



LATVIJAS DZELZCEĻŠ



2017

**PERFORMANCE
INDICATORS OF PUBLIC
RAIL NETWORK IN LATVIA**

Contents

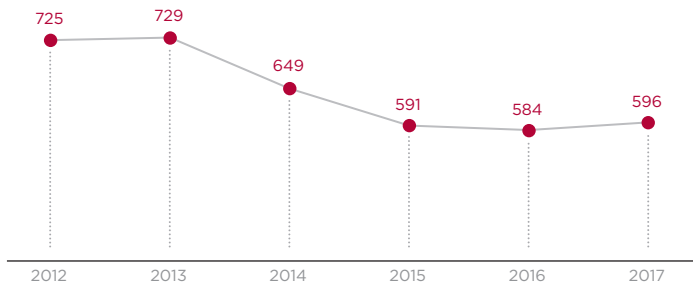
1. Indicators of SJSC „Latvijas dzelzceļš” rail infrastructure network	
1.1. Passenger transportation	3
1.2. Freight transportation	4
1.3. Freight transportation by type of freight	5
1.4. Main indicators of train traffic	6
1.5. Technical indicators of railway network	7
1.6. Latvian rail network	11
2. Indicators of “Latvijas dzelzceļš” Concern	
2.1. Locomotive fleet	12
2.2. Number of personal computers	12
2.3. Freight wagon fleet	13
3. Comparative traffic data of the main transport modes in Latvia	14

1. Indicators of SJSC „Latvijas dzelzceļš” rail infrastructure network

1.1. Passenger transportation

	2012	2013	2014	2015	2016	2017
1. Total passenger turnover, million passenger-km	725	729	649	591	584	596
1.1. <i>including:</i> domestic traffic	640	640	578	545	546	555
2. Passengers carried, thousand	19 757	19 779	19 222	17 070	17 228	17 494
2.1. <i>including:</i> domestic traffic	19 409	19 419	18 938	16 885	17 071	17 327
3. Passenger average traffic distance, km						
3.1. Electric trains	26	26	25	26	26	25
3.2. Diesel trains	97	101	93	97	94	95

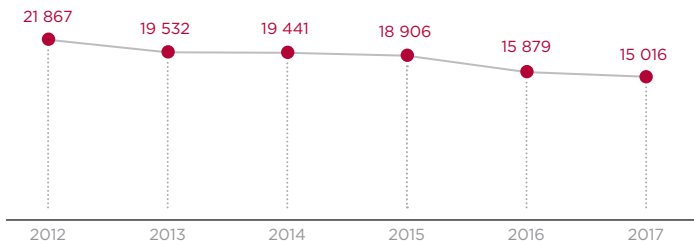
Total passenger turnover, million passenger-km



1.2. Freight transportation

		2012	2013	2014	2015	2016	2017
1.	Freight turnover, million tkm neto	21 867	19 532	19 441	18 906	15 879	15 016
2.	Freight volume, thousand tonnes, <i>including:</i>	60 601	55 831	57 039	55 645	47 819	43 785
2.1.	domestic	1 429	1 178	1 257	1 672	1 482	1 649
2.2.	export	4 886	4 356	4 521	2 849	2 384	1 839
2.2.1.	<i>including:</i> from stations at ports	2 983	1 784	1 698	1 334	1 395	1 488
2.3.	import	49 728	47 669	49 408	48 276	42 036	36 617
2.3.1.	<i>including:</i> to port stations	46 052	43 456	45 343	44 105	38 085	33 549
2.4.	overland transit	4 558	2 628	1 853	2 848	1 917	3 680

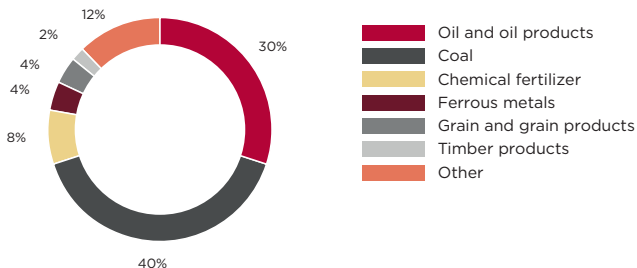
Freight turnover, million tkm neto



1.3. Freight transportation by type of freight

		2012	2013	2014	2015	2016	2017
1.	Freight volume, thousand tonnes, including:	60 601	55 831	57 039	55 645	47 819	43 785
1.1.	coal	22 454	21 173	20 134	19 095	15 911	17 689
1.2.	oil and oil products	18 372	21 732	21 293	21 764	16 624	13 014
1.3.	chemical fertilizers	3 729	3 428	4 738	3 777	3 876	3 288
1.4.	ferrous metals	1 757	1 883	1 650	1 256	1 797	1 836
1.5.	grain and grain products	2 188	878	1 447	1 819	1 697	1 757
1.6.	timber products	894	875	982	1 498	1 572	1 085
1.7.	other	11 207	5 862	6 795	6 436	6 342	5 116

