

Latvian State Roads Yearbook





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Introduction

The economic recession in 2009 seriously influenced the road sector. State budget funding was dramatically reduced. In general the year 2009 was an enormous step back and the road financing decreased to the level of 2006. At the same time tender prices decreased due to growing competition in construction market and construction works were performed for comparatively lower costs.

The renewal of state roads continued during the crisis owing to the co-financing from European Union structural funds. Roads with bituminous pavements were reconstructed, renewed or build in the total length of 222 km and 8 bridges were reconstructed in the total length of 338.5 m. Some of the most remarkable projects are the reconstructed overpass on the Riga bypass / road A5 over the road A10, as well as, the completed section Jēkabpils – Varakļāni of the European transit network route E22. The works were started in sections from Riga bypass / road A4 to Koknese and from Ludza to Nirza. It is expected that in 2011 it will be possible to drive on a renewed and partly on a newly built road in the route from Riga bypass to Koknese. This project will certainly be a benefit for road users, as well as, for the whole country. In 2009 with the European co-financing the works started also in ten different sections on regional roads that connect regions and district centres, as well as, provide connection to state main roads.

In general the condition of road network continues to deteriorate even if the traffic intensity and amount declines. Already one fifth of roads with bituminous pavement and one third of roads with gravel pavement are assessed as collapsed and various restrictions are implemented on 44 bridges. The main cause is continuously insufficient financing of state roads.

However, there is good news. A trend may be observed that the number of killed or injured in traffic accidents continued to decrease. In 2009 there were one fourth less killed in car accidents in comparison to the year before. It was favoured not only by the decrease of traffic and the work of institutions providing traffic safety but also great attention paid to traffic safety improvements, including improvements for less protected traffic participants such as pedestrians and cyclists.

State Road Network

General

Territory of Latvia - 64 589 km².

Population as at December 31, 2009 - 2 248 400.

Total length of roads and streets – 73 074 km.

Average road network density – 1.132 km per 1 km².

Number of registered vehicles – 1 168 357, out of which 611 192 vehicles have passed vehicle inspection.

Number of registered vehicles per 1000 inhabitants – 520.

Number of registered cars – 904 308, out of which 511 571 cars have passed vehicle inspection.

Number of registered cars per 1000 inhabitants – 402.

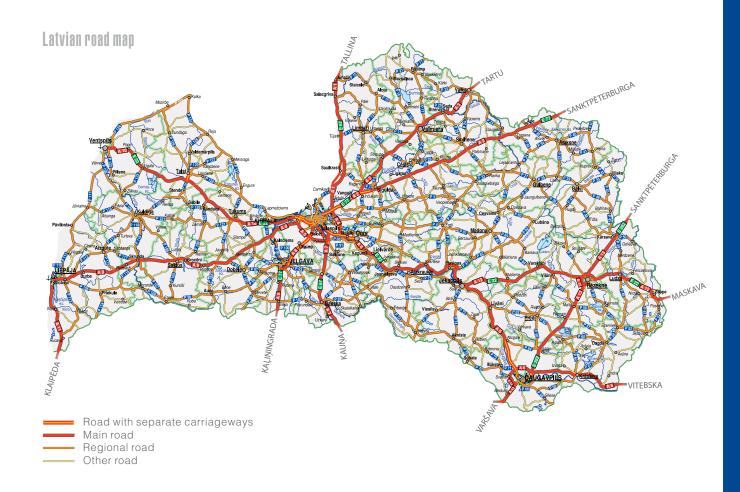
Total length of roads

| | Road leng | | | |
|------------------------------|---------------------|---|---------------------|--------|
| Classification of roads | Bituminous pavement | Crushed stone and gravel pavement | Without pavement | Total |
| State roads: | 8 322 | 11 855 | | 20 178 |
| Main roads (A) | 1 653 | | | 1 653 |
| Regional roads (P) | 4 039 | 1 287 | | 5 327 |
| Local roads (V) | 2 630 | 10 568 | | 13 198 |
| Municipal roads and streets: | 5 637 | 33 617 | | 39 254 |
| roads | 1 058 | 30 324 | | 31 382 |
| streets | 4 579 | 3 293 | | 7 872 |
| Forest roads | | 6 216 | 3 926 | 10 142 |
| Private roads | 500 | 3 000 | | 3 500 |
| Total roads and streets | 14 459 | 54 688 | 3 926 | 73 074 |

State roads

SJSC "Latvian State Roads" is responsible for roads with the total length of 20 178 km. The average density of state road network is $0.312 \text{ km per } 1 \text{ km}^2$.

