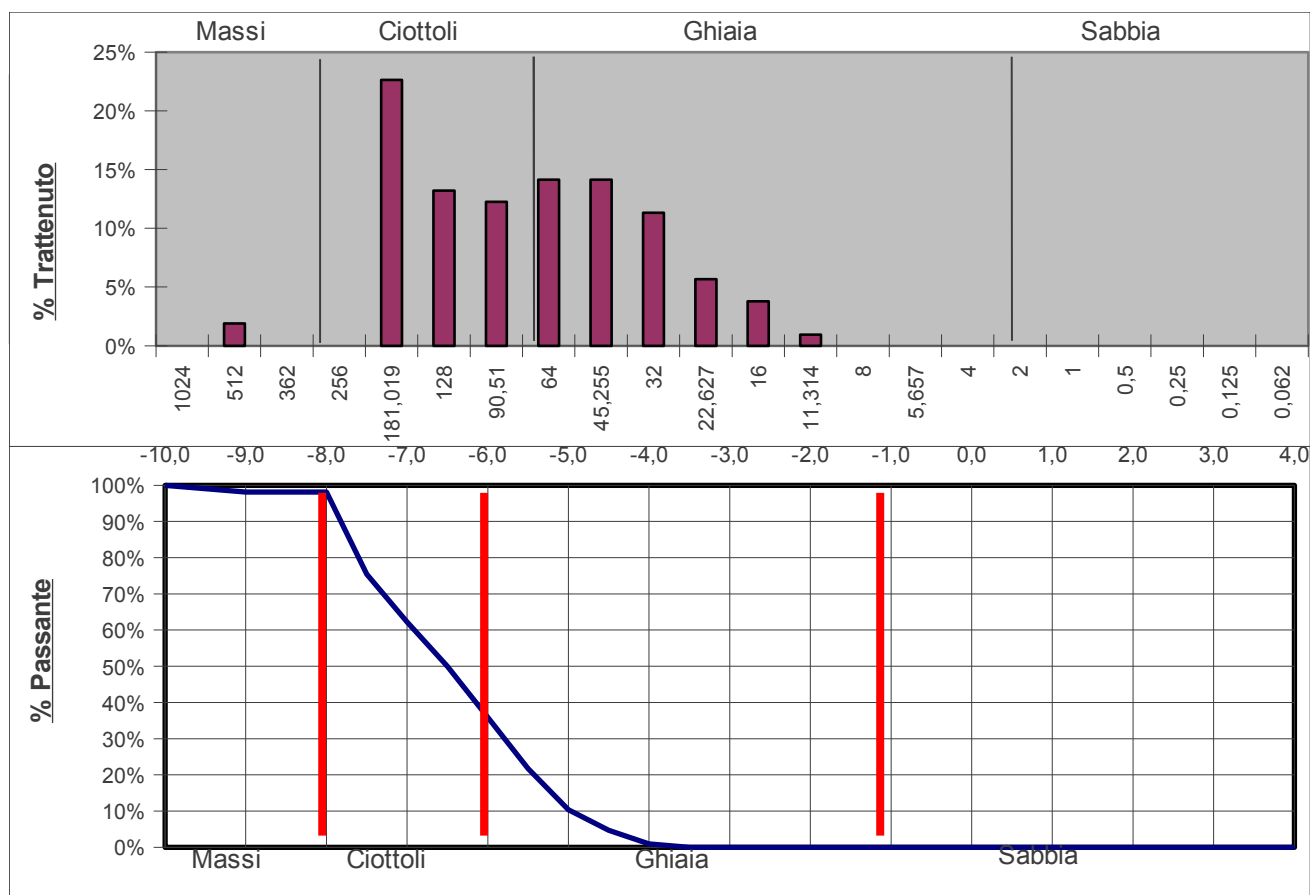
Campione numero = 9-canale				Dist. lungo l'asse dell'alveo 42,5		
Numero ciottoli 51				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	2	2	3,922%	3,922%	96,078%
-7,5	181,019	11	9	21,569%	17,647%	78,431%
-7,0	128,000	21	10	41,176%	19,608%	58,824%
-6,5	90,510	26	5	50,980%	9,804%	49,020%
-6,0	64,000	29	3	56,863%	5,882%	43,137%
-5,5	45,255	32	3	62,745%	5,882%	37,255%
-5,0	32,000	43	11	84,314%	21,569%	15,686%
-4,5	22,627	44	1	86,275%	1,961%	13,725%
-4,0	16,000	46	2	90,196%	3,922%	9,804%
-3,5	11,314	50	4	98,039%	7,843%	1,961%
-3,0	8,000	51	1	100,000%	1,961%	0,000%
-2,5	5,657	51	0	100,000%	0,000%	0,000%
-2,0	4,000	51	0	100,000%	0,000%	0,000%
-1,0	2,000	51	0	100,000%	0,000%	0,000%
0,0	1,000	51	0	100,000%	0,000%	0,000%
1,0	0,500	51	0	100,000%	0,000%	0,000%
2,0	0,250	51	0	100,000%	0,000%	0,000%
3,0	0,125	51	0	100,000%	0,000%	0,000%
4,0	0,062	51	0	100,000%	0,000%	0,000%
			51		100,000%	

NOTE: il campionamento viene effettuato sulla base di un transetto.



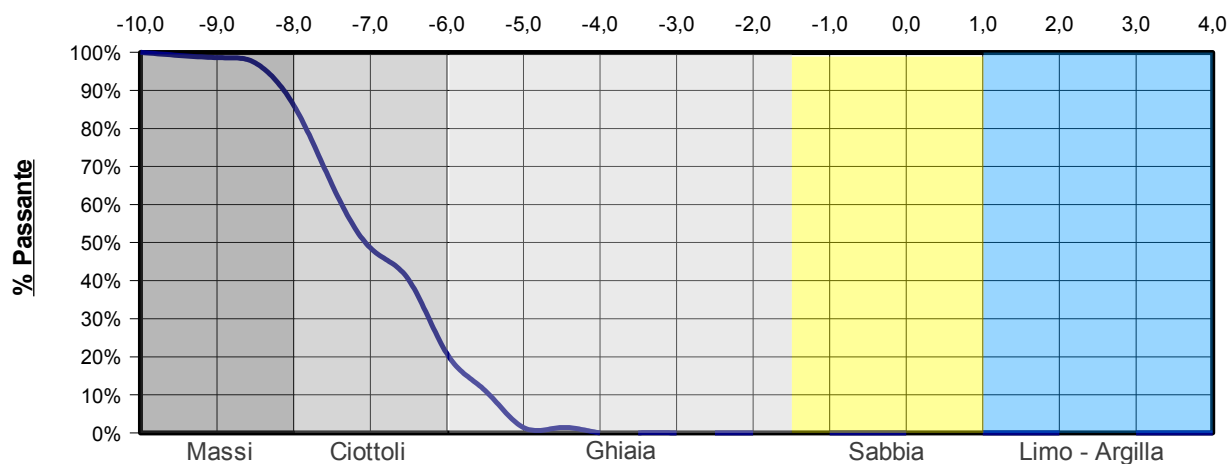
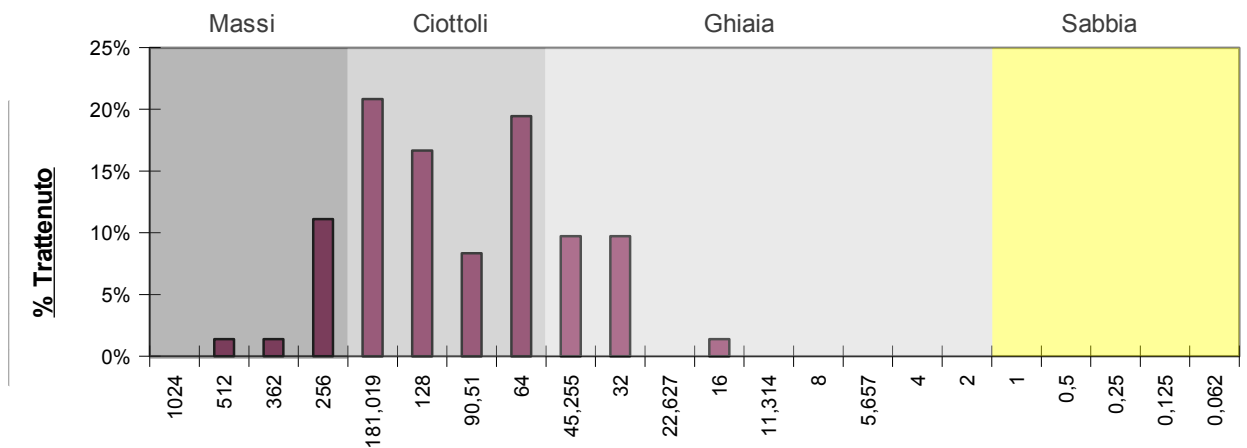
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	110,33	230,17	94,26	16,33	82,12	0,59	2,31

Campione numero = 8-tot				Dist. lungo l'asse dell'alveo 42,9		
Numero ciottoli 106				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	2	2	1,887%	1,887%	98,113%
-8,5	362	2	0	1,887%	0,000%	98,113%
-8,0	256,000	2	0	1,887%	0,000%	98,113%
-7,5	181,019	26	24	24,528%	22,642%	75,472%
-7,0	128,000	40	14	37,736%	13,208%	62,264%
-6,5	90,510	53	13	50,000%	12,264%	50,000%
-6,0	64,000	68	15	64,151%	14,151%	35,849%
-5,5	45,255	83	15	78,302%	14,151%	21,698%
-5,0	32,000	95	12	89,623%	11,321%	10,377%
-4,5	22,627	101	6	95,283%	5,660%	4,717%
-4,0	16,000	105	4	99,057%	3,774%	0,943%
-3,5	11,314	106	1	100,000%	0,943%	0,000%
-3,0	8,000	106	0	100,000%	0,000%	0,000%
-2,5	5,657	106	0	100,000%	0,000%	0,000%
-2,0	4,000	106	0	100,000%	0,000%	0,000%
-1,0	2,000	106	0	100,000%	0,000%	0,000%
0,0	1,000	106	0	100,000%	0,000%	0,000%
1,0	0,500	106	0	100,000%	0,000%	0,000%
2,0	0,250	106	0	100,000%	0,000%	0,000%
3,0	0,125	106	0	100,000%	0,000%	0,000%
4,0	0,062	106	0	100,000%	0,000%	0,000%
			106		100,000%	



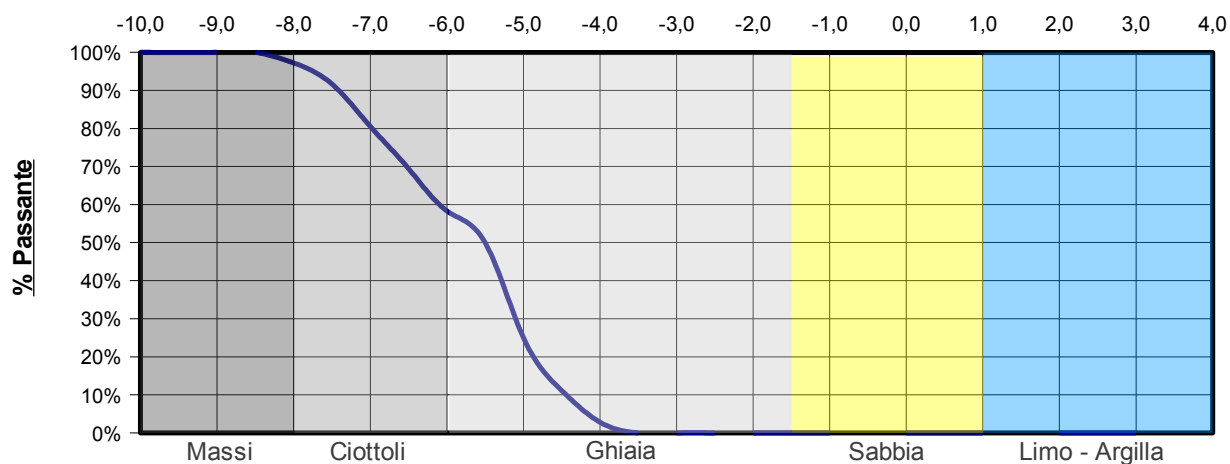
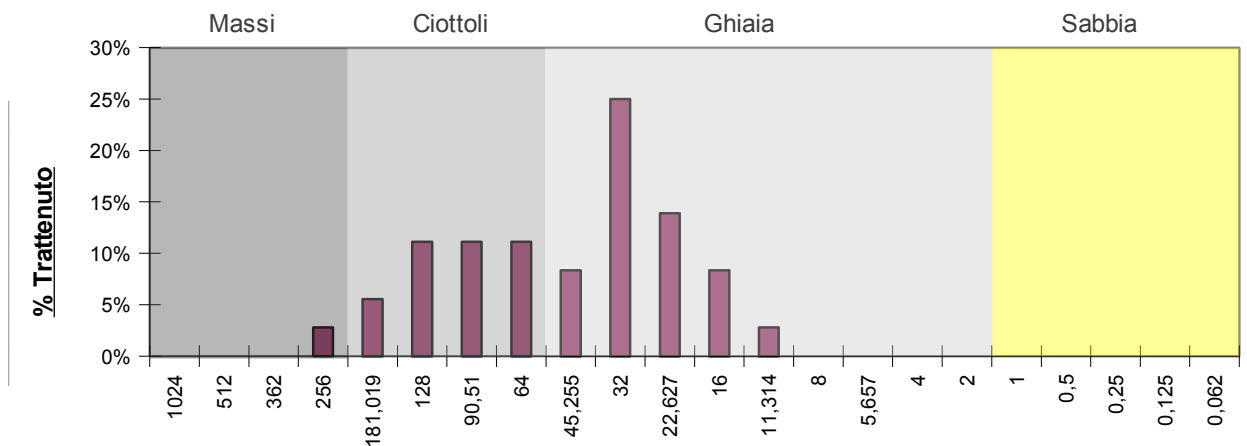
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	123,21	229,13	90,51	31,38	113,44	3,44	19,93

Campione numero = D2 canale				Dist. lungo l'asse dell'alveo 43,2		
Numero ciottoli 72				Note:	testa barra	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	1	1	1,389%	1,389%	98,611%
-8,5	362	2	1	2,778%	1,389%	97,222%
-8,0	256,000	10	8	13,889%	11,111%	86,111%
-7,5	181,019	25	15	34,722%	20,833%	65,278%
-7,0	128,000	37	12	51,389%	16,667%	48,611%
-6,5	90,510	43	6	59,722%	8,333%	40,278%
-6,0	64,000	57	14	79,167%	19,444%	20,833%
-5,5	45,255	64	7	88,889%	9,722%	11,111%
-5,0	32,000	71	7	98,611%	9,722%	1,389%
-4,5	22,627	71	0	98,611%	0,000%	1,389%
-4,0	16,000	72	1	100,000%	1,389%	0,000%
-3,5	11,314	72	0	100,000%	0,000%	0,000%
-3,0	8,000	72	0	100,000%	0,000%	0,000%
-2,5	5,657	72	0	100,000%	0,000%	0,000%
-2,0	4,000	72	0	100,000%	0,000%	0,000%
-1,0	2,000	72	0	100,000%	0,000%	0,000%
0,0	1,000	72	0	100,000%	0,000%	0,000%
1,0	0,500	72	0	100,000%	0,000%	0,000%
2,0	0,250	72	0	100,000%	0,000%	0,000%
3,0	0,125	72	0	100,000%	0,000%	0,000%
4,0	0,062	72	0	100,000%	0,000%	0,000%
			72		100,000%	



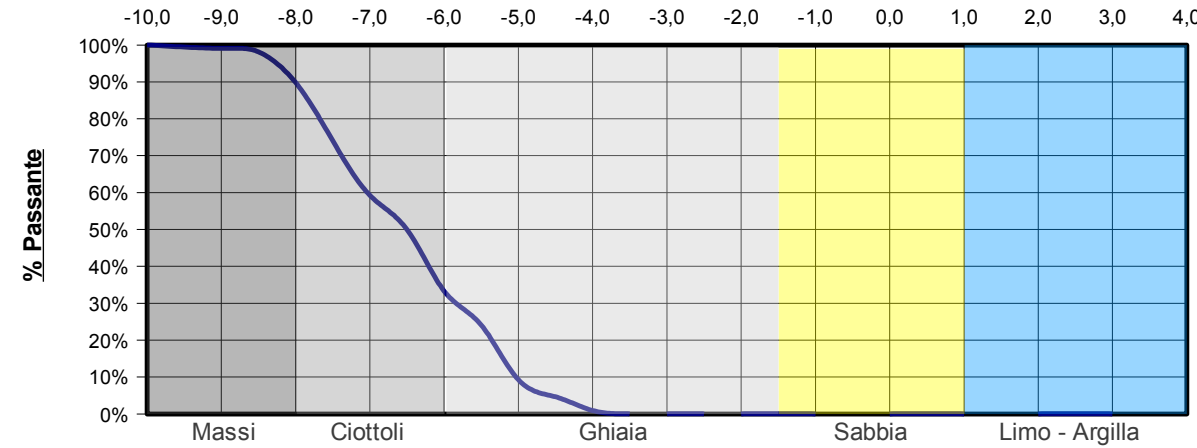
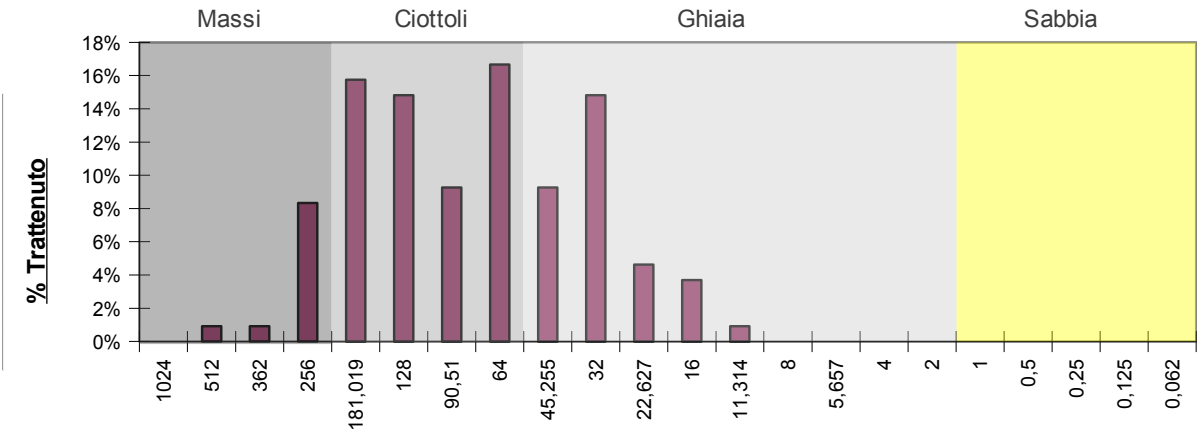
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	155,80	293,10	132,42	43,74	117,05	2,21	11,42

Campione numero = D2 barra				Dist. lungo l'asse dell'alveo 43,2		
Numero ciottoli 36				Note:	testa barra	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	1	1	2,778%	2,778%	97,222%
-7,5	181,019	3	2	8,333%	5,556%	91,667%
-7,0	128,000	7	4	19,444%	11,111%	80,556%
-6,5	90,510	11	4	30,556%	11,111%	69,444%
-6,0	64,000	15	4	41,667%	11,111%	58,333%
-5,5	45,255	18	3	50,000%	8,333%	50,000%
-5,0	32,000	27	9	75,000%	25,000%	25,000%
-4,5	22,627	32	5	88,889%	13,889%	11,111%
-4,0	16,000	35	3	97,222%	8,333%	2,778%
-3,5	11,314	36	1	100,000%	2,778%	0,000%
-3,0	8,000	36	0	100,000%	0,000%	0,000%
-2,5	5,657	36	0	100,000%	0,000%	0,000%
-2,0	4,000	36	0	100,000%	0,000%	0,000%
-1,0	2,000	36	0	100,000%	0,000%	0,000%
0,0	1,000	36	0	100,000%	0,000%	0,000%
1,0	0,500	36	0	100,000%	0,000%	0,000%
2,0	0,250	36	0	100,000%	0,000%	0,000%
3,0	0,125	36	0	100,000%	0,000%	0,000%
4,0	0,062	36	0	100,000%	0,000%	0,000%
			36		100,000%	



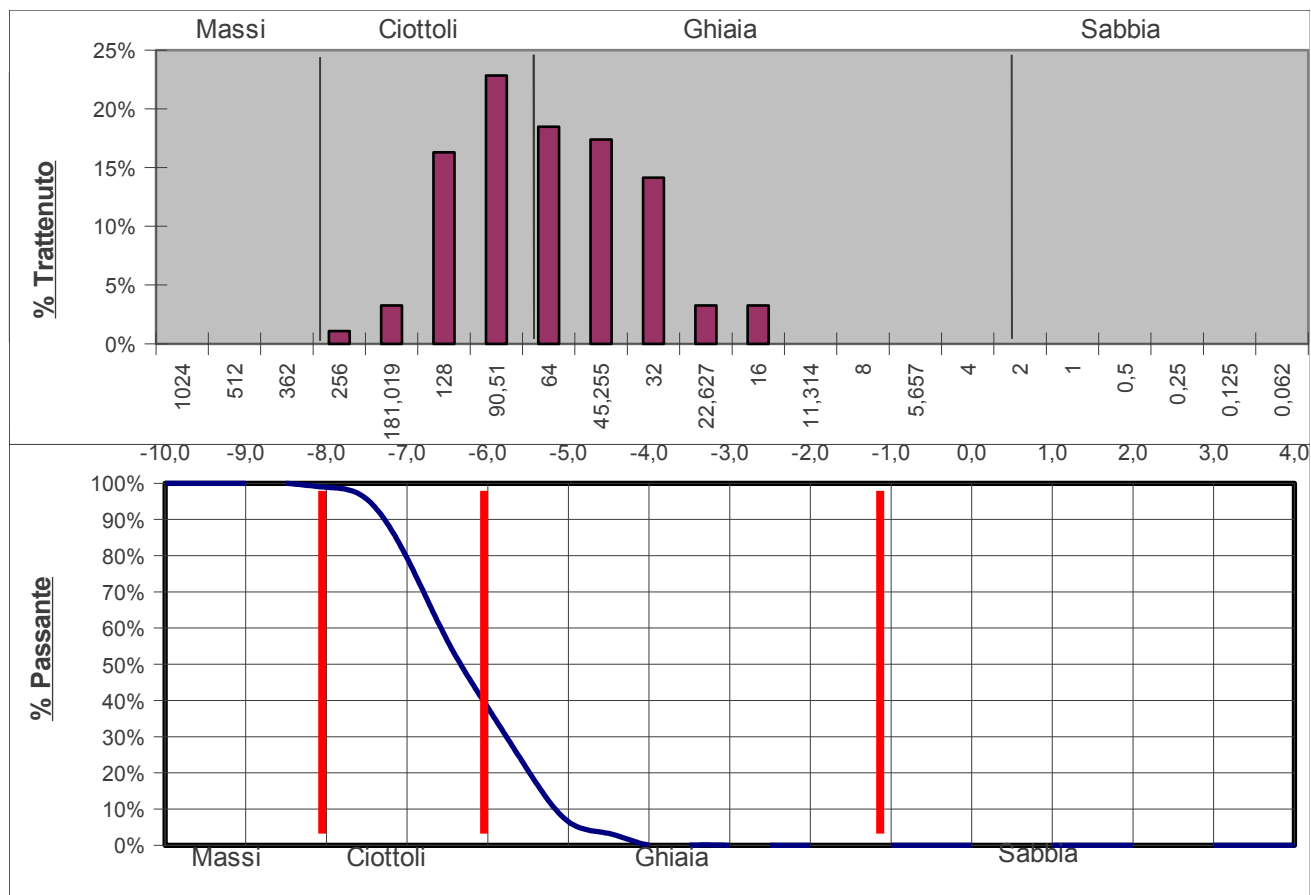
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	78,61	173,07	45,26	21,74	67,30	1,58	5,19

Campione numero = D2 totale				Dist. lungo l'asse dell'alveo 43,2		
Numero ciottoli 108				Note:	testa barra	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	1	1	0,926%	0,926%	99,074%
-8,5	362	2	1	1,852%	0,926%	98,148%
-8,0	256,000	11	9	10,185%	8,333%	89,815%
-7,5	181,019	28	17	25,926%	15,741%	74,074%
-7,0	128,000	44	16	40,741%	14,815%	59,259%
-6,5	90,510	54	10	50,000%	9,259%	50,000%
-6,0	64,000	72	18	66,667%	16,667%	33,333%
-5,5	45,255	82	10	75,926%	9,259%	24,074%
-5,0	32,000	98	16	90,741%	14,815%	9,259%
-4,5	22,627	103	5	95,370%	4,630%	4,630%
-4,0	16,000	107	4	99,074%	3,704%	0,926%
-3,5	11,314	108	1	100,000%	0,926%	0,000%
-3,0	8,000	108	0	100,000%	0,000%	0,000%
-2,5	5,657	108	0	100,000%	0,000%	0,000%
-2,0	4,000	108	0	100,000%	0,000%	0,000%
-1,0	2,000	108	0	100,000%	0,000%	0,000%
0,0	1,000	108	0	100,000%	0,000%	0,000%
1,0	0,500	108	0	100,000%	0,000%	0,000%
2,0	0,250	108	0	100,000%	0,000%	0,000%
3,0	0,125	108	0	100,000%	0,000%	0,000%
4,0	0,062	108	0	100,000%	0,000%	0,000%
			108		100,000%	



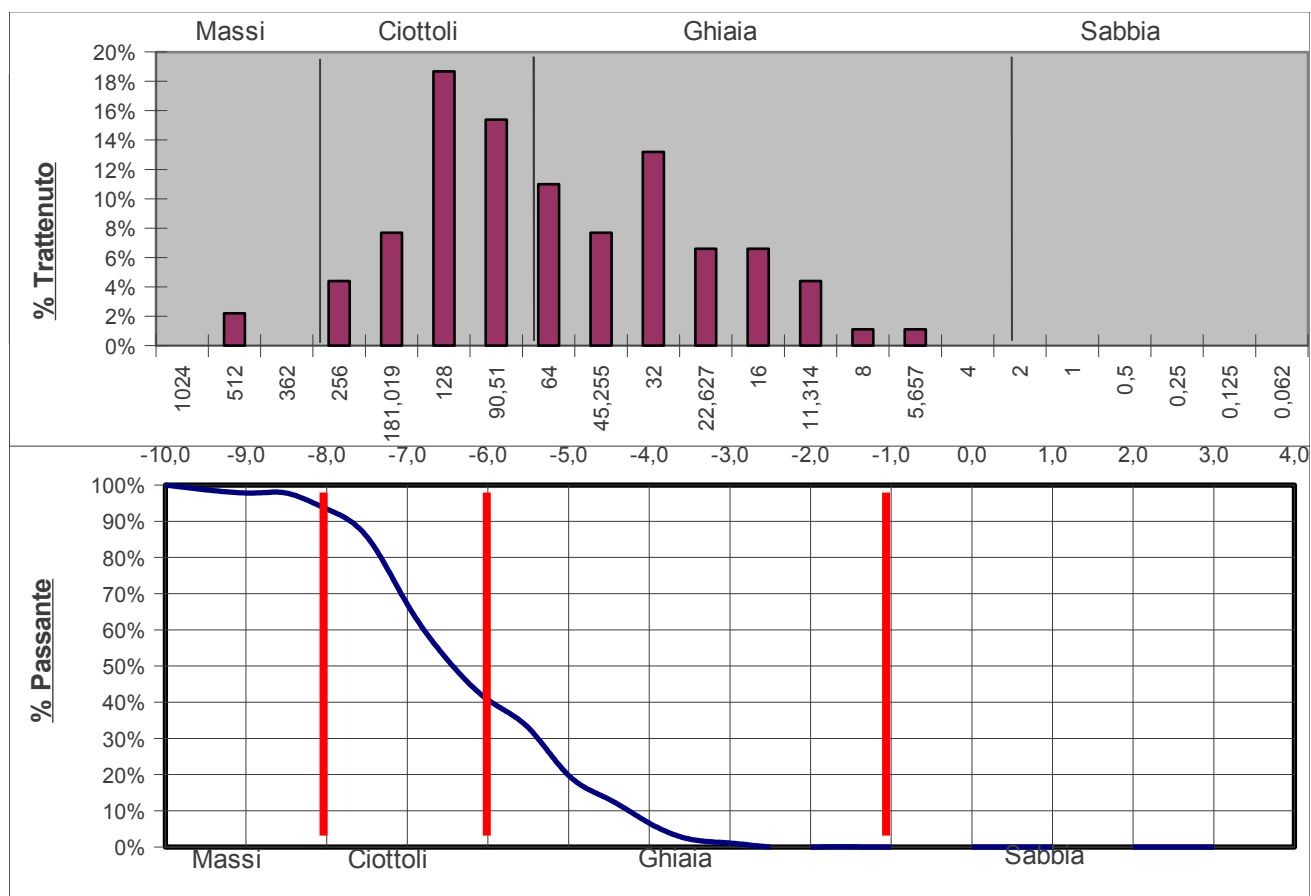
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	130,07	258,36	90,51	32,66	109,40	2,27	12,13

