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**ECONOMIC COMMISSION FOR EUROPE**

INLAND TRANSPORT COMMITTEE

Ad hoc Meeting of the Multidisciplinary  
Group of Experts on Safety in Tunnels (rail)  
(First session, 27- 28 June 2002,  
agenda item 6)

**RAILWAY TUNNELS IN EUROPE AND NORTH AMERICA**

Note by the secretariat

The attached list of railway tunnels (longer than 1, 000 m) was compiled by the secretariat from various national and international sources. The list is intended to serve as a reference inventory for a long railway tunnels in Europe and North America.

Railway tunnels in Europe and North America

Country	I.S.O. Code	No. of tunnels > 1 000 m	of which 1 000-2 000 m	of which 2 000-3 000 m	of which 3 000-4 000 m	of which 4 000-5 000 m	of which 5 000-6 000 m	of which 6 000-7 000 m	of which 7 000-8 000 m	of which 8 000-9 000 m	of which 9 000-10 000 m	of which > 10 000 m
Austria	AT	25	11	4		2	2	1	1	1		3
Belgium	BE	4	2	1			1					
Bos. & H.	BA	1			1							
Bulgaria	BG	3	1	1			1					
Canada	CD	5					2			2		1
Croatia	HR	2								1		1
Czech R.	CZ	1	1									
Denmark	DK	2				1				1		
Finland	FI	1				1						
France	FR	75	42	11	7	5	2	2	2	2		2
Georgia	GE	1				1						
Germany	DE	131	64	25	13	7	8	4	4	3	1	2
Greece	GR	3		1		2						
Italy	IT	177	68	31	25	10	7	6	12	1	3	14
Italy - Switzerland		3	1									2
Macedonia	MK	1							1			
Nederland	NL	6	1	1	1		1		2			
Norway	NO	26	5	6	4	1	2	1	1	2	1	3
Poland	PL	1	1									
Portugal	PT	3	3									
Romania	RO	1				1						
Russian Fed.	RU	4			1			1				2
Serbia/Montenegro		7	1	1	2	1		2				
Serbia-Bosnia		1					1					
Slovakia	SK	11	4	3	3	1						
Slovenia	SL	1						1				
Spain	ES	43	30	5	3	1	2	1		1		
Sweden	SE	3	3									
Switzerland	CH	81	36	14	9	4	2	2	1	3	1	9
Turkey	TR	1				1						
United Kingdom	GB	15		3	6	5	1					
USA	US	4							1		1	2
England-France		1										1
England-Wales		1							1			
		645	274	107	75	44	32	21	26	17	7	42

**Railway tunnels in Europe and North America**

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Austria	Arlberg	10 249 m	21.09.1884			Arlberg line
	Blisadona	2 415 m				Arlberg line
	Bosruck	4 766 m	20.08.1906			Phyrn line
	Galgenberg	5 462 m	24.05.1998			Leoben - St. Michael
	Goesing	2 368 m	15.07.1907			Mariazell line (narrow gauge)
	Hartberg	2 477 m	12.10.1910			Wechsel line
	Kalvarienberg	1 410 m	1994			Umfahrung - Lambach
	Kaponig	5 094 m	15.11.1999			
	Langenberg	1 443 m	1961			
	Martinswand	1 810 m	28.10.1912			Karwendel line
	Moltertobel	1 643 m	21.09.1884			Arlberg line
	Platten	1 394 m	15.09.1891			Erzberg line
	Semmering	1 434 m	15.05.1954			Old Semmering line
	Semmering	1 512 m	1952			New Semmering line
	Sieberg	6 800 m	Jun-01			Haag - St.Valentin
	Sittenberg	4 792 m	1996			Umfahrung - Säusenstein
	Sonnstein	1 428 m	23.10.1877			Attnang Puchheim - Stainach-Irdning
	Tauern	8 551 m	07.07.1909			
	Wienerwald	11 640 m	2006			Wien - St. Polten. Construction start 2002
	Wiesenhoefe	1 212 m	12.10.1910			Wechsel line
Wildentobel	1 157 m	21.09.1884			Arlberg line	
Zammer	2 435 m	1996			Arlbergbahn	
Wolfsgruben	1 743 m	11.09.2000			St. Anton/Arlberg bypass	
Austria- Italy	Basis Brenner	55 000 m	PRJ			Brenner line
Austria-Slovenia	Karawanken	7 976 m	01.10.1906			Karawanken line
Belgium	Antwerpen TGV	1 500 m				Antwerpen - Amsterdam
	Soumagne	5 940 m	2005			TGV Liege - Köln
	d'Anvers	1 300 m	2005			Bruxelles - Berchem
	Vörs	2 130 m				Aachen (D) - Tongeren
Bosnia	Ivan	3 230 m	1966			Longest in Bosnia
Bulgaria	Galabetz	3 000 m	1952			Sofia - Burgas
	Kosnitza	5 081 m	1952			Sofia - Burgas
	Sipka	1 007 m	10.02.1913			Trnovo - Stara Zagora
Canada	Connaugh	8 835 m	1916			
	Mount Macdonald	14 600 m	1989			
	Mount Royal	5 200 m	1918			
	Table	9 000 m	1983			
	Wolverine	6 000 m	1983			
Croatia	Cicarija	14 300 m				Planned on Rijeka - Istria line
	Krapina 4	8 500 m				Planned on Rijeka - Istria line
Czech Republic	Spitzberg	1 748 m				Plzen - Zelezná Ruda
Denmark	Drogden	4 050 m	2000			Immersed tube (Denmark - Sweden)
	Storebælt	8 024 m	1997			Subsea tunnel
England-France	Chunnel (Eurotunnel)	50 450 m	1994			Sub-sea tunnel
England-Wales	Severn	7 008 m	1886			Subsea tunnel
Finland	Lahdenvuori	4 290 m				Jämsänkoski - Jyväskylä
France	Barthe Espresso	1 226 m	21.07.1929			Toulouse-Barcelona
	Beauvoisine	1 354 m				Darnetal Racct - Rouen Rd