SJSC "Latvian State Roads" is responsible for 932 bridges of which 876 are made of reinforced concrete, 15 – stone, 35 – steel and 6 – timber. The total length of bridges is 29 969 metres.



Value of state road network

According to data gathered by district units the total length of the state road network as at January 1, 2010, was 20 178 km including 1 653 km of main roads (8.2% of total road network), 5 327 km of regional roads (26.4%) and 13 198 km of local roads (65.4%).

The balance sheet value of the state road network including engineering structures and traffic organisation equipment as at January 1, 2010, was the following:

| Balance index | Main roads | Regional roads | Local roads | Total |
|-----------------|-------------|----------------|---------------|---------------|
| Initial value | 965 073 052 | 1 046 783 147 | 1 205 781 218 | 3 217 637 417 |
| Depreciation | 410 115 490 | 581 883 025 | 654 135 257 | 1 646 133 772 |
| Remaining value | 554 957 562 | 464 900 122 | 551 645 961 | 1 571 503 645 |

State road equipment and its value

| Unit | Amount | Value Lats |
|--------------------------------|-------------------------------------|------------|
| Barriers | 434.6 km | 12 899 268 |
| Traffic counting points | 93 items | 97 791 |
| Parking and rest areas | 216 items or 314 600 m ² | 2 919 543 |
| Road signs | 112 728 items | 7 901 355 |
| Steel girders | 113 items | 772 366 |
| Signal posts | 70 677 items | 747 531 |
| Vehicle pavilions | 1 540 items | 2 556 508 |
| Benches | 9 411 items | 194 817 |
| Bus stop extensions | 8 328 items | 9 837 344 |
| Pedestrian roads | 88.4 km | 3 925 322 |
| Pedestrian protective barriers | 11.7 km | 649 953 |
| Lighting | 3 275 items | 3 742 910 |
| Traffic lights | 114 items | 676 393 |
| Water drainage | 63 sets | 2 671 899 |
| Load weighing lanes | 4 items | 604 228 |
| Noise barriers | 1.07 km | 405 314 |
| Police stations | 1 item | 2 235 |

Total length of the state road network by district

| District | Total length of the road network | | Bituminous pavement | | Gravel pavement | |
|-----------------------|----------------------------------|------|---------------------|-------|-----------------|--|
| | km | km | % | km | % | |
| Aizkraukle | 747 | 270 | 36.1 | 477 | 63.9 | |
| Bauska | 710 | 257 | 36.2 | 453 | 63.8 | |
| Jelgava | 574 | 350 | 60.9 | 224 | 39.1 | |
| Ogre | 681 | 288 | 42.3 | 393 | 57.7 | |
| Rīga | 1013 | 823 | 81.2 | 190 | 18.8 | |
| Central region, total | 3725 | 1987 | 53.3 | 1738 | 46.7 | |
| Dobele | 583 | 204 | 35.0 | 379 | 65.0 | |
| Kuldīga | 728 | 333 | 45.8 | 394 | 54.2 | |
| Liepāja | 931 | 412 | 44.2 | 520 | 55.8 | |
| Saldus | 611 | 227 | 37.1 | 384 | 62.9 | |
| Talsi | 945 | 471 | 49.9 | 474 | 50.1 | |
| Tukums | 858 | 404 | 47.1 | 454 | 52.9 | |
| Ventspils | 675 | 310 | 45.9 | 365 | 54.1 | |
| Kurzeme region, total | 5331 | 2362 | 44.3 | 2969 | 55.7 | |
| Balvi | 613 | 226 | 36.9 | 386 | 63.1 | |
| Dagda | 807 | 280 | 34.7 | 527 | 65.3 | |
| Daugavpils | 853 | 395 | 46.3 | 458 | 53.7 | |
| Jēkabpils | 837 | 217 | 26.0 | 620 | 74.0 | |
| Ludza | 828 | 228 | 27.5 | 601 | 72.5 | |
| Preiļi | 665 | 235 | 35.3 | 430 | 64.7 | |
| Rēzekne | 859 | 329 | 38.3 | 530 | 61.7 | |
| Latgale region, total | 5463 | 1911 | 35.0 | 3552 | 65.0 | |
| Alūksne | 620 | 195 | 31.5 | 425 | 68.5 | |
| Cēsis | 1070 | 290 | 27.1 | 780 | 72.9 | |
| Gulbene | 592 | 201 | 33.9 | 391 | 66.1 | |
| Limbaži | 799 | 370 | 46.3 | 430 | 53.7 | |
| Madona | 1005 | 279 | 27.8 | 726 | 72.2 | |
| Smiltene | 775 | 346 | 44.7 | 428 | 55.3 | |
| Valmiera | 798 | 381 | 47.7 | 417 | 52.3 | |
| Vidzeme region, total | 5660 | 2062 | 36.4 | 3597 | 63.6 | |
| Total | 20178 | 8322 | 41.2 | 11855 | 58.8 | |

