

COMMITTENTE:



DIREZIONE LAVORI:



APPALTATORE:

MANDATARIA:

MANDANTE:



PROGETTAZIONE:

MANDATARIA:

MANDANTI:



PROGETTO ESECUTIVO DI VARIANTE

**LINEA FERROVIARIA NAPOLI - BARI, TRATTA NAPOLI-CANCELLO,
IN VARIANTE TRA LE PK 0+000 E PK 15+585, INCLUSE LE OPERE ACCESSORIE,
NELL'AMBITO DEGLI INTERVENTI DI CUI AL D.L. 133/2014, CONVERTITO IN LEGGE 164 / 2014**
RELAZIONE

RILEVATI

RI04BIS - RACCORDO INDUSTRIALE ACERRA

MOVIMENTI TERRA

APPALTATORE	PROGETTAZIONE
DIRETTORE TECNICO Ing. M. PANISI	DIRETTORE DELLA PROGETTAZIONE Ing. A. CHECCHI

COMMESSA LOTTO FASE ENTE TIPO DOC. OPERA/DISCIPLINA PROGR. REV SCALA:

I	F	1	M	0	0	V	Z	Z	T	T	R	I	0	4	B	0	0	0	1	A	-
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Rev.	Descrizione	Redatto	Data	Verificato	Data	Approvato	Data	Autorizzato Data
A	EMISSIONE	SORGE	31/10/19	CERAUDO	04/11/19	LACOPO	04/11/19	CHECCHI
								05/11/19

File: IF1M.0.0.V.ZZ.TT.RI.04.B.0.001-A.doc

n. Elab.:

QUANTITA' STRADELLI DI SERVIZIO km 0+790 a km 2+610

Q.ta scavo [mc]				1696,25
Q.ta riporto misto stabilizzato				1696,25
Stradello da pk 0+790 0 1+450				
Totali [mc]				643,50
Prog	L [m]	B [m]	H [m]	Volume [mc]
790,00	10,00	7,20	0,25	18,00
800,00	10,00	5,50	0,25	13,75
810,00	10,00	3,30	0,25	8,25
820,00	10,00	3,30	0,25	8,25
830,00	10,00	3,20	0,25	8,00
840,00	10,00	3,20	0,25	8,00
850,00	10,00	3,20	0,25	8,00
860,00	10,00	3,10	0,25	7,75
870,00	10,00	3,10	0,25	7,75
880,00	10,00	3,10	0,25	7,75
890,00	10,00	3,10	0,25	7,75
900,00	10,00	3,70	0,25	9,25
910,00	10,00	7,00	0,25	17,50
920,00	10,00	7,00	0,25	17,50
930,00	10,00	3,70	0,25	9,25
940,00	10,00	3,10	0,25	7,75
950,00	10,00	3,10	0,25	7,75
960,00	10,00	3,10	0,25	7,75
970,00	10,00	3,10	0,25	7,75
980,00	10,00	3,10	0,25	7,75
990,00	10,00	3,10	0,25	7,75
1000,00	10,00	3,10	0,25	7,75
1010,00	10,00	3,10	0,25	7,75
1020,00	10,00	3,10	0,25	7,75
1030,00	10,00	3,10	0,25	7,75
1040,00	10,00	3,10	0,25	7,75
1050,00	10,00	3,10	0,25	7,75
1060,00	10,00	3,10	0,25	7,75
1070,00	10,00	3,10	0,25	7,75
1080,00	10,00	3,10	0,25	7,75
1090,00	10,00	3,10	0,25	7,75
1100,00	10,00	3,10	0,25	7,75
1110,00	10,00	3,10	0,25	7,75
1120,00	10,00	3,10	0,25	7,75
1130,00	10,00	3,10	0,25	7,75
1140,00	10,00	3,10	0,25	7,75
1150,00	10,00	3,10	0,25	7,75
1160,00	10,00	3,10	0,25	7,75
1170,00	10,00	3,10	0,25	7,75
1180,00	10,00	3,10	0,25	7,75
1190,00	10,00	3,10	0,25	7,75
1200,00	10,00	3,10	0,25	7,75
1210,00	10,00	3,10	0,25	7,75
1220,00	10,00	3,10	0,25	7,75
1230,00	10,00	3,10	0,25	7,75
1240,00	10,00	3,10	0,25	7,75
1250,00	10,00	3,10	0,25	7,75
1260,00	10,00	3,10	0,25	7,75
1270,00	10,00	3,10	0,25	7,75
1280,00	10,00	3,10	0,25	7,75
1290,00	10,00	3,10	0,25	7,75
1300,00	10,00	3,10	0,25	7,75
1310,00	10,00	3,10	0,25	7,75
1320,00	10,00	3,10	0,25	7,75
1330,00	10,00	3,10	0,25	7,75
1340,00	10,00	3,10	0,25	7,75
1350,00	10,00	3,10	0,25	7,75
1360,00	10,00	3,10	0,25	7,75
1370,00	10,00	3,10	0,25	7,75
1380,00	10,00	3,10	0,25	7,75
1390,00	10,00	3,30	0,25	8,25
1400,00	10,00	3,40	0,25	8,50
1410,00	10,00	3,50	0,25	8,75
1420,00	10,00	15,00	0,25	37,50
1430,00	10,00	15,00	0,25	37,50
1440,00	10,00	15,00	0,25	37,50
1450,00	0,00	3,10	0,25	0,00