Rate of freight transportation in 2017



1.4. Main indicators of train traffic

		2012	2013	2014	2015	2016	2017
1.	Total train-kilometres, thousand, including:	20 330	18 913	19 030	18 577	16 516	15 665
1.1.	Train-kilometres in passenger traffic of which by type of traction:	6 289	6 199	6 163	6 125	6 059	6 075
1.1.1.	<i>diesel</i>	2 057	1 981	1 960	1 999	2 077	2 079
1.1.2.	<i>electric</i>	3 598	3 594	3 591	3 591	3 605	3 619
1.2.	Train-kilometres in freight traffic	13 127	11 816	11 835	11 528	9 677	8 844
1.3.	Technological	914	898	1 032	924	780	746
2.	Gross ton-kilometres in passenger traffic, million	1 831	1 840	1 819	1 732	1 719	1 745
3.	Gross ton-kilometres in freight traffic, million	38 731	35 210	34 389	35 004	28 632	26 960
4.	Consumption of diesel fuel, thousand liters	90 678	81 015	79 961	75 604	62 159	55 725

1.5. Technical indicators of railway network

1.5.1. Railway tracks

		2012	2013	2014	2015	2016	2017
1.	Operational length of all lines, km	1 859	1 859	1 860	1 860	1 860	1 860
1.1.	Operational length of broad-gauge lines, km	1 826	1 826	1 827	1 827	1 827	1 827
1.1.1.	<i>including:</i> double-track and more	300	316	363	367	367	367
1.2.	Operational length of narrow-gauge lines, km	33	33	33	33	33	33
2.	Overall length of lines, km	3 115	3 108	3 153	3 171	3 170	3 167
3.	Overall length of main line tracks (total), km	2 161	2 161	2 214	2 217	2 217	2 217
3.1.	Overall length of station tracks and special tracks, km	810	808	803	819	819	817
4.	Length of welded-rail tracks, km	1 932	1 932	2 004	2 012	2 029	2 049
5.	Length of main lines with concrete sleepers, km	2 021	2 032	1 926	2 097	2 110	2 132
6.	Length of main lines with hardened rails, km	1 333	1 355	1 582	1 616	1 654	1 678
7	Length of spur tracks, km	144	139	137	135	134	134

1.5. Technical indicators of railway network

1.5.2. Signalling, remote control, telecommunication, power supply and data processing facilities (1)

		2012	2013	2014	2015	2016	2017
1.	Total number of switches	3 198	3 201	3 180	3 218	3 208	3 198
1.1.	<i>including:</i> number of electrically interlocked switches	2 521	2 519	2 570	2 616	2 611	2 607
2.	Number of stations equipped with electrical interlocking	162	162	159	162	162	162
3.	Length of sections equipped with automatic block system (including dispatcher centralization), km	1 323	1 323	1 323	1 348	1 348	1 348
4.	Length of sections equipped with radio communication, km	1 750	1 750	1 743	1 746	1 746	1 746
5.	Length of mainline communications cables, km	2 461	2 342	3 365	3 051	2 420	2 298
6.	Length of optical communications cable, km	1 915	2 353	2 426	2 710	2 953	2 960
7.	Total capacity of automatic telephone stations, number of customer numbers	15 144	14 888	14 760	14 472	11 536	8 898
8.	Hot box detection devices (PONAB,DISK), units/stations	58/58	58/58	58/58	58/58	58/58	58/58
9.	Number of mobile electric power stations	15	13	14	14	14	14

1.5. Technical indicators of railway network

1.5.2. Signalling, remote control, telecommunication, power supply and data processing facilities (2)

		2012	2013	2014	2015	2016	2017
10.	Number of static diesel power stations	133	217	215	243	243	243
11.	Overall length of catenary, km	626	620	629	637	637	637
12.	Operational length of electrified lines, km	250	248	251	251	251	251
13.	Number of transformer substations	623	623	623	571	580	580
14.	Electric power consumption for operations, million KWh/year	48	45	44	45	49	45
15.	Total number of servers, including:	119	93	105	154	181	211
15.1.	mainframe	2	2	2	2	2	2
15.2.	medium and small servers	117	91	103	152	179	209

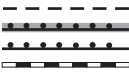
1.5. Technical indicators of railway network