Total length of state main roads by district

| District | Total length of the road network | Including state main roads |
|-----------------------|----------------------------------|-------------------------------|
| _ | km | km |
| Aizkraukle | 747 | 58 |
| Bauska | 710 | 50 |
| Jelgava | 574 | 65 |
| Ogre | 681 | 44 |
| Rīga | 1 013 | 294 |
| Central region, total | 3 725 | 511 |
| Dobele | 583 | 15 |
| Kuldīga | 728 | 21 |
| Liepāja | 931 | 94 |
| Saldus | 611 | 51 |
| Talsi | 945 | 38 |
| Tukums | 858 | 79 |
| Ventspils | 675 | 49 |
| Kurzeme region, total | 5 331 | 346 |
| Balvi | 613 | - |
| Dagda | 807 | 46 |
| Daugavpils | 853 | 136 |
| Jēkabpils | 837 | 78 |
| Ludza | 828 | 84 |
| Preiļi | 665 | 57 |
| Rēzekne | 859 | 114 |
| Latgale region, total | 5 463 | 515 |
| Alūksne | 620 | 46 |
| Cēsis | 1 070 | 54 |
| Gulbene | 592 | - |
| Limbaži | 799 | 56 |
| Madona | 1 005 | - |
| Smiltene | 775 | 71 |
| Valmiera | 798 | 53 |
| Vidzeme region, total | 5 660 | 280 |
| Total | 20 178 | 1 653 |

Total length of state regional roads by district

| District | Total length of the road network | Bituminous pavement | Gravel pavement |
|-----------------------|----------------------------------|---------------------|--------------------|
| | km | km | km |
| Aizkraukle | 250 | 177 | 73 |
| Bauska | 176 | 115 | 60 |
| Jelgava | 168 | 159 | 9 |
| Ogre | 258 | 167 | 92 |
| Rīga | 235 | 235 | - |
| Central region, total | 1087 | 853 | 234 |
| Dobele | 169 | 141 | 29 |
| Kuldīga | 251 | 218 | 33 |
| Liepāja | 242 | 199 | 43 |
| Saldus | 164 | 107 | 57 |
| Talsi | 281 | 266 | 15 |
| Tukums | 224 | 180 | 44 |
| Ventspils | 166 | 123 | 43 |
| Kurzeme region, total | 1498 | 1234 | 264 |
| Balvi | 215 | 158 | 57 |
| Dagda | 171 | 171 | - |
| Daugavpils | 160 | 127 | 34 |
| Jēkabpils | 179 | 103 | 75 |
| Ludza | 143 | 73 | 70 |
| Preiļi | 143 | 120 | 23 |
| Rēzekne | 149 | 109 | 41 |
| Latgale region, total | 1160 | 860 | 300 |
| Alūksne | 188 | 89 | 98 |
| Cēsis | 295 | 151 | 144 |
| Gulbene | 171 | 128 | 43 |
| Limbaži | 221 | 211 | 10 |
| Madona | 357 | 215 | 142 |
| Smiltene | 182 | 144 | 37 |
| Valmiera | 168 | 153 | 15 |
| Vidzeme region, total | 1582 | 1091 | 490 |
| Total | 5327 | 4039 | 1287 |