Stradello da pk 1+470 a 2+075				
Totali [mc]				553,00
Prog	L [m]	B [m]	H [m]	Volume [mc]
1470,00	10,00	7,50	0,25	18,75
1480,00	10,00	7,50	0,25	18,75
1490,00	10,00	3,30	0,25	8,25
1500,00	10,00	3,30	0,25	8,25
1510,00	10,00	3,20	0,25	8,00
1520,00	10,00	3,20	0,25	8,00
1530,00	10,00	3,20	0,25	8,00
1540,00	10,00	3,10	0,25	7,75
1550,00	10,00	3,10	0,25	7,75
1560,00	10,00	3,10	0,25	7,75
1570,00	10,00	3,10	0,25	7,75
1580,00	10,00	3,10	0,25	7,75
1590,00	10,00	3,10	0,25	7,75
1600,00	10,00	3,10	0,25	7,75
1610,00	10,00	3,10	0,25	7,75
1620,00	10,00	3,10	0,25	7,75
1630,00	10,00	3,10	0,25	7,75
1640,00	10,00	3,10	0,25	7,75
1650,00	10,00	3,10	0,25	7,75
1660,00	10,00	3,10	0,25	7,75
1670,00	10,00	3,10	0,25	7,75
1680,00	10,00	3,10	0,25	7,75
1690,00	10,00	3,10	0,25	7,75
1700,00	10,00	3,10	0,25	7,75
1710,00	10,00	3,10	0,25	7,75
1720,00	10,00	3,10	0,25	7,75
1730,00	10,00	3,10	0,25	7,75
1740,00	10,00	3,10	0,25	7,75
1750,00	10,00	3,10	0,25	7,75
1760,00	10,00	3,10	0,25	7,75
1770,00	10,00	3,10	0,25	7,75
1780,00	10,00	3,10	0,25	7,75
1790,00	10,00	3,10	0,25	7,75
1800,00	10,00	3,10	0,25	7,75
1810,00	10,00	3,10	0,25	7,75
1820,00	10,00	3,10	0,25	7,75
1830,00	10,00	3,10	0,25	7,75
1840,00	10,00	3,10	0,25	7,75
1850,00	10,00	3,10	0,25	7,75
1860,00	10,00	3,10	0,25	7,75
1870,00	10,00	3,10	0,25	7,75
1880,00	10,00	3,10	0,25	7,75
1890,00	10,00	3,10	0,25	7,75
1900,00	10,00	3,10	0,25	7,75
1910,00	10,00	3,10	0,25	7,75
1920,00	10,00	3,50	0,25	8,75
1930,00	10,00	3,50	0,25	8,75
1940,00	10,00	3,10	0,25	7,75
1950,00	10,00	3,10	0,25	7,75
1960,00	10,00	3,10	0,25	7,75
1970,00	10,00	3,10	0,25	7,75
1980,00	10,00	3,10	0,25	7,75
1990,00	10,00	3,10	0,25	7,75
2000,00	10,00	3,10	0,25	7,75
2010,00	10,00	3,10	0,25	7,75
2020,00	10,00	3,10	0,25	7,75
2030,00	10,00	5,00	0,25	12,50
2040,00	10,00	5,00	0,25	12,50
2050,00	10,00	8,30	0,25	20,75
2060,00	10,00	13,00	0,25	32,50
2070,00	5,00	12,00	0,25	15,00
2075,00	0,00	3,00	0,25	0,00

Stradello da pk 2+100 a 2+610				
Totali [mc]				499,75
Prog	L [m]	B [m]	H [m]	Volume [mc]
2100,00	10,00	3,50	0,25	8,75
2110,00	10,00	12,00	0,25	30,00
2120,00	10,00	12,00	0,25	30,00
2130,00	10,00	5,00	0,25	12,50
2140,00	10,00	3,30	0,25	8,25
2150,00	10,00	3,30	0,25	8,25
2160,00	10,00	3,30	0,25	8,25
2170,00	10,00	3,30	0,25	8,25
2180,00	10,00	3,30	0,25	8,25
2190,00	10,00	3,30	0,25	8,25
2200,00	10,00	3,30	0,25	8,25
2210,00	10,00	3,30	0,25	8,25
2220,00	10,00	3,30	0,25	8,25
2230,00	10,00	3,30	0,25	8,25
2240,00	10,00	3,30	0,25	8,25
2250,00	10,00	3,30	0,25	8,25
2260,00	10,00	3,30	0,25	8,25
2270,00	10,00	3,30	0,25	8,25
2280,00	10,00	3,30	0,25	8,25
2290,00	10,00	3,30	0,25	8,25
2300,00	10,00	3,30	0,25	8,25
2310,00	10,00	3,30	0,25	8,25
2320,00	10,00	5,50	0,25	13,75
2330,00	10,00	5,50	0,25	13,75
2340,00	10,00	3,20	0,25	8,00
2350,00	10,00	3,20	0,25	8,00
2360,00	10,00	3,20	0,25	8,00
2370,00	10,00	3,20	0,25	8,00
2380,00	10,00	3,20	0,25	8,00
2390,00	10,00	3,20	0,25	8,00
2400,00	10,00	3,20	0,25	8,00
2410,00	10,00	3,20	0,25	8,00
2420,00	10,00	3,20	0,25	8,00
2430,00	10,00	3,20	0,25	8,00
2440,00	10,00	3,20	0,25	8,00
2450,00	10,00	3,20	0,25	8,00
2460,00	10,00	3,20	0,25	8,00
2470,00	10,00	3,20	0,25	8,00
2480,00	10,00	3,20	0,25	8,00
2490,00	10,00	3,20	0,25	8,00
2500,00	10,00	3,20	0,25	8,00
2510,00	10,00	3,20	0,25	8,00
2520,00	10,00	3,20	0,25	8,00
2530,00	10,00	3,20	0,25	8,00
2540,00	10,00	3,00	0,25	7,50
2550,00	10,00	3,00	0,25	7,50
2560,00	10,00	3,00	0,25	7,50
2570,00	10,00	3,00	0,25	7,50
2580,00	10,00	4,00	0,25	10,00
2590,00	10,00	8,50	0,25	21,25
2600,00	10,00	8,50	0,25	21,25
2610,00	0,00	7,00	0,25	0,00