Campione numero =				7-tot	Dist. lungo l'asse dell'alveo			43,2	NOTE: il campionamento viene effettuato sulla base di un transetto.Vedi note in barra e canale
Numero ciottoli				92	Note:				
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passato			
-10,0	1024	0		0,000%		100,000%			
-9,0	512	0		0,000%		100,000%			
-8,5	362	0		0,000%		100,000%			
-8,0	256,000	1	1	1,087%	1,087%	98,913%			
-7,5	181,019	4	3	4,348%	3,261%	95,652%			
-7,0	128,000	19	15	20,652%	16,304%	79,348%			
-6,5	90,510	40	21	43,478%	22,826%	56,522%			
-6,0	64,000	57	17	61,957%	18,478%	38,043%			
-5,5	45,255	73	16	79,348%	17,391%	20,652%			
-5,0	32,000	86	13	93,478%	14,130%	6,522%			
-4,5	22,627	89	3	96,739%	3,261%	3,261%			
-4,0	16,000	92	3	100,000%	3,261%	0,000%			
-3,5	11,314	92	0	100,000%	0,000%	0,000%			
-3,0	8,000	92	0	100,000%	0,000%	0,000%			
-2,5	5,657	92	0	100,000%	0,000%	0,000%			
-2,0	4,000	92	0	100,000%	0,000%	0,000%			
-1,0	2,000	92	0	100,000%	0,000%	0,000%			
0,0	1,000	92	0	100,000%	0,000%	0,000%			
1,0	0,500	92	0	100,000%	0,000%	0,000%			
2,0	0,250	92	0	100,000%	0,000%	0,000%			
3,0	0,125	92	0	100,000%	0,000%	0,000%			
4,0	0,062	92	0	100,000%	0,000%	0,000%			
			92		100,000%				



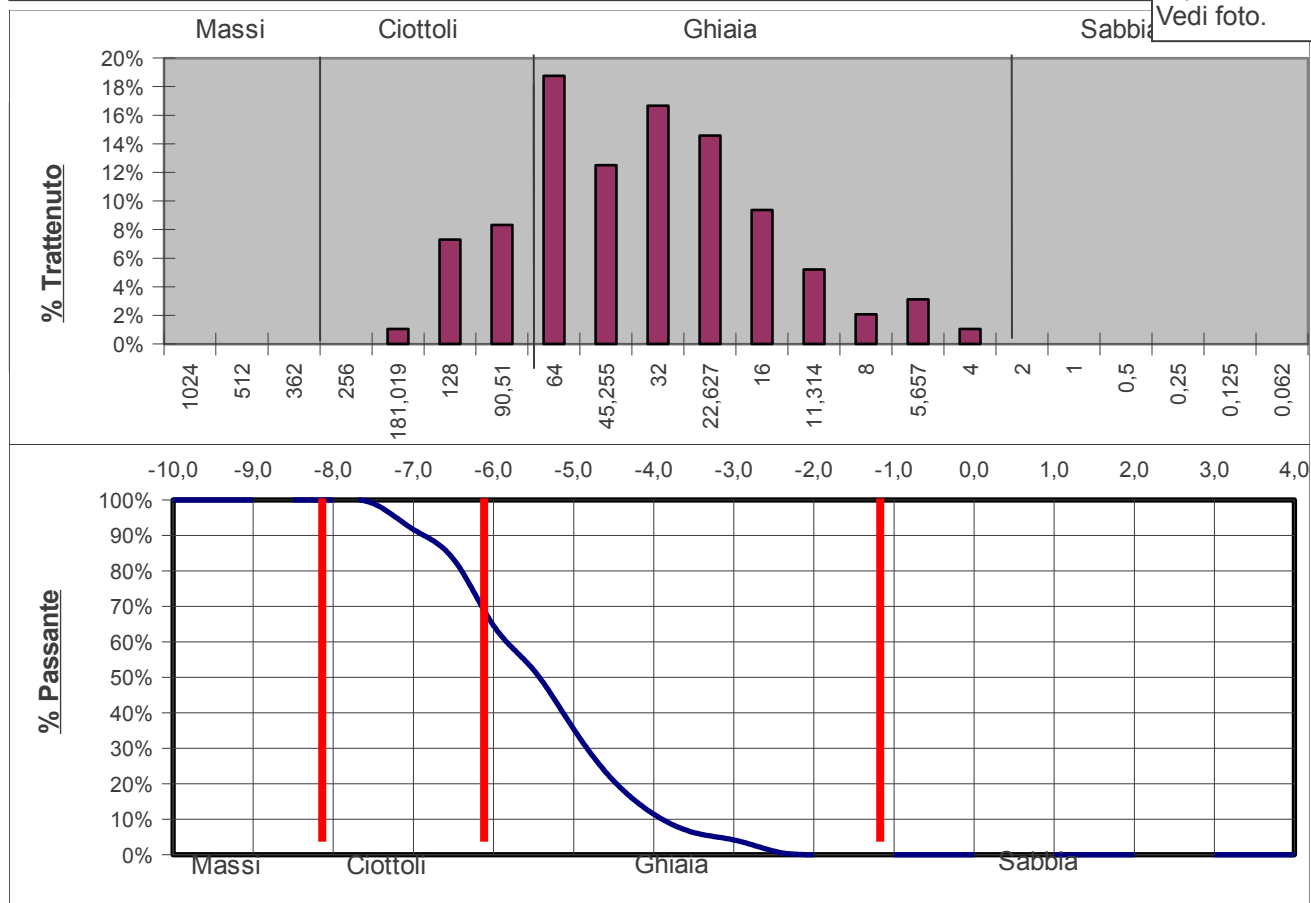
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	91,37	162,64	81,15	35,26	52,28	1,20	5,14

Campione numero = 30-barra				Dist. lungo l'asse dell'alveo 43,6		
Numero ciottoli 91				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	2	2	2,198%	2,198%	97,802%
-8,5	362	2	0	2,198%	0,000%	97,802%
-8,0	256,000	6	4	6,593%	4,396%	93,407%
-7,5	181,019	13	7	14,286%	7,692%	85,714%
-7,0	128,000	30	17	32,967%	18,681%	67,033%
-6,5	90,510	44	14	48,352%	15,385%	51,648%
-6,0	64,000	54	10	59,341%	10,989%	40,659%
-5,5	45,255	61	7	67,033%	7,692%	32,967%
-5,0	32,000	73	12	80,220%	13,187%	19,780%
-4,5	22,627	79	6	86,813%	6,593%	13,187%
-4,0	16,000	85	6	93,407%	6,593%	6,593%
-3,5	11,314	89	4	97,802%	4,396%	2,198%
-3,0	8,000	90	1	98,901%	1,099%	1,099%
-2,5	5,657	91	1	100,000%	1,099%	0,000%
-2,0	4,000	91	0	100,000%	0,000%	0,000%
-1,0	2,000	91	0	100,000%	0,000%	0,000%
0,0	1,000	91	0	100,000%	0,000%	0,000%
1,0	0,500	91	0	100,000%	0,000%	0,000%
2,0	0,250	91	0	100,000%	0,000%	0,000%
3,0	0,125	91	0	100,000%	0,000%	0,000%
4,0	0,062	91	0	100,000%	0,000%	0,000%
			91		100,000%	



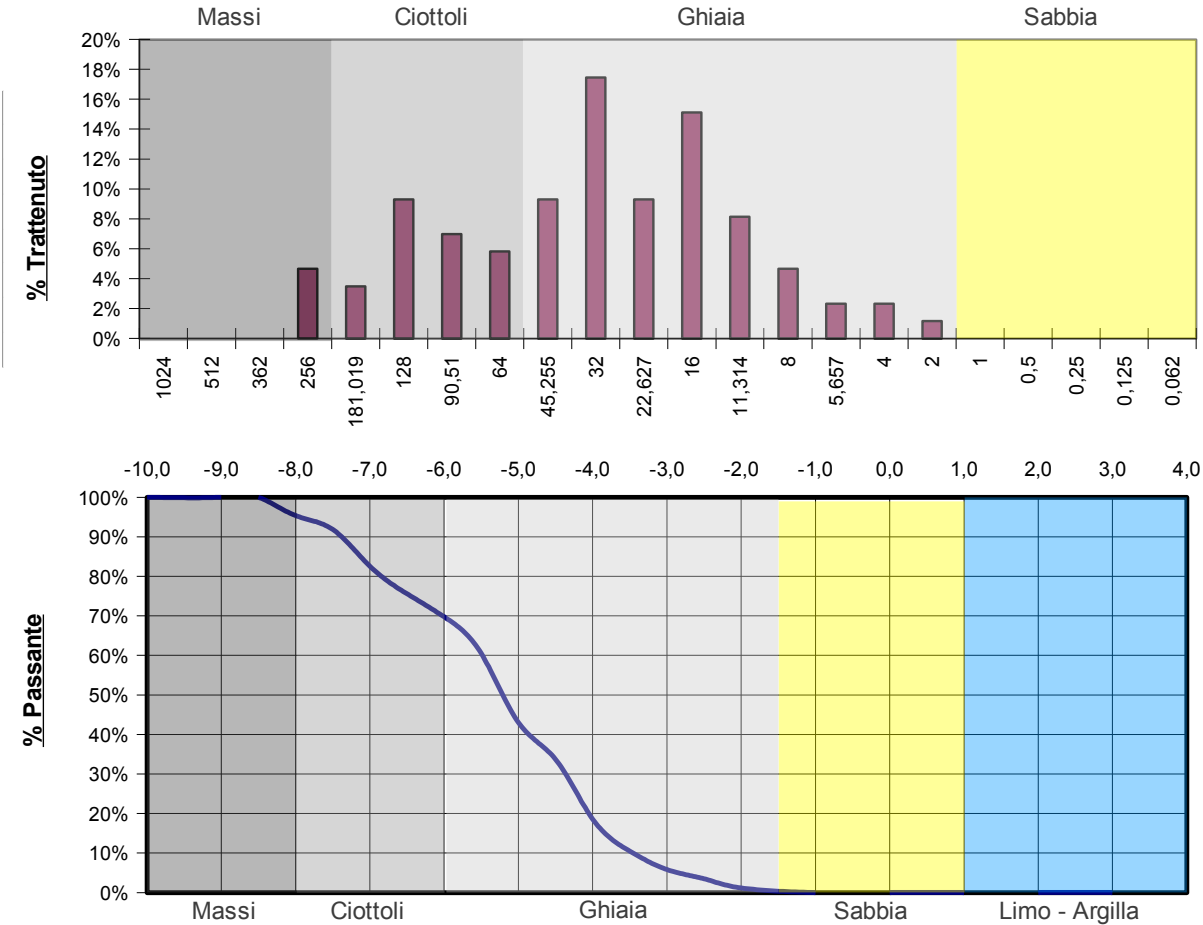
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	114,58	222,79	86,53	19,42	123,15	3,37	17,83

Campione numero =			23-barra	Dist. lungo l'asse dell'alveo			44,5	NOTE: il campionamento viene effettuato tramite grid (6) sulla barra nuda (parzialmente e vegetata) laterale. Il letto del fiume è sulle argille. La sponda sx presenta un tratto in erosione (materiale ghiaioso) a monte di un tratto di materiale coesivo, probabilmente sedimenti di point bar. Vedi foto.
Numero ciottoli			96	Note:				
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante		
-10,0	1024	0		0,000%		100,000%		
-9,0	512	0		0,000%		100,000%		
-8,5	362	0		0,000%		100,000%		
-8,0	256,000	0		0,000%		100,000%		
-7,5	181,019	1	1	1,042%	1,042%	98,958%		
-7,0	128,000	8	7	8,333%	7,292%	91,667%		
-6,5	90,510	16	8	16,667%	8,333%	83,333%		
-6,0	64,000	34	18	35,417%	18,750%	64,583%		
-5,5	45,255	46	12	47,917%	12,500%	52,083%		
-5,0	32,000	62	16	64,583%	16,667%	35,417%		
-4,5	22,627	76	14	79,167%	14,583%	20,833%		
-4,0	16,000	85	9	88,542%	9,375%	11,458%		
-3,5	11,314	90	5	93,750%	5,208%	6,250%		
-3,0	8,000	92	2	95,833%	2,083%	4,167%		
-2,5	5,657	95	3	98,958%	3,125%	1,042%		
-2,0	4,000	96	1	100,000%	1,042%	0,000%		
-1,0	2,000	96	0	100,000%	0,000%	0,000%		
0,0	1,000	96	0	100,000%	0,000%	0,000%		
1,0	0,500	96	0	100,000%	0,000%	0,000%		
2,0	0,250	96	0	100,000%	0,000%	0,000%		
3,0	0,125	96	0	100,000%	0,000%	0,000%		
4,0	0,062	96	0	100,000%	0,000%	0,000%		
			96		100,000%			
Massi			Ciottoli	Ghiaia		Sabbia		



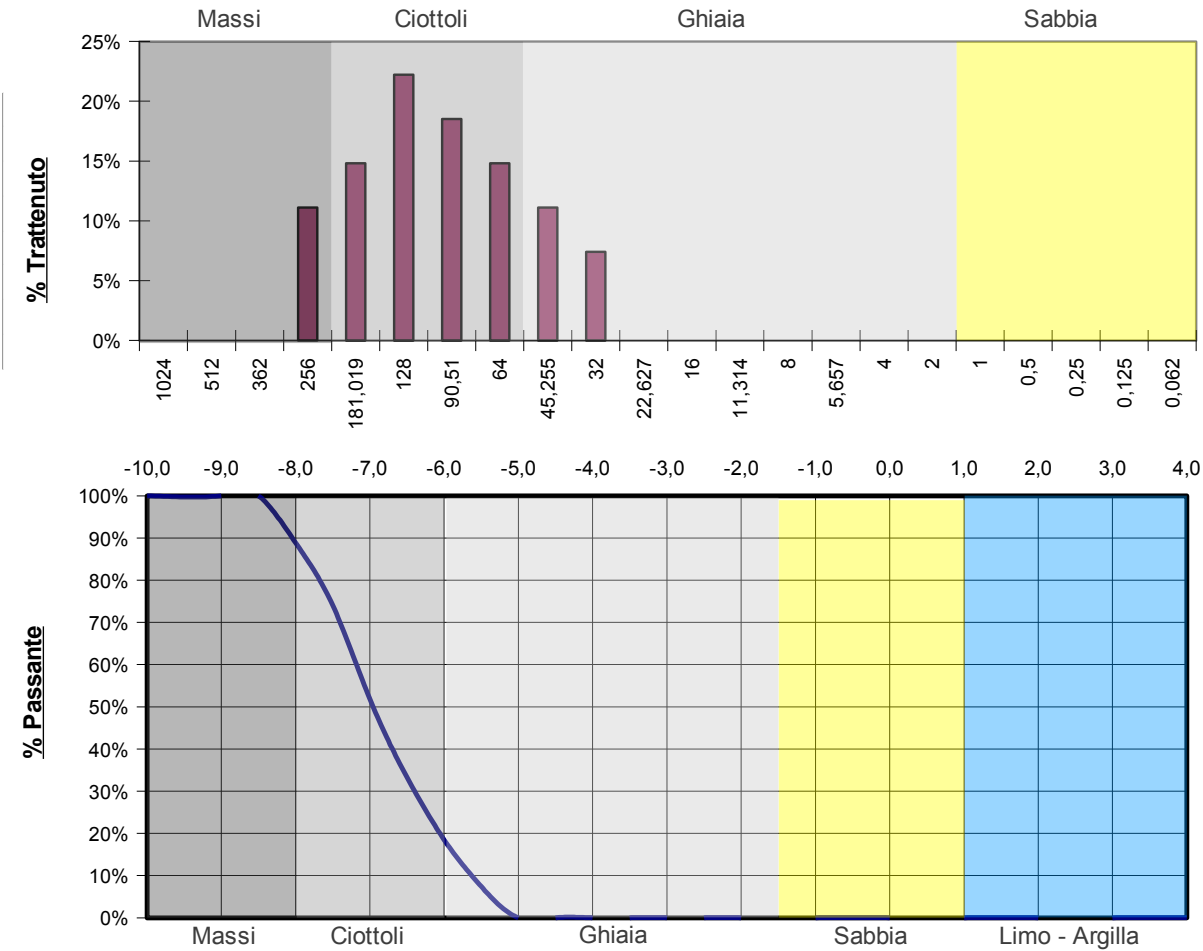
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	57,37	120,50	43,60	14,69	42,89	1,28	4,45

Campione numero = D3 barra				Dist. lungo l'asse dell'alveo 45,5		
Numero ciottoli 86				Note:	testa barra	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	4	4	4,651%	4,651%	95,349%
-7,5	181,019	7	3	8,140%	3,488%	91,860%
-7,0	128,000	15	8	17,442%	9,302%	82,558%
-6,5	90,510	21	6	24,419%	6,977%	75,581%
-6,0	64,000	26	5	30,233%	5,814%	69,767%
-5,5	45,255	34	8	39,535%	9,302%	60,465%
-5,0	32,000	49	15	56,977%	17,442%	43,023%
-4,5	22,627	57	8	66,279%	9,302%	33,721%
-4,0	16,000	70	13	81,395%	15,116%	18,605%
-3,5	11,314	77	7	89,535%	8,140%	10,465%
-3,0	8,000	81	4	94,186%	4,651%	5,814%
-2,5	5,657	83	2	96,512%	2,326%	3,488%
-2,0	4,000	85	2	98,837%	2,326%	1,163%
-1,0	2,000	86	1	100,000%	1,163%	0,000%
0,0	1,000	86	0	100,000%	0,000%	0,000%
1,0	0,500	86	0	100,000%	0,000%	0,000%
2,0	0,250	86	0	100,000%	0,000%	0,000%
3,0	0,125	86	0	100,000%	0,000%	0,000%
4,0	0,062	86	0	100,000%	0,000%	0,000%
			86		100,000%	



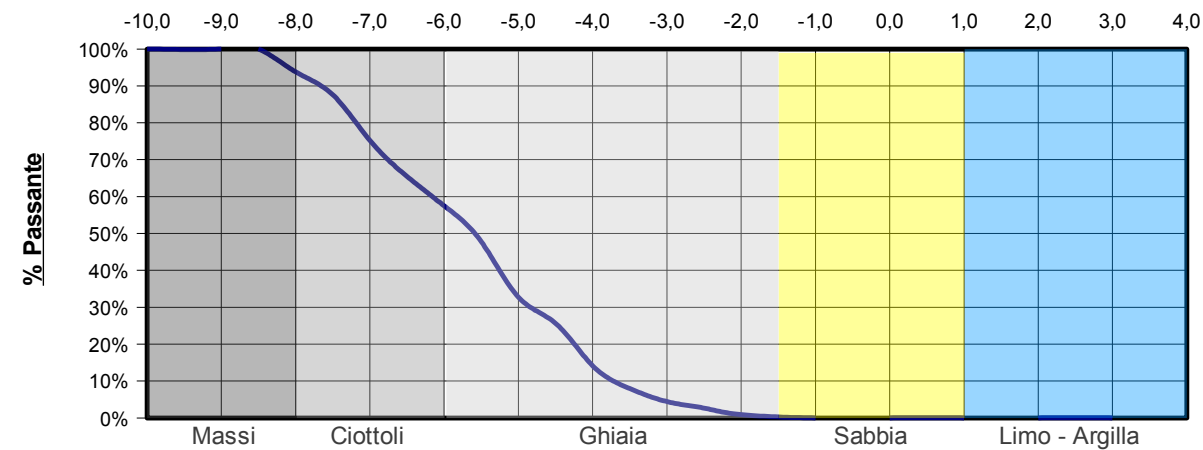
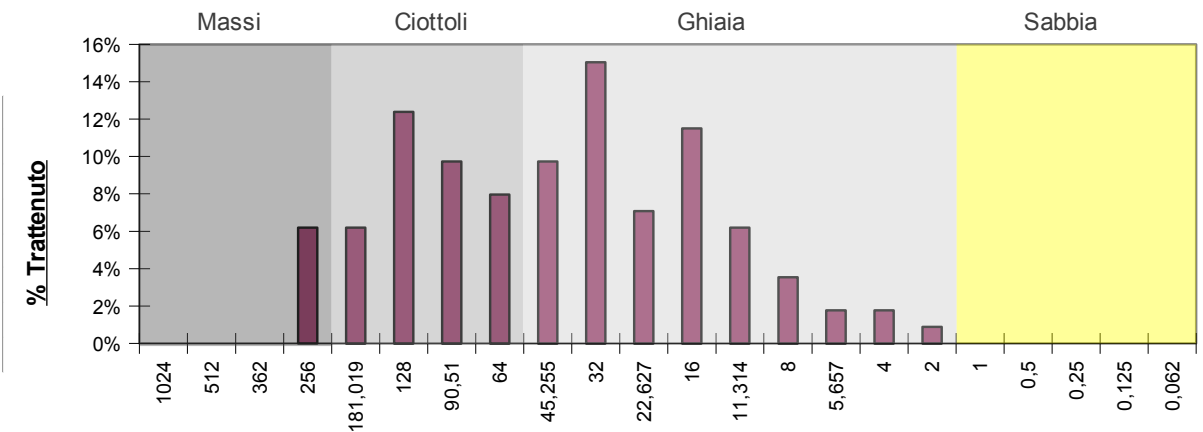
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	67,63	170,42	37,30	10,98	74,96	1,84	5,85

Campione numero = D3 canale				Dist. lungo l'asse dell'alveo 45,5		
Numero ciottoli 27				Note:	testa barra	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	3	3	11,111%	11,111%	88,889%
-7,5	181,019	7	4	25,926%	14,815%	74,074%
-7,0	128,000	13	6	48,148%	22,222%	51,852%
-6,5	90,510	18	5	66,667%	18,519%	33,333%
-6,0	64,000	22	4	81,481%	14,815%	18,519%
-5,5	45,255	25	3	92,593%	11,111%	7,407%
-5,0	32,000	27	2	100,000%	7,407%	0,000%
-4,5	22,627	27	0	100,000%	0,000%	0,000%
-4,0	16,000	27	0	100,000%	0,000%	0,000%
-3,5	11,314	27	0	100,000%	0,000%	0,000%
-3,0	8,000	27	0	100,000%	0,000%	0,000%
-2,5	5,657	27	0	100,000%	0,000%	0,000%
-2,0	4,000	27	0	100,000%	0,000%	0,000%
-1,0	2,000	27	0	100,000%	0,000%	0,000%
0,0	1,000	27	0	100,000%	0,000%	0,000%
1,0	0,500	27	0	100,000%	0,000%	0,000%
2,0	0,250	27	0	100,000%	0,000%	0,000%
3,0	0,125	27	0	100,000%	0,000%	0,000%
4,0	0,062	27	0	100,000%	0,000%	0,000%
			27		100,000%	



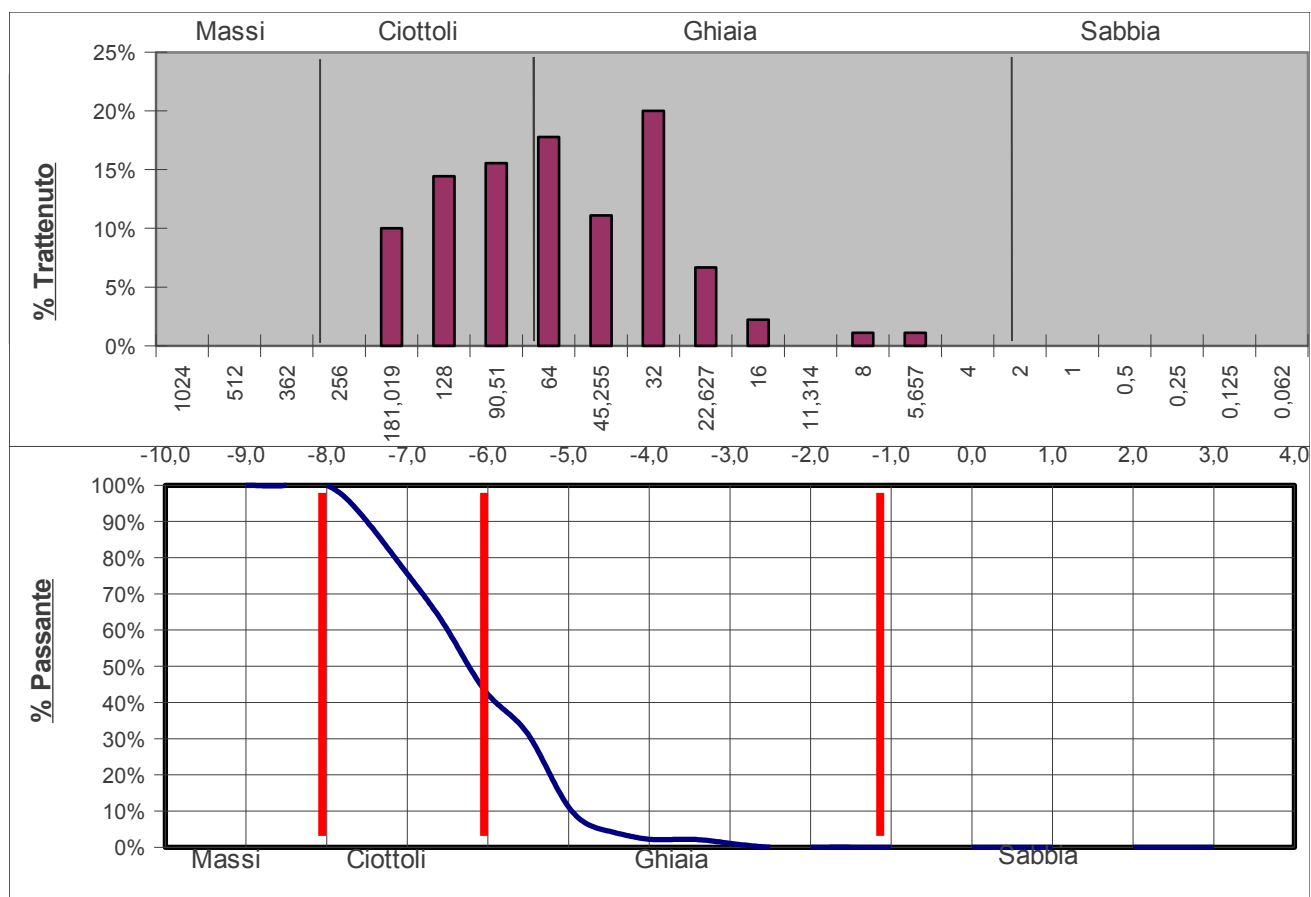
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	141,65	266,60	124,25	49,63	80,37	0,75	2,63