Total length of state local roads by district

| District | Total length of the road network | Bituminous pavement | Gravel pavement |
|-----------------------|----------------------------------|---------------------|--------------------|
| | km | km | km |
| Aizkraukle | 438 | 35 | 404 |
| Bauska | 485 | 92 | 393 |
| Jelgava | 341 | 126 | 216 |
| Ogre | 379 | 77 | 302 |
| Rīga | 483 | 293 | 190 |
| Central region, total | 2126 | 622 | 1504 |
| Dobele | 398 | 48 | 350 |
| Kuldīga | 456 | 95 | 361 |
| Liepāja | 596 | 119 | 477 |
| Saldus | 396 | 69 | 327 |
| Talsi | 626 | 167 | 459 |
| Tukums | 555 | 145 | 410 |
| Ventspils | 461 | 139 | 322 |
| Kurzeme region, total | 3487 | 782 | 2705 |
| Balvi | 397 | 68 | 329 |
| Dagda | 591 | 64 | 527 |
| Daugavpils | 557 | 133 | 424 |
| Jēkabpils | 580 | 36 | 545 |
| Ludza | 602 | 71 | 531 |
| Preiļi | 465 | 58 | 408 |
| Rēzekne | 596 | 106 | 489 |
| Kurzeme region, total | 3788 | 536 | 3252 |
| Alūksne | 387 | 60 | 326 |
| Cēsis | 720 | 85 | 636 |
| Gulbene | 422 | 73 | 348 |
| Limbaži | 522 | 102 | 420 |
| Madona | 648 | 64 | 584 |
| Smiltene | 522 | 131 | 391 |
| Valmiera | 577 | 175 | 403 |
| Vidzeme region, total | 3798 | 691 | 3107 |
| Total | 13198 | 2630 | 10568 |