Prog	Ballast			Inerbimento			SuperCompattato			Anticapillare			Geotessile	
	Area	Volume	Volume Cumulativo	Area	Volume	Volume Cumulativo	Area	Volume	Volume Cumulativo	Area	Volume	Volume Cumulativo	Lunghezza	area
35,00	1,397	0	0	0	0	0	1,781	0	0	0	0	0	0	0
40,00	1,397	6,984	6,984	0	0	0	1,781	8,904	8,904	0	0	0	0	0
60,00	1,397	27,936	34,921	0	0	0	1,781	35,615	44,519	0	0	0	0	0
80,00	1,397	27,936	62,857	0	0	0	1,781	35,615	80,134	0	0	0	0	0
100,00	1,397	27,936	90,793	0	0	0	1,781	35,615	115,749	0	0	0	0	0
120,00	1,397	27,936	118,73	0	0	0	1,781	35,615	151,365	0	0	0	0	0
140,00	1,397	27,936	146,666	0	0	0	1,781	35,615	186,98	0	0	0	0	0
160,00	1,397	27,936	174,603	0	0	0	1,781	35,615	222,595	0	0	0	0	0
180,00	1,397	27,936	202,539	0,044	0,444	0,444	1,876	36,564	259,159	0	0	0	0	0
200,00	1,397	27,936	230,476	0,194	2,381	2,825	1,97	38,46	297,618	0	0	0	0	0
220,00	1,397	27,936	258,412	0	1,937	4,761	1,781	37,511	335,129	0	0	0	0	0
240,00	1,397	27,936	286,349	0	0	4,761	1,781	35,615	370,744	0	0	0	0	0
244,00	1,397	5,587	291,936	0	0	4,761	1,781	7,123	377,867	0	0	0	0	0
285,00	1,397	57,27	349,206	0	0	4,761	1,781	73,011	450,879	0	0	0	0	0
300,00	1,397	20,952	370,158	0	0	4,761	1,781	26,711	477,59	0	0	0	0	0
320,00	1,397	27,936	398,094	0	0	4,761	1,781	35,615	513,205	0	0	0	0	0
340,00	1,397	27,936	426,031	0	0	4,761	1,781	35,615	548,82	0	0	0	0	0
360,00	1,397	27,936	453,967	0	0	4,761	1,781	35,615	584,436	0	0	0	0	0
380,00	1,397	27,936	481,904	0	0	4,761	1,781	35,615	620,051	0	0	0	0	0
400,00	1,397	27,936	509,84	0	0	4,761	1,781	35,615	655,666	0	0	0	0	0
420,00	1,397	27,936	537,777	0	0	4,761	1,781	35,615	691,281	0	0	0	0	0
440,00	1,397	27,936	565,713	0	0	4,761	1,781	35,615	726,896	0	0	0	0	0
460,00	1,397	27,936	593,65	0,127	1,267	6,029	1,97	37,511	764,407	0	0	0	0	0
480,00	1,397	27,936	621,586	0,306	4,324	10,353	1,97	39,406	803,814	0	0	0	0	0
500,00	1,397	27,936	649,523	0,496	8,016	18,369	1,97	39,406	843,22	0	0	0	0	0
520,00	1,397	27,936	677,459	0,759	12,547	30,916	1,97	39,406	882,626	3,899	38,992	38,992	14,798	147,98
540,00	1,397	27,936	705,395	0,988	17,471	48,387	1,97	39,406	922,032	4,215	81,14	120,132	15,43	302,28
560,00	1,397	27,936	733,332	1,279	22,67	71,057	1,97	39,406	961,439	5,518	97,324	217,456	18,036	334,66
580,00	1,397	27,936	761,268	1,446	27,249	98,306	1,97	39,406	1000,845	4,844	103,618	321,074	16,688	347,24
600,00	1,397	27,936	789,205	1,537	29,829	128,135	1,97	39,406	1040,251	4,971	98,156	419,23	16,942	336,3
620,00	1,397	27,936	817,141	1,652	31,881	160,016	1,97	39,406	1079,658	5,129	101,008	520,239	17,258	342
640,00	1,397	27,936	845,078	1,788	34,392	194,408	1,97	39,406	1119,064	5,316	104,45	624,689	17,632	348,9
660,00	1,397	27,936	873,014	1,88	36,678	231,086	1,97	39,406	1158,47	5,442	107,58	732,269	17,884	355,16
680,00	1,397	27,936	900,951	1,989	38,693	269,778	1,97	39,406	1197,877	5,59	110,323	842,592	18,18	360,64
700,00	1,397	27,936	928,887	2,109	40,983	310,761	1,97	39,406	1237,283	5,755	113,451	956,043	18,51	366,9
720,00	1,397	27,936	956,824	2,302	44,108	354,869	1,97	39,406	1276,689	6,021	117,762	1073,805	19,042	375,52
740,00	1,397	27,936	984,76	2,552	48,537	403,406	1,97	39,406	1316,096	6,37	123,906	1197,711	19,74	387,82
760,00	1,397	27,936	1012,696	2,678	52,306	455,713	1,97	39,406	1355,502	6,556	129,252	1326,963	20,112	398,52
776,50	1,397	23,048	1035,744	2,818	45,346	501,059	1,97	32,51	1388,012	6,742	109,701	1436,664	20,484	334,917
815,00	1,397	53,778	1089,522	3,189	115,646	616,705	1,97	75,857	1463,869	7,242	269,179	1705,843	21,484	807,884
820,00	1,397	6,984	1096,506	3,223	16,032	632,738	1,97	9,852	1473,721	7,288	36,324	1742,167	21,576	107,65
840,00	1,397	27,936	1124,442	3,337	65,601	698,338	1,97	39,406	1513,127	7,443	147,306	1889,473	21,886	434,62
860,00	1,397	27,936	1152,379	3,414	67,507	765,845	1,97	39,406	1552,534	7,55	149,926	2039,399	22,1	439,86
880,00	1,397	27,936	1180,315	3,501	69,154	835	1,97	39,406	1591,94	7,674	152,234	2191,633	22,348	444,48
900,00	1,397	27,936	1208,252	3,819	73,204	908,204	1,97	39,406	1631,346	8,102	157,756	2349,389	23,204	455,52
920,00	1,397	27,936	1236,188	3,957	77,759	985,962	1,97	39,406	1670,753	8,293	163,95	2513,339	23,586	467,9
940,00	1,397	27,936	1264,125	4,119	80,757	1066,719	1,97	39,406	1710,159	8,517	168,101	2681,44	24,034	476,2
960,00	1,397	27,936	1292,061	2,172	62,904	1129,623	1,876	38,46	1748,618	6,285	148,024	2829,464	19,57	436,04