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
France	Bégude	1 723 m	16.03.1870			Clermont Ferrand - Nimes
	Blaisy-Bas	4 114 m	1850			Paris - Lyon
	Boucle de Frasses	1 044 m	01.08.1912			Bourg - Andelot
	Cabrils I	1 430 m	10.11.1888			Arvant - Béziers
	Caluire	2 405 m				Collonges Font - Lyon St. Clair
	Chantenay	1 196 m				Nantes-Savenay
	Col de Braus	5 983 m	30.09.1928			Tenda line
	Col de Cabre	3 764 m				Livron - Briancon
	Col de Malet	1 456 m	10.11.1888			Arvant - Béziers
	Col de Montets	1 882 m	01.07.1908			Saint Gervais le Fayet - Martigny (CH)
	Col de Moriez	1 195 m	31.08.1891			Nice-Digne
	Colle de Saint-Michel	3 457 m	1912			Nice - Digne
	Colombière	1 193 m	16.10.1871			Mont Cenis line
	Compagnac	1 198 m	10.11.1888			Arvant-Béziers
	Cret d'Eau	4 008 m	1859			Lyon - Genève
	Echarmeaux	4 152 m	1900			Paray - le Monial - Givors
	Esserts	1 500 m	01.06.1893			St. Pierre d'Albigny - Bourg Saint Maurice
	Festinière	1 071 m	01.08.1888			Grenoble - La Mure d'Isère
	Grand Brion	1 175 m	29.07.1878			Grenoble-Marseille
	Grand Pissy-Poville	2 205 m				Malaunay - Motteville
	Gravil	1 120 m	16.03.1870			Clermont Ferrand - Nimes
	Hélicoidal	1 792 m	03.06.1928			Pau - Zaragoza (SP)
	Hélicoidal de Bergue	1 883 m	30.10.1928			Tenda line (direction Ventimiglia)
	Hélicoidal de Saillens	1 752 m	21.07.1929			Toulouse - Barcelona
	Jeannots	1 628 m				Aubagne - La Seyne
	La Boucel	1 400 m	20.11.1913			St.Pierre d'Albigny - Bourg Saint Maurice
	La Galaure	2 680 m				St.Quentin - St. Marcel
	La Motte	2 561 m				Lisieux - Mezidon
	La Savine	2 080 m	01.08.1912			Bourg - Andelot
	L'Albespyere	1 521 m	16.03.1870			Clermont Ferrand - Nimes
	Le Roule Vernon Lr	1 727 m				St. Pierre Vauvray
	L'Epine	3 076 m				St. Beron Bridoi - Chambery
	Lioran	1 950 m	20.07.1868			Neussargues - Aurillac
	Livnan	1 468 m				Angouleme - Coutras
	Loyasse	1 421 m				Lyon St. Paul - Lyon -du Loup
	Marseille	7 834 m				
	Meudon	3 363 m				Bellegarde - Longera - Leaz
	Mont Grazian	3 887 m	30.10.1928			Tenda line
	Mornay	2 589 m	20.10.1883			Bourg - Andelot
	Mussuguet	2 624 m				Aubane - La Seyne
	Nerthe	4 634 m	1848			Paris - Marseille
	Netreville	1 790 m				St. Aubin du Ve
	Pennes-Mirabeau	1 390 m				LGV Mediterranee
	Pétafy	1 863 m	10.11.1888			Arvant - Béziers
	Plaines St. Pierre	1 670 m	20.11.1913			d'Albigny - Bourg Saint Maurice
	Prieuré	1 025 m	01.06.1894			Livron - Briancon
	Puymorens	5 410 m	21.07.1929			Toulouse - Barcelona
	Racouze	1 685 m	20.10.1883			Bourg - Andelot
	Rolleboise	2 613 m				Nantes la Jolie - Vernon
	Roques	1 761 m				Cazoules Lr - Cahors
Saint Xist	1 721 m	10.11.1888			Arvant - Béziers	

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
France	Sainte Irenee	2 110 m				Lyon Vaise - Lyon Perrach
	Sainte Lucie	1 106 m	10.11.1888			Arvant – Béziers
	Sainte-Marie-aux-Mines	6 874 m	1937			Closed in 1973. Road since 1976
	Sorderettes	1 065 m	16.10.1871			Mont Cenis line
	Souvages	2 940 m				Le Coteau - Tarare
	Ste Catherine	1 056 m				Sotteville - Darmetal Racct
	Tartaiguille	2 470 m				TGV Lyon - Marseille
	Terrenoire	1 298 m				St.Etienne Pont - Givors Canal
	Torcenay	1 115 m				Culmont Chalind - Chaudenay
	Torretta	1 522 m	01.12.1888			Bastia - Ajaccio
	Villefranche	1 518 m				Nice - Menton
	Villejust	4 806 m				Massy LNA - Courtalain BIF
	Vizzavona	3 916 m	01.12.1888			Bastia - Ajaccio
	La Colombiere	1 244 m				Culoz Aix les Bains
	L'Alouette	1 240 m				Orlean Bi Vierz Vierzon
France – Italy	Basis Mont d'Ambin	52 110 m	2015			Pilot tunnel 2001, works will start in 2006
	Frejus (Cenisio)	13 536 m	17.09.1871			Mont Cenis line. Original length: 12233 m
	Tenda	8 099 m	30.10.1928			Tenda line
France/Monaco	Monaco	3 092 m	11.1996			Nice - Menton
France – Spain	Perthus	8 200 m	PRJ			TGV Perpignan - Barcelona
	Somport	7 875 m	18.07.1928			Pau (F) - Zaragoza
France-Switzerland	Mont d'Or	6 097 m	16.05.1915			Dijon (F) - Lausanne (CH)
Georgia	Sscuram	4 438 m	1889			Trans Kaukasus line
Germany	Albastieg	5 950 m	PRJ			Stuttgart - Augsburg
	Albaufstieg	8 430 m	PRJ			Stuttgart - Augsburg
	Albaufstieg 2	4 770 m	PRJ			Stuttgart - Augsburg
	Altengronauer Forst	2 353 m	1988			Fulda - Würzburg
	Audi	1 138 m	2003			Nürnberg - Ingolstadt
	Bausenberg	1 071 m	197?			Finnentrop - Olpe
	Bibra	6 414 m	PRJ 2007			Erfurt - Leipzig/Halle
	Bischofferoder(aband.)	1 503 m	1880			Malsfeld - Schwebda - Treysa
	Bleißberg	8 314 m	PRJ			Ebensfeld - Erfurt
	Brandleite	3 039 m	1884			Erfurt - Meiningen
	Breckenheim	1 150 m	5.2002			Köln - Frankfurt
	Burgberg	1 115 m	1991			Mannheim - Stuttgart
	Deesener-Wald	1 270 m	5.2002			Köln - Frankfurt
	Dernbach	3 285 m	5.2002			Köln - Rhein/Main
	Dietershan	7 375 m	1991			Kassel - Fulda
	EGge	2 880 m	11.2001			Dortmund - Kassel
	Eichelberg	1 869 m	1988			Fulda - Würzburg
	Eichenberg	1 157 m	1991			Hannover - Göttingen
	Eichheide	1 750 m	5.2002			Köln - Frankfurt
	Eierberge	3 756 m	PRJ			Ebensfeld - Erfurt
	Einmalberg	1 140 m	1988			Fulda - Würzburg
	Elleringhauser	1 393 m				Schwerte Kassel
	Elzer Berg	1 110 m	5.2002			Köln – Frankfurt
	Erbscheid	1 034 m	197?			Finnentrop - Olpe
	Escherberg	2 906 m	1991			Hannover - Göttingen
	Espenloh	2 235 m	1988			Fulda - Würzburg
	Euerwang	7 720 m	2003			Nürnberg Ingolstadt
	Fahrnauer	3 169 m	1890			Schopfheim - Säckingen (abandoned)