Bridges on state roads by district

| District | Br | idges, total | | | Stone | | Steel | | Timber | |
|-----------------------|----------|-----------------|----------|-------|----------|-----|----------|------|----------|----|
| | Quantity | m | Quantity | m | Quantity | m | Quantity | m | Quantity | m |
| Aizkraukle | 44 | 1485 | 44 | 1485 | | | | | | |
| Bauska | 35 | 965 | 34 | 960 | 1 | 5 | | | | |
| Jelgava | 53 | 2367 | 51 | 2064 | | | 2 | 303 | | |
| Ogre | 37 | 1221 | 34 | 1037 | | | 3 | 184 | | |
| Rīga | 87 | 4874 | 81 | 3803 | | | 6 | 1071 | | |
| Central region, total | 256 | 10912 | 244 | 9349 | 1 | 5 | 11 | 1558 | | |
| Dobele | 23 | 501 | 21 | 459 | 1 | 11 | 1 | 31 | | |
| Kuldīga | 20 | 725 | 20 | 725 | | | | | | |
| Liepāja | 44 | 1075 | 41 | 947 | 1 | 3 | 2 | 125 | | |
| Saldus | 22 | 675 | 22 | 675 | | | | | | |
| Talsi | 29 | 595 | 24 | 543 | 2 | 14 | 2 | 29 | 1 | 9 |
| Tukums | 41 | 908 | 32 | 734 | 4 | 94 | 4 | 74 | 1 | 6 |
| Ventspils | 35 | 1197 | 34 | 1173 | 1 | 24 | | | | |
| Kurzeme region, total | 214 | 5676 | 194 | 5256 | 9 | 147 | 9 | 258 | 2 | 15 |
| Balvi | 18 | 534 | 18 | 534 | | | | | | |
| Dagda | 20 | 450 | 19 | 446 | | | | | 1 | 4 |
| Daugavpils | 52 | 1512 | 48 | 1173 | 1 | 5 | 3 | 334 | | |
| Jēkabpils | 28 | 755 | 25 | 694 | | | 3 | 61 | | |
| Ludza | 28 | 868 | 27 | 863 | | | 1 | 5 | | |
| Preiļi | 28 | 629 | 27 | 614 | 1 | 15 | | | | |
| Rēzekne | 30 | 1049 | 30 | 1049 | | | | | | |
| Latgale region, total | 204 | 5797 | 194 | 5373 | 2 | 20 | 7 | 400 | 1 | 4 |
| Alūksne | 23 | 546 | 20 | 500 | 1 | 15 | 1 | 13 | 1 | 18 |
| Cēsis | 51 | 1413 | 44 | 1046 | 1 | 13 | 4 | 324 | 2 | 30 |
| Gulbene | 20 | 743 | 20 | 743 | | | | | | |
| Limbaži | 42 | 1257 | 41 | 1243 | | | 1 | 14 | | |
| Madona | 41 | 1250 | 38 | 1156 | 1 | 11 | 2 | 83 | | |
| Smiltene | 37 | 1016 | 37 | 1016 | | | | | | |
| Valmiera | 44 | 1359 | 44 | 1359 | | | | | | |
| Vidzeme region, total | 258 | 7584 | 244 | 7063 | 3 | 39 | 8 | 434 | 3 | 48 |
| Total | 932 | 29969 | 876 | 27041 | 15 | 211 | 35 | 2650 | 6 | 67 |

Location of bridges on state roads by district

| District | Bridge | es, total | Main roads | | Region | al roads | Local roads | | |
|-----------------------|----------|-----------|------------|------|----------|----------|-------------|-------|--|
| | Quantity | m | Quantity | m | Quantity | m | Quantity | m | |
| Aizkraukle | 44 | 1485 | 7 | 461 | 23 | 525 | 14 | 498 | |
| Bauska | 35 | 965 | 2 | 55 | 13 | 382 | 20 | 528 | |
| Jelgava | 53 | 2367 | 12 | 983 | 19 | 685 | 22 | 699 | |
| Ogre | 37 | 1221 | 4 | 72 | 16 | 609 | 17 | 541 | |
| Rīga | 87 | 4874 | 49 | 3655 | 16 | 611 | 22 | 608 | |
| Central region, total | 256 | 10912 | 74 | 5226 | 87 | 2812 | 95 | 2874 | |
| Dobele | 23 | 501 | 1 | 23 | 8 | 192 | 14 | 286 | |
| Kuldīga | 20 | 725 | 1 | 142 | 9 | 372 | 10 | 211 | |
| Liepāja | 44 | 1075 | 8 | 136 | 11 | 361 | 25 | 578 | |
| Saldus | 22 | 675 | 3 | 100 | 8 | 309 | 11 | 266 | |
| Talsi | 29 | 595 | - | - | 12 | 313 | 17 | 282 | |
| Tukums | 41 | 908 | 8 | 173 | 14 | 273 | 19 | 462 | |
| Ventspils | 35 | 1197 | 4 | 90 | 7 | 409 | 24 | 698 | |
| Kurzeme region, total | 214 | 5676 | 25 | 664 | 69 | 2229 | 120 | 2783 | |
| Balvi | 18 | 534 | - | - | 14 | 400 | 4 | 134 | |
| Dagda | 20 | 450 | 1 | 27 | 6 | 140 | 13 | 283 | |
| Daugavpils | 52 | 1512 | 26 | 1020 | 10 | 169 | 16 | 323 | |
| Jēkabpils | 28 | 755 | 4 | 124 | 13 | 279 | 11 | 352 | |
| Ludza | 28 | 868 | 6 | 204 | 4 | 119 | 18 | 545 | |
| Preiļi | 28 | 629 | 1 | 19 | 13 | 312 | 14 | 298 | |
| Rēzekne | 30 | 1049 | 13 | 436 | 3 | 92 | 14 | 521 | |
| Latgale region, total | 204 | 5797 | 51 | 1830 | 63 | 1511 | 90 | 2456 | |
| Alūksne | 23 | 546 | 3 | 134 | 9 | 193 | 11 | 219 | |
| Cēsis | 51 | 1413 | 4 | 127 | 17 | 376 | 30 | 910 | |
| Gulbene | 20 | 743 | - | - | 10 | 359 | 10 | 384 | |
| Limbaži | 42 | 1257 | 5 | 155 | 17 | 429 | 20 | 673 | |
| Madona | 41 | 1250 | 1 | 9 | 22 | 707 | 18 | 534 | |
| Smiltene | 37 | 1016 | 4 | 122 | 9 | 412 | 24 | 482 | |
| Valmiera | 44 | 1359 | 2 | 74 | 15 | 631 | 27 | 654 | |
| Vidzeme region, total | 258 | 7584 | 19 | 621 | 99 | 3107 | 140 | 3856 | |
| Total | 932 | 29969 | 169 | 8341 | 318 | 9659 | 445 | 11969 | |