Prog	Ballast			Inerbimento			SuperCompattato			Anticapillare			Geotessile	
980,00	1,397	27,936	1319,997	2,246	44,177	1173,801	1,876	37,513	1786,131	6,389	126,741	2956,205	19,778	393,48
1000,00	1,397	27,936	1347,934	2,321	45,672	1219,473	1,876	37,513	1823,644	6,492	128,813	3085,019	19,984	397,62
1020,00	1,397	27,936	1375,87	2,396	47,167	1266,639	1,876	37,513	1861,157	6,596	130,886	3215,905	20,192	401,76
1040,00	1,267	26,642	1402,513	2,447	48,428	1315,067	1,938	38,141	1899,297	6,772	133,683	3349,587	20,544	407,36
1060,00	2,322	35,898	1438,411	2,522	49,69	1364,757	2,659	45,97	1945,267	8,076	148,479	3498,066	23,152	436,96
1080,00	3,027	53,495	1491,906	2,588	51,095	1415,853	3,176	58,344	2003,612	9,029	171,05	3669,116	25,058	482,1
1100,00	2,88	59,072	1550,978	2,605	51,93	1467,782	3,256	64,317	2067,929	9,187	182,16	3851,276	25,374	504,32
1120,00	2,88	57,601	1608,579	2,618	52,236	1520,018	3,256	65,116	2133,044	9,205	183,916	4035,192	25,41	507,84
1140,00	2,88	57,601	1666,18	2,631	52,495	1572,513	3,256	65,116	2198,16	9,223	184,276	4219,468	25,446	508,56
1160,00	2,88	57,601	1723,781	2,644	52,755	1625,268	3,256	65,116	2263,276	9,241	184,636	4404,104	25,482	509,28
1180,00	2,88	57,601	1781,383	2,119	47,633	1672,902	3,24	64,954	2328,23	9,499	187,4	4591,504	25,998	514,8
1200,00	2,88	57,601	1838,984	2,132	42,512	1715,414	3,24	64,792	2393,021	9,517	190,164	4781,668	26,034	520,32
1220,00	2,88	57,601	1896,585	2,145	42,772	1758,185	3,24	64,792	2457,813	9,535	190,524	4972,192	26,07	521,04
1240,00	2,88	57,601	1954,186	2,158	43,031	1801,217	3,24	64,792	2522,605	9,553	190,884	5163,076	26,106	521,76
1260,00	2,88	57,601	2011,787	2,171	43,291	1844,508	3,24	64,792	2587,396	9,571	191,244	5354,321	26,142	522,48
1280,00	2,88	57,601	2069,389	2,184	43,551	1888,058	3,24	64,792	2652,188	9,589	191,604	5545,925	26,178	523,2
1300,00	2,88	57,601	2126,99	2,197	43,81	1931,868	3,24	64,792	2716,979	9,607	191,964	5737,89	26,214	523,92
1320,00	2,88	57,601	2184,591	2,21	44,07	1975,938	3,24	64,792	2781,771	9,625	192,325	5930,214	26,25	524,64
1340,00	2,88	57,601	2242,192	2,223	44,329	2020,267	3,24	64,792	2846,563	9,643	192,685	6122,899	26,286	525,36
1360,00	2,88	57,601	2299,793	2,236	44,589	2064,856	3,24	64,792	2911,354	9,661	193,045	6315,943	26,322	526,08
1380,00	2,88	57,601	2357,395	2,249	44,849	2109,705	3,24	64,792	2976,146	9,679	193,405	6509,348	26,358	526,8
1400,00	2,88	57,601	2414,996	2,262	45,108	2154,813	3,24	64,792	3040,937	9,697	193,765	6703,113	26,394	527,52
1414,00	2,88	40,321	2455,317	2,271	31,73	2186,544	3,24	45,354	3086,291	9,71	135,85	6838,962	26,42	369,698
1478,00	2,88	184,324	2639,641	2,191	142,798	2329,342	3,24	207,333	3293,625	9,609	618,195	7457,157	26,218	1684,416
1480,00	2,88	5,76	2645,401	2,157	4,349	2333,691	3,24	6,479	3300,104	9,561	19,17	7476,326	26,122	52,34
1500,00	2,88	57,601	2703,002	2,108	42,649	2376,34	3,24	64,792	3364,895	9,485	190,462	7666,789	25,97	520,92
1520,00	2,88	57,601	2760,603	2,781	48,891	2425,231	3,256	64,954	3429,849	9,433	189,185	7855,974	25,866	518,36
1540,00	2,88	57,601	2818,204	2,82	56,011	2481,242	3,256	65,116	3494,965	9,486	189,19	8045,164	25,972	518,38
1560,00	2,88	57,601	2875,806	2,838	56,581	2537,823	3,256	65,116	3560,081	9,509	189,947	8235,111	26,018	519,9
1580,00	2,88	57,601	2933,407	2,841	56,796	2594,619	3,256	65,116	3625,196	9,514	190,236	8425,347	26,028	520,46
1600,00	2,88	57,601	2991,008	2,836	56,772	2651,39	3,256	65,116	3690,312	9,505	190,197	8615,544	26,01	520,38
1620,00	2,88	57,601	3048,609	2,855	56,909	2708,3	3,256	65,116	3755,428	9,532	190,37	8805,914	26,064	520,74
1640,00	2,88	57,601	3106,21	2,849	57,042	2765,341	3,256	65,116	3820,544	9,524	190,558	8996,471	26,048	521,12
1660,00	2,88	57,601	3163,812	2,86	57,089	2822,43	3,256	65,116	3885,66	9,539	190,627	9187,099	26,078	521,26
1680,00	2,88	57,601	3221,413	2,97	58,296	2880,726	3,256	65,116	3950,776	9,689	192,276	9379,374	26,378	524,56
1700,00	2,88	57,601	3279,014	2,924	58,94	2939,666	3,256	65,116	4015,891	9,63	193,19	9572,564	26,26	526,38
1720,00	2,88	57,601	3336,615	2,86	57,844	2997,51	3,256	65,116	4081,007	9,541	191,712	9764,276	26,082	523,42
1740,00	2,88	57,601	3394,216	2,71	55,701	3053,211	3,256	65,116	4146,123	9,319	188,601	9952,876	25,638	517,2
1760,00	2,88	57,601	3451,818	2,805	55,148	3108,359	3,256	65,116	4211,239	9,462	187,807	10140,683	25,924	515,62
1780,00	2,88	57,601	3509,419	2,842	56,474	3164,833	3,256	65,116	4276,355	9,514	189,751	10330,434	26,028	519,52
1800,00	2,88	57,601	3567,02	2,885	57,276	3222,109	3,256	65,116	4341,47	9,574	190,874	10521,308	26,148	521,76
1820,00	2,88	57,601	3624,621	2,948	58,332	3280,44	3,096	63,514	4404,985	9,395	189,686	10710,994	25,79	519,38
1840,00	2,88	57,601	3682,222	2,944	58,917	3339,358	2,541	56,366	4461,351	8,465	178,601	10889,595	23,93	497,2
1860,00	1,397	42,769	3724,991	2,937	58,808	3398,166	1,876	44,166	4505,517	7,347	158,128	11047,723	21,694	456,24
1880,00	1,397	27,936	3752,928	2,935	58,717	3456,883	1,876	37,513	4543,03	7,344	146,913	11194,636	21,688	433,82
1900,00	1,397	27,936	3780,864	2,935	58,696	3515,579	1,876	37,513	4580,542	7,345	146,89	11341,527	21,69	433,78
1920,00	1,397	27,936	3808,801	2,874	58,088	3573,667	1,876	37,513	4618,055	7,262	146,068	11487,595	21,524	432,14
1940,00	1,397	27,936	3836,709	2,881	57,546	3631,213	2,134	42,674	4660,729	7,68	145,304	11632,899	22,36	438,84
1960,00	1,397	27,936	3864,645	2,955	58,224	3689,437	2,134	42,674	4703,403	7,802	154,819	11787,718	22,604	449,64