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Germany	Fernthal	1 555 m	5.2002			Köln - Frankfurt
	Finne	6 886 m	2007			Erfurt - Leipzig/Halle, Work started 2001
	Flughafen	4 210 m	5.2002			Köln - Rhein/Main
	Flughafen	9 470 m	PRJ-2011			Stuttgart, between airport and main station
	Forst	1 726 m	1987			Mannheim- Stuttgart
	Frankfurt	5 000 m	PRJ			Frankfurt am Main/Hessen
	Frankfurter-Kreuz	1 886 m	5.2002			Sportfeld Köln - Frankfurt
	Frankfurter-Kreuz,	1 632 m	5.2002			Köln - Frankfurt
	Zeppelinheim					
	Frau Nauses	1 205 m	1870			Hanau-Eberbach
	Freudenstein	6 800 m	1991			Mannheim - Stuttgart
	Frieda (abandoned)	1 066 m	1880			Leinefelde - Eschwege
	Geisberg	3 289 m	9.2001			Nürnberg - Ingolstadt
	Göggelsbuch	2 287 m	2003			Nürnberg - Ingolstadt
	Goldberg	2 200 m	1910			Hagen - Brügge - Köln
	Großer Stockhalde	1 700 m	20.05189			Oberlauchringen - Hintschingen
	Gunterscheid	1 130 m	5.2002			Köln - Frankfurt
	Hainbuch	1 520 m	1991			Kassel - Fulda
	Hainrode	5 370 m	1991			Kassel - Fulda
	Hasenberg	5 730 m	1985			Stuttgart/Baden-Württemberg
	Hasselborner	1 300 m	1912			Grävenwiesbaden - Albshausen
	Heiligenberg	1 349 m				(Homburg-) - Kaiserslautern - Ludwigshafen
	Heinsberger	1 303 m	1914			Lennestadt - Birkeibach(abandoned)
	Helleberg	1 598 m	1991			Hannover - Göttingen
	Himmelberg	2 395 m	5.2002			Köln - Rhein/Main
	Hochdorfer	1 557 m				Pforzheim - Hochdorf
	Hoffnungsthaler	1 087 m	1910			Köln - Olpe
	Idsteiner	2 069 m	5. 2002			Köln - Frankfurt
	Irlahüll	7 260 m	12.2002			Nürnberg Ingolstadt
	Ittenbach	1 145 m	5.2002			Köln - Frankfurt
	Kaiserau	1 861 m	1991			Kassel - Fulda
	Kaiser-Wilhelm	4 203 m	1877			Koblenz - Trier
	Kalbach	1 259 m	1988			Fulda - Würzburg
	Kalter - Sand	1 043 m	1991			Kassel - Fulda
	Katzenberg	8 980 m	PRJ			Karlsruhe - Basel
	Kehrenberg	2 400 m	1991			Kassel - Fulda
	Kirchheim	3 820 m	1991			Kassel - Fulda
	Knüllstedter(abandoned)	1 530 m	1880			Leinefelde - Geismar
	Königsstuhl	2 487 m	1910			heidelberg - Eberbach
	Krähberg	3 100 m	1881			Hanau - Eberbach
	Krieberg	2 994 m	1991			Hannover - Göttingen
	Landrücken	10 779 m	1988			Fulda - Würzburg
	Lange-Issel	1 015 m	5.2002			Köln - Frankfurt
Langes-Feld	4 442 m	1991			Mannheim - Stuttgart	
Leinebusch	1 740 m	1991			Göttingen - Kassel	
Limburg	2 395 m	5.2002			Köln - Rhein/Main	
Lohberg	1 072 m	1991			Göttingen - Kassel	
Marienthaler	1 050 m	1886			Engers - Au/Sieg	
Markstein	2 782 m	1991			Mannheim - Stuttgart	
Mettlacher	1 196 m	1860			Saarbrücken-Karthaus	
Milseburg (abandoned)	1 172 m	1891			Fulda-Hilders	