Campione numero = D3-totale				Dist. lungo l'asse dell'alveo 45,5		
Numero ciottoli 113				Note:	testa barra	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	7	7	6,195%	6,195%	93,805%
-7,5	181,019	14	7	12,389%	6,195%	87,611%
-7,0	128,000	28	14	24,779%	12,389%	75,221%
-6,5	90,510	39	11	34,513%	9,735%	65,487%
-6,0	64,000	48	9	42,478%	7,965%	57,522%
-5,5	45,255	59	11	52,212%	9,735%	47,788%
-5,0	32,000	76	17	67,257%	15,044%	32,743%
-4,5	22,627	84	8	74,336%	7,080%	25,664%
-4,0	16,000	97	13	85,841%	11,504%	14,159%
-3,5	11,314	104	7	92,035%	6,195%	7,965%
-3,0	8,000	108	4	95,575%	3,540%	4,425%
-2,5	5,657	110	2	97,345%	1,770%	2,655%
-2,0	4,000	112	2	99,115%	1,770%	0,885%
-1,0	2,000	113	1	100,000%	0,885%	0,000%
0,0	1,000	113	0	100,000%	0,000%	0,000%
1,0	0,500	113	0	100,000%	0,000%	0,000%
2,0	0,250	113	0	100,000%	0,000%	0,000%
3,0	0,125	113	0	100,000%	0,000%	0,000%
4,0	0,062	113	0	100,000%	0,000%	0,000%
			113		100,000%	



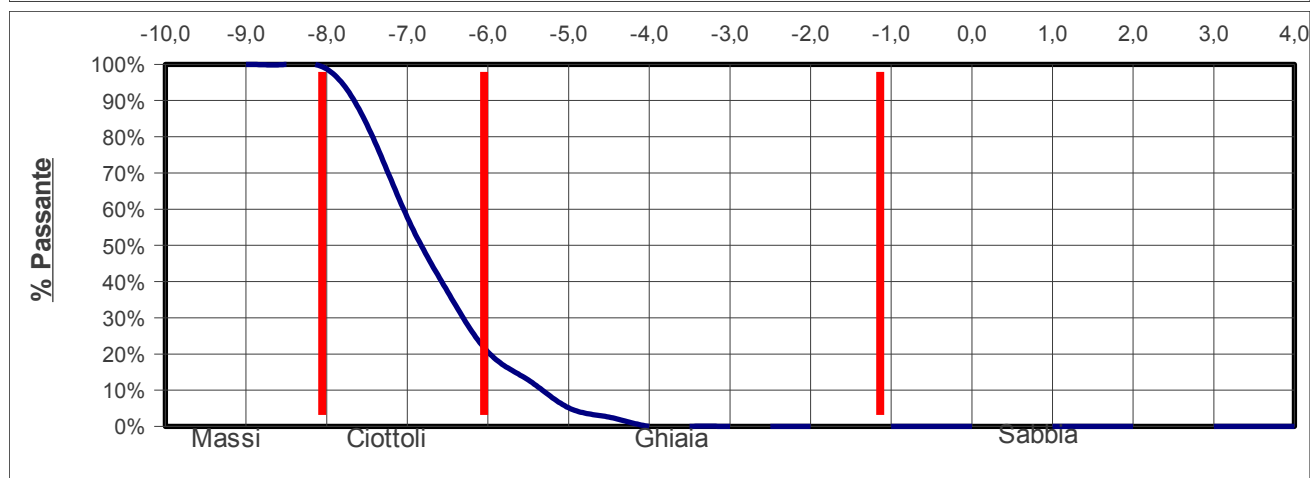
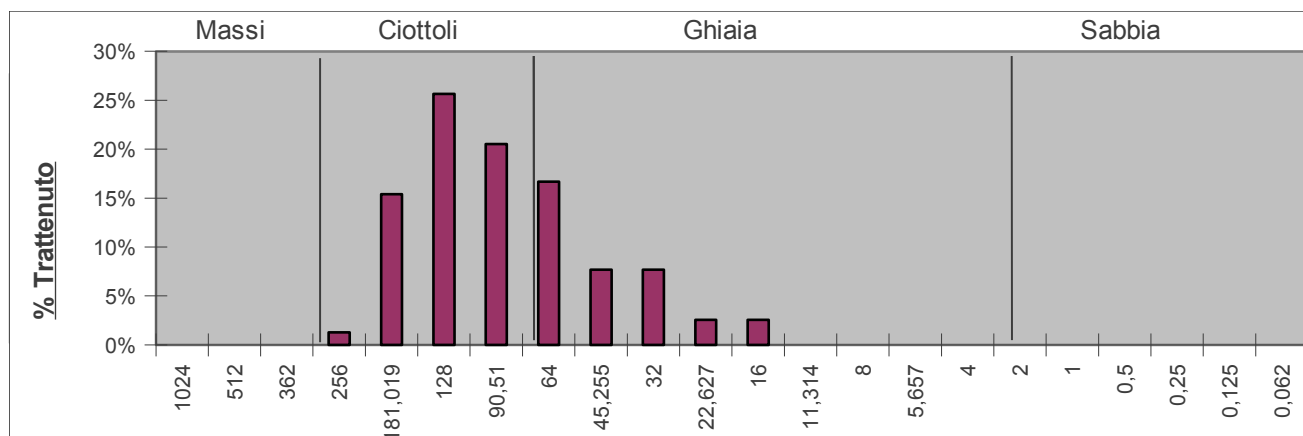
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	85,31	209,94	49,52	12,85	82,56	1,34	4,00

Campione numero =				6-totale		Dist. lungo l'asse dell'alveo			45,5		NOTE: Il campionamento è stato ottenuto attraverso un unico transetto
Numero ciottoli				90		Note:					
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante					
-10,0	1024	0		0,000%		100,000%					
-9,0	512	0		0,000%		100,000%					
-8,5	362	0		0,000%		100,000%					
-8,0	256,000	0		0,000%		100,000%					
-7,5	181,019	9	9	10,000%	10,000%	90,000%					
-7,0	128,000	22	13	24,444%	14,444%	75,556%					
-6,5	90,510	36	14	40,000%	15,556%	60,000%					
-6,0	64,000	52	16	57,778%	17,778%	42,222%					
-5,5	45,255	62	10	68,889%	11,111%	31,111%					
-5,0	32,000	80	18	88,889%	20,000%	11,111%					
-4,5	22,627	86	6	95,556%	6,667%	4,444%					
-4,0	16,000	88	2	97,778%	2,222%	2,222%					
-3,5	11,314	88	0	97,778%	0,000%	2,222%					
-3,0	8,000	89	1	98,889%	1,111%	1,111%					
-2,5	5,657	90	1	100,000%	1,111%	0,000%					
-2,0	4,000	90	0	100,000%	0,000%	0,000%					
-1,0	2,000	90	0	100,000%	0,000%	0,000%					
0,0	1,000	90	0	100,000%	0,000%	0,000%					
1,0	0,500	90	0	100,000%	0,000%	0,000%					
2,0	0,250	90	0	100,000%	0,000%	0,000%					
3,0	0,125	90	0	100,000%	0,000%	0,000%					
4,0	0,062	90	0	100,000%	0,000%	0,000%					
			90		100,000%						



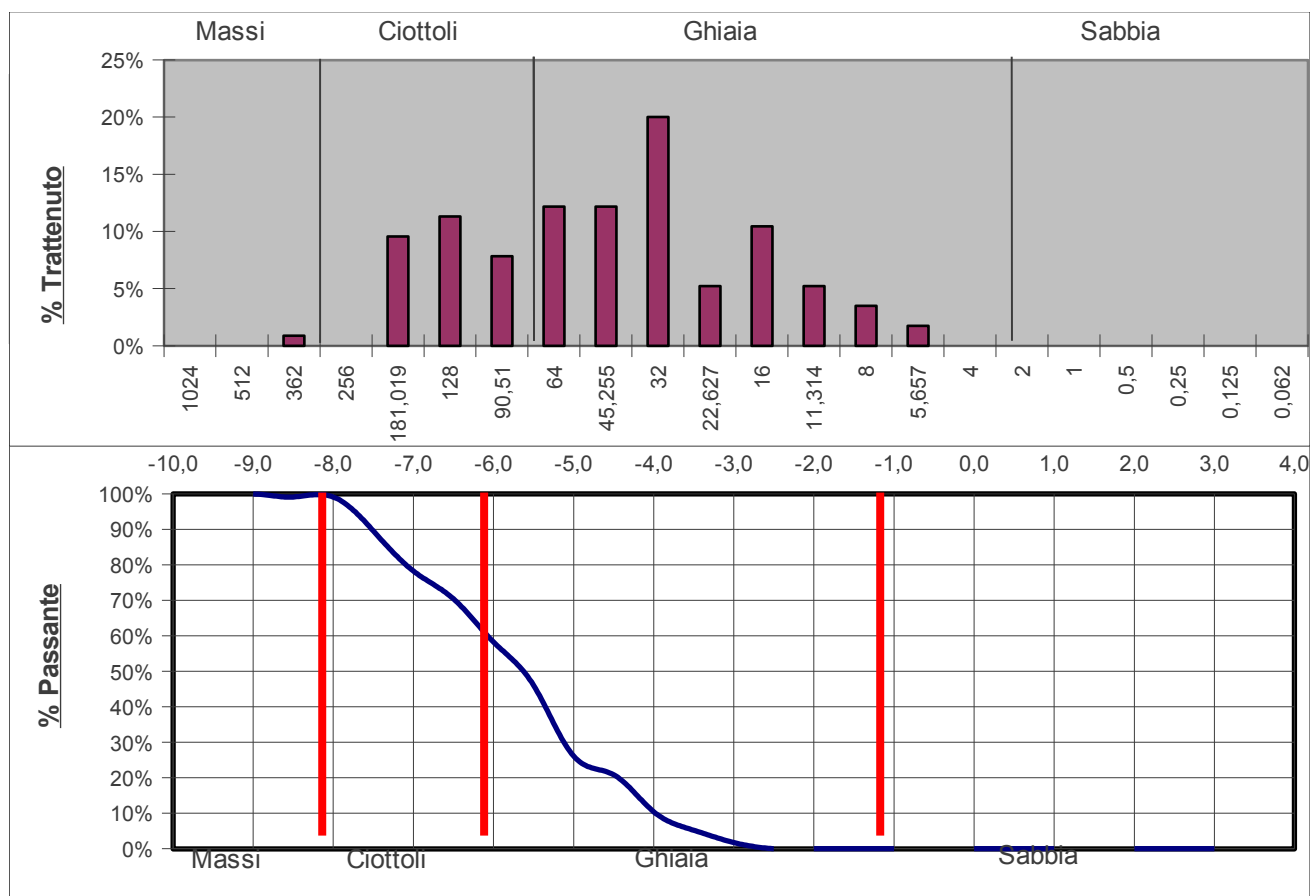
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	91,13	181,02	75,60	30,44	59,38	0,82	2,67

Campione numero =			5-barra	Dist. lungo l'asse dell'alveo			47,5	NOTE: Il campionamento è stato fatto su barra (longitudinale nuda, parzialmente vegetata) tramite grid(5). Non abbiamo fatto il transetto perché l'alveo è inciso sulle argille e non permette sempre l'accesso.
Numero ciottoli			78	Note:				
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passato		
-10,0	1024	0		0,000%		100,000%		
-9,0	512	0		0,000%		100,000%		
-8,5	362	0		0,000%		100,000%		
-8,0	256,000	1	1	1,282%	1,282%	98,718%		
-7,5	181,019	13	12	16,667%	15,385%	83,333%		
-7,0	128,000	33	20	42,308%	25,641%	57,692%		
-6,5	90,510	49	16	62,821%	20,513%	37,179%		
-6,0	64,000	62	13	79,487%	16,667%	20,513%		
-5,5	45,255	68	6	87,179%	7,692%	12,821%		
-5,0	32,000	74	6	94,872%	7,692%	5,128%		
-4,5	22,627	76	2	97,436%	2,564%	2,564%		
-4,0	16,000	78	2	100,000%	2,564%	0,000%		
-3,5	11,314	78	0	100,000%	0,000%	0,000%		
-3,0	8,000	78	0	100,000%	0,000%	0,000%		
-2,5	5,657	78	0	100,000%	0,000%	0,000%		
-2,0	4,000	78	0	100,000%	0,000%	0,000%		
-1,0	2,000	78	0	100,000%	0,000%	0,000%		
0,0	1,000	78	0	100,000%	0,000%	0,000%		
1,0	0,500	78	0	100,000%	0,000%	0,000%		
2,0	0,250	78	0	100,000%	0,000%	0,000%		
3,0	0,125	78	0	100,000%	0,000%	0,000%		
4,0	0,062	78	0	100,000%	0,000%	0,000%		
			78		100,000%			



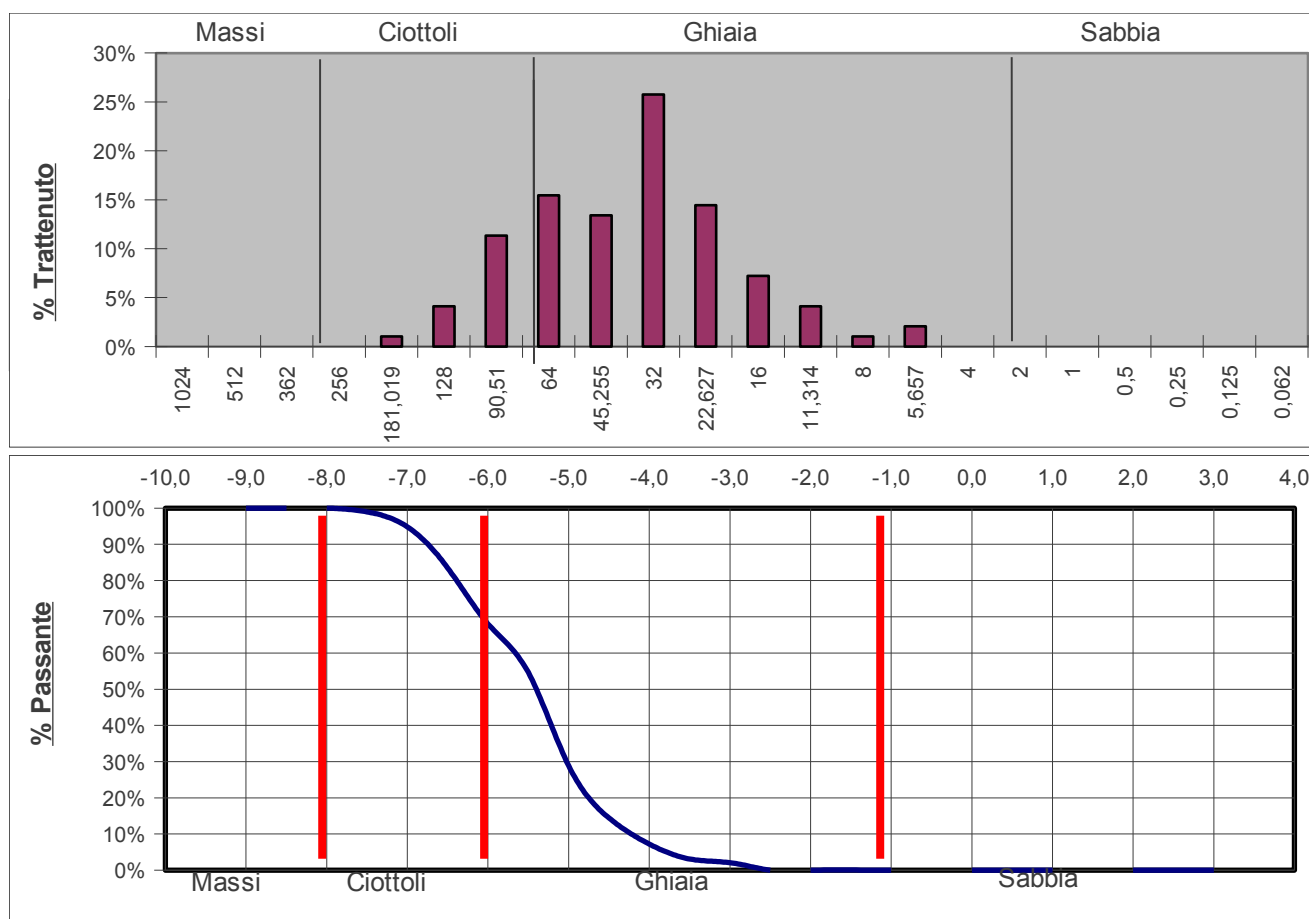
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	120,85	213,51	113,94	40,39	62,47	0,46	2,67

Campione numero = 4-canale				Dist. lungo l'asse dell'alveo 46		
Numero ciottoli 115				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	1	1	0,870%	0,870%	99,130%
-8,0	256,000	1	0	0,870%	0,000%	99,130%
-7,5	181,019	12	11	10,435%	9,565%	89,565%
-7,0	128,000	25	13	21,739%	11,304%	78,261%
-6,5	90,510	34	9	29,565%	7,826%	70,435%
-6,0	64,000	48	14	41,739%	12,174%	58,261%
-5,5	45,255	62	14	53,913%	12,174%	46,087%
-5,0	32,000	85	23	73,913%	20,000%	26,087%
-4,5	22,627	91	6	79,130%	5,217%	20,870%
-4,0	16,000	103	12	89,565%	10,435%	10,435%
-3,5	11,314	109	6	94,783%	5,217%	5,217%
-3,0	8,000	113	4	98,261%	3,478%	1,739%
-2,5	5,657	115	2	100,000%	1,739%	0,000%
-2,0	4,000	115	0	100,000%	0,000%	0,000%
-1,0	2,000	115	0	100,000%	0,000%	0,000%
0,0	1,000	115	0	100,000%	0,000%	0,000%
1,0	0,500	115	0	100,000%	0,000%	0,000%
2,0	0,250	115	0	100,000%	0,000%	0,000%
3,0	0,125	115	0	100,000%	0,000%	0,000%
4,0	0,062	115	0	100,000%	0,000%	0,000%
			115		100,000%	



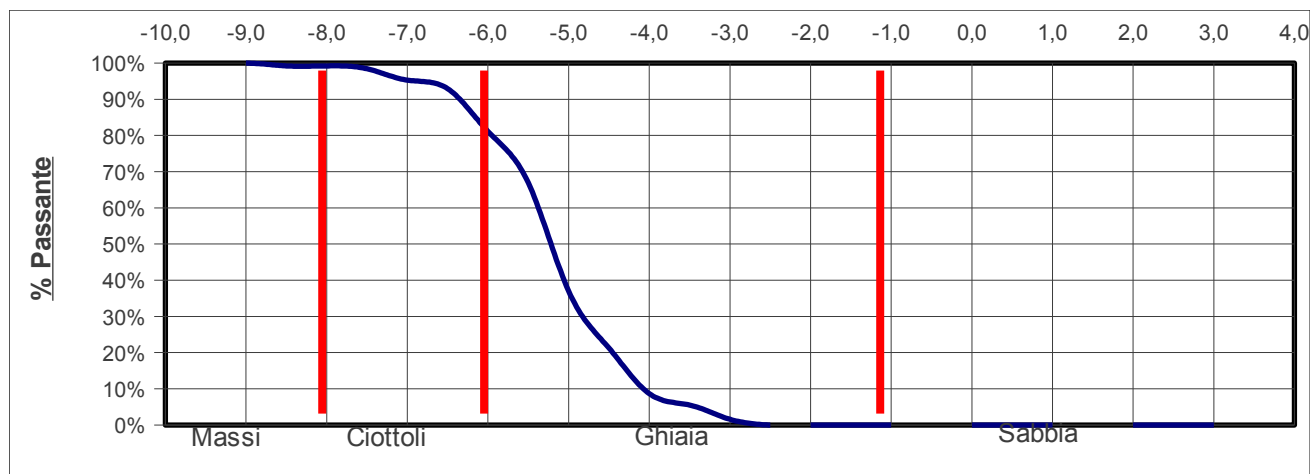
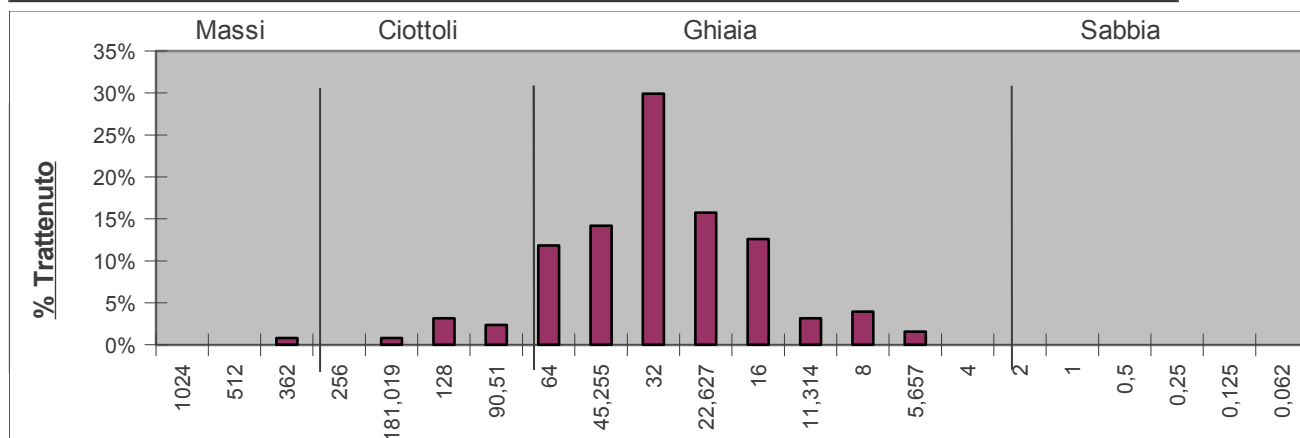
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	79,11	184,43	51,28	15,61	71,29	1,74	7,24

Campione numero = 3-barra				Dist. lungo l'asse dell'alveo 46,5		
Numero ciottoli 97				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	0		0,000%		100,000%
-7,5	181,019	1	1	1,031%	1,031%	98,969%
-7,0	128,000	5	4	5,155%	4,124%	94,845%
-6,5	90,510	16	11	16,495%	11,340%	83,505%
-6,0	64,000	31	15	31,959%	15,464%	68,041%
-5,5	45,255	44	13	45,361%	13,402%	54,639%
-5,0	32,000	69	25	71,134%	25,773%	28,866%
-4,5	22,627	83	14	85,567%	14,433%	14,433%
-4,0	16,000	90	7	92,784%	7,216%	7,216%
-3,5	11,314	94	4	96,907%	4,124%	3,093%
-3,0	8,000	95	1	97,938%	1,031%	2,062%
-2,5	5,657	97	2	100,000%	2,062%	0,000%
-2,0	4,000	97	0	100,000%	0,000%	0,000%
-1,0	2,000	97	0	100,000%	0,000%	0,000%
0,0	1,000	97	0	100,000%	0,000%	0,000%
1,0	0,500	97	0	100,000%	0,000%	0,000%
2,0	0,250	97	0	100,000%	0,000%	0,000%
3,0	0,125	97	0	100,000%	0,000%	0,000%
4,0	0,062	97	0	100,000%	0,000%	0,000%
			97		100,000%	



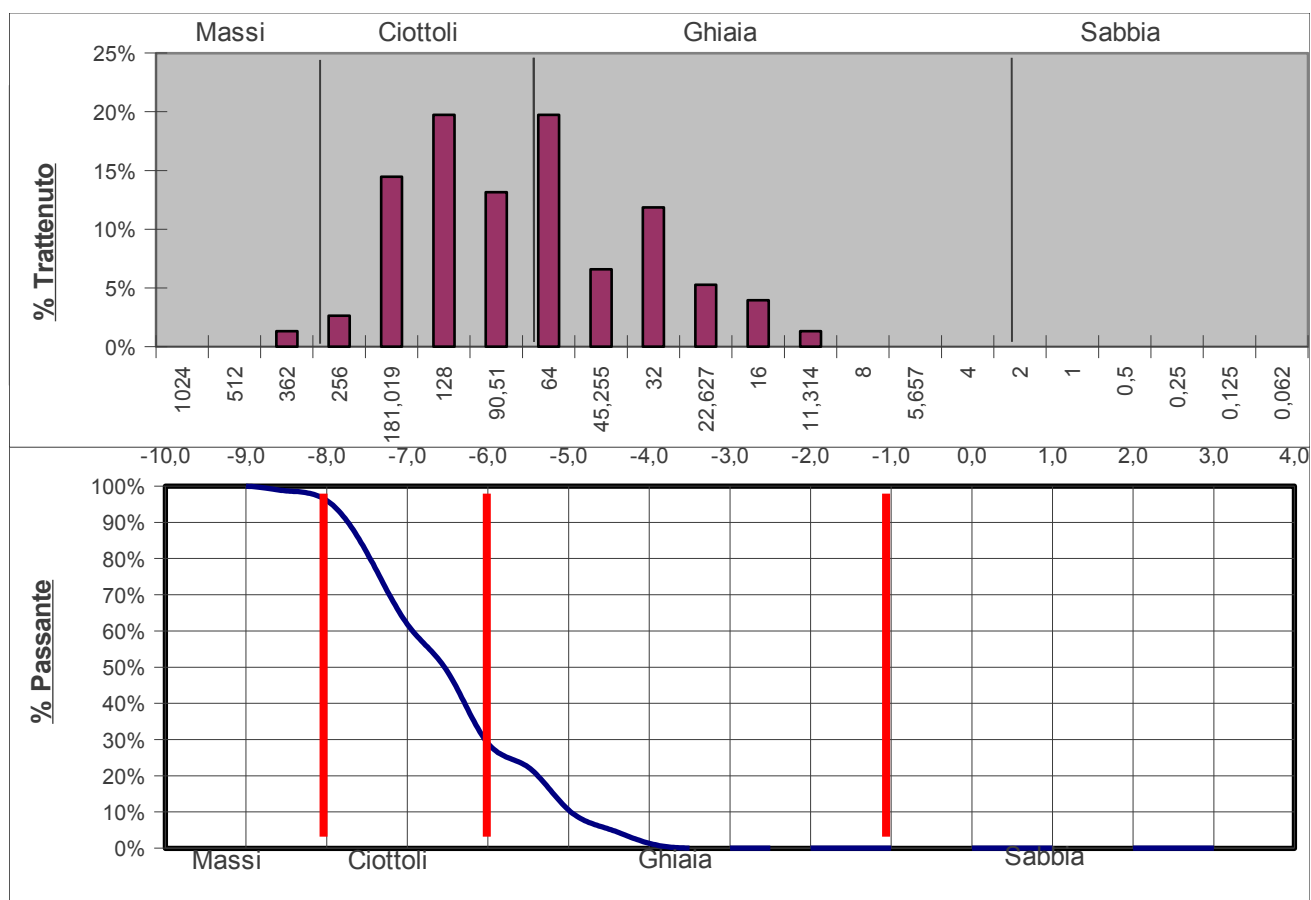
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	56,38	111,98	42,87	18,56	38,78	1,47	5,50