Prog	Ballast			Inerbimento			SuperCompattato			Anticapillare			Geotessile	
1980,00	1,397	27,936	3892,581	2,972	59,277	3748,714	2,134	42,674	4746,077	7,826	156,285	11944,003	22,652	452,56
2000,00	1,397	27,936	3920,517	3,007	59,797	3808,511	2,134	42,674	4788,751	7,875	157,015	12101,018	22,75	454,02
2020,00	1,397	27,936	3948,453	3,026	60,336	3868,847	1,876	40,093	4828,844	7,472	153,467	12254,485	21,944	446,94
2040,00	1,397	27,936	3976,389	3,073	60,99	3929,837	1,876	37,513	4866,357	7,537	150,082	12404,567	22,074	440,18
2060,00	1,397	27,936	4004,325	3,122	61,952	3991,789	1,876	37,513	4903,87	7,604	151,406	12555,973	22,208	442,82
2080,00	1,397	27,936	4032,261	3,098	62,209	4053,998	1,876	37,513	4941,383	7,569	151,733	12707,706	22,138	443,46
2100,00	1,397	27,936	4060,197	3,067	61,65	4115,648	1,876	37,513	4978,896	7,525	150,948	12858,654	22,05	441,88
2120,00	1,397	27,936	4088,133	3,028	60,949	4176,597	1,876	37,513	5016,409	7,474	149,991	13008,645	21,948	439,98
2140,00	1,397	27,936	4116,069	3,03	60,578	4237,175	1,876	37,513	5053,922	7,476	149,494	13158,139	21,952	439
2160,00	1,397	27,936	4144,005	3,037	60,668	4297,843	1,876	37,513	5091,435	7,486	149,617	13307,756	21,972	439,24
2180,00	1,397	27,936	4171,941	3,034	60,708	4358,551	1,876	37,513	5128,948	7,481	149,673	13457,429	21,962	439,34
2200,00	1,397	27,936	4199,877	2,957	59,905	4418,456	1,876	37,513	5166,461	7,384	148,657	13606,086	21,768	437,3
2220,00	1,397	27,936	4227,813	2,983	59,401	4477,857	1,876	37,513	5203,974	7,411	147,952	13754,038	21,822	435,9
2240,00	1,397	27,936	4255,749	2,97	59,53	4537,387	1,876	37,513	5241,487	7,392	148,031	13902,069	21,784	436,06
2260,00	1,397	27,936	4283,685	2,879	58,489	4595,876	1,876	37,513	5279	7,275	146,677	14048,746	21,55	433,34
2280,00	1,397	27,936	4311,621	2,709	55,88	4651,756	1,876	37,513	5316,513	7,025	143,005	14191,751	21,05	426
2300,00	1,397	27,936	4339,557	2,53	52,392	4704,148	1,876	37,513	5354,026	6,782	138,073	14329,824	20,564	416,14
2320,00	1,397	27,936	4367,493	2,584	51,145	4755,293	1,876	37,513	5391,539	6,863	136,454	14466,278	20,726	412,9
2340,00	1,397	27,936	4395,429	2,809	53,936	4809,229	1,876	37,513	5429,052	7,18	140,434	14606,712	21,36	420,86
2360,00	1,397	27,936	4423,365	2,459	52,681	4861,91	1,876	37,513	5466,565	6,687	138,667	14745,379	20,374	417,34
2380,00	1,397	27,936	4451,301	2,732	51,906	4913,816	1,876	37,513	5504,078	7,062	137,487	14882,866	21,124	414,98
2400,00	1,397	27,936	4479,237	2,761	54,925	4968,741	2,026	39,013	5543,091	6,751	138,134	15021	20,502	416,26
2420,00	1,397	27,936	4507,173	2,764	55,25	5023,991	2,026	40,513	5583,604	6,756	135,073	15156,073	20,512	410,14
2440,00	1,397	27,936	4535,109	2,774	55,385	5079,376	2,026	40,513	5624,117	6,769	135,253	15291,326	20,538	410,5
2460,00	1,397	27,936	4563,045	2,618	53,924	5133,3	2,026	40,513	5664,63	6,556	133,249	15424,575	20,112	406,5
2480,00	1,397	27,936	4590,981	2,757	53,753	5187,053	2,026	40,513	5705,143	6,744	132,993	15557,568	20,488	406
2500,00	1,397	27,936	4618,917	2,719	54,757	5241,81	2,026	40,513	5745,656	6,691	134,35	15691,918	20,382	408,7
2520,00	1,397	27,936	4646,853	2,787	55,057	5296,867	2,026	40,513	5786,169	6,789	134,799	15826,717	20,578	409,6
2540,00	1,397	27,936	4674,789	2,786	55,726	5352,593	2,026	40,513	5826,682	6,787	135,755	15962,472	20,574	411,52
2560,00	1,397	27,936	4702,725	2,721	55,064	5407,657	2,026	40,513	5867,195	6,697	134,832	16097,304	20,394	409,68
2580,00	1,397	27,936	4730,661	2,636	53,568	5461,225	2,026	40,513	5907,708	6,578	132,745	16230,049	20,156	405,5
2600,00	1,397	27,936	4758,597	2,579	52,154	5513,379	2,026	40,513	5948,221	6,501	130,792	16360,841	20,002	401,58
2606,45	1,397	9,009	4767,606	2,569	16,603	5529,982	2,026	13,065	5961,286	6,487	41,885	16402,726	19,974	128,9226