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Germany	Mühlbach	1 553 m	1991			Kassel - Fulda
	Mühlberg	5 528 m	1988			Fulda - Würzburg
	Mühlkopf	1 345 m	1991			Göttingen - Kassel
	Mündener	10 514 m	1991			Göttingen - Kassel
	Nebenweg	1 078 m	1991			Vaihingen - Ludwigsburg
	Neuberg	1 945 m	1988			Fulda - Würzburg
	Neuer Mainzer	1 250 m	2002			Mainzer - Mannheim
	Niedernhausen	2 765 m	5.2002			Köln - Rhein/Main
	Offenbau	1 330 m	2003			Nürnberg - Ingolstadt
	Osterberg	2 027 m	PRJ 2007			Erfurt - Leipzig/Halle
	Osterberg	4 050 m	2001			Erfurt - Leipzig/Halle
	Pegnitz	6 800 m	PRJ			Nürnberg - Erfurt
	Pfingstberg	5 380 m	1987			Mannheim - Stuttgart
	Pulverdinger	1 878 m	1991			Mannheim - Stuttgart
	Rabenscheider (abandoned)	1 114 m	193?			Haiger – Breitscheid
	Rammersberg	1 362 m	1994			Lohr - Rohrbach
	Rastatter	5 000 m	PRJ			Karlsruhe - Basel
	Rauheberg	5 210 m	1991			Göttingen - Kassel
	Rehberg	1 632 m	1864			Hannover - Hagen
	Reitersberg	2 975 m	PRJ			Ebensfeld - Erfurt
	Rengershausener	1 592 m	1991			Kassel - Fulda
	Richthof	3 510 m	1991			Kassel - Fulda
	Riesberg	1 322 m	1991			Hannover - Göttingen
	Rollenberg	3 303 m	1991			Mannheim - Stuttgart
	Roßberg	2 160 m	1988			Fulda - Würzburg
	Rudersdorfer	2 652 m	1915			Hagen - Dillenburg
	Schalkenberg	2 829 m	1991			Kassel - Fulda
	Schickeberg	1 430 m	1991			Kassel - Fulda
	Schlüchterner	3 995 m	PRJ 2007			Frankfurt - Hbf. Göttingen
	Schlüchterner	3 576 m	1914			Frankfurt - Bebra
	Schönrain	3 942 m	1994			Lohr - Rohrbach
	Schulwald	4 495 m	5.2002			Köln - Rhein/Main
	Schwarzenfels	2 120 m	1988			Fulda - Würzburg
	Sengeberg	2 807 m	1991			Kassel - Fulda
	Siegaue	2 502 m	5.2002			Köln - Rhein/Main
	Siegauen	2 202 m	2002			Köln - Frankfurt
	Silberberg	7 391 m	PRJ			Thüringen, Ebensfeld - Erfurt
	Silvinger (abandoned)	1 715 m				Silvingen - Merzig
	Sinnberg	2 159 m	1988			Fulda - Würzburg
	Sohlberg	1 729 m	1991			Hannover - Göttingen
	Sommerau	1 697 m	01.11.1873			Offenburg – Singen (Black Forest line)
	Stammham	1 320 m	2003			Nürnberg - Ingolstadt
	Sterbfritz	1 092 m	1872			Fulda - Gemünden
	Tiergarten	3 450 m	2004			Berlin
	Wandersmann Nord	1 145 m	5.2002			Köln - Frankfurt, Abzw. nach Wiesbaden
	Weiler Wendet	1 205 m	20.05.1890			Waldshut-Immendingen
	Weltkugel	1 641 m	1991			Kassel - Fulda
	Wildsberg	2 708 m	1991			Kassel - Fulda
	Wilfenberg	1 006 m	1991			Mannheim - Stuttgart
	Wilsecker	1 266 m	1871			Köln - Ehrang

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Germany	Zugspitz	4 466 m	1930			Garmisch Patenkirchen - Zugspitzplatt
	Aegidienberg	1 240 m	5.2002			Köln-Frankfurt
	Kehr im Weiler	1 205 m	1890			Oberlauchringen-Hintschingen
Greece	Parnass/Othrys	2 103 m	06.09.1908			Piraeus - Thessaloniki
	Tembi	4 300 m	1998			Athens - Thessalonika
	Tempi	4 034 m	04.07.1997			Athens - Thessalonika
Italy	Allocchi	3 778 m	24.04.1893			Faentina Ravenna - Firenze
	Altare	1 452 m	07.02.1954			Savona - Torino
	Altipiano	1 276 m	30.10.1928			Tenda Line
	Alvenao	1 079 m	30.10.1883			Terni - Sulmona
	Appennino	18 507 m	21.04.1934			Direttissima Bologna - Firenze
	Appennino (Pracchia)	2 727 m	03.09.1864			Old line Bologna-Pistoia-Firenze
	Arazecca	1 063 m	18.09.1897			Sulmona - Isernia
	Ariano	3 205 m	11.03.1871			Foggia - Benevenuto
	Armata	1 394 m				Roma - Firenze
	Balduini	1 642 m	29.04.1866			Ancona - Roma
	Belbo	4 247 m	28.09.1874			Savona - Torino
	Bellosguardo	2 210 m	1987			Firenze - Empoli
	Biassa I	3 600 m	1864			La Spezia - Gènova
	Biassa II	5 300 m	1864			La Spezia - Gènova
	Boglia	1 086 m	30.10.1928			Tenda line
	Bologna	6 100 m	2006			Milano - Bologna
	Bonassola	2 500 m	1966			La Spezia - Gènova
	Borgallo	7 972 m	01.08.1894			Pontremolese Parma - La Spezia
	Borlasca	4 065 m	15.04.1889			Succursale: 2nd line Torino - Gènova
	Bossegli	1 584 m	30.10.1928			Tenda line (direction Ventimiglia)
	Briccelle	1 033 m				Roma - Napoli
	Brozolo	2 346 m				Asti - Chiavasso
	Bussoleno bypass	12 050 m	2015			Torino - Lione. Pilot tunnel 2001
	Campeda	3 800 m	1989			Dorsale sarda
	Campio	1 806 m				Udine - Tarvisio - A
	Campo Nero	1 900 m				Gènova - Nice (F)
	Campo Zillone 1	2 616 m				Roma - Napoli
	Camporosso	6 934 m	1988			Udine - Tarvisio - Austria
	Cantalupo	1 072 m	18.06.1894			Gènova - Asti
	Capo d'Armi	1 000 m	1987			Reggio Calabria - Metaponto
	Capo Mele	1 500 m				Gènova - Nice (F)
	Capo Noli	5 500 m	5			Gènova - Nice (F)
	Caponero - Capoverde	12 585 m	2001			Genova - Ventimiglia Nice (F)
	Caprenne	2 700 m	1988			Firenze - Roma
	Cardano	3 725 m				Verona - Brennero- Austria
	Carrito	3 545 m	30.07.1888			Roma - Sulmona
	Casale	2 622 m	01.12.1863			Old line Bologna-Pistoia-Firenze
	Castiglione	7 390 m				Roma - Firenze
	Ceraino	4 158 m	4.12.1998			Verona - Brennero- Austria
	Colli Albani	6 625 m	2006			Roma - Napoli
	Corfinio	1 335 m	30.10.1883			Terni - Sulmona
	Cortina	2 710 m	2.2001			Start of work 06.2001
	Costarainera	1 600 m				Gènova - Nice (F)
Cremolino	3 408 m	18.06.1894			Gènova - Asti	
Cristina	1 433 m	11.03.1871			Foggia - Benevenuto	



Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Italy	Crocetta	4 168 m	02.08.1915			Paola - Cosenza
	Dagnente	1 175 m				Milano-Paris
	Desco	1 425 m				Lecco - Sondrio
	Dirupo	1 210 m	18.09.1892			Sulmona-Isernia
	Elic	1 502 m	30.10.1928			di Vernante Tenda line
	Elic. Biogna	1 154 m	30.10.1928			Tenda line (direction Ventimiglia)
	Elic. Branego	1 273 m	30.10.1928			Tenda line (direction Ventimiglia)
	Elic. di Santuario	2 063 m	07.02.1954			Savona Torino
	Elic. Porcarezzo	1 249 m	30.10.1928			Tenda line (direction Ventimiglia)
	Elic. Riorò II	1 257 m	30.10.1928			Tenda line (direction Ventimiglia)
	Elic.Cagnolina	1 467 m	30.10.1928			Tenda line (direction Ventimiglia)
	Eloc. di Varzo	2 968 m	01.06.1906			Simplon line
	Exilles	2 070 m	17.09.1871			Mont Cenis line
	Fabro	3 284 m				Roma - Firenze
	Fantino	1 155 m	26.08.1888			Faentina Ravenna - Firenze
	Firenze Nord	2 360 m	2006			Bologna - Firenze
	Firenzuola	15 060 m	2006			Bologna - Firenze
	Fireze Sud	3 570 m	2006			Firenze - Roma
	Fleres	7 431 m	7.03.2000			
	Fontanellato	1 635 m	2006			Milano - Bologna
	Fossato	1 908 m	29.04.1866			Ancona - Roma
	Francica	6 093 m	1971			Napoli - Regio di Calabria
	Gigne	1 186 m	30.10.1928			Tenda line (direction Ventimiglia)
	Giovi	3 259 m	18.12.1853			1st line Torino - Genova
	Gittana	1 225 m				Lecco-Sondrio
	Giulia	4 755 m	1979			Genova - Ventimiglia
	Granarolo	2 880 m	6.1962			Genova bypass
	Gropo San Giovanni	2 489 m	01.08.1894			Pontremolese Parma - La Spezia
	La Botte	1 185 m				Roma- Napoli
	La Fornace	1 611 m				Roma - Firenze
	Latereto	1 154 m				Roma - Firenze
	Le Piche S. Rocco	4 047 m				Udine - Tarvisio
	Leila	3 229 m	1988			Udine - Tarvisio - Austria
	Lonato	4 800 m	2006			TAV, Milano - Venezia
	Maccagnana	2 274 m	01.08.1894			Pontremolese Parma - La Spezia
	Madonna delle Grazie	3 429 m	Grazie			Milano - Genova
	Maiella	2 485 m	18.09.1892			Sulmona - Isernia
	Malborghetto	8 000 m	1986			
	Marianopoli	6 422 m	8. 1885			Longest in Sicilia
	Martini	1 370 m	01.08.1894			Pontremolese Parma - la Spezia
	Massimo	1 139 m				Roma - Napoli
	Meana	1 100 m	17.09.1871			Mont Cenis line
	Mesco	3 034 m	1864			La Spezia - Genova
	Mogliònico	3 507 m	29.10.1922			Bari - Montalbano Ionico
	Mombello	1 075 m				Sesto Cal. - Pino CH
	Monte Adone	7 135 m	21.04.1934			Diretissima Bologna-Firenze
	Monte Berici	8 000 m	2006			Milano - Venezia
	Monte Bibebe	9 101 m	2006			Bologna - Firenze
	Monte Bove	3 939 m	30.07.1888			Roma - Sulmona
	Monte Leila	2 930 m	1989			Udine - Tarvisio - Austria
Monte Lupacino	7 571 m	14.03.1959			La Spezia - Lucca	

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Italy	Monte Olimpino 2	7 207 m	19.06.1990			Freight/express bypas of Como
	Monte Pagano	3 110 m	18.09.1897			Sulmona - Isernia
	Monte Palis	3 730 m				Udine - Tarvisio
	Monte Piazze	1 300 m				Lecco - Sondrio
	Monte Santomarco	15 040 m	1987			Paola - Cosenza
	Monte Totila	2 175 m	18.09.1897			Sulmona - Isernia
	Monte Zucco	2 850 m	2003			Treviso - Calalzo
	Monte-Cellarino	3 176 m				Roma - Firenze
	Monte-Massico	5 377 m	1927			Roma - Napoli
	Monte-Perazzo	3 093 m				Roma - Firenze
	Monterosso" succursale"	1 770 m	15.04.1889			2nd line Torino-Gènova
	Monterotondo	11 050 m				Milano - Gènova
	Montescuro	2 186 m	18.06.1934			Cosenza - San Giovanni in Fiore
	Mont'Orso	7 561 m	1927			Roma - Napoli
	Monzagnano AVECCHINO	2 053 m	08.04.1890			Faentina Ravenna - Firenze
	Mormanno	1 507 m	01.07.1931			Lagonegro - Spezzano Albanese
	Orte	9 317 m	1980			Roma - Firenze
	Passante	7 870 m				Milano, 6 km opened since 1998
	Peloritana	5 345 m	2000			Messina - Villafranca
	Peloritano	13 000 m	2002			Messina - Palermo, single track
	Piandisetta	3 052 m	21.04.1934			Direttissima Bologna - Firenze
	Pietrafitta	1 786 m	30.07.1888			Roma - Sulmona
	Poggio Orlandi	1 200 m	1988			Firenze-Roma
	Pratolino	3 584 m	08.04.1890			Faentina Ravenna - Firenze
	Preglia	1 092 m	01.06.1906			Simplon line
	Puin	5 345 m				Milano - Gènova
	Quattro Venti	2 400 m				Roma Trastevere - S. Pietro
	Raticosa	10 367 m	2006			Bologna - Firenze
	Riola	1 384 m	01.12.1863			Old line Bologna-Pistoia-Firenze
	Ronchi	1 275 m				Lecco - Sondrio
	Ronco	8 291 m	05.04.1889			Milano - Genova
	Rosa	1 580 m	01.07.1931			Lagonegro - Spezzano Albanese
	Rossa	1 297 m	29.04.1866			Ancona - Roma
	Sadurano	3 855 m	2006			Bologna - Firenze
	San Donato	10 954 m	1986			
	San Francesco	2 600 m	1986			Bari - Taranto
	San Leopoldo	5 915 m	1988			Udine - Tarvisio - Austria
	San Lorenzo	1 415 m				Roma - Firenze
	San Mario	1 010 m				Roma - Firenze
	San Martino	1 305 m				Roma - Firenze
	San Oreste	5 710 m	1976			Roma - Firenze
	San Rocco	1 175 m				Lecco-Sondrio
	San Venanzio	1 018 m	30.10.1883			Terni - Sulmona
	San Vito	1 300 m	1987			Firenze - Empoli
	San-Giorgio	4 370 m	1971			Napoli - regio di Calabria
	Santa-Lucia Basis	10 200 m	1977			Neapel - Reggio di Calabria
	Sant'Andrea a Sveglia	1 183 m	08.04.1890			Faentina Ravenna-Firenze
	Sant'Angelo	1 277 m	02.08.1915			Paola - Cosenza
	Sant'Angelo	1 156 m	30.10.1883			Terni - Sulmona
	Santo Stefanoi	3 103 m	1988			Gènova - Ventimiglia - France
Sasso del Fero	2 905 m	1864			Luino - CH	