1.5.3. Railway stations*

		2012	2013	2014	2015	2016	2017
1.	Number of stations (stop points) with passing tracks, total, including:	152	153	153	152	137	137
1.1.	passenger	1	1	1	1	1	1
1.2.	marshalling	2	2	2	2	2	2
1.3.	freight	33	34	34	34	10	10
1.4.	section	4	4	4	4	4	4
1.5.	line	112	112	112	111	120	120
2.	Number of shunting loops (including block-signal posts and track posts)					22	22
3.	Number of stations with freight operations	76	76	76	77	78	78
4.	Major railway junctions	6	6	6	6	6	6

* - Since 2016 stations accounting by service was changed

1.6. Latvian rail network



Narrow-gauge track
Centralized train control & automatic line block system
Automatic line block system
Electrified sections

2. Indicators of “Latvijas dzelzceļš” Concern

2.1. Locomotive fleet

2.2. Number of personal computers

		2012	2013	2014	2015	2016	2017
1.	Locomotive fleet						
1.1.	Number of diesel locomotives (units), including:	202	202	206	204	200	194
1.1.1.	2TE10, 2TE116	29	29	30	34	34	34
1.1.2.	M62, 2M62U, 2M62UC, 2M62UP, 2M62UM	99	99	99	92	87	81
1.1.3.	ČME3, ČME3M, ČME3ME, ČME3MB, TEM2, TEM2U, TGM23V	63	64	67	69	70	70
1.1.4.	TEP-70	11	10	10	9	9	9
1.2.	Number of diesel multiple unit	2	2	2	2	2	2
1.3.	Run of diesel locomotives and diesel multiple units, thousand km	12 184	11 004	11 351	9 814	8 786	7 435
1.4.	Desel fuel consumption, thousand litres (LLC “LDZ CARGO”)	65 577	58 247	59 259	48 376	42 936	35 199
2.	Number of personal computers	3 394	3 477	3 493	3 572	3 580	3 486

2.3. Wagon inventory fleet with the rights to move on the public serviss tracks of Latvian railway and other railways on December 31st

		2012	2013	2014	2015	2016	2017
1.	Total number of freight wagons, including:	6 320	6 815	7 011	6 522	5 696	5 692
1.1.	boxcars	1 688	1 886	1 986	1 942	1 423	1 423
1.2.	flat wagons	74	39	39	39	39	39
1.3.	open wagons	1 115	1 115	1 115	766	514	514
1.4.	tank cars	1 216	1 216	1 216	1 120	1 064	1 064
1.5.	isothermal wagons	33	27	27	27	27	27
1.6.	other	2 194	2 532	2 628	2 628	2 629	2 625

3. Comparative traffic data of the main transport modes in Latvia (data of Latvian Central Statistical Bureau)(1)

3.1. Passengers carried, million

3.2. Passenger turnover, million passenger-km

		2012	2013	2014	2015	2016	2017
1.	Passengers carried, million						
1.1.	Rail	19,8	19,8	19,2	17,1	17,2	17,5
1.2.	Road (regular bus traffic)	146,6	147,2	146,1	144,4	142,9	140,2
1.3.	Air	3,2	3,0	3,0	3,2	3,5	4,0
1.4.	Urban electrical transport	-	-	-	87,9	84,6	85,1
2.	Passenger turnover, million passenger-km						
2.1.	Rail	725	729	649	591	584	596
2.2.	Road (regular bus traffic)	2 358	2 332	2 345	2 232	2 187	2 150
2.3.	Air	3 715	3 537	3 318	4 110	4 622	5 265

3. Comparative traffic data of the main transport modes in Latvia (data of Latvian Central Statistical Bureau) (2)

3.1. Freight volume, thousand tonnes

3.2. Freight turnover, million tkm netto

		2012	2013	2014	2015	2016	2017
1.	Freight volume, thousand tonnes						
1.1.	Rail transport	60 601	55 831	57 039	55 645	47 819	43 785
1.2.	Road transport	52 621	60 610	62 239	62 569	63 389	68 012
1.3.	Pipeline transport	6 308	5 466	5 694	4 718	3 617	3 387
1.4.	Air transport	19	14	15	13	12	14
2.	Freight turnover, million tkm netto						
2.1.	Rail transport	21 867	19 532	19 441	18 906	15 879	15 016
2.2.	Road transport	12 178	12 816	13 670	14 690	14 227	14 972
2.3.	Pipeline transport	2 631	2 279	2 376	1 965	1 507	1 411
2.4.	Air transport	13	11	13	9	11	13



LATVIJAS DZELZCEĻŠ

Gogoļa Str. 3, Rīga, LV-1547, Latvia
Phone: 8000 1181
E-mail: info@ldz.lv



www.ldz.lv