Campione numero = 2-totale				Dist. lungo l'asse dell'alveo 46,8		
Numero ciottoli 127				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	1	1	0,787%	0,787%	99,213%
-8,0	256,000	1	0	0,787%	0,000%	99,213%
-7,5	181,019	2	1	1,575%	0,787%	98,425%
-7,0	128,000	6	4	4,724%	3,150%	95,276%
-6,5	90,510	9	3	7,087%	2,362%	92,913%
-6,0	64,000	24	15	18,898%	11,811%	81,102%
-5,5	45,255	42	18	33,071%	14,173%	66,929%
-5,0	32,000	80	38	62,992%	29,921%	37,008%
-4,5	22,627	100	20	78,740%	15,748%	21,260%
-4,0	16,000	116	16	91,339%	12,598%	8,661%
-3,5	11,314	120	4	94,488%	3,150%	5,512%
-3,0	8,000	125	5	98,425%	3,937%	1,575%
-2,5	5,657	127	2	100,000%	1,575%	0,000%
-2,0	4,000	127	0	100,000%	0,000%	0,000%
-1,0	2,000	127	0	100,000%	0,000%	0,000%
0,0	1,000	127	0	100,000%	0,000%	0,000%
1,0	0,500	127	0	100,000%	0,000%	0,000%
2,0	0,250	127	0	100,000%	0,000%	0,000%
3,0	0,125	127	0	100,000%	0,000%	0,000%
4,0	0,062	127	0	100,000%	0,000%	0,000%
			127		100,000%	



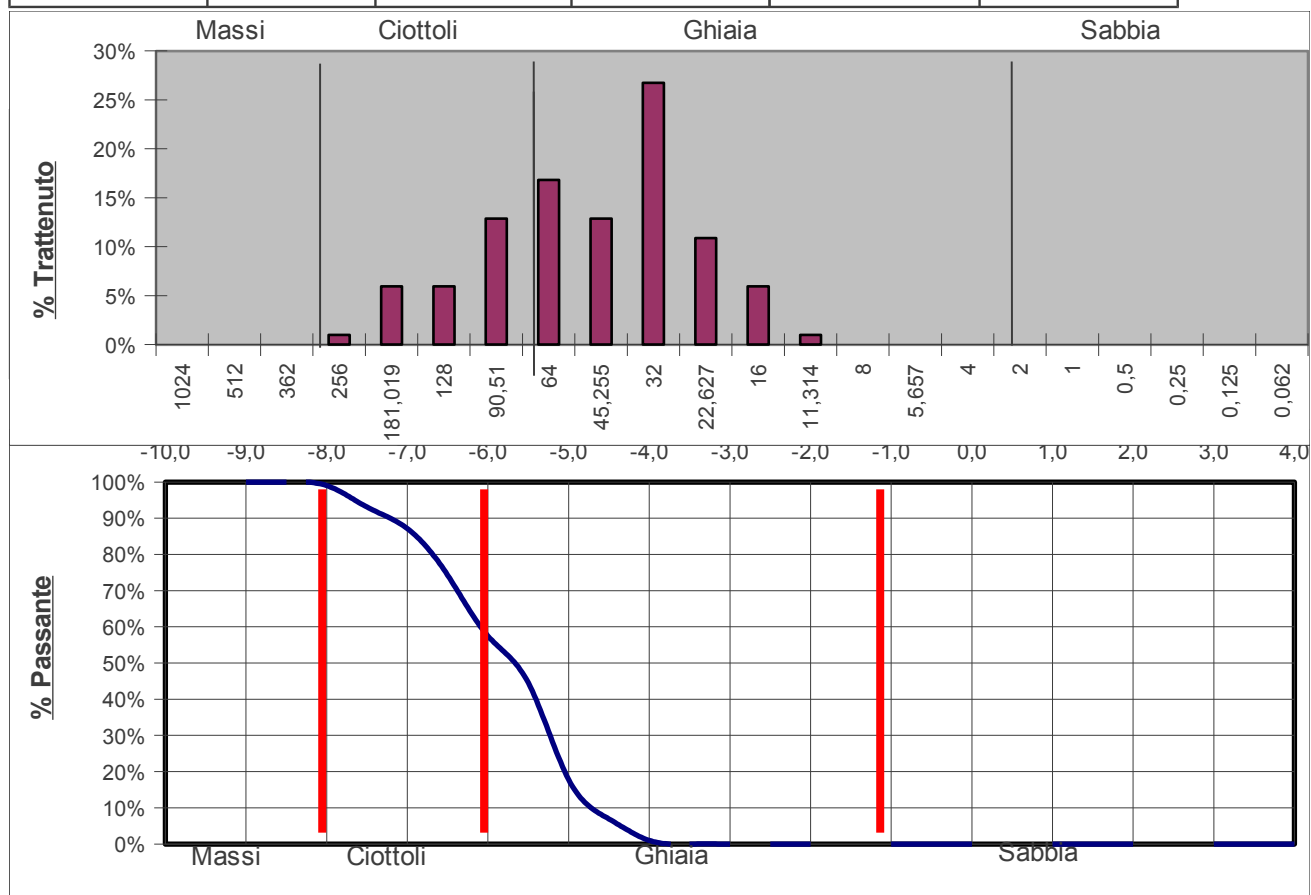
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	48,69	83,97	37,76	16,70	47,88	4,88	36,21

Campione numero = 28-barra				Dist. lungo l'asse dell'alveo 47,0		
Numero ciottoli 76				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	1	1	1,316%	1,316%	98,684%
-8,0	256,000	3	2	3,947%	2,632%	96,053%
-7,5	181,019	14	11	18,421%	14,474%	81,579%
-7,0	128,000	29	15	38,158%	19,737%	61,842%
-6,5	90,510	39	10	51,316%	13,158%	48,684%
-6,0	64,000	54	15	71,053%	19,737%	28,947%
-5,5	45,255	59	5	77,632%	6,579%	22,368%
-5,0	32,000	68	9	89,474%	11,842%	10,526%
-4,5	22,627	72	4	94,737%	5,263%	5,263%
-4,0	16,000	75	3	98,684%	3,947%	1,316%
-3,5	11,314	76	1	100,000%	1,316%	0,000%
-3,0	8,000	76	0	100,000%	0,000%	0,000%
-2,5	5,657	76	0	100,000%	0,000%	0,000%
-2,0	4,000	76	0	100,000%	0,000%	0,000%
-1,0	2,000	76	0	100,000%	0,000%	0,000%
0,0	1,000	76	0	100,000%	0,000%	0,000%
1,0	0,500	76	0	100,000%	0,000%	0,000%
2,0	0,250	76	0	100,000%	0,000%	0,000%
3,0	0,125	76	0	100,000%	0,000%	0,000%
4,0	0,062	76	0	100,000%	0,000%	0,000%
			76		100,000%	



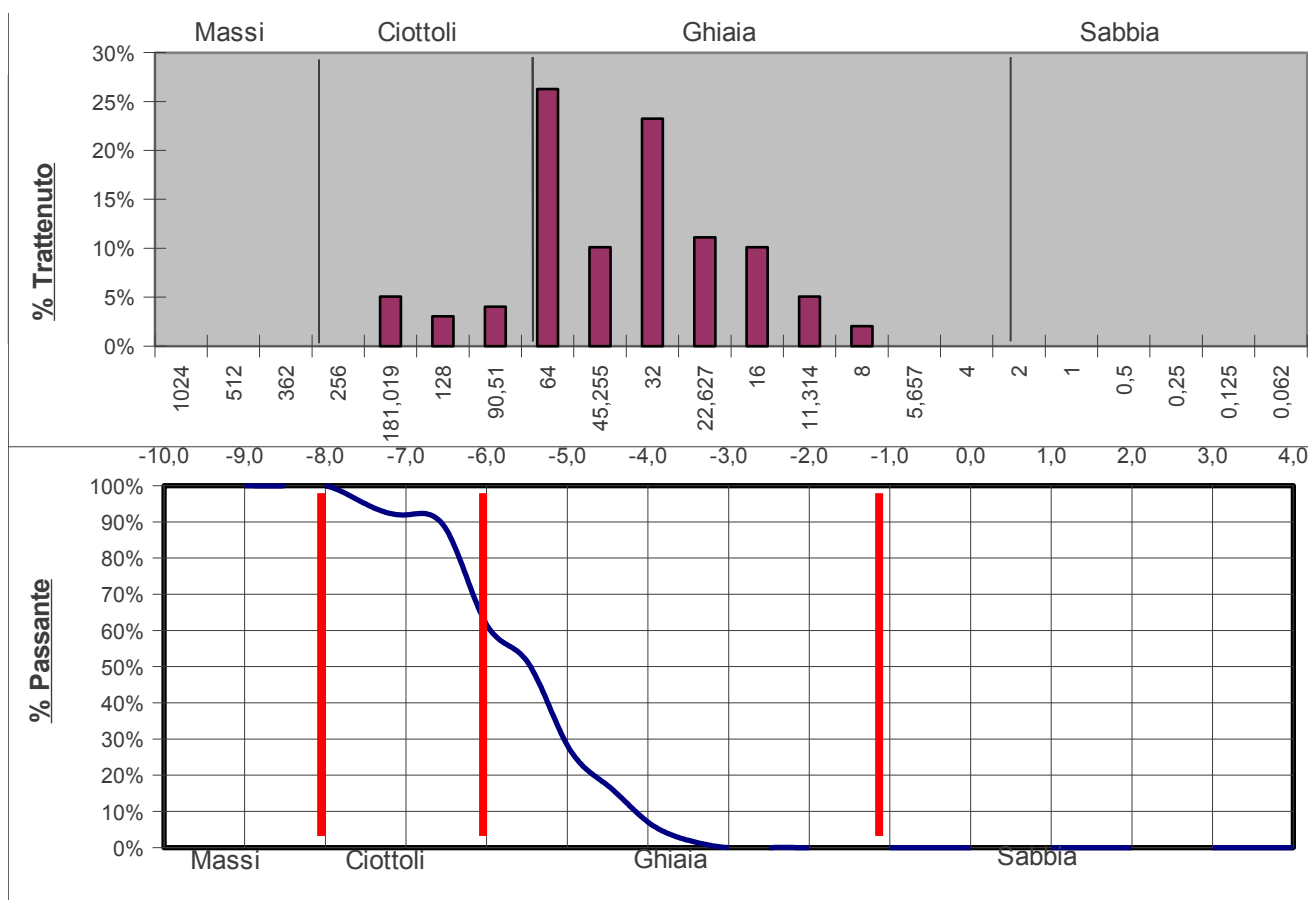
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	116,17	224,64	94,26	31,06	79,56	1,23	5,14

Campione numero = 22-barra				Dist. lungo l'asse dell'alveo 47,8			NOTE: il campionamento viene effettuato sulla barra centrale dove la granulometria è piu' grossolana del fondo dell'alveo.Il campionamento è stato fatto tramite grid (5 vecchi grid).Il canale è quasi totalmente sull'argilla.
Numero ciottoli 101				Note:			
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passan	
-10,0	1024	0		0,000%		100,000%	
-9,0	512	0		0,000%		100,000%	
-8,5	362	0		0,000%		100,000%	
-8,0	256,000	1	1	0,990%	0,990%	99,010%	
-7,5	181,019	7	6	6,931%	5,941%	93,069%	
-7,0	128,000	13	6	12,871%	5,941%	87,129%	
-6,5	90,510	26	13	25,743%	12,871%	74,257%	
-6,0	64,000	43	17	42,574%	16,832%	57,426%	
-5,5	45,255	56	13	55,446%	12,871%	44,554%	
-5,0	32,000	83	27	82,178%	26,733%	17,822%	
-4,5	22,627	94	11	93,069%	10,891%	6,931%	
-4,0	16,000	100	6	99,010%	5,941%	0,990%	
-3,5	11,314	101	1	100,000%	0,990%	0,000%	
-3,0	8,000	101	0	100,000%	0,000%	0,000%	
-2,5	5,657	101	0	100,000%	0,000%	0,000%	
-2,0	4,000	101	0	100,000%	0,000%	0,000%	
-1,0	2,000	101	0	100,000%	0,000%	0,000%	
0,0	1,000	101	0	100,000%	0,000%	0,000%	
1,0	0,500	101	0	100,000%	0,000%	0,000%	
2,0	0,250	101	0	100,000%	0,000%	0,000%	
3,0	0,125	101	0	100,000%	0,000%	0,000%	
4,0	0,062	101	0	100,000%	0,000%	0,000%	
			101		100,000%		



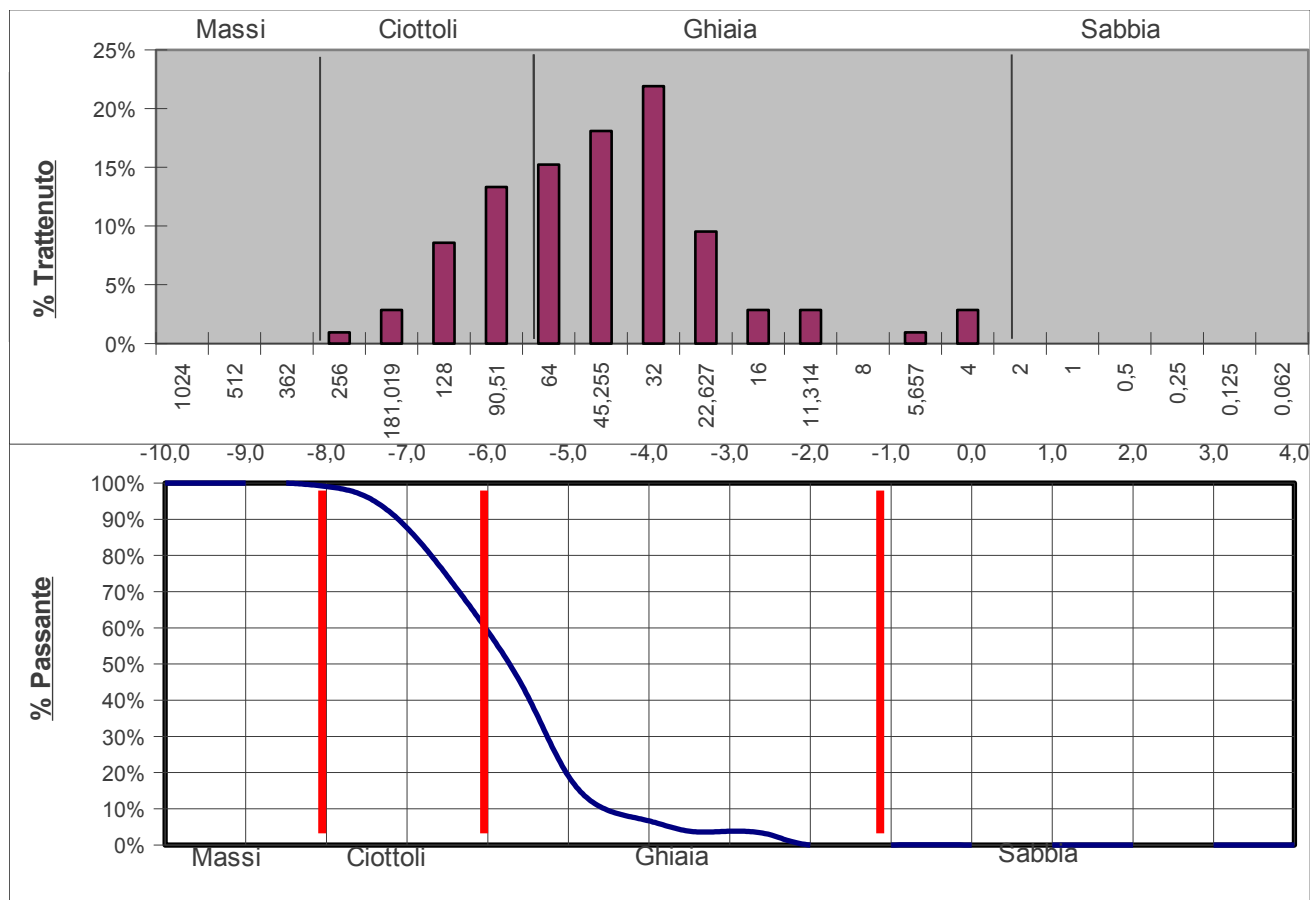
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	73,90	153,63	53,19	25,27	56,29	1,74	6,03

Campione numero = 27-barra				Dist. lungo l'asse dell'alveo 49,1			NOTE: il campionamento viene effettuato tramite grid sulla barra
Numero ciottoli 99				Note:			
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante	
-10,0	1024	0		0,000%		100,000%	
-9,0	512	0		0,000%		100,000%	
-8,5	362	0		0,000%		100,000%	
-8,0	256,000	0		0,000%		100,000%	
-7,5	181,019	5	5	5,051%	5,051%	94,949%	
-7,0	128,000	8	3	8,081%	3,030%	91,919%	
-6,5	90,510	12	4	12,121%	4,040%	87,879%	
-6,0	64,000	38	26	38,384%	26,263%	61,616%	
-5,5	45,255	48	10	48,485%	10,101%	51,515%	
-5,0	32,000	71	23	71,717%	23,232%	28,283%	
-4,5	22,627	82	11	82,828%	11,111%	17,172%	
-4,0	16,000	92	10	92,929%	10,101%	7,071%	
-3,5	11,314	97	5	97,980%	5,051%	2,020%	
-3,0	8,000	99	2	100,000%	2,020%	0,000%	
-2,5	5,657	99	0	100,000%	0,000%	0,000%	
-2,0	4,000	99	0	100,000%	0,000%	0,000%	
-1,0	2,000	99	0	100,000%	0,000%	0,000%	
0,0	1,000	99	0	100,000%	0,000%	0,000%	
1,0	0,500	99	0	100,000%	0,000%	0,000%	
2,0	0,250	99	0	100,000%	0,000%	0,000%	
3,0	0,125	99	0	100,000%	0,000%	0,000%	
4,0	0,062	99	0	100,000%	0,000%	0,000%	
			99		100,000%		



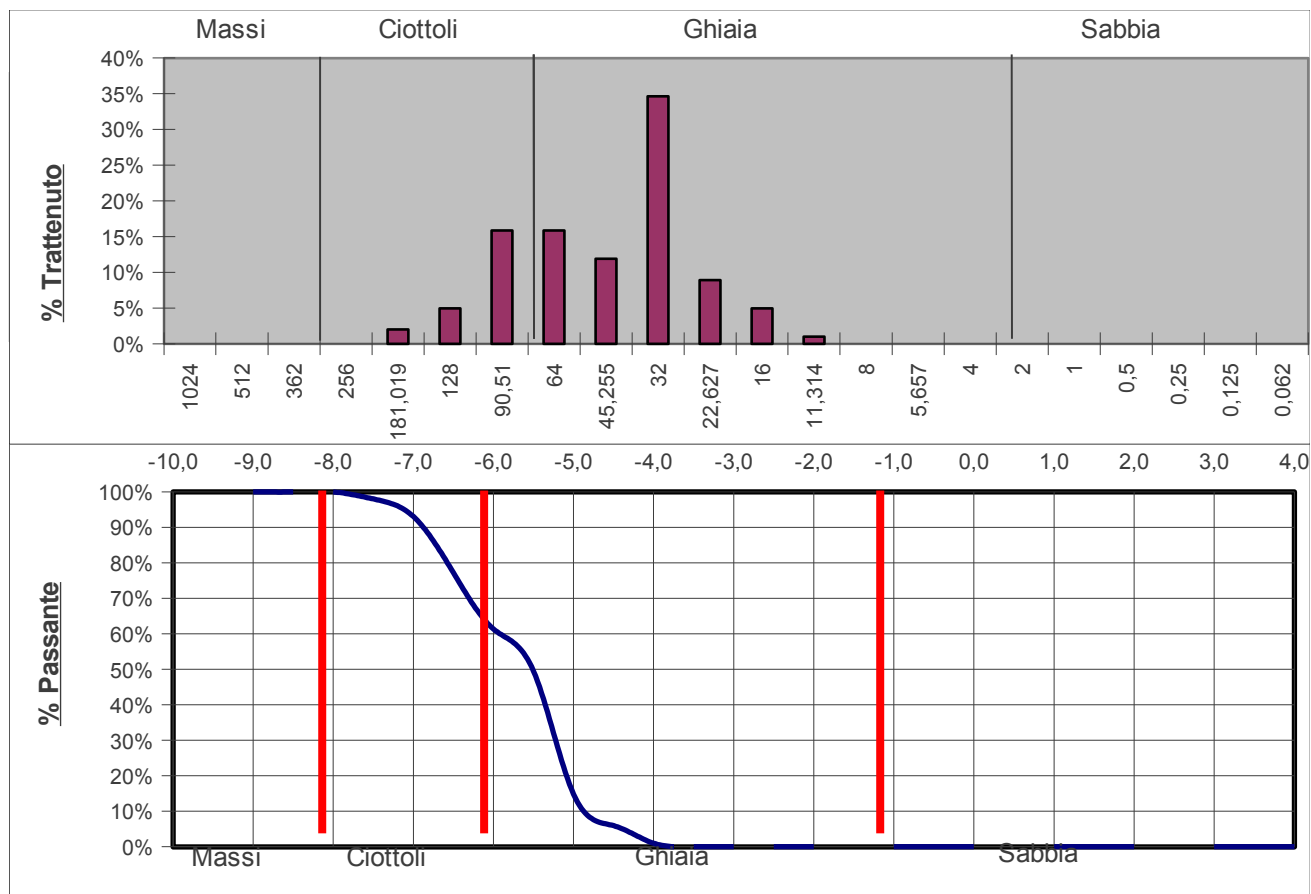
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	60,78	110,19	44,39	17,92	47,64	1,91	6,74

Campione numero = 13-tot				Dist. lungo l'asse dell'alveo 49,5			NOTE: il campionamento viene effettuato sulla base di due transeetti. Vedi disegno sul quaderno di campagna
Numero ciottoli 105				Note:			
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passato	
-10,0	1024	0		0,000%		100,000%	
-9,0	512	0		0,000%		100,000%	
-8,5	362	0		0,000%		100,000%	
-8,0	256,000	1	1	0,952%	0,952%	99,048%	
-7,5	181,019	4	3	3,810%	2,857%	96,190%	
-7,0	128,000	13	9	12,381%	8,571%	87,619%	
-6,5	90,510	27	14	25,714%	13,333%	74,286%	
-6,0	64,000	43	16	40,952%	15,238%	59,048%	
-5,5	45,255	62	19	59,048%	18,095%	40,952%	
-5,0	32,000	85	23	80,952%	21,905%	19,048%	
-4,5	22,627	95	10	90,476%	9,524%	9,524%	
-4,0	16,000	98	3	93,333%	2,857%	6,667%	
-3,5	11,314	101	3	96,190%	2,857%	3,810%	
-3,0	8,000	101	0	96,190%	0,000%	3,810%	
-2,5	5,657	102	1	97,143%	0,952%	2,857%	
-2,0	4,000	105	3	100,000%	2,857%	0,000%	
-1,0	2,000	105	0	100,000%	0,000%	0,000%	
0,0	1,000	105	0	100,000%	0,000%	0,000%	
1,0	0,500	105	0	100,000%	0,000%	0,000%	
2,0	0,250	105	0	100,000%	0,000%	0,000%	
3,0	0,125	105	0	100,000%	0,000%	0,000%	
4,0	0,062	105	0	100,000%	0,000%	0,000%	
			105		100,000%		



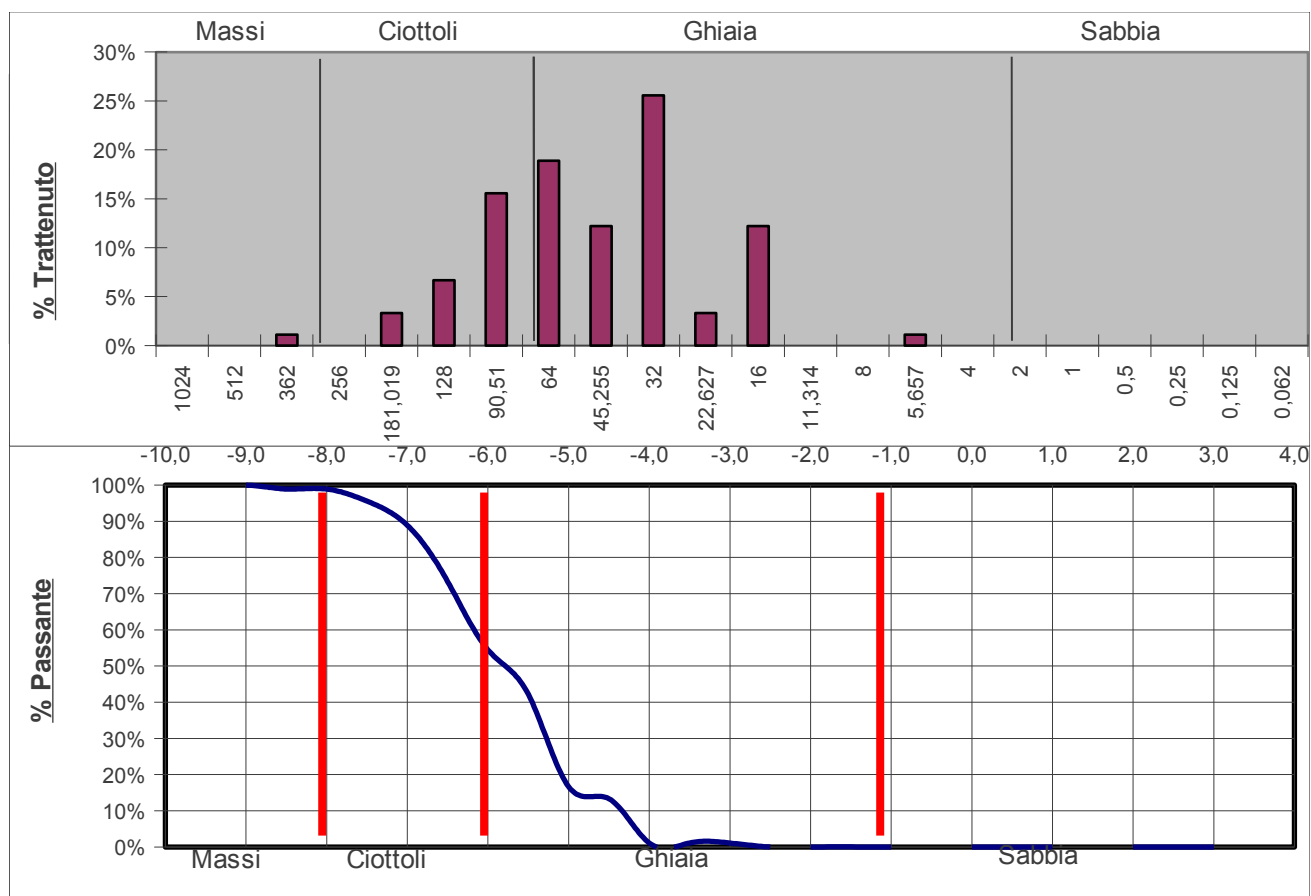
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	70,86	142,73	54,63	23,10	52,48	1,68	6,66