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Italy	Scheggiano	3 559 m				Bologna - Firenze
	Sciliar	13 159 m	1993			(Verona - Brennero)
	Scorano	1 028 m	15.11.1888			Pontremolese Parma - La Spezia
	Sella	2 309 m	28.09.1874			Savona Torino
	Serre de la Voute	1 094 m	17.09.1871			Mont Cenis line
	Sgurgola	2 237 m				Roma - Napoli
	Signorino	1 073 m	03.09.1864			Old line Bologna – Pistoia - Firenze
	Solignano	1 572 m	01.08.1894			Parma - La Spezia
	"Pontremolese"					
	Starza	2 600 m	11.03.1871			Foggia - Benevenuto
	Stefana	4 356 m	1971			Napoli - regio di Calabria
	Stresa	1 125 m				Milano - Paris
	Taggia	8 000 m	2001			Genova - Ventimiglia - Nice (F)
	Talleto	2 700 m	1988			Firenze - Roma
	Targia	3 300 m	1989			Bicocca - Siracusa
	Tasso	2 293 m	1988			Roma -Firenze
	Terranuova le Ville	2 672 m	1988			Firenze - Roma
	Trasquera	1 701 m	01.06.1906			Simplon line
	Trivolzio	1 758 m				Milano - Gènova
	Turchino	6 448 m	18.06.1894			Gènova - Asti
	Vaglia	18 561 m	2006			Bologna - Firenze Breakthrough 17.04.2001
	Valico	16 569 m				Milano - Gènova
	Vasto	5 000 m	1993			
	Vergondola	2 671 m				Trento - Malè
	Visone	1 223 m	18.06.1894			Gènova-Asti
	Vivola	7 355 m	1927			Roma - Firenze
	Zuc del Bor	9 270 m	1997			Udine - Tarvisio - Austria
	Alice Bel Colle	1 946 m	18.06.1894			Gènova - Asti
	Caprareccia	1 962 m	06.11.1926			Spoletto - Norcia
	Pianoro	10 711 m	2006			Bologna - Firenze
Salto del Cavallo	1 249 m	26.08.1888			Faentina Ravenna-Firenze	
Italy - Switzerland	Monte Olimpino	1 950 m				Milano - Chiasso
	Simplon-I	19 803 m	01.06.1906	1	1+1	Simplon line
	Simplon-II	19 824 m	16.10.1922	1	1+1	Simplon line
Macedonia	Bucovic	7 047 m	1967			
Netherlands	Botlekspoor	3 065 m				two tubes
	Groene Hart	8 000 m	5.2005			TGV Amsterdam - Rotterdam - Antwerpen
	Pannerdensch Kanaal	1 615 m	2003			Europoort - Zevenaar
	Ringvaart	6 000 m	2005			TGV Amsterdam - Rotterdam - Antwerpen
	Sophiaspoor	7 800 m	2003			BETUWE lin Rotterdam - Europort
	Zevenaar	2 300 m	2003			Europoort - Zavenaar
Norway	Arnanipa	2 190 m	1964			Bergen - Oslo
	Drangsdal	2 163 m	1931			Stavanger - Oslo
	Drølli	1 181 m				Hamar-Støren Rørosbanen
	Gravhalsen	5 311 m	01.12.1909			Bergen - Oslo
	Gyland	5 717 m	1943			Stavanger - Oslo
	Hægebostad	8 474 m	1943			Oslo - Stavanger
	Hananipa	6 096 m	1970			Voss - Bergen
	Haversting	2 300 m	1930			Bergen - Oslo
	Hernes	3 336 m	1962			Bergen - Oslo
Hestekrybba	1 463 m	20.09.1921			Dombås - Trondheim	