Prog	Area Scavo	Volume Scavo	Volume Scavo Cumulativo	Area Rilevato	Volume Rilevato	Volume Rilevato Cumulativo	Area Scotico	Volume Scotico	Volume Scotico Cumulativo	Area Bonifica	Volume Bonifica	Volume Bonifica Cumulativo
35	9,816	0	0	0	0	0	0	0	0	0	0	0
40	10,176	49,978	49,978	0	0	0	0	0	0	0	0	0
60	11,274	214,494	264,472	0	0	0	0	0	0	0	0	0
80	9,357	206,308	470,78	0	0	0	0	0	0	0	0	0
100	10,482	198,394	669,173	0	0	0	0	0	0	0	0	0
120	10,766	212,481	881,654	0	0	0	0	0	0	0	0	0
140	10,126	208,922	1090,576	0	0	0	0	0	0	0	0	0
160	10,242	203,686	1294,262	0	0	0	0	0	0	0	0	0
180	4,912	151,542	1445,804	0	0	0	0	0	0	0	0	0
200	2,672	75,84	1521,643	0	0	0	0	0	0	0	0	0
220	7,652	103,239	1624,882	0	0	0	0	0	0	0	0	0
240	10,649	183,002	1807,884	0	0	0	0	0	0	0	0	0
244	11,234	43,764	1851,648	0	0	0	0	0	0	0	0	0
285	9,239	419,689	2271,337	0	0	0	0	0	0	0	0	0
300	11,763	157,517	2428,854	0	0	0	0	0	0	0	0	0
320	12,534	242,973	2671,827	0	0	0	0	0	0	0	0	0
340	12,074	246,077	2917,904	0	0	0	0	0	0	0	0	0
360	9,394	214,68	3132,584	0	0	0	0	0	0	0	0	0
380	17,839	272,334	3404,918	0	0	0	0	0	0	0	0	0
400	16,837	346,759	3751,677	0	0	0	0	0	0	0	0	0
420	5,987	228,242	3979,919	0	0	0	0	0	0	0	0	0
440	4,692	106,795	4086,714	0	0	0	0	0	0	0	0	0
460	3,069	77,611	4164,325	0	0	0	0	0	0	0	0	0
480	1,996	50,65	4214,974	0	0	0	0	0	0	0	0	0
500	1,654	36,499	4251,473	0,888	8,884	8,884	3,628	36,281	36,281	2,902	29,026	29,026
520	1,657	33,108	4284,581	2,742	36,301	45,185	3,992	76,202	112,483	3,194	60,962	89,987
540	1,652	33,089	4317,671	4,505	72,468	117,653	4,311	83,033	195,517	3,449	66,427	156,414
560	2,263	39,152	4356,823	6,962	114,675	232,327	4,715	90,255	285,772	3,772	72,204	228,618
580	2,297	45,604	4402,427	8,424	153,863	386,19	4,946	96,606	382,378	3,957	77,285	305,903
600	2,292	45,889	4448,316	9,376	177,999	564,189	5,075	100,205	482,583	4,06	80,164	386,067
620	2,289	45,806	4494,122	10,542	199,185	763,374	5,234	103,084	585,667	4,187	82,467	468,535
640	2,282	45,706	4539,828	11,881	224,237	987,611	5,422	106,558	692,225	4,337	85,246	553,781
660	2,273	45,551	4585,379	12,733	246,138	1233,748	5,55	109,715	801,94	4,44	87,772	641,553
680	2,249	45,227	4630,606	13,764	264,967	1498,715	5,699	112,482	914,422	4,559	89,985	731,538
700	2,249	44,986	4675,592	15,05	288,14	1786,855	5,865	115,638	1030,06	4,692	92,511	824,049
720	2,255	45,044	4720,637	17,327	323,768	2110,623	6,134	119,988	1150,048	4,907	95,991	920,039
740	2,322	45,775	4766,412	20,39	377,172	2487,795	6,486	126,19	1276,238	5,188	100,952	1020,991
760	2,483	48,057	4814,47	21,902	422,925	2910,721	6,675	131,6	1407,839	5,34	105,28	1126,272
776,5	2,372	40,055	4854,525	24,9	386,119	3296,84	6,866	111,707	1519,546	5,493	89,366	1215,637
815	1,488	74,294	4928,818	28,118	1020,597	4317,436	7,348	273,617	1793,163	5,879	218,894	1434,531
820	2,331	9,548	4938,366	28,495	141,531	4458,967	7,388	36,839	1830,002	5,91	29,472	1464,003
840	2,64	49,71	4988,076	29,337	578,313	5037,281	7,477	148,65	1978,652	5,982	118,92	1582,923
860	3,036	56,756	5044,832	29,096	584,326	5621,607	7,507	149,844	2128,496	6,006	119,875	1702,798
880	3,587	66,229	5111,061	29,784	588,793	6210,4	7,496	150,028	2278,524	5,997	120,022	1822,82
900	4,219	78,054	5189,116	34,158	639,419	6849,819	7,92	154,162	2432,687	6,336	123,33	1946,15
920	3,278	74,965	5264,081	37,221	713,793	7563,612	8,226	161,464	2594,151	6,581	129,172	2075,322
940	3,095	63,731	5327,812	40,317	775,379	8338,991	8,488	167,144	2761,296	6,791	133,715	2209,037
960	2,159	52,543	5380,355	84,001	1243,18	9582,171	12,845	213,334	2974,63	10,276	170,667	2379,705
980	2,223	43,825	5424,18	76,22	1602,206	11184,377	11,446	242,913	3217,542	9,157	194,33	2574,035