Campione numero = 12-barra				Dist. lungo l'asse dell'alveo 49,8			NOTE: il campionamento è effettuato tramite grid sulla barra(campionamento relativo alla campagna fatta ad aprile)
Numero ciottoli		101		Note:			
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passato	
-10,0	1024	0		0,000%		100,000%	
-9,0	512	0		0,000%		100,000%	
-8,5	362	0		0,000%		100,000%	
-8,0	256,000	0		0,000%		100,000%	
-7,5	181,019	2	2	1,980%	1,980%	98,020%	
-7,0	128,000	7	5	6,931%	4,950%	93,069%	
-6,5	90,510	23	16	22,772%	15,842%	77,228%	
-6,0	64,000	39	16	38,614%	15,842%	61,386%	
-5,5	45,255	51	12	50,495%	11,881%	49,505%	
-5,0	32,000	86	35	85,149%	34,653%	14,851%	
-4,5	22,627	95	9	94,059%	8,911%	5,941%	
-4,0	16,000	100	5	99,010%	4,950%	0,990%	
-3,5	11,314	101	1	100,000%	0,990%	0,000%	
-3,0	8,000	101	0	100,000%	0,000%	0,000%	
-2,5	5,657	101	0	100,000%	0,000%	0,000%	
-2,0	4,000	101	0	100,000%	0,000%	0,000%	
-1,0	2,000	101	0	100,000%	0,000%	0,000%	
0,0	1,000	101	0	100,000%	0,000%	0,000%	
1,0	0,500	101	0	100,000%	0,000%	0,000%	
2,0	0,250	101	0	100,000%	0,000%	0,000%	
3,0	0,125	101	0	100,000%	0,000%	0,000%	
4,0	0,062	101	0	100,000%	0,000%	0,000%	
			101		100,000%		



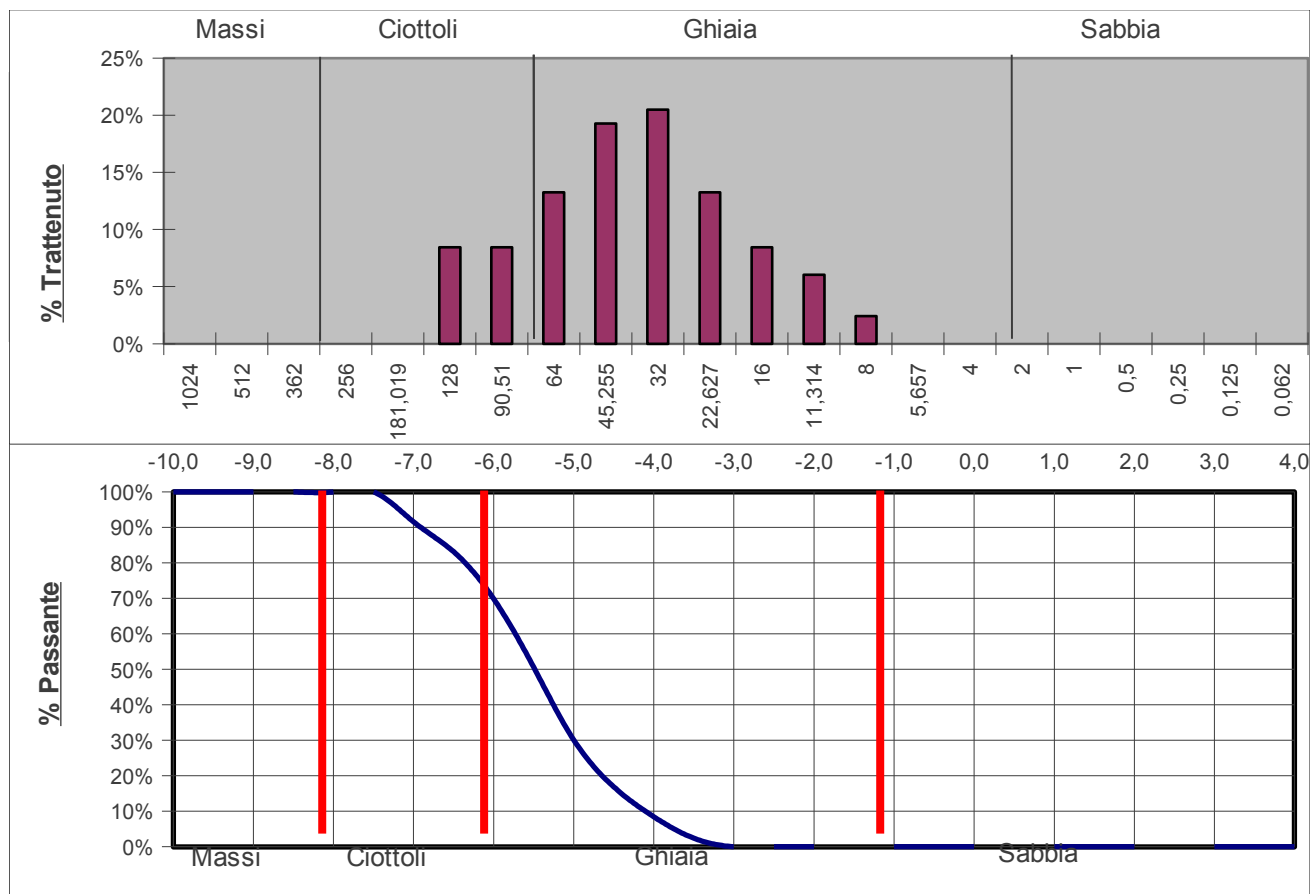
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	64,92	120,74	46,04	26,90	41,32	1,48	5,30

Campione numero = 12-tot				Dist. lungo l'asse dell'alveo 49,9		
Numero ciottoli 90				Note:	4 punti sul bedrock	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	1	1	1,111%	1,111%	98,889%
-8,0	256,000	1	0	1,111%	0,000%	98,889%
-7,5	181,019	4	3	4,444%	3,333%	95,556%
-7,0	128,000	10	6	11,111%	6,667%	88,889%
-6,5	90,510	24	14	26,667%	15,556%	73,333%
-6,0	64,000	41	17	45,556%	18,889%	54,444%
-5,5	45,255	52	11	57,778%	12,222%	42,222%
-5,0	32,000	75	23	83,333%	25,556%	16,667%
-4,5	22,627	78	3	86,667%	3,333%	13,333%
-4,0	16,000	89	11	98,889%	12,222%	1,111%
-3,5	11,314	89	0	98,889%	0,000%	1,111%
-3,0	8,000	89	0	98,889%	0,000%	1,111%
-2,5	5,657	90	1	100,000%	1,111%	0,000%
-2,0	4,000	90	0	100,000%	0,000%	0,000%
-1,0	2,000	90	0	100,000%	0,000%	0,000%
0,0	1,000	90	0	100,000%	0,000%	0,000%
1,0	0,500	90	0	100,000%	0,000%	0,000%
2,0	0,250	90	0	100,000%	0,000%	0,000%
3,0	0,125	90	0	100,000%	0,000%	0,000%
4,0	0,062	90	0	100,000%	0,000%	0,000%
			90		100,000%	



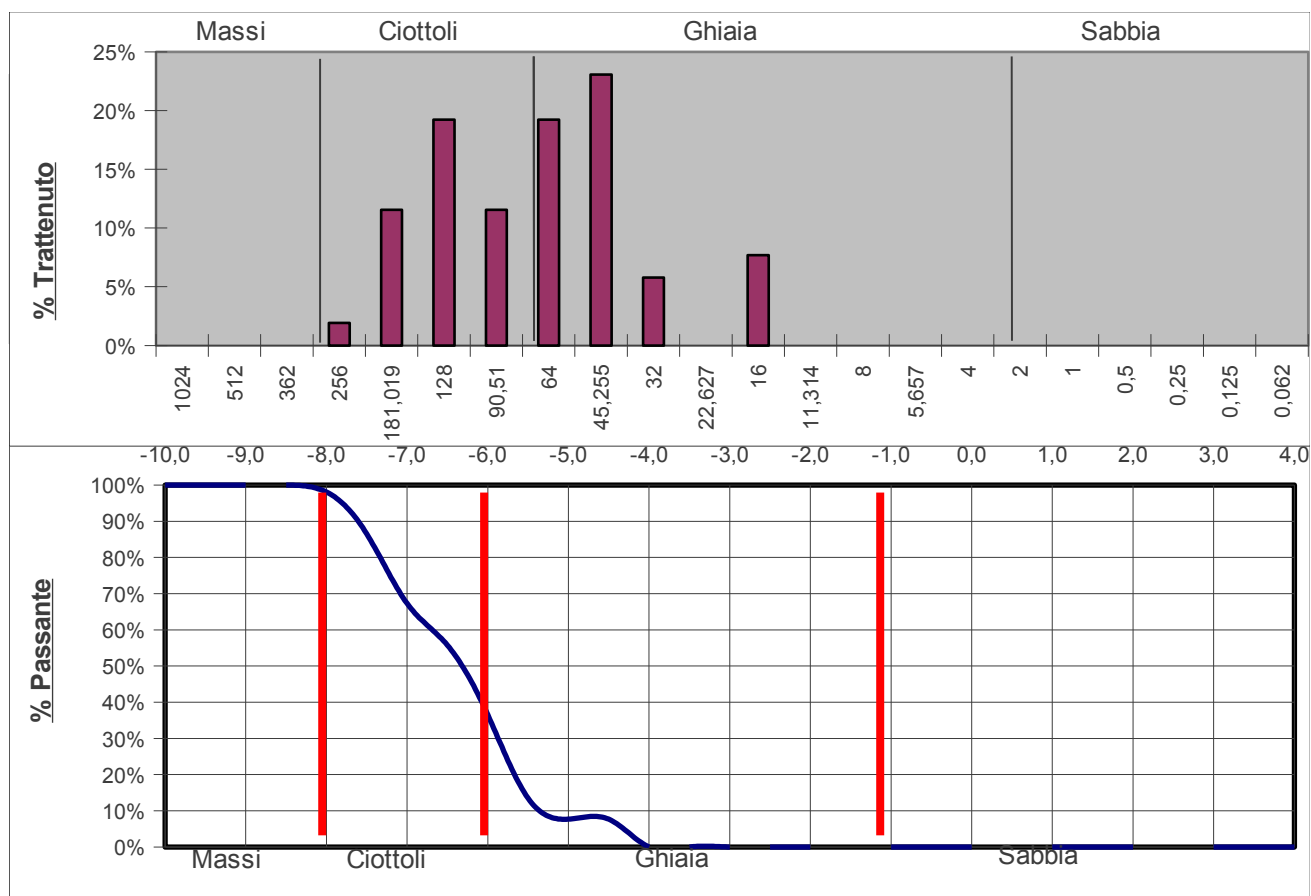
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	73,92	136,84	57,18	20,82	60,35	2,89	16,03

Campione numero =			11-tot	Dist. lungo l'asse dell'alveo			50,3	NOTE: il campionamento viene effettuato sulla base di due transetti. Il primo transetto(quello piu' a valle) prende appena il corpo di una barra, poi il canale, poi la coda di una barra.Vedi disegno sezione sul quaderno di campagna.
Numero ciottoli			83	Note:				
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passato		
-10,0	1024	0		0,000%		100,000%		
-9,0	512	0		0,000%		100,000%		
-8,5	362	0		0,000%		100,000%		
-8,0	256,000	0		0,000%		100,000%		
-7,5	181,019	0		0,000%		100,000%		
-7,0	128,000	7	7	8,434%	8,434%	91,566%		
-6,5	90,510	14	7	16,867%	8,434%	83,133%		
-6,0	64,000	25	11	30,120%	13,253%	69,880%		
-5,5	45,255	41	16	49,398%	19,277%	50,602%		
-5,0	32,000	58	17	69,880%	20,482%	30,120%		
-4,5	22,627	69	11	83,133%	13,253%	16,867%		
-4,0	16,000	76	7	91,566%	8,434%	8,434%		
-3,5	11,314	81	5	97,590%	6,024%	2,410%		
-3,0	8,000	83	2	100,000%	2,410%	0,000%		
-2,5	5,657	83	0	100,000%	0,000%	0,000%		
-2,0	4,000	83	0	100,000%	0,000%	0,000%		
-1,0	2,000	83	0	100,000%	0,000%	0,000%		
0,0	1,000	83	0	100,000%	0,000%	0,000%		
1,0	0,500	83	0	100,000%	0,000%	0,000%		
2,0	0,250	83	0	100,000%	0,000%	0,000%		
3,0	0,125	83	0	100,000%	0,000%	0,000%		
4,0	0,062	83	0	100,000%	0,000%	0,000%		
			83		100,000%			



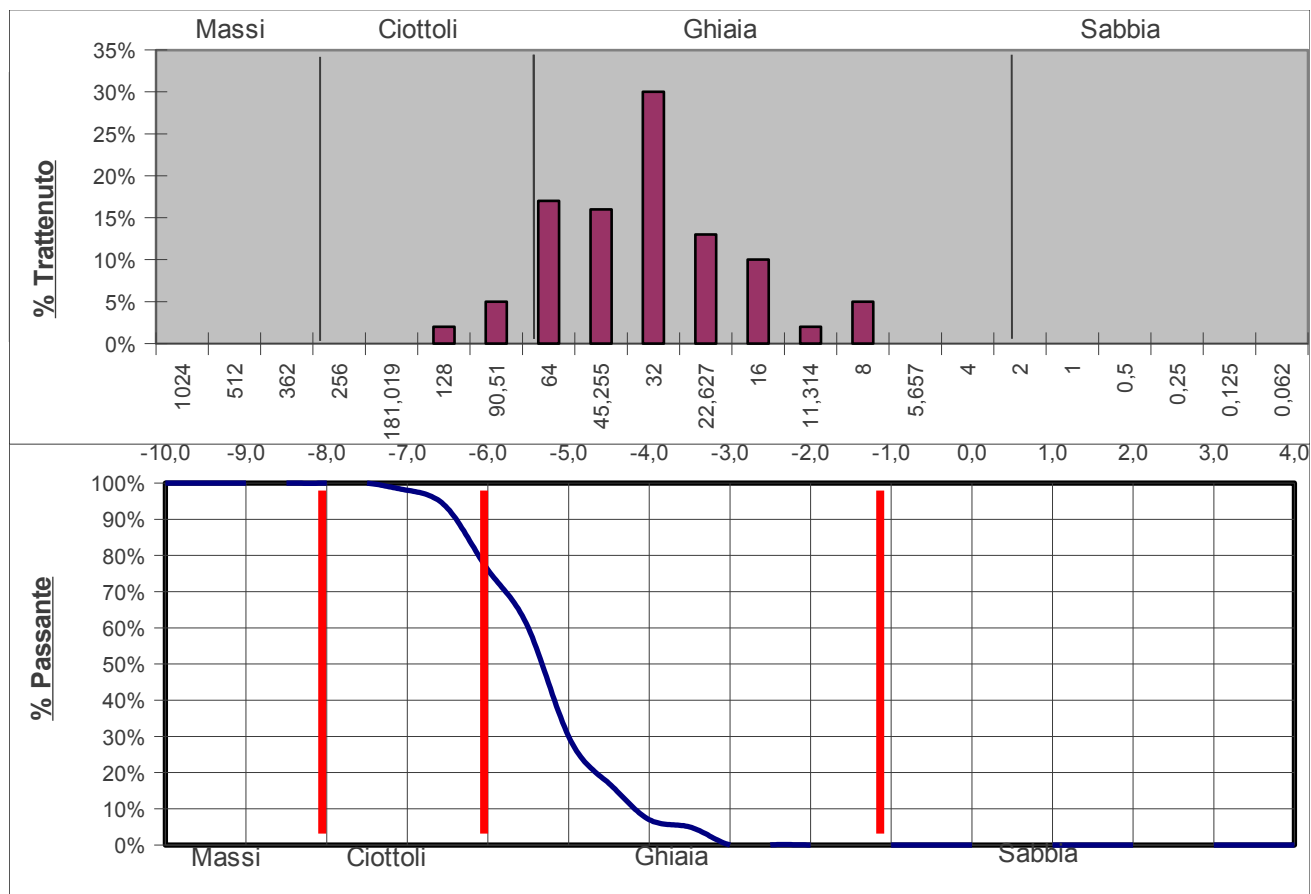
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	57,23	121,04	44,87	17,23	39,50	1,19	3,63

Campione numero = 10-barra				Dist. lungo l'asse dell'alveo 50,8		
Numero ciottoli 52				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	1	1	1,923%	1,923%	98,077%
-7,5	181,019	7	6	13,462%	11,538%	86,538%
-7,0	128,000	17	10	32,692%	19,231%	67,308%
-6,5	90,510	23	6	44,231%	11,538%	55,769%
-6,0	64,000	33	10	63,462%	19,231%	36,538%
-5,5	45,255	45	12	86,538%	23,077%	13,462%
-5,0	32,000	48	3	92,308%	5,769%	7,692%
-4,5	22,627	48	0	92,308%	0,000%	7,692%
-4,0	16,000	52	4	100,000%	7,692%	0,000%
-3,5	11,314	52	0	100,000%	0,000%	0,000%
-3,0	8,000	52	0	100,000%	0,000%	0,000%
-2,5	5,657	52	0	100,000%	0,000%	0,000%
-2,0	4,000	52	0	100,000%	0,000%	0,000%
-1,0	2,000	52	0	100,000%	0,000%	0,000%
0,0	1,000	52	0	100,000%	0,000%	0,000%
1,0	0,500	52	0	100,000%	0,000%	0,000%
2,0	0,250	52	0	100,000%	0,000%	0,000%
3,0	0,125	52	0	100,000%	0,000%	0,000%
4,0	0,062	52	0	100,000%	0,000%	0,000%
			52		100,000%	



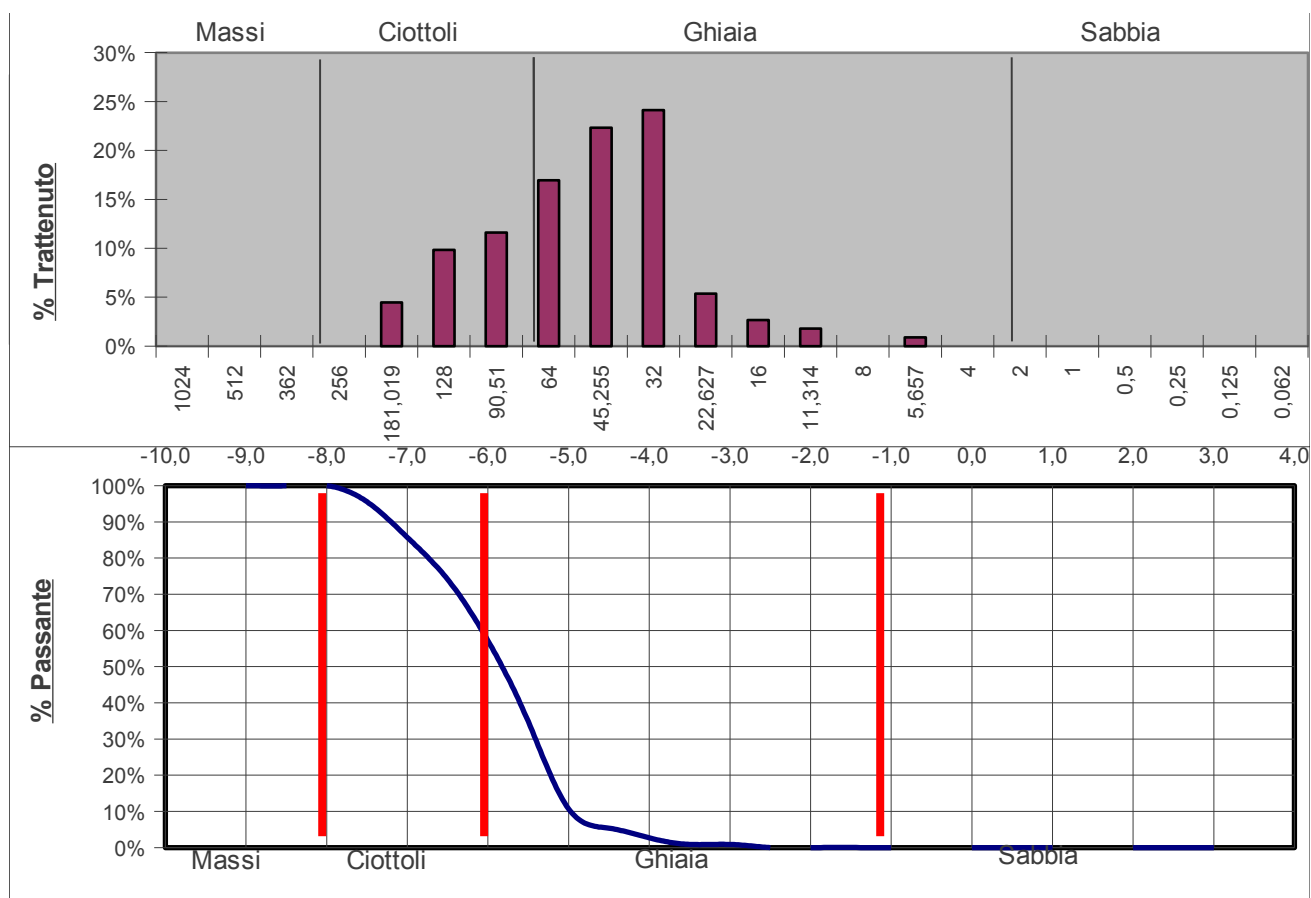
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	104,65	203,51	82,56	37,30	65,67	0,92	3,27

Campione numero = 26-barra				Dist. lungo l'asse dell'alveo 51,2			NOTE: il campionamento viene effettuato tramite grid (6) sulla barra.
Numero ciottoli 100				Note:			
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passan	
-10,0	1024	0		0,000%		100,000%	
-9,0	512	0		0,000%		100,000%	
-8,5	362	0		0,000%		100,000%	
-8,0	256,000	0		0,000%		100,000%	
-7,5	181,019	0		0,000%		100,000%	
-7,0	128,000	2	2	2,000%	2,000%	98,000%	
-6,5	90,510	7	5	7,000%	5,000%	93,000%	
-6,0	64,000	24	17	24,000%	17,000%	76,000%	
-5,5	45,255	40	16	40,000%	16,000%	60,000%	
-5,0	32,000	70	30	70,000%	30,000%	30,000%	
-4,5	22,627	83	13	83,000%	13,000%	17,000%	
-4,0	16,000	93	10	93,000%	10,000%	7,000%	
-3,5	11,314	95	2	95,000%	2,000%	5,000%	
-3,0	8,000	100	5	100,000%	5,000%	0,000%	
-2,5	5,657	100	0	100,000%	0,000%	0,000%	
-2,0	4,000	100	0	100,000%	0,000%	0,000%	
-1,0	2,000	100	0	100,000%	0,000%	0,000%	
0,0	1,000	100	0	100,000%	0,000%	0,000%	
1,0	0,500	100	0	100,000%	0,000%	0,000%	
2,0	0,250	100	0	100,000%	0,000%	0,000%	
3,0	0,125	100	0	100,000%	0,000%	0,000%	
4,0	0,062	100	0	100,000%	0,000%	0,000%	
			100		100,000%		



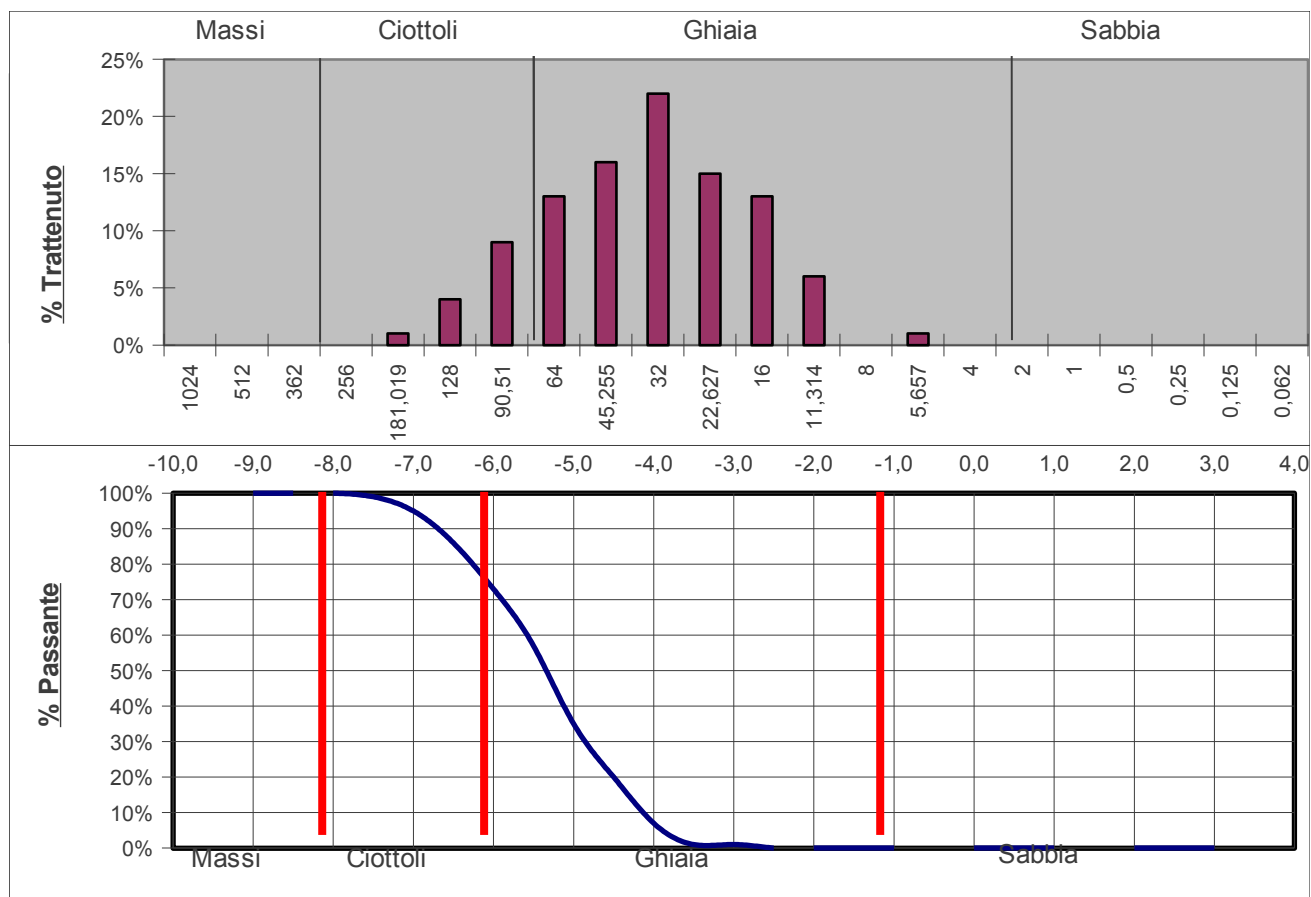
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	48,25	85,83	40,84	17,99	28,78	1,34	5,25

Campione numero = 21-tot				Dist. lungo l'asse dell'alveo 51,7		
Numero ciottoli 112				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	0		0,000%		100,000%
-7,5	181,019	5	5	4,464%	4,464%	95,536%
-7,0	128,000	16	11	14,286%	9,821%	85,714%
-6,5	90,510	29	13	25,893%	11,607%	74,107%
-6,0	64,000	48	19	42,857%	16,964%	57,143%
-5,5	45,255	73	25	65,179%	22,321%	34,821%
-5,0	32,000	100	27	89,286%	24,107%	10,714%
-4,5	22,627	106	6	94,643%	5,357%	5,357%
-4,0	16,000	109	3	97,321%	2,679%	2,679%
-3,5	11,314	111	2	99,107%	1,786%	0,893%
-3,0	8,000	111	0	99,107%	0,000%	0,893%
-2,5	5,657	112	1	100,000%	0,893%	0,000%
-2,0	4,000	112	0	100,000%	0,000%	0,000%
-1,0	2,000	112	0	100,000%	0,000%	0,000%
0,0	1,000	112	0	100,000%	0,000%	0,000%
1,0	0,500	112	0	100,000%	0,000%	0,000%
2,0	0,250	112	0	100,000%	0,000%	0,000%
3,0	0,125	112	0	100,000%	0,000%	0,000%
4,0	0,062	112	0	100,000%	0,000%	0,000%
			112		100,000%	



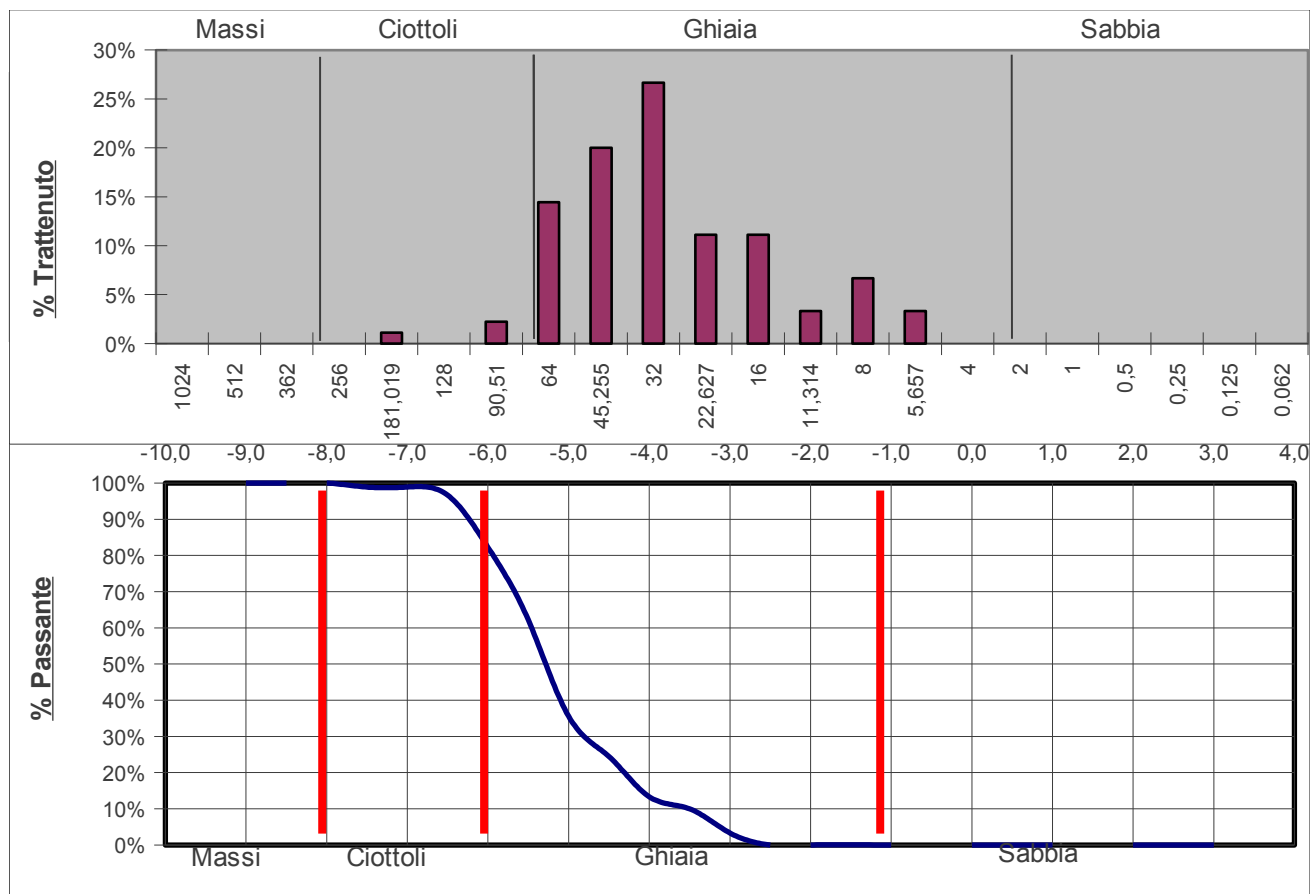
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	74,51	151,14	58,00	30,75	49,01	1,35	4,29

Campione numero =			17-tot	Dist. lungo l'asse dell'alveo			53,0	NOTE: il campionamento viene effettuato sulla base di un transetto nella zona di riffle e di una barra. Il riffle è stretto e non grossolano.
Numero ciottoli			100	Note:	12 punti sul bedrock			
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passar		
-10,0	1024	0		0,000%		100,000%		
-9,0	512	0		0,000%		100,000%		
-8,5	362	0		0,000%		100,000%		
-8,0	256,000	0		0,000%		100,000%		
-7,5	181,019	1	1	1,000%	1,000%	99,000%		
-7,0	128,000	5	4	5,000%	4,000%	95,000%		
-6,5	90,510	14	9	14,000%	9,000%	86,000%		
-6,0	64,000	27	13	27,000%	13,000%	73,000%		
-5,5	45,255	43	16	43,000%	16,000%	57,000%		
-5,0	32,000	65	22	65,000%	22,000%	35,000%		
-4,5	22,627	80	15	80,000%	15,000%	20,000%		
-4,0	16,000	93	13	93,000%	13,000%	7,000%		
-3,5	11,314	99	6	99,000%	6,000%	1,000%		
-3,0	8,000	99	0	99,000%	0,000%	1,000%		
-2,5	5,657	100	1	100,000%	1,000%	0,000%		
-2,0	4,000	100	0	100,000%	0,000%	0,000%		
-1,0	2,000	100	0	100,000%	0,000%	0,000%		
0,0	1,000	100	0	100,000%	0,000%	0,000%		
1,0	0,500	100	0	100,000%	0,000%	0,000%		
2,0	0,250	100	0	100,000%	0,000%	0,000%		
3,0	0,125	100	0	100,000%	0,000%	0,000%		
4,0	0,062	100	0	100,000%	0,000%	0,000%		
			100		100,000%			



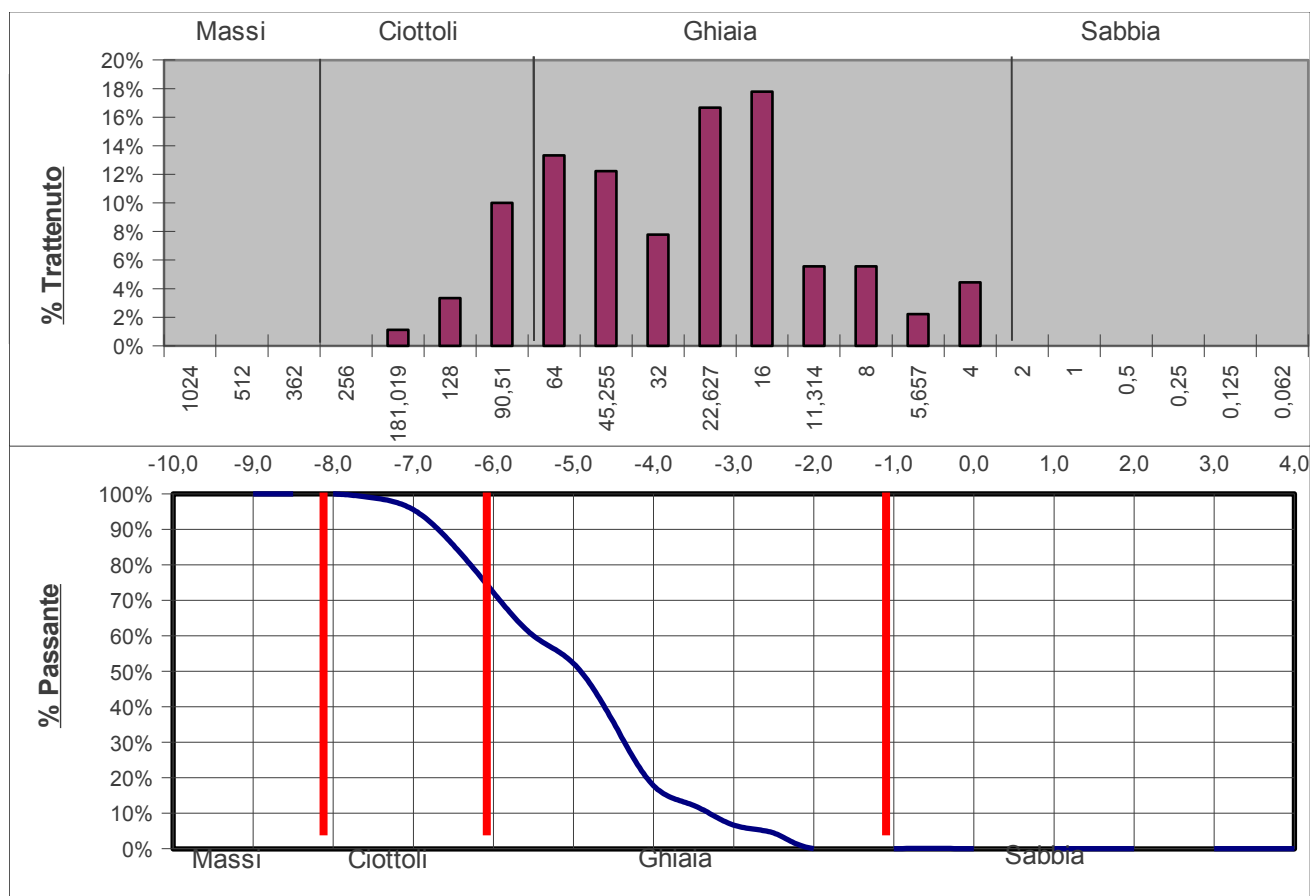
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	52,98	107,17	41,04	17,53	38,13	1,67	6,21

Campione numero =			16-tot	Dist. lungo l'asse dell'alveo			53,9	NOTE: il campionamento viene effettuato sulla base di due transeetti. Dei 95 ciottoli raccolti solo 16 sono relativi alla barra. Relativamente alla barra è stato usato anche un metodo di stima delle granulometrie fotografico.
Numero ciottoli			90	Note:	12 punti sul bedrock			
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passato		
-10,0	1024	0		0,000%		100,000%		
-9,0	512	0		0,000%		100,000%		
-8,5	362	0		0,000%		100,000%		
-8,0	256,000	0		0,000%		100,000%		
-7,5	181,019	1	1	1,111%	1,111%	98,889%		
-7,0	128,000	1	0	1,111%	0,000%	98,889%		
-6,5	90,510	3	2	3,333%	2,222%	96,667%		
-6,0	64,000	16	13	17,778%	14,444%	82,222%		
-5,5	45,255	34	18	37,778%	20,000%	62,222%		
-5,0	32,000	58	24	64,444%	26,667%	35,556%		
-4,5	22,627	68	10	75,556%	11,111%	24,444%		
-4,0	16,000	78	10	86,667%	11,111%	13,333%		
-3,5	11,314	81	3	90,000%	3,333%	10,000%		
-3,0	8,000	87	6	96,667%	6,667%	3,333%		
-2,5	5,657	90	3	100,000%	3,333%	0,000%		
-2,0	4,000	90	0	100,000%	0,000%	0,000%		
-1,0	2,000	90	0	100,000%	0,000%	0,000%		
0,0	1,000	90	0	100,000%	0,000%	0,000%		
1,0	0,500	90	0	100,000%	0,000%	0,000%		
2,0	0,250	90	0	100,000%	0,000%	0,000%		
3,0	0,125	90	0	100,000%	0,000%	0,000%		
4,0	0,062	90	0	100,000%	0,000%	0,000%		
			90		100,000%			



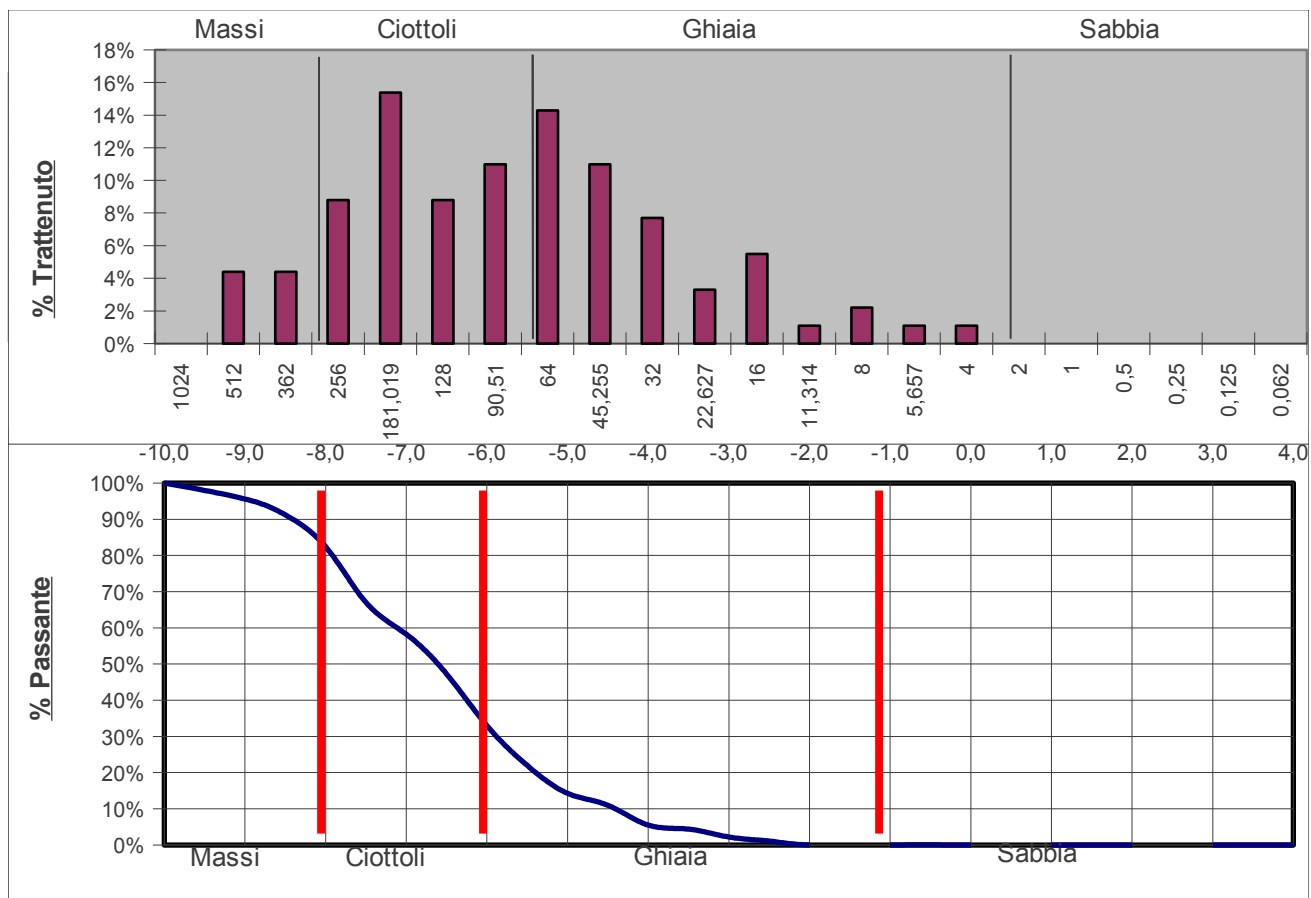
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	43,75	78,27	39,18	11,31	29,61	2,46	14,54

Campione numero = 15-canale				Dist. lungo l'asse dell'alveo 54,4		
Numero ciottoli 90				Note:	16 punti di bedrock	
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	0		0,000%		100,000%
-7,5	181,019	1	1	1,111%	1,111%	98,889%
-7,0	128,000	4	3	4,444%	3,333%	95,556%
-6,5	90,510	13	9	14,444%	10,000%	85,556%
-6,0	64,000	25	12	27,778%	13,333%	72,222%
-5,5	45,255	36	11	40,000%	12,222%	60,000%
-5,0	32,000	43	7	47,778%	7,778%	52,222%
-4,5	22,627	58	15	64,444%	16,667%	35,556%
-4,0	16,000	74	16	82,222%	17,778%	17,778%
-3,5	11,314	79	5	87,778%	5,556%	12,222%
-3,0	8,000	84	5	93,333%	5,556%	6,667%
-2,5	5,657	86	2	95,556%	2,222%	4,444%
-2,0	4,000	90	4	100,000%	4,444%	0,000%
-1,0	2,000	90	0	100,000%	0,000%	0,000%
0,0	1,000	90	0	100,000%	0,000%	0,000%
1,0	0,500	90	0	100,000%	0,000%	0,000%
2,0	0,250	90	0	100,000%	0,000%	0,000%
3,0	0,125	90	0	100,000%	0,000%	0,000%
4,0	0,062	90	0	100,000%	0,000%	0,000%
			90		100,000%	



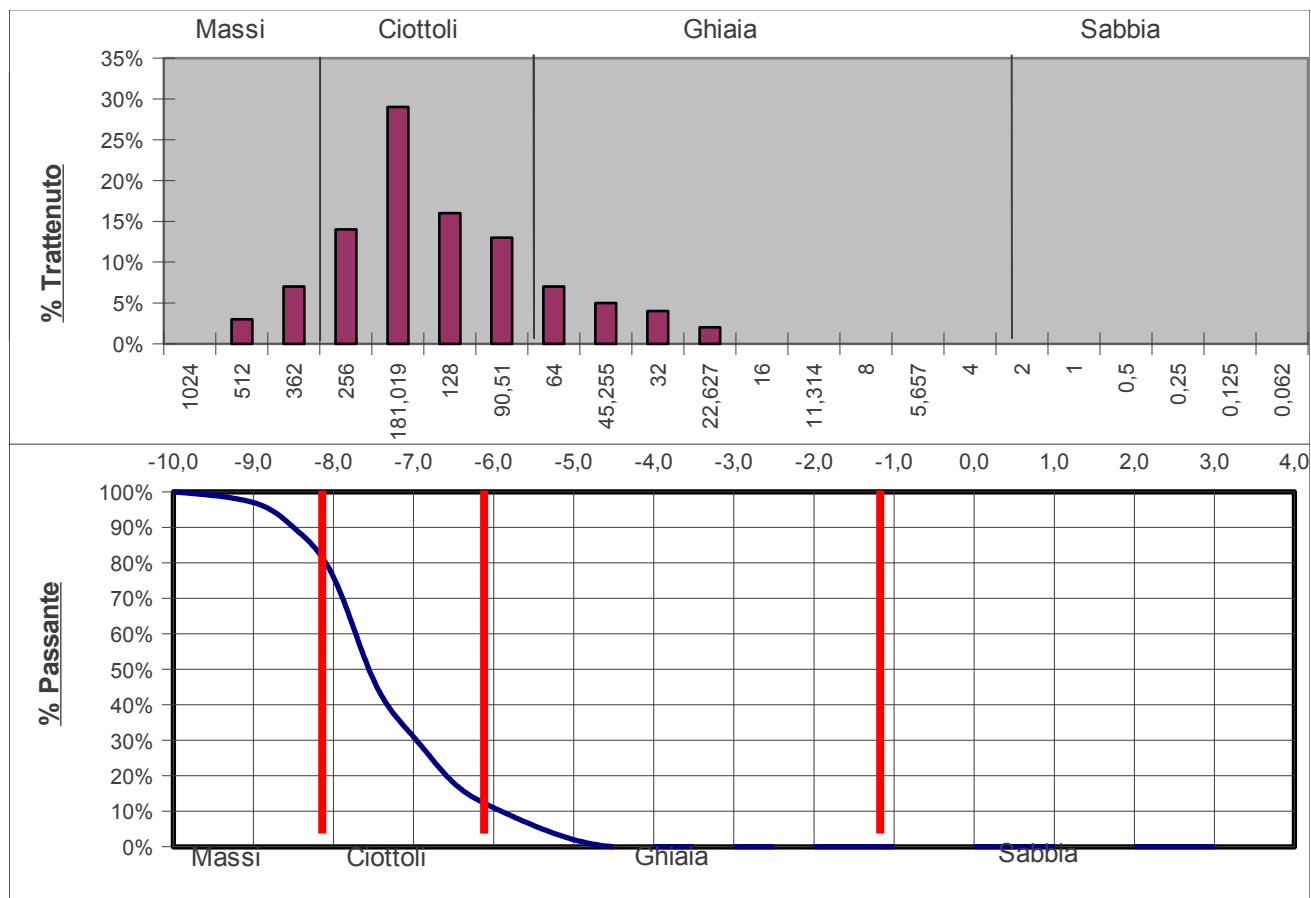
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	48,13	107,17	30,75	9,99	41,09	1,51	5,51

Campione numero =			14tot	Dist. lungo l'asse dell'alveo			54,6	NOTE: il campionamento viene effettuato sulla base di due transetti nella zona di riffleLe granulometrie minori(<=16mm)sono nascoste dietro i ciottoli piu' grossi,dove cioè sono protetti. Il materiale fine è protetto,il grossolano è corazzato,imbriciato.
Numero ciottoli				91	Note:			
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passa		
-10,0	1024	0		0,000%		100,000%		
-9,0	512	4	4	4,396%	4,396%	95,604%		
-8,5	362	8	4	8,791%	4,396%	91,209%		
-8,0	256,000	16	8	17,582%	8,791%	82,418%		
-7,5	181,019	30	14	32,967%	15,385%	67,033%		
-7,0	128,000	38	8	41,758%	8,791%	58,242%		
-6,5	90,510	48	10	52,747%	10,989%	47,253%		
-6,0	64,000	61	13	67,033%	14,286%	32,967%		
-5,5	45,255	71	10	78,022%	10,989%	21,978%		
-5,0	32,000	78	7	85,714%	7,692%	14,286%		
-4,5	22,627	81	3	89,011%	3,297%	10,989%		
-4,0	16,000	86	5	94,505%	5,495%	5,495%		
-3,5	11,314	87	1	95,604%	1,099%	4,396%		
-3,0	8,000	89	2	97,802%	2,198%	2,198%		
-2,5	5,657	90	1	98,901%	1,099%	1,099%		
-2,0	4,000	91	1	100,000%	1,099%	0,000%		
-1,0	2,000	91	0	100,000%	0,000%	0,000%		
0,0	1,000	91	0	100,000%	0,000%	0,000%		
1,0	0,500	91	0	100,000%	0,000%	0,000%		
2,0	0,250	91	0	100,000%	0,000%	0,000%		
3,0	0,125	91	0	100,000%	0,000%	0,000%		
4,0	0,062	91	0	100,000%	0,000%	0,000%		
			91		100,000%			



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	161,80	347,43	99,88	21,43	169,22	2,10	7,72

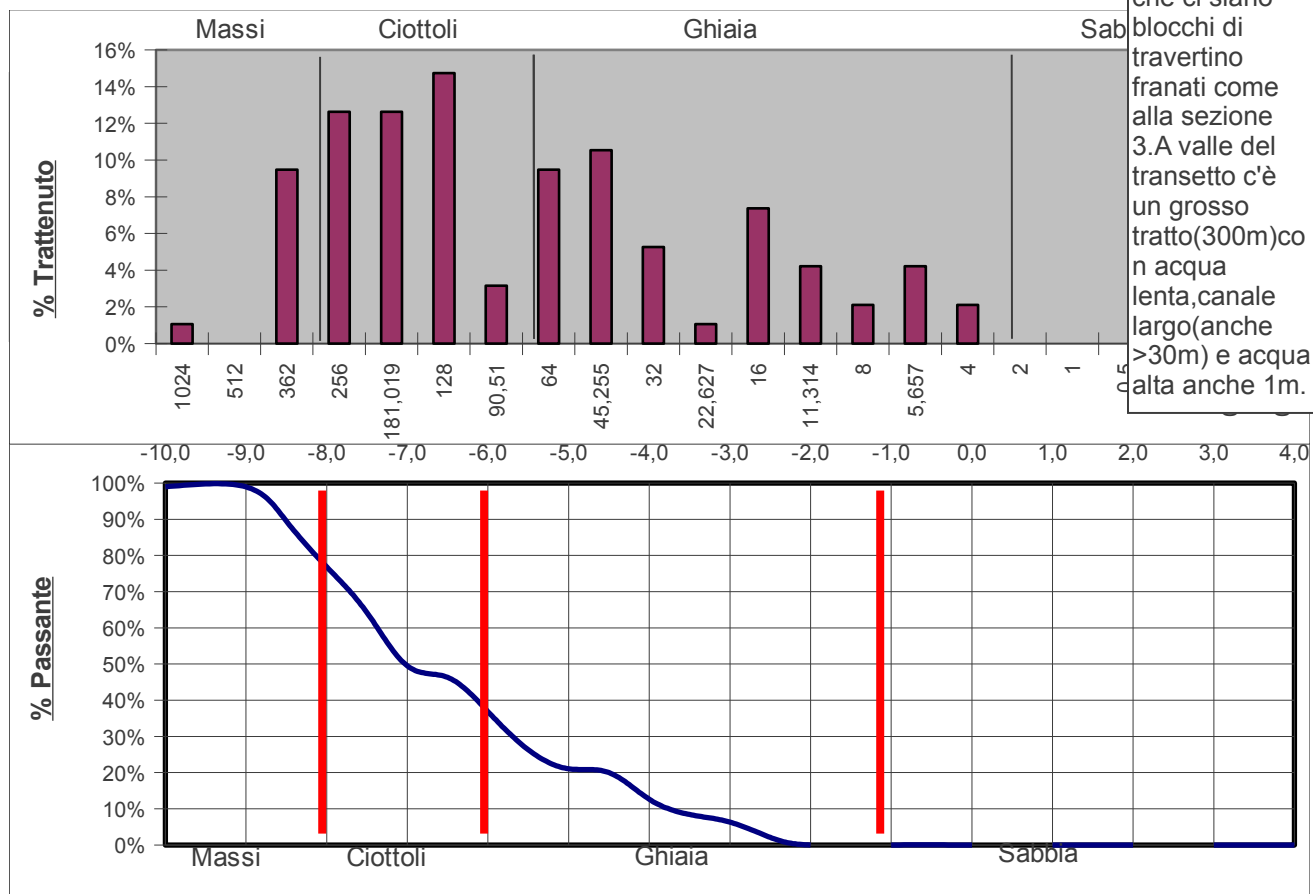
Campione numero = 20bis-tot				Dist. lungo l'asse dell'alveo 56,0		
Numero ciottoli 100				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	3	3	3,000%	3,000%	97,000%
-8,5	362	10	7	10,000%	7,000%	90,000%
-8,0	256,000	24	14	24,000%	14,000%	76,000%
-7,5	181,019	53	29	53,000%	29,000%	47,000%
-7,0	128,000	69	16	69,000%	16,000%	31,000%
-6,5	90,510	82	13	82,000%	13,000%	18,000%
-6,0	64,000	89	7	89,000%	7,000%	11,000%
-5,5	45,255	94	5	94,000%	5,000%	6,000%
-5,0	32,000	98	4	98,000%	4,000%	2,000%
-4,5	22,627	100	2	100,000%	2,000%	0,000%
-4,0	16,000	100	0	100,000%	0,000%	0,000%
-3,5	11,314	100	0	100,000%	0,000%	0,000%
-3,0	8,000	100	0	100,000%	0,000%	0,000%
-2,5	5,657	100	0	100,000%	0,000%	0,000%
-2,0	4,000	100	0	100,000%	0,000%	0,000%
-1,0	2,000	100	0	100,000%	0,000%	0,000%
0,0	1,000	100	0	100,000%	0,000%	0,000%
1,0	0,500	100	0	100,000%	0,000%	0,000%
2,0	0,250	100	0	100,000%	0,000%	0,000%
3,0	0,125	100	0	100,000%	0,000%	0,000%
4,0	0,062	100	0	100,000%	0,000%	0,000%
			100		100,000%	



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	209,41	362,00	188,78	60,25	142,95	1,84	7,77

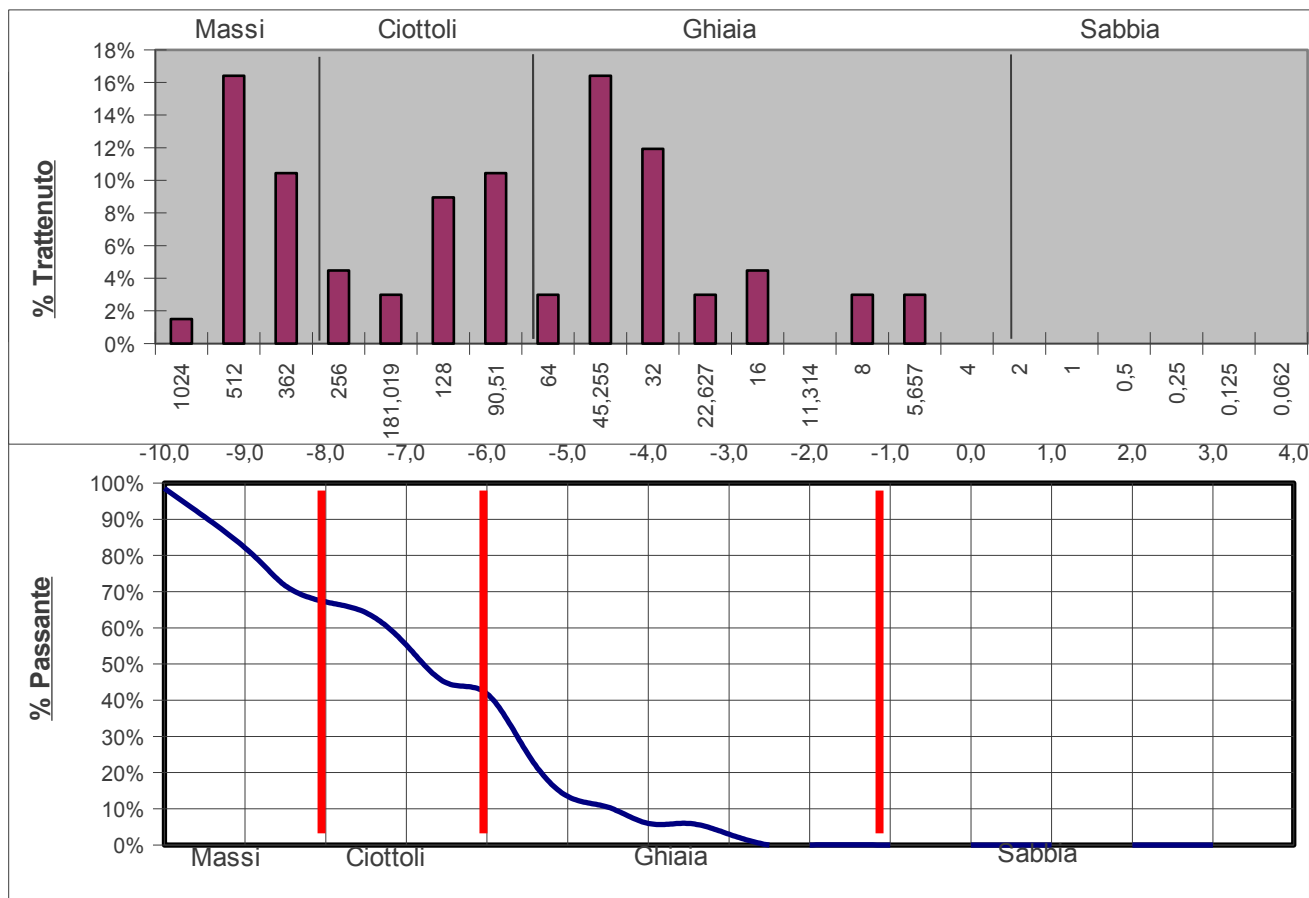
Campione numero = 20-canale				Dist. lungo l'asse dell'alveo 56,9		
Numero ciottoli 95				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passa
-10,0	1024	1	1	1,053%	1,053%	98,947%
-9,0	512	1	0	1,053%	0,000%	98,947%
-8,5	362	10	9	10,526%	9,474%	89,474%
-8,0	256,000	22	12	23,158%	12,632%	76,842%
-7,5	181,019	34	12	35,789%	12,632%	64,211%
-7,0	128,000	48	14	50,526%	14,737%	49,474%
-6,5	90,510	51	3	53,684%	3,158%	46,316%
-6,0	64,000	60	9	63,158%	9,474%	36,842%
-5,5	45,255	70	10	73,684%	10,526%	26,316%
-5,0	32,000	75	5	78,947%	5,263%	21,053%
-4,5	22,627	76	1	80,000%	1,053%	20,000%
-4,0	16,000	83	7	87,368%	7,368%	12,632%
-3,5	11,314	87	4	91,579%	4,211%	8,421%
-3,0	8,000	89	2	93,684%	2,105%	6,316%
-2,5	5,657	93	4	97,895%	4,211%	2,105%
-2,0	4,000	95	2	100,000%	2,105%	0,000%
-1,0	2,000	95	0	100,000%	0,000%	0,000%
0,0	1,000	95	0	100,000%	0,000%	0,000%
1,0	0,500	95	0	100,000%	0,000%	0,000%
2,0	0,250	95	0	100,000%	0,000%	0,000%
3,0	0,125	95	0	100,000%	0,000%	0,000%
4,0	0,062	95	0	100,000%	0,000%	0,000%
			95		100,000%	

NOTE: il campionament o viene effettuato sulla base di due transetti,nella zona del riffle.Non ci sono corpi sedimentari e l'alveo è monocanale regolare a larghezza costante.L'alveo o qui sembra in equilibrio,le sponde non sono in erosione.Il flusso è comunque lento e anche qui la pendenza è bassa.Sembra che ci siano blocchi di travertino franati come alla sezione 3.A valle del transetto c'è un grosso tratto(300m)co n acqua lenta,canale largo(anche >30m) e acqua alta anche 1m.



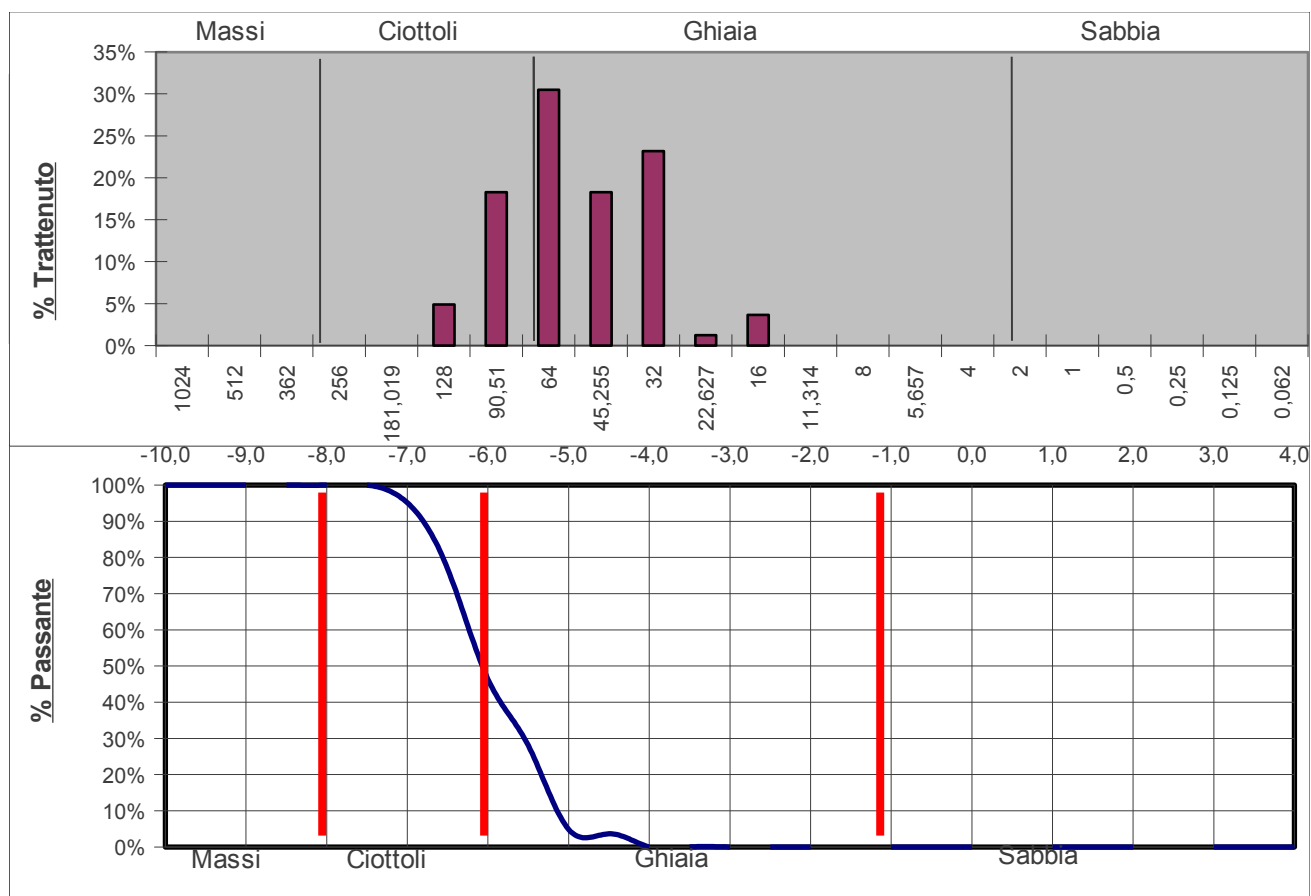
	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	168,40	370,33	129,89	13,07	193,80	3,85	26,60

Campione numero = 1-tot				Dist. lungo l'asse dell'alveo 57,5		
Numero ciottoli 67				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	1	1	1,493%	1,493%	98,507%
-9,0	512	12	11	17,910%	16,418%	82,090%
-8,5	362	19	7	28,358%	10,448%	71,642%
-8,0	256,000	22	3	32,836%	4,478%	67,164%
-7,5	181,019	24	2	35,821%	2,985%	64,179%
-7,0	128,000	30	6	44,776%	8,955%	55,224%
-6,5	90,510	37	7	55,224%	10,448%	44,776%
-6,0	64,000	39	2	58,209%	2,985%	41,791%
-5,5	45,255	50	11	74,627%	16,418%	25,373%
-5,0	32,000	58	8	86,567%	11,940%	13,433%
-4,5	22,627	60	2	89,552%	2,985%	10,448%
-4,0	16,000	63	3	94,030%	4,478%	5,970%
-3,5	11,314	63	0	94,030%	0,000%	5,970%
-3,0	8,000	65	2	97,015%	2,985%	2,985%
-2,5	5,657	67	2	100,000%	2,985%	0,000%
-2,0	4,000	67	0	100,000%	0,000%	0,000%
-1,0	2,000	67	0	100,000%	0,000%	0,000%
0,0	1,000	67	0	100,000%	0,000%	0,000%
1,0	0,500	67	0	100,000%	0,000%	0,000%
2,0	0,250	67	0	100,000%	0,000%	0,000%
3,0	0,125	67	0	100,000%	0,000%	0,000%
4,0	0,062	67	0	100,000%	0,000%	0,000%
			67		100,000%	



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	258,34	758,69	109,26	21,96	308,61	1,64	5,74

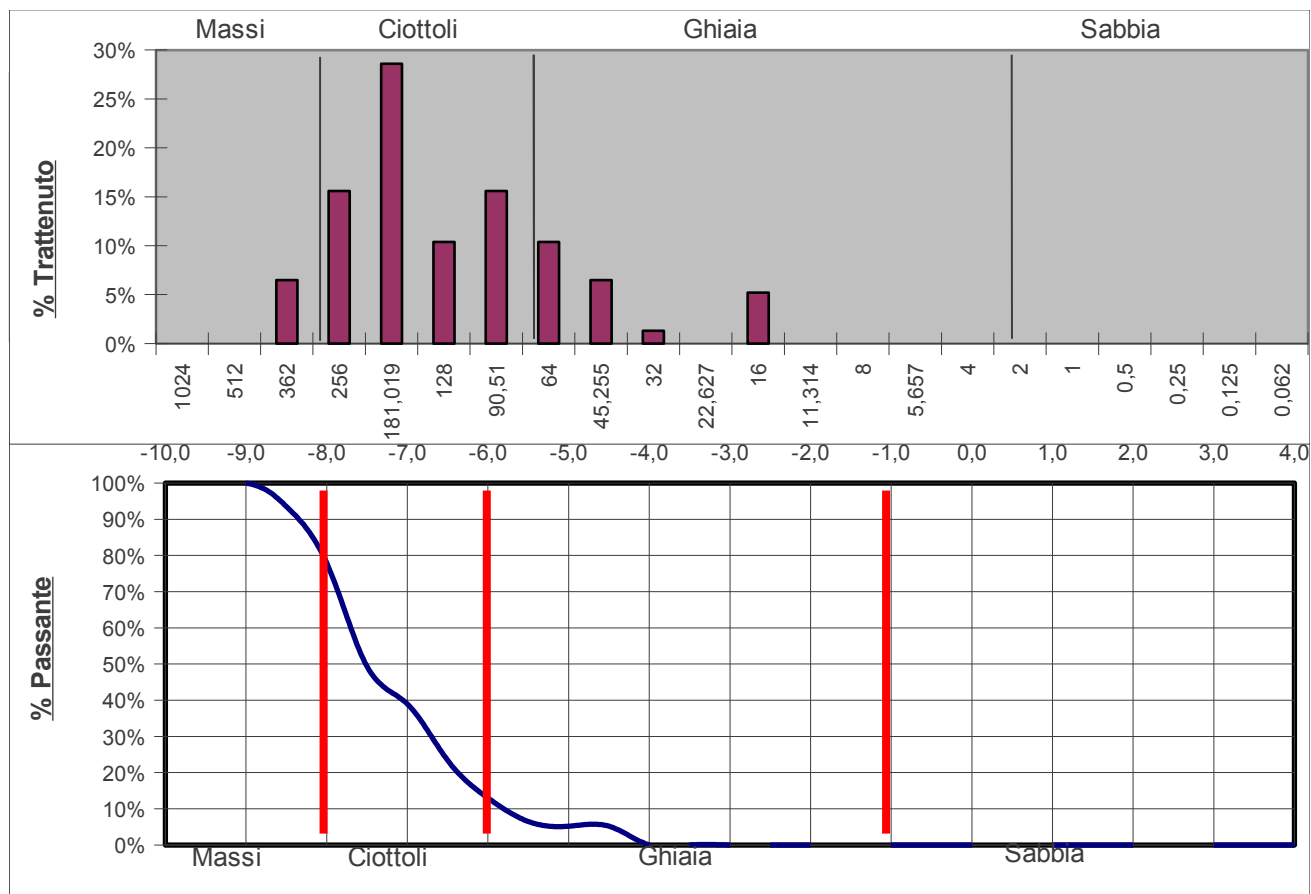
Campione numero = 25-barra				Dist. lungo l'asse dell'alveo 58,0		
Numero ciottoli 82				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	0		0,000%		100,000%
-8,0	256,000	0		0,000%		100,000%
-7,5	181,019	0		0,000%		100,000%
-7,0	128,000	4	4	4,878%	4,878%	95,122%
-6,5	90,510	19	15	23,171%	18,293%	76,829%
-6,0	64,000	44	25	53,659%	30,488%	46,341%
-5,5	45,255	59	15	71,951%	18,293%	28,049%
-5,0	32,000	78	19	95,122%	23,171%	4,878%
-4,5	22,627	79	1	96,341%	1,220%	3,659%
-4,0	16,000	82	3	100,000%	3,659%	0,000%
-3,5	11,314	82	0	100,000%	0,000%	0,000%
-3,0	8,000	82	0	100,000%	0,000%	0,000%
-2,5	5,657	82	0	100,000%	0,000%	0,000%
-2,0	4,000	82	0	100,000%	0,000%	0,000%
-1,0	2,000	82	0	100,000%	0,000%	0,000%
0,0	1,000	82	0	100,000%	0,000%	0,000%
1,0	0,500	82	0	100,000%	0,000%	0,000%
2,0	0,250	82	0	100,000%	0,000%	0,000%
3,0	0,125	82	0	100,000%	0,000%	0,000%
4,0	0,062	82	0	100,000%	0,000%	0,000%
			82		100,000%	



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	71,06	117,50	67,18	34,93	32,14	0,72	3,12

Campione numero = 19-canale				Dist. lungo l'asse dell'alveo 58,3		
Numero ciottoli 77				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	0		0,000%		100,000%
-8,5	362	5	5	6,494%	6,494%	93,506%
-8,0	256,000	17	12	22,078%	15,584%	77,922%
-7,5	181,019	39	22	50,649%	28,571%	49,351%
-7,0	128,000	47	8	61,039%	10,390%	38,961%
-6,5	90,510	59	12	76,623%	15,584%	23,377%
-6,0	64,000	67	8	87,013%	10,390%	12,987%
-5,5	45,255	72	5	93,506%	6,494%	6,494%
-5,0	32,000	73	1	94,805%	1,299%	5,195%
-4,5	22,627	73	0	94,805%	0,000%	5,195%
-4,0	16,000	77	4	100,000%	5,195%	0,000%
-3,5	11,314	77	0	100,000%	0,000%	0,000%
-3,0	8,000	77	0	100,000%	0,000%	0,000%
-2,5	5,657	77	0	100,000%	0,000%	0,000%
-2,0	4,000	77	0	100,000%	0,000%	0,000%
-1,0	2,000	77	0	100,000%	0,000%	0,000%
0,0	1,000	77	0	100,000%	0,000%	0,000%
1,0	0,500	77	0	100,000%	0,000%	0,000%
2,0	0,250	77	0	100,000%	0,000%	0,000%
3,0	0,125	77	0	100,000%	0,000%	0,000%
4,0	0,062	77	0	100,000%	0,000%	0,000%
			77		100,000%	

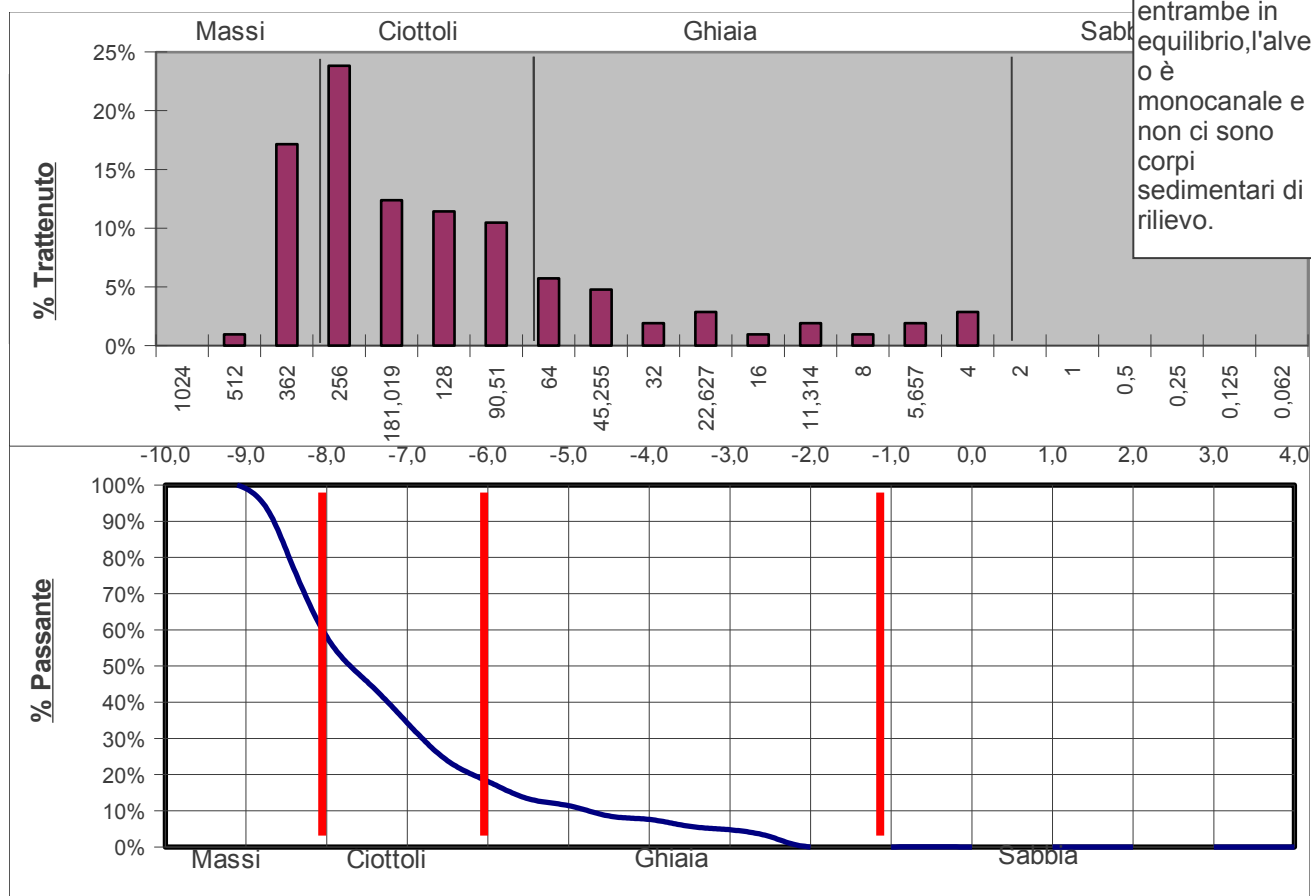
NOTE: il campionamento viene effettuato sulla base di due transetti, nella zona del riffle. Non ci sono corpi sedimentari e l'alveo è monocanale.



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	185,12	338,15	182,72	55,38	108,84	0,56	2,72

Campione numero = 18-canale				Dist. lungo l'asse dell'alveo 58,6		
Numero ciottoli 105				Note:		
phi	mm	cumulativo	trattenuto	perc.cumulativo	perc. trattenuto	perc. passante
-10,0	1024	0		0,000%		100,000%
-9,0	512	1	1	0,952%	0,952%	99,048%
-8,5	362	19	18	18,095%	17,143%	81,905%
-8,0	256,000	44	25	41,905%	23,810%	58,095%
-7,5	181,019	57	13	54,286%	12,381%	45,714%
-7,0	128,000	69	12	65,714%	11,429%	34,286%
-6,5	90,510	80	11	76,190%	10,476%	23,810%
-6,0	64,000	86	6	81,905%	5,714%	18,095%
-5,5	45,255	91	5	86,667%	4,762%	13,333%
-5,0	32,000	93	2	88,571%	1,905%	11,429%
-4,5	22,627	96	3	91,429%	2,857%	8,571%
-4,0	16,000	97	1	92,381%	0,952%	7,619%
-3,5	11,314	99	2	94,286%	1,905%	5,714%
-3,0	8,000	100	1	95,238%	0,952%	4,762%
-2,5	5,657	102	2	97,143%	1,905%	2,857%
-2,0	4,000	105	3	100,000%	2,857%	0,000%
-1,0	2,000	105	0	100,000%	0,000%	0,000%
0,0	1,000	105	0	100,000%	0,000%	0,000%
1,0	0,500	105	0	100,000%	0,000%	0,000%
2,0	0,250	105	0	100,000%	0,000%	0,000%
3,0	0,125	105	0	100,000%	0,000%	0,000%
4,0	0,062	105	0	100,000%	0,000%	0,000%
			105		100,000%	

NOTE: il campionamento viene effettuato sulla base di due transetti nella zona di riffle. Sono presenti in alveo massi molto grandi (sia a valle che a monte dei transetti) sicuramente caduti dal versante sx che presenta una situazione geologica*intricata*. Le sponde sono entrambe in equilibrio, l'alveo è monocanale e non ci sono corpi sedimentari di rilievo.



	Media	D90	D50	D10	Dev. St	Skewness	Kurtosis
mm	221,29	432,83	206,97	27,31	150,17	0,51	3,05



PROVINCIA DI TERNI

Studio sulla dinamica fluviale per la gestione morfo-sedimentaria del sistema alveo-pianura fluviale del Fiume Paglia

(Giunta provinciale – Delibera n. 96 del 08/05/2012)

ALLEGATO 3

Lavori di “ordinaria” manutenzione – F. Paglia 19997-98

Realizzati dal N.O.S di Terni

Tratto in Loc. Vigna Vecchia, dalla confluenza con il T. Rivarcale al ponte della provinciale Orvieto-Allerona

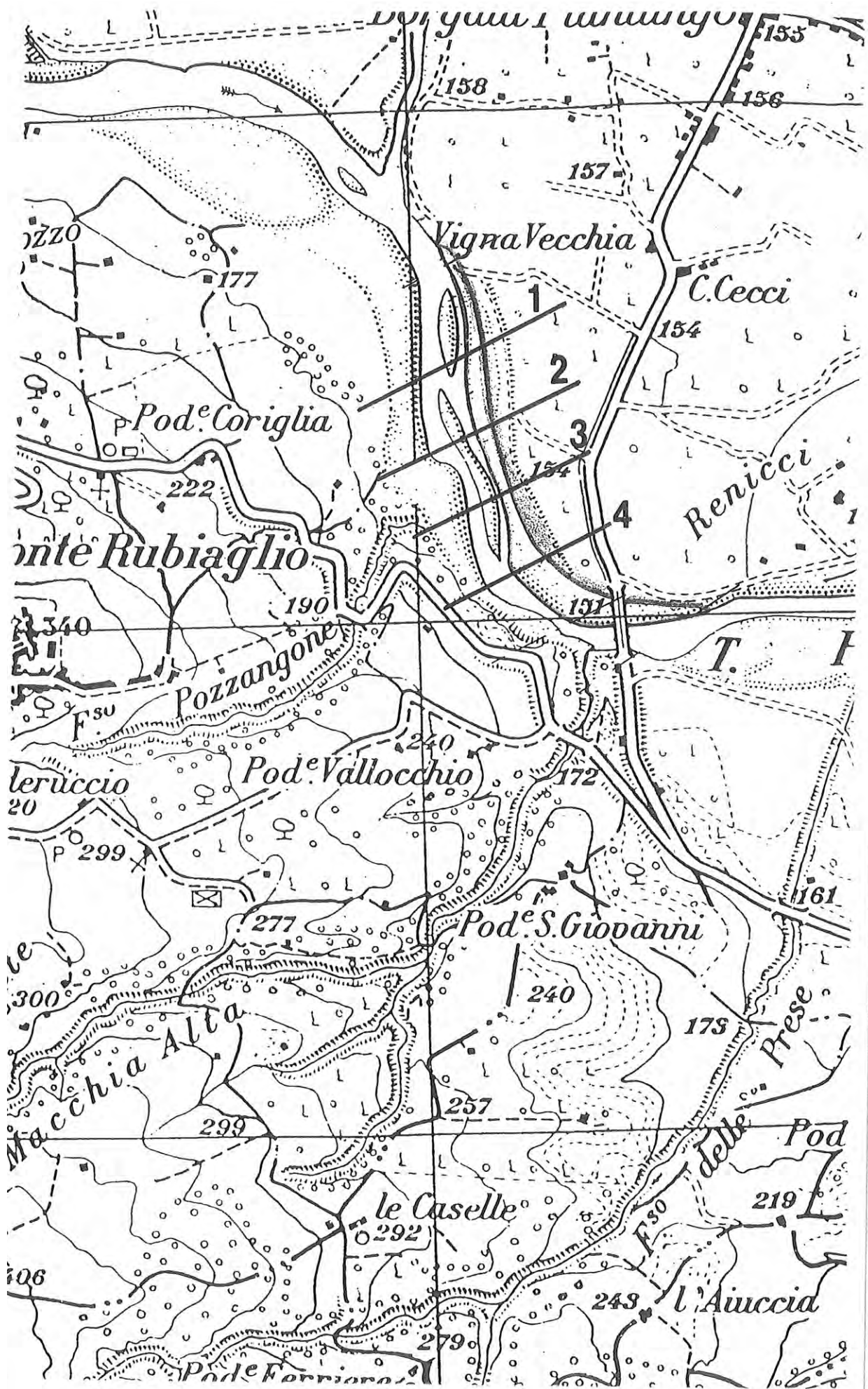
Emissioni:
1 dicembre 2012

Corrado Cencetti Pierluigi De Rosa Andrea Fredduzzi
Paolo Tacconi

UNIVERSITÀ DI PERUGIA







SEZIONE N. 1

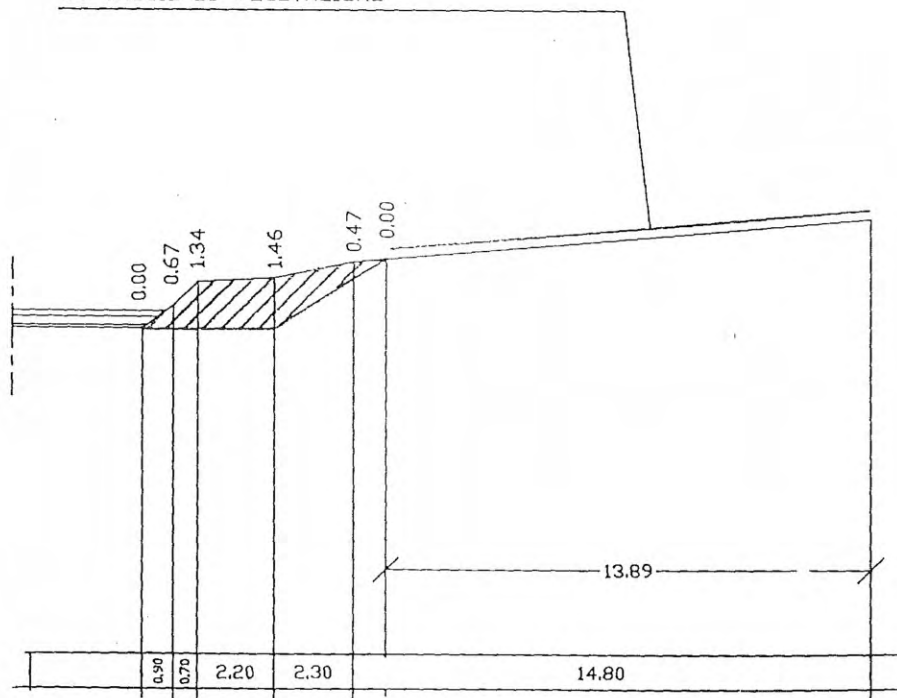
SCALA 1:200

AREA SCAVO DI SBANCAMENTO

0,90	*	(0,00 + 0,67)/2	=	MQ.	0,30
0,70	*	(0,67 + 1,34)/2	=	MQ.	0,70
2,20	*	(1,34 + 1,46)/2	=	MQ.	3,08
2,30	*	(1,46 + 0,47)/2	=	MQ.	2,22
0,91	*	(0,47 + 0,00)/2	=	MQ.	0,21

TOTALE MQ. 6,51

IL TAGLIO DI VEGETAZIONE



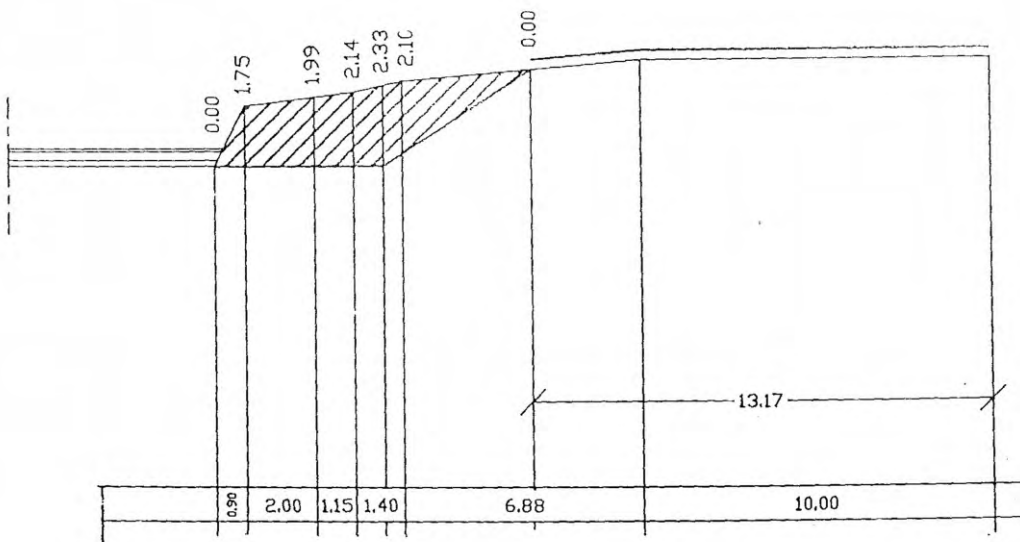
SEZIONE N. 2

SCALA 1:200

AREA SCAVO DI SBANCAMENTO

0.90	*	(0.00 + 1.75)/2	=	MQ.	0.79
2.00	*	(1.75 + 1.99)/2	=	MQ.	3.74
1.15	*	(1.99 + 2.14)/2	=	MQ.	2.37
0.85	*	(2.14 + 2.33)/2	=	MQ.	1.90
0.55	*	(2.33 + 2.10)/2	=	MQ.	1.22
3.71	*	(2.10 + 0.00)/2	=	MQ.	3.90

TOTALE MQ. 13.92



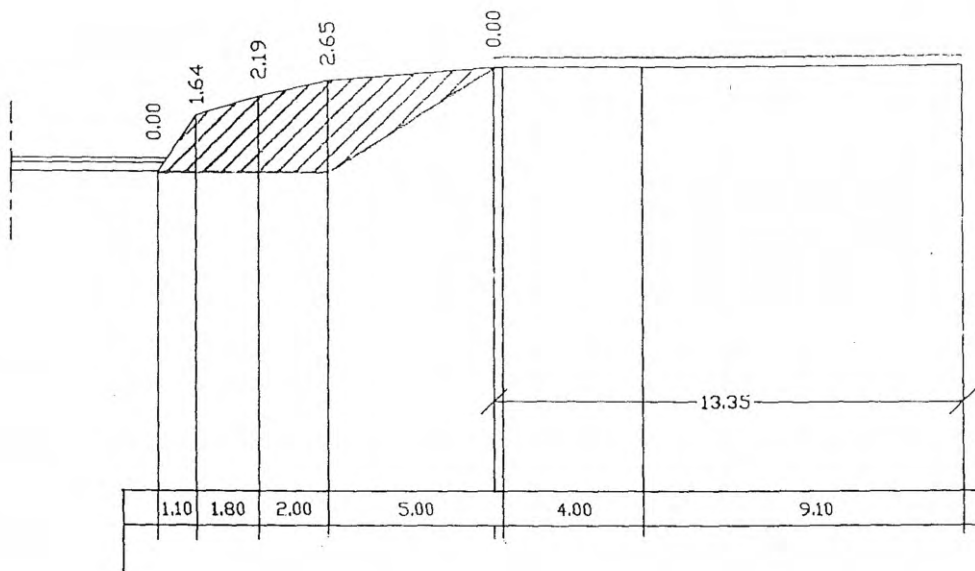
SEZIONE N. 3

SCALA 1:200

AREA SCAVO DI SBANCAMENTO

$1.10 * (0.00 + 1.64)/2 = \text{MQ. } 0.90$
 $1.80 * (1.64 + 2.19)/2 = \text{MQ. } 3.45$
 $2.00 * (2.19 + 2.65)/2 = \text{MQ. } 4.84$
 $4.75 * (2.65 + 0.00)/2 = \text{MQ. } 6.29$

TOTALE MQ. 15.48



SEZIONE N. 4

SCALA 1:200

AREA SCAVO DI SBANCAMENTO

0.92	*	(0.00 + 1.04)/2	=	MQ.	0.48
0.50	*	(1.04 + 1.42)/2	=	MQ.	0.61
6.80	*	(1.42 + 2.72)/2	=	MQ.	14.08
3.07	*	(2.72 + 1.05)/2	=	MQ.	5.79
1.63	*	(1.05 + 0.00)/2	=	MQ.	0.85

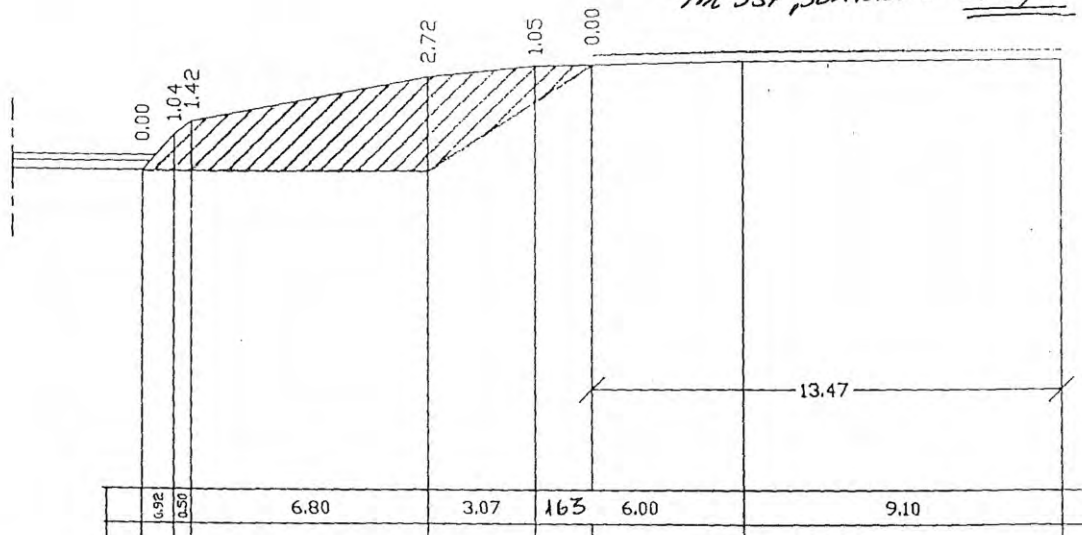
TOTALE MQ. 21.81

VOLUME SCAVO

$$\begin{aligned}
 \text{Miz-Set 1} &= 1/2(0.00+6.51) \times 9.00 = \text{mq } 292.95 \\
 \text{Set 1- " 2} &= 1/2(6.51+13.92) \times 15.8 = \text{" } 1613.97 \\
 \text{Set 2- 3} &= 1/2(13.92+15.48) \times 25.0 = \text{" } 3675. = \\
 \text{Set 3- 4} &= 1/2(15.48+21.81) \times 21.5 = 4008.67 \\
 \text{Set 4- Lim} &= 1/2(21.81+0.00) \times 5.5 = 599.71 \\
 \text{Totale ml} &= \underline{\underline{10190.}}
 \end{aligned}$$

Taglio Vegetazione

$$\text{ml } 337.50 \times 10.50 = \underline{\underline{3373.50}}$$





PROVINCIA DI TERNI

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ALLEGATO 4

Caratteri sinuometrici

Tratto elementare	Semicurva n.	AdA flesso monte (m)	AdA flesso valle (m)	Angolo di flesso monte ϕ_{FM} (°)	Angolo di flesso valle ϕ_{FV} (°)	Semi - lunghezza d'onda LV (m)	Semi - ampiezza d'onda LA (m)	LV/LA	Raggio di curvatura equivalente (m)
1	1	30106	31012	34	82	553	243	2,27	277
	2	31012	31530	52	35	457	110	4,14	286
	3	31530	32125	35	66	431	185	2,33	218
	4	32125	32632	44	37	469	64	7,27	387
	5	32632	33211	28	49	526	92	5,72	413
	6	33211	34223	38	35	965	128	7,53	969
	7	34223	34785	13	10	555	40	13,99	991
	8	34785	36530	36	142	1513	183	8,25	1165
	9	36530	38110	110	45	1261	392	3,22	684
	10	38110	38611	33	55	413	118	3,51	220
	media			42	56	714	156	5,82	561
2	11	38611	40740	95	77	1599	509	3,14	869
	12	40740	42220	74	53	1174	375	3,13	630
	media			85	65	1387	442	3,13	749
3	13A	42219,678023	44015	50	57	1361	547	2,49	696
	13B	44015	45004						
	13C	45004	45583	33	38	502	130	3,86	307
	14	45583	46389	78	44	615	132	4,68	410
	15	46389	46939	40	24	511	85	6,00	405
	16	46939	47354	22	17	405	30	13,63	598
	17	47354	47865	23	40	486	65	7,42	441
	18	47865	48843	43	48	884	148	5,98	727
	media			41	38	681	162	6,29	512
4	19	48843	50392	59	45	1403	228	6,16	941
	20	50392	50865	49	97	415	93	4,48	278
	21	50865	51251	97	29	317	88	3,60	181
	22	51251	51776	29	31	486	88	5,51	379
	23	51776	52167	45	29	354	71	5,01	255
	24	52167	52516	44	46	322	51	6,35	266
	media			54	46	550	103	5,18	384
5	25	52516	53020	33	14	495	34	14,69	925
	26	53020	53688	26	27	650	60	10,92	874
	27	53688	54745	47	49	954	164	5,83	759
	28	54745	55526	42	18	741	99	7,50	713
	media			37	27	710	89	9,73	818
6	29	55526	56168	27	57	577	117	4,93	372
	30	56168	57601	68	45	1241	312	3,97	717
	31	57601	59052	30	41	1360	165	8,23	1073
	32	59052	59798	36	54	735	174	4,23	474
	media			40	49	978	192	5,34	659
Generale	media			50	47	837	191	5,92	614

Emissioni:
1 dicembre 2012

Corrado Cencetti Pierluigi De Rosa Andrea Fredduzzi
Paolo Tacconi

UNIVERSITÀ DI PERUGIA



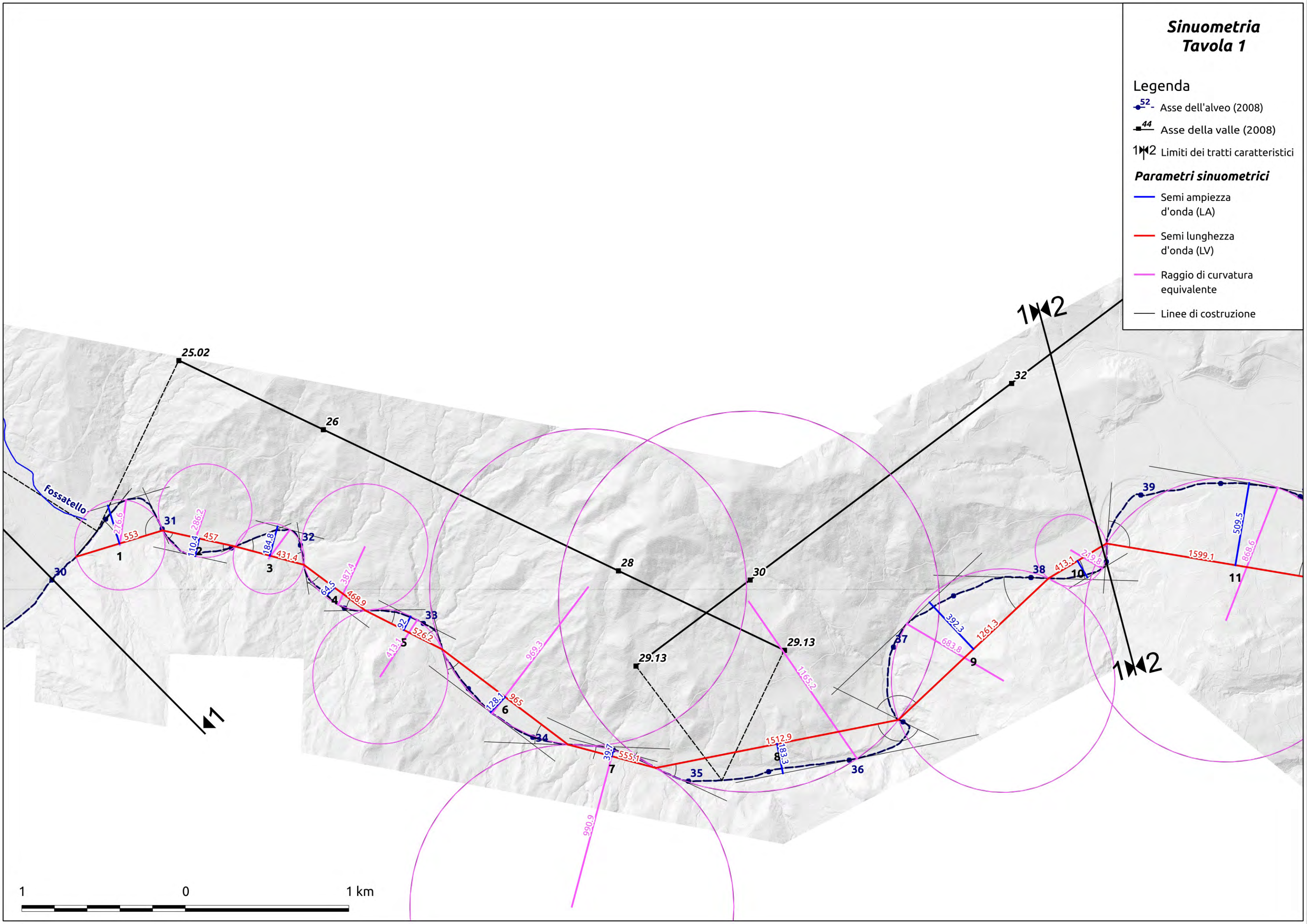
**Sinuometria
Tavola 1**

Legenda

- 52 - Asse dell'alveo (2008)
- 44 - Asse della valle (2008)
- 1 2 - Limiti dei tratti caratteristici

Parametri sinuometrici

- Semi ampiezza d'onda (LA)
- Semi lunghezza d'onda (LV)
- Raggio di curvatura equivalente
- Linee di costruzione



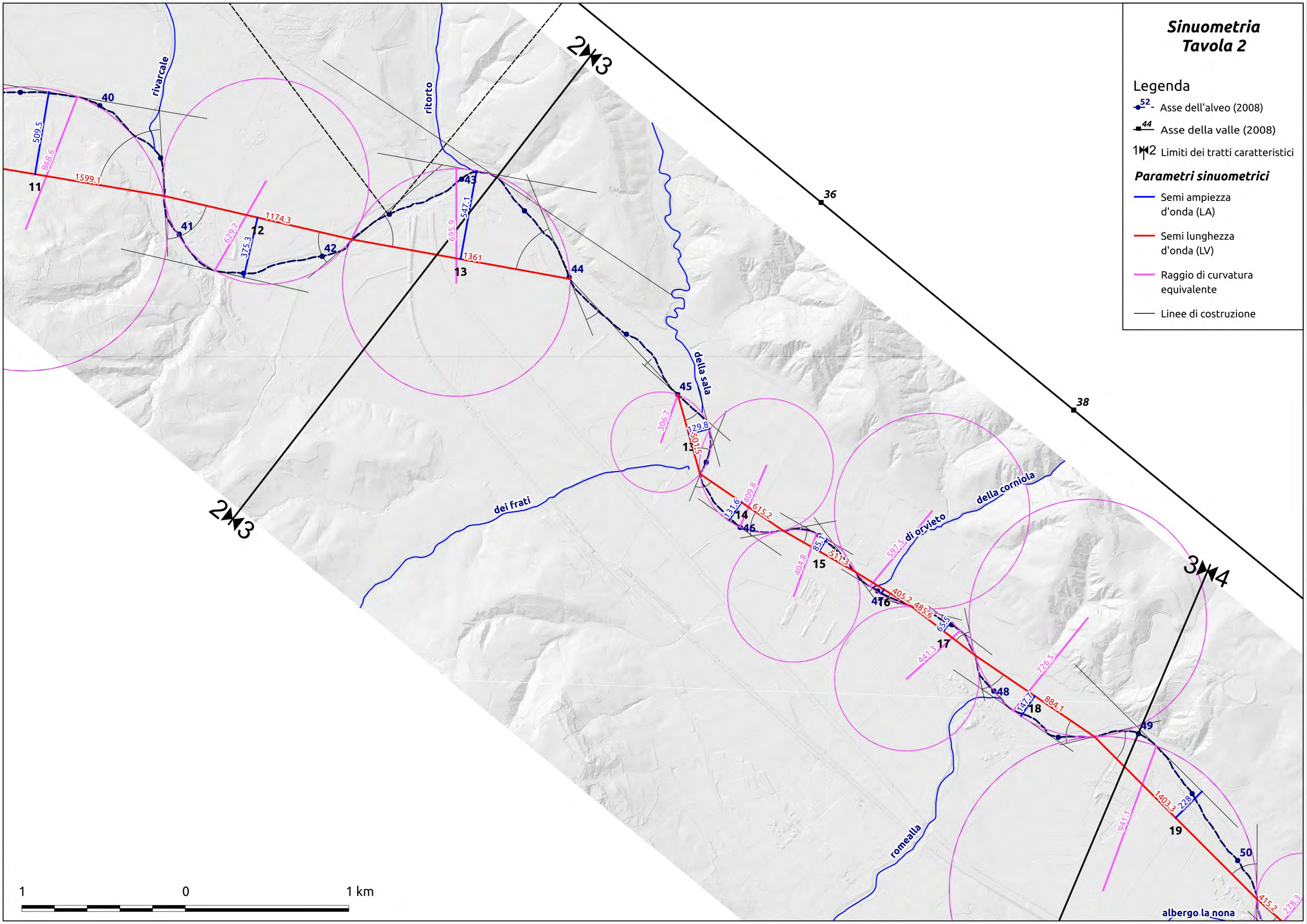
**Sinuometria
Tavola 2**

Legenda

- 52 - Asse dell'alveo (2008)
- 44 - Asse della valle (2008)
- 1 2 - Limiti dei tratti caratteristici

Parametri sinuometrici

- Semi ampiezza d'onda (LA)
- Semi lunghezza d'onda (LV)
- Raggio di curvatura equivalente
- Linee di costruzione



**Sinuometria
Tavola 3**

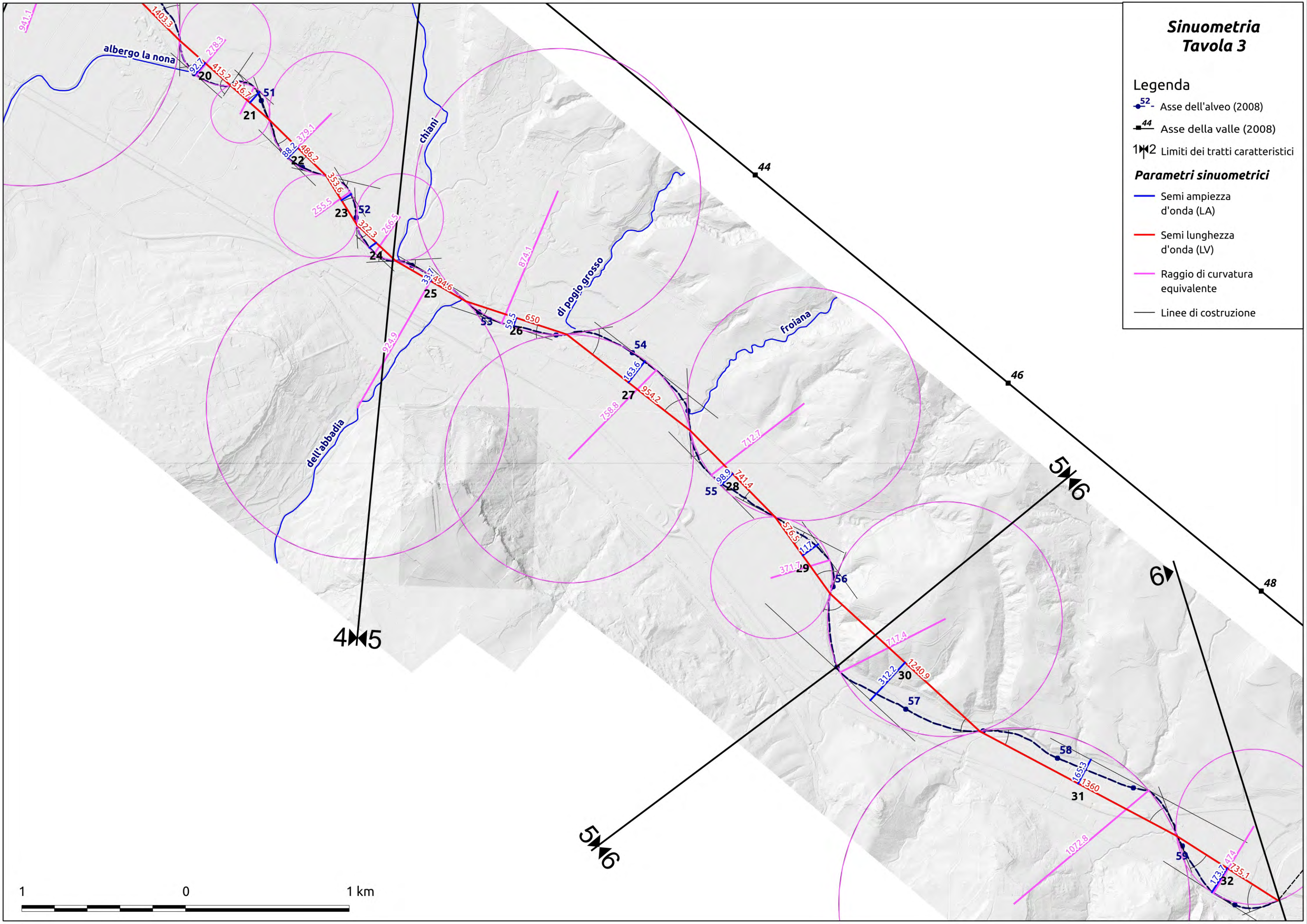
Legenda

- 52 Asse dell'alveo (2008)
44 Asse della valle (2008)

1 2 Limiti dei tratti caratteristici

Parametri sinuometrici

- Semi ampiezza
d'onda (LA)
— Semi lunghezza
d'onda (LV)
— Raggio di curvatura
equivalente
— Linee di costruzione





PROVINCIA DI TERNI

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(Giunta provinciale – Delibera n. 96 del 08/05/2012)

ALLEGATO 5

Carta dei caratteri morfologico – sedimentari. Scala 1:10000:

Quadro di unione e Fogli n. 4, 5, 6.

Emissioni:
1 dicembre 2012

Corrado Cencetti Pierluigi De Rosa Andrea Fredduzzi
Paolo Tacconi

UNIVERSITÀ DI PERUGIA



Quadro di unione

Legenda

- 52 - Asse dell'alveo (2008)
- 44 - Asse della valle (2008)

- Affluenti
- Bacino idrografico

Quadro di unione dei fogli

- Fogli realizzati (area di studio)
- Fogli in progetto