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Norway	Kvålsås	4 923 m	1988			Bergen - Oslo
	Kvineshei	9 065 m	1943			Oslo - Stavanger
	Medjå	2 549 m	1940			Trondheim - Bodø
	Nåli	1 328 m	01.05.1942			Myrdal - Flåm
	Oslo	3 632 m	1980			Oslo S. - Skøyen
	Reinunga	1 593 m	01.12.1909			Oslo - Bergen Bergensbanen
	Romeriksporten	14 580 m	1999			Oslo - Gardermoen airport
	Sira	3 177 m	1943			Stavanger - Oslo
	Stavem	1 396 m				Dombås - Åndalsnes
	Svarthammer	2 075 m	1962			Trondheim - Bodø
	Trollkona	8 043 m	1987			Voss - Bergen
	Tronås	3 178 m	1943			Stavanger - Oslo
	Tyholt	2 760 m	1957			Trondheim
	Ulriken	7 670 m	1964			Voss - Bergen
	Lieråsen	10 723 m	1973			Oslo - Drammen
	Finse	10 589 m	1993			Oslo - Bergen
Poland	Landeshuter Kamm	1 030 m	1882			Hirschberg - Landeshut
Portugal	Caíde	1 086 m	09.12.1887			Porto - Barca d'Alva
	Grande Salgueiral	1 096 m	01.07.1882			Figueira da Foz - Vilar Formoso
	Juncal	1 562 m	09.12.1887			Porto - Barca d'Alva
Romania	Teliuc	4 370 m	1971			Napoli - regio di Calabria
Russia	Amur	6 500 m	1984			Baikal - Amur line
	Hingan	3 078 m	1904			Great Chingan
	Novo Kusnetzkij	12 200 m	1957			
	Severomuyskiy	15 300 m	1984			Baikal - Amur line
Serbia/Montenegro	Goles	4 949 m				Beograd - Bar
	Milici	2 258 m				Beograd - Bar
	Mojkovac	3 243 m				Beograd - Bar
	Ostrovica	3 827 m				Beograd - Bar
	Sozina	6 171 m				
	Zlatibor	6 139 m				
	Sopotnica	1 942 m				Between Beograd and Bar
Serbia-Bosnia	Trebesica	5 122 m				Trebesica (Beograd - Bar)
Slovakia	Banskoštiavnický	1 195 m	1949			Hronská Dúbrava-Banská Štiavnica
	Bralský	3 012 m	10.1931			Prievidza - Horná Štubna
	Bujanovský	3 411 m	21.06.1955			Kosice - Žilina
	Cremonošianský	4 697 m	1940			Banska Bystrica - Diviaky, Longest tunnel ZSR
	Grehelský I	1 300 m				Banska Bystrica - Diviaky
	lapenský I	1 134 m				Banská Bystrica - Diviaky
	Jablonovský	3 145 m	1954			
	Pod Dielikom	2 003 m	1944			Slavošovce-Chyžnian Voda (Lubeník)-Revúca
	Slavošovský	2 750 m	1944			Slavošovce - Chyžnian Voda (Lubeník)
	Štefánika	2 422 m	1923			Vrbovce - Nové Mesto nad Vahom
Telgártsky	1 239 m	01.10.1934			Cervená Skala Margecany	
Slovenia	Bohinj (Podbrdo)	6 339 m	01.10.1906			Jesenice - Gorizia (Italy)
Spain	Bilbao	1 072 m	02.03.1863			Miranda de Ebro - Bilbao
	Camba I	1 102 m	08.09.1958			Linea de Sierra de la Culebra
	Camba II	1 549 m	08.09.1958			Linea de Sierra de la Culebra

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Spain	Canda	2 008 m	08.09.1958			Linea de Sierra de la Culebra
	Canellón	1 267 m	08.09.1958			Linea de Sierra de la Culebra
	Congestinas	1 170 m	14.08.1884			Madrid-Asturias (León-Gijón)
	Corno	2 471 m	08.09.1958			Linea de Sierra de la Culebra
	De Argentera	4 044 m				Madrid - Barcelona
	De Bubierca	1 867 m				Madrid – Barcelona (direct. north)
	De Fayon	1 848 m				Madrid - Barcelona
	De Horna	1 012 m				Madrid - Barcelona
	De Palancares	2 302 m				Cuenca - Utiel
	Dural	1 905 m				Palencia - La Coruna
	El Capricio	1 822 m	14.08.1884			Madrid - Asturias (León – Gijón)
	El Lazo	1 044 m	04.02.1882			Palencia - La Coruna (León - Ponferrada)
	El Orrta	1 059 m	14.08.1884			Madrid - Asturias
	Engana	6 976 m				Abandoned
	Espilde	1 404 m	08.09.1958			Linea de Sierra de la Culebra
	Fojo del Cabrito	1 606 m	08.09.1958			Linea de Sierra de la Culebra
	Guadarrama	2 380 m	01.07.1888			Madrid - Segovia - Medina del Campo
	Helicoidal	1 057 m	22.10.1922			Toulouse - Barcelona
	La Perruca (Pajares Pass)	3 071 m	14.08.1884			Madrid - Asturias (Leon - Gijon)
	La Pisona	1 024 m	14.08.1884			Madrid - Asturias (León Gijón)
	La Sorda	1 077 m	14.08.1884			Madrid - Asturias (León - Gijón)
	Las Fregas	1 008 m				Palencia - La Coruna
	Lubián	1 713 m	08.09.1958			Linea de Sierra de la Culebra
	Navalgrande	1 004 m	01.07.1863			Madrid – Avila - Medina del Campo
	Oazurza	2 955 m	15.08.1864			Alsasua - Irún
	Otzaurte	1 158 m	15.08.1864			Alsasua - Irún
	Padornelo	5 949 m	08.09.1958			Linea de Sierra de la Culebra
	Padrun	1 725 m				Madrid - Asturias
	Paradas	1 232 m	08.09.1958			Linea de Sierra de la Culebra
	Pequena	1 569 m	08.09.1958			Linea de Sierra de la Culebra
	Pereiro	1 064 m	08.09.1958			Linea de Sierra de la Culebra
	Reinosa	1 276 m	08.07.1866			Reinosa - Torrelavega
	Salgueiros	1 566 m	08.09.1958			Linea de Sierra de la Culebra
	Somosierra	3 895 m				Madrid - Burgos
Tabaza	2 000 m	1965			Private line Avilès-Verina near Gijón	
Tosas	3 904 m	22.10.1922			Toulouse - Barcelona	
Vista Alegre	1 828 m	08.09.1958			Linea de Sierra de la Culebra	
De la Olmedilla	1 884 m				Cuenca - Utiel	
Sweden	City	6 000 m	2007			Malmö, PRJ 2002
	Hallandsås	8 600 m	?			Malmö - Göteborg, 2 tubes, stopped in 1997
	Hjolta	1 260 m	2002			
	Kalldal	1 100 m	2001			
	Nuolja	1 052 m	15.11.1902			Luleå - Narvik Ofotbanen
Switzerland	Adler	4 260 m	2006			Basel - Olten
	Adler	5 345 m	04.12.2000			Basel - Olten
	Albis	3 360 m	1897	1	1	Gotthard line (access line via Thalwil - Zug)
	Albula	5 865 m	01.07.1903	1	1	Chur . St. Moritz
Switzerland	Allenwinden	2 107 m	01.06. 1882			Gotthard line
	Axenbergl	1 126 m	01.06.1882			Gotthard line
	Bözberg (new)	3 259 m	1995			Basel - Zürich