Prog	Area Scavo	Volume Scavo	Volume Scavo Cumulativo		Area Rilevato	Volume Rilevato	Volume Rilevato Cumulativo		Area Scotico	Volume Scotico	Volume Scotico Cumulativo		Area Bonifica	Volume Bonifica	Volume Bonifica Cumulativo
1000	2,033	42,561	5466,741		70,052	1462,714	12647,091		10,407	218,538	3436,081		8,326	174,831	2748,865
1020	1,84	38,729	5505,47		66,586	1366,377	14013,469		9,684	200,917	3636,997		7,747	160,733	2909,599
1040	1,76	35,996	5541,466		63,76	1303,456	15316,924		9,214	188,977	3825,974		7,371	151,182	3060,78
1060	1,676	34,36	5575,826		63,512	1272,72	16589,644		9,08	182,939	4008,913		7,264	146,351	3207,131
1080	1,663	33,396	5609,222		65,233	1287,453	17877,098		9,158	182,38	4191,293		7,326	145,904	3353,036
1100	1,974	36,373	5645,594		64,227	1294,597	19171,695		9,096	182,536	4373,829		7,277	146,029	3499,064
1120	2,304	42,778	5688,372		63,21	1274,364	20446,059		9,049	181,453	4555,282		7,24	145,163	3644,227
1140	2,628	49,317	5737,689		62,623	1258,324	21704,382		9,011	180,602	4735,885		7,209	144,482	3788,708
1160	2,585	52,133	5789,823		63,03	1256,53	22960,913		9,035	180,462	4916,347		7,228	144,37	3933,078
1180	3,526	61,115	5850,937		61,09	1241,205	24202,118		9,119	181,541	5097,887		7,295	145,233	4078,311
1200	3,372	68,985	5919,922		62,176	1232,661	25434,779		9,163	182,82	5280,707		7,331	146,256	4224,567
1220	2,989	63,609	5983,531		64,326	1265,019	26699,798		9,274	184,37	5465,077		7,419	147,496	4372,063
1240	3,277	62,66	6046,191		61,259	1255,845	27955,642		9,3	185,737	5650,814		7,44	148,589	4520,652
1260	11,17	144,473	6190,664		57,009	1182,673	29138,315		8,546	178,459	5829,273		6,837	142,767	4663,42
1280	6,172	173,42	6364,084		65,405	1224,141	30362,456		9,046	175,915	6005,189		7,236	140,732	4804,152
1300	2,36	85,322	6449,406		71,485	1368,905	31731,361		9,546	185,911	6191,099		7,636	148,729	4952,88
1320	1,944	43,038	6492,444		71,401	1428,863	33160,223		9,563	191,082	6382,182		7,65	152,866	5105,746
1340	2,318	42,612	6535,056		70,394	1417,95	34578,174		9,509	190,716	6572,898		7,607	152,573	5258,319
1360	2,702	50,194	6585,251		69,346	1397,401	35975,575		9,455	189,641	6762,538		7,564	151,713	5410,032
1380	2,768	54,7	6639,951		68,317	1376,631	37352,206		9,436	188,908	6951,446		7,549	151,126	5561,158
1400	2,807	55,752	6695,703		67,702	1360,191	38712,397		9,45	188,851	7140,298		7,56	151,081	5712,239
1414	2,234	35,29	6730,993		68,426	952,894	39665,291		9,555	133,035	7273,332		7,644	106,428	5818,667
1478	2,801	161,121	6892,113		71,701	4484,041	44149,331		9,734	617,268	7890,6		7,789	493,875	6312,541
1480	2,78	5,581	6897,694		70,836	142,537	44291,868		9,718	19,452	7910,051		7,78	15,569	6328,11
1500	2,649	54,293	6951,988		71,823	1426,59	45718,458		9,516	192,339	8102,39		7,613	153,926	6482,036
1520	2,68	53,289	7005,277		75,268	1470,911	47189,369		9,464	189,801	8292,191		7,571	151,841	6633,877
1540	2,65	53,303	7058,579		76,18	1514,484	48703,854		9,516	189,796	8481,987		7,613	151,837	6785,714
1560	2,624	52,747	7111,327		75,944	1521,24	50225,093		9,539	190,55	8672,537		7,631	152,44	6938,154
1580	2,624	52,486	7163,813		76,048	1519,917	51745,011		9,545	190,837	8863,375		7,636	152,67	7090,823
1600	2,583	52,076	7215,889		75,235	1512,833	53257,844		9,535	190,798	9054,173		7,628	152,639	7243,462
1620	2,581	51,639	7267,528		75,607	1508,428	54766,272		9,562	190,968	9245,141		7,649	152,773	7396,235
1640	2,457	50,379	7317,907		76,227	1518,346	56284,618		9,554	191,157	9436,298		7,643	152,924	7549,159
1660	2,536	49,929	7367,836		77,106	1533,338	57817,955		9,569	191,231	9627,529		7,655	152,985	7702,144
1680	2,537	50,722	7418,559		80,036	1571,421	59389,377		9,719	192,878	9820,407		7,775	154,302	7856,447
1700	2,647	51,832	7470,391		79,187	1592,229	60981,605		9,661	193,801	10014,207		7,729	155,04	8011,487
1720	2,632	52,782	7523,173		72,753	1519,397	62501,002		9,58	192,414	10206,621		7,664	153,931	8165,418
1740	2,385	50,161	7573,334		61,003	1337,556	63838,558		9,364	189,445	10396,066		7,491	151,556	8316,974
1760	2,563	49,477	7622,811		73,185	1341,883	65180,442		9,492	188,561	10584,627		7,593	150,849	8467,823
1780	2,563	51,263	7674,074		74,941	1481,267	66661,708		9,544	190,355	10774,981		7,635	152,284	8620,107
1800	2,577	51,402	7725,476		77,307	1522,486	68184,194		9,604	191,475	10966,457		7,683	153,18	8773,287
1820	2,606	51,831	7777,307		76,535	1538,42	69722,614		9,425	190,286	11156,743		7,54	152,229	8925,516
1840	2,628	52,342	7829,648		67,461	1439,955	71162,569		8,495	179,202	11335,945		6,796	143,361	9068,877
1860	2,629	52,568	7882,216		55,734	1231,946	72394,515		7,228	157,228	11493,173		5,782	125,783	9194,66
1880	2,627	52,553	7934,769		55,608	1113,421	73507,935		7,224	144,514	11637,687		5,779	115,611	9310,271
1900	2,67	52,968	7987,737		55,594	1112,02	74619,955		7,225	144,491	11782,178		5,78	115,592	9425,863
1920	2,679	53,493	8041,229		55,232	1108,26	75728,216		7,142	143,674	11925,852		5,714	114,939	9540,803
1940	3,218	52,924	8094,153		57,98	1091,65	76819,866		7,71	142,917	12068,769		6,168	114,334	9655,137
1960	3,222	64,391	8158,544		60,507	1184,863	78004,729		7,832	155,426	12224,195		6,266	124,341	9779,478
1980	3,24	64,618	8223,162		61,336	1218,431	79223,16		7,856	156,886	12381,081		6,285	125,509	9904,987