Road Traffic

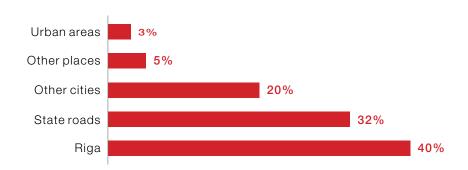
Average annual daily traffic intensity



Registered road traffic accidents

| Year | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Registered road traffic accidents | 30 614 | 30 454 | 36 468 | 39 593 | 45 555 | 48 912 | 47 353 | 52 102 | 61 383 | 54 323 | 35 058 |
| Registered road traf | | 4 482 | 4 766 | 5 083 | 5 379 | 5 081 | 4 466 | 4 302 | 4 781 | 4 196 | 3 160 |
| Number of killed | 604 | 588 | 517 | 518 | 493 | 516 | 442 | 407 | 419 | 316 | 254 |
| Number of injured | 5 244 | 5 449 | 5 852 | 6 300 | 6 639 | 6 416 | 5 600 | 5 404 | 6 088 | 5 408 | 3 930 |

Registered road traffic accidents with killed/injured by accident location



Registered road traffic accidents with killed/injured on state roads

| | Ro | ad traf with k | fic acc tilled/ir | | | | | Killed | | | li | njured |
|-------------------------|------|-------------------|----------------------|------|------|------|------|--------|------|------|------|--------|
| Road | 2006 | 2007 | 2008 | 2009 | 2006 | 2007 | 2008 | 2009 | 2006 | 2007 | 2008 | 2009 |
| A1 | 39 | 44 | 58 | 35 | 9 | 8 | 6 | 8 | 57 | 62 | 96 | 47 |
| A2 | 55 | 73 | 44 | 40 | 10 | 14 | 9 | 9 | 72 | 115 | 64 | 58 |
| A3 | 32 | 35 | 32 | 16 | 7 | 8 | 2 | 1 | 43 | 50 | 50 | 27 |
| A4 | 23 | 39 | 28 | 14 | 2 | 9 | 2 | 3 | 35 | 64 | 39 | 20 |
| A5 | 22 | 34 | 29 | 25 | 5 | 13 | 3 | 6 | 30 | 40 | 42 | 31 |
| A6 | 100 | 112 | 91 | 51 | 29 | 21 | 15 | 10 | 113 | 163 | 148 | 75 |
| A7 | 44 | 56 | 43 | 46 | 7 | 10 | 3 | 8 | 75 | 76 | 69 | 70 |
| A8 | 50 | 38 | 34 | 27 | 14 | 11 | 5 | 3 | 53 | 47 | 39 | 40 |
| A9 | 73 | 78 | 62 | 39 | 14 | 19 | 15 | 13 | 101 | 136 | 95 | 50 |
| A10 | 75 | 68 | 45 | 42 | 11 | 9 | 4 | 3 | 109 | 95 | 65 | 67 |
| A11 | 5 | 8 | 5 | 4 | 1 | 0 | 0 | 1 | 4 | 11 | 8 | 7 |
| A12 | 35 | 30 | 25 | 34 | 7 | 9 | 5 | 2 | 42 | 36 | 28 | 56 |
| A13 | 30 | 32 | 26 | 21 | 7 | 2 | 5 | 5 | 41 | 43 | 32 | 23 |
| A14 | 1 | 4 | 3 | 1 | 0 | 2 | 3 | 0 | 1 | 3 | 4 | 2 |
| A15 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 |
| Total (A1-A15) | 585 | 651 | 526 | 395 | 125 | 135 | 77 | 72 | 778 | 941 | 780 | 573 |
| Total on regional roads | 485 | 558 | 491 | 337 | 88 | 94 | 80 | 60 | 657 | 801 | 660 | 439 |
| Total on local roads | 274 | 321 | 306 | 266 | 32 | 31 | 36 | 38 | 395 | 444 | 457 | 372 |
| Total | 1344 | 1630 | 1323 | 998 | 245 | 260 | 193 | 170 | 1830 | 2186 | 1897 | 1384 |

Main roads

- A1 Riga (Baltezers)–Estonian border (Ainaži))
- A2 Riga–Sigulda–Estonian border (Veclaicene)
- A3 Inčukalns-Valmiera-Estonian border (Valka)
- A4 Riga bypass (Baltezers–Saulkalne)
- A5 Riga bypass (Salaspils–Babīte)
- A6 Riga-Daugavpils-Krāslava-Byelorussian border (Paternieki)
- A7 Riga–Bauska–Lithuanian border (Grenctāle)
- A8 Riga–Jelgava–Lithuanian border (Meitene)
- A9 Riga (Skulte)–Liepāja
- A10 Riga-Ventspils
- A11 Liepāja–Lithuanian border (Rucava)
- A12 Jēkabpils–Rēzekne–Ludza–Russian border (Terehova)
- A13 Russian border (Grebneva)-Rēzekne-Daugavpils-Lithuanian border (Medumi)
- A14 Daugavpils bypass (Kalkūni–Tilti)
- A15 Rēzekne bypass

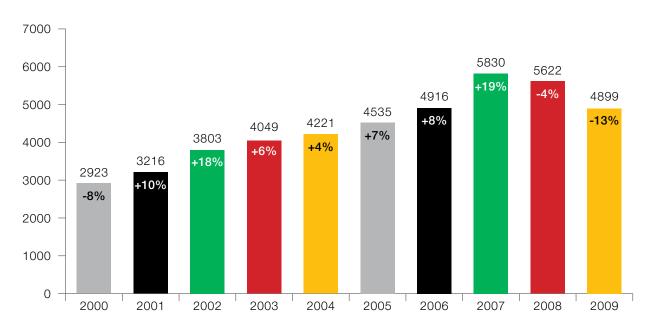
- On state roads 31.6 % of all road accidents were registered;
 - 66.9 % of all killed were registered;
 - 35.2 % of all injured were registered.

Traffic counting system

State main roads are equipped with stationary traffic counting points a number of which are permanent counting points with automated data collection and transmission and in other points traffic counting devices are placed periodically. Stationary traffic counting points are located on roads of regional importance, as well as, high intensity local roads. In other road sections mobile counting devices are used and visual counting method is applied.

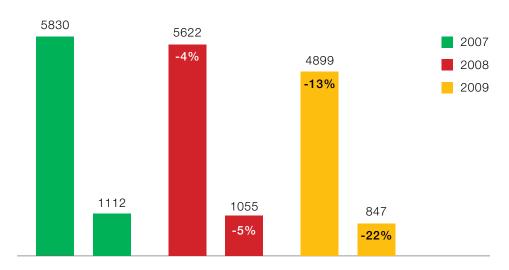
After evaluating traffic counting data it may be observed that for the past two years the total traffic flow is continuing to decrease.

Changes in average daily traffic flow within state road network in comparison to previous years