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Switzerland	Bözberg (old)	2 526 m	02.08.1875			Basel - Zürich
	Bruggwald	1 731 m	03.10.1910			Zurich - St. Gallen
	Calmot	1 094 m	03.07.1926			Old Furka line
	Ceneri-Basis	15 000 m	2015			
	Dettenberg	1 800 m	1876			Winterthur - Bülach
	Eloc. Freggio	1 568 m	01.06.1882			Gotthard line
	Eloc. Pianotondo	1 508 m	01.06.1882			Gotthard line
	Eloc. Prato	1 560 m	01.06.1882			Gotthard line
	Eloc. Travi	1 547 m	01.06.1882			Gotthard line
	Emme	1 600 m	2005			Olten - Bern
	Frohnapf	2 793 m	1948			Gotthard line
	Furka	1 874 m	03.07.1926			Old Furka line
	Furka Base tunnel	15 442 m	25.06.1982	1	1	Andermatt - Brig/reopened for tourism in 2000
	Glovelier	2 009 m				Delemont - Boncourt
	Gothard	15 003 m	1882	1	2	
	Gothard	56 900 m	2010			AlpTransit
	Grauholz	6 301 m	1995	1	2	Olten - Bern
	Grenchenberg	8 578 m	01.10.1915	1	1	Bern . Basel
	Hagenholz	2 837 m	1980	1	2	
	Hauenstein (old)	2 495 m	1.05.1858			Basel - Olten
	Hauenstein Base	8 134 m	08.01.1916	1	2	Basel - Olten
	Heitersberg	4 929 m	1975	1	2	Zürich - Olten
	Hirschengraben	1 246 m	1989	1	2	
	Hohtenn	1 348 m	15.07.1913			Lötschberg line
	Hondrich I	1 607 m	15.07.1913			Lötschberg line
	Hondrich II	1 710 m	1987			Lötschbergbahn
	Jaman	2 424 m	06.07.1905			Montreaux - Berner Oberland
	Jungfrau	7 122 m	1912	1	1	
	Käferberg	2 119 m	1969	1	2	
	Kerenzerberg	3 995 m	1961	1	2	Zürich - Chur
	La Raisse	1 250 m				Lausanne - Neuchatel
	La-Croix	2 966 m				Delemont - Boncourt
	Leggistein Wendet	1 090 m	01.06.1882			Gotthard line
	Leuk	1 375 m	2009			Simplon line
	Loges	3 259 m	15.07.1860	1	1	Jura line
	Lopperberg I	1 186 m	23.08.1916			Luzern-Interlaken
	Lopperberg II	1 760 m	05.10.1898			Hergiswil - Engelberg
	Lötschberg	34 600 m	2007			Tunnel concept
	Lötschberg	14 612 m	15.07.1913	1	2	Lötschberg line
	Mittalgraben-II	3 298 m	1991	1	1	Spiez - Brig
	Mont Sagne	1 355 m	27.1.1859			Jura Line
	Mont-d'Or	6 099 m	1915	1	1	
	Monte Cèneri I	1 675 m	01.06.1882			Gotthard line
	Monte Cèneri II	1 692 m	01.06.1882			Gotthard line
	Morschach II	1 372 m	1946			Gotthard line
	Murgental	4 700 m	19.12.2004			Olten - Bern
	Naxberg	1 570 m	01.06.1882			Gotthard line
	Oenzberg	3 200 m	19.12.2004			Olten - Bern
	Ölberg	1 987 m	01.06.1882			Gotthard line
	Pfaffensprungkehre	1 476 m	01.06.1882			Gotthard line
	Pierre-Pertuis	1 294 m	30.03.1877			Biel - Delémont

Country	Tunnel	Length	Date opened	Tub.	Trac.	Line/Location
Switzerland	Ricken	8 603 m	03.10.1910	1	1	Zurich - St. Gallen
	Rindschuck	1 536 m	15.07.1913			Lötschberg line
	Rosenberg	1 465 m	03.10.1910			Zurich - St. Gallen
	Rosshäusern	1 103 m	1902			Bern - Neuchatel
	Schanze	1 200 m	1965	1	2	
	Schwamendingen	2 161 m	1986	1	2	
	St. Aubin-Sauges	2 250 m	30.05.1999			Bern - Lausanne
	St. Gotthard	15 003 m	01.06.1882			Gotthard line (first train 23.05.1882)
	Stutzeck-Axenber	3 375 m	1942	1	1	Gotthard Line (Arth-Goldau-Bellinzona)
	Tasna	2 351 m	01.07.1913			Bever - Scuol
	Thalwil	9 422 m	01.06.2003			(Line Zurich-Gothard)
	Varen	2 800 m	2009			Simplon line
	Vauderens	1 785 m	2001			Bern - Lausanne
	Vereina	19 043 m	19.11.1999	1	1	(single track)
	Wasserfluh	3 556 m	03.10.1910	1	1	Zürich - St. Gallen
	Wattinger Wendet	1 084 m	01.06.1882			Gotthard line
	Weissenstein	3 699 m	01.08.1908	1	1	Solothurn - Moutier
	Wendetunnel	1 655 m	15.07.1913			Lötschberg line
	Zimmerberg-Base	19 700 m	2013			Planned elongation of Zürich - Zalwil (9400 m)
	Zugwald	2 160 m	1999			Vereinalinie
Zürichberg	4 830 m	1990	1	2		
Horgen	1 985 m	01.06.1882			Gotthard line (access line via Zug)	
Magnacun Bever	1 909 m	01.07.1913			Scuol	
Turkey	Ayrun	4 904 m				Amanus mountains
United Kingdom	Blea Moor	2 404 m	01.05.1876			Leeds - Carlisle
	Box	2 939 m	1841			Box - Corsham
	Branhope	3 438 m				
	Chipping-Sodbury	4 063 m				
	Cowburn	3 384 m				
	Disley	3 534 m				
	Festiniog	3 523 m				
	Kilsby	2 195 m				
	North Downs	3 168 m	10.2003			London - Birmingham
	Rhonda	3 160 m				Channel Tunnel Rail-link
	Standedge	4 886 m				
	Totley	5 696 m				
	Woodhead new	4 888 m	1953			Manchester - Sheffield
	Woodhead old I	4 848 m	22.12.1845			Manchester - Sheffield
Woodhead old II	4 840 m	02.02.1852			Manchester - Sheffield	
USA	Flathead	11 300 m	1970			
	Hoosac	7 645 m	1874			136 miles from Boston
	Moffat	9 996 m	2.1928			Denver - Salt Lake City
	New Cascade	12 537 m	1929			Seattle - Saint Paul