Prog	Area Scavo	Volume Scavo	Volume Scavo Cumulativo	Area Rilevato	Volume Rilevato	Volume Rilevato Cumulativo	Area Scotico	Volume Scotico	Volume Scotico Cumulativo	Area Bonifica	Volume Bonifica	Volume Bonifica Cumulativo
2000	3,321	65,61	8288,772	62,545	1238,813	80461,973	7,905	157,616	12538,697	6,324	126,093	10031,08
2020	3,311	66,318	8355,09	58,446	1209,912	81671,885	7,502	154,069	12692,766	6,001	123,255	10154,335
2040	3,389	66,996	8422,086	59,792	1182,381	82854,266	7,567	150,684	12843,45	6,053	120,547	10274,882
2060	3,29	66,782	8488,868	60,205	1199,974	84054,24	7,634	152,009	12995,459	6,107	121,607	10396,489
2080	3,11	63,992	8552,86	59,24	1194,457	85248,697	7,622	152,564	13148,023	6,098	122,051	10518,54
2100	3,11	62,192	8615,052	58,737	1179,778	86428,475	7,578	152,006	13300,029	6,063	121,605	10640,145
2120	3,2	63,097	8678,149	58,173	1169,102	87597,577	7,517	150,958	13450,987	6,014	120,766	10760,911
2140	3,265	64,647	8742,796	58,114	1162,866	88760,443	7,506	150,232	13601,219	6,005	120,185	10881,096
2160	3,25	65,151	8807,947	58,386	1164,996	89925,439	7,516	150,218	13751,437	6,013	120,174	11001,27
2180	3,264	65,148	8873,095	58,389	1167,749	91093,188	7,511	150,273	13901,71	6,009	120,219	11121,489
2200	3,479	67,435	8940,53	57,237	1156,263	92249,451	7,415	149,265	14050,975	5,932	119,412	11240,901
2220	3,105	65,844	9006,374	56,64	1138,775	93388,226	7,471	148,863	14199,838	5,977	119,09	11359,991
2240	3,1	62,056	9068,43	54,604	1112,44	94500,666	7,474	149,45	14349,288	5,979	119,561	11479,552
2260	3,898	69,981	9138,411	53,488	1080,912	95581,578	7,306	147,798	14497,086	5,845	118,239	11597,791
2280	3,224	71,224	9209,635	47,693	1011,803	96593,381	7,056	143,616	14640,702	5,645	114,893	11712,684
2300	3,079	63,04	9272,675	43,328	910,205	97503,586	6,824	138,799	14779,501	5,46	111,052	11823,736
2320	2,29	53,693	9326,368	49,044	923,721	98427,307	7,251	140,75	14920,251	5,801	112,612	11936,348
2340	4,31	65,995	9392,363	56,648	1056,926	99484,233	7,219	144,699	15064,95	5,775	115,759	12052,107
2360	2,999	73,089	9465,452	44,588	1012,363	100496,596	6,792	140,112	15205,062	5,434	112,09	12164,197
2380	3,109	61,078	9526,53	49,86	944,481	101441,077	7,124	139,157	15344,219	5,699	111,326	12275,523
2400	20,702	238,11	9764,64	49,449	993,089	102434,166	7,032	141,551	15485,77	5,625	113,241	12388,764
2420	20,558	412,606	10177,246	49,343	987,918	103422,084	7,062	140,938	15626,708	5,65	112,75	12501,514
2440	20,362	409,199	10586,445	49,69	990,334	104412,418	7,069	141,315	15768,023	5,655	113,052	12614,566
2460	22,762	431,234	11017,679	46,094	957,844	105370,262	6,837	139,064	15907,087	5,47	111,251	12725,817
2480	22,698	454,6	11472,279	46,565	926,592	106296,854	7,355	141,922	16049,009	5,884	113,537	12839,354
2500	20,383	430,816	11903,095	48,919	954,838	107251,692	7,022	143,772	16192,781	5,618	115,017	12954,371
2520	19,753	401,367	12304,462	50,728	996,466	108248,158	7,069	140,909	16333,69	5,655	112,727	13067,098
2540	19,763	395,166	12699,628	50,548	1012,765	109260,923	7,08	141,492	16475,182	5,664	113,194	13180,292
2560	20,888	406,517	13106,145	48,706	992,548	110253,471	6,986	140,665	16615,847	5,589	112,532	13292,824
2580	21,841	427,294	13533,439	46,491	951,976	111205,447	6,876	138,625	16754,472	5,501	110,9	13403,724
2600	23,388	452,287	13985,726	44,648	911,394	112116,841	6,782	136,587	16891,059	5,426	109,269	13512,993
2606,45	23,724	151,934	14137,66	43,818	285,299	112402,14	6,768	43,698	16934,757	5,414	34,959	13547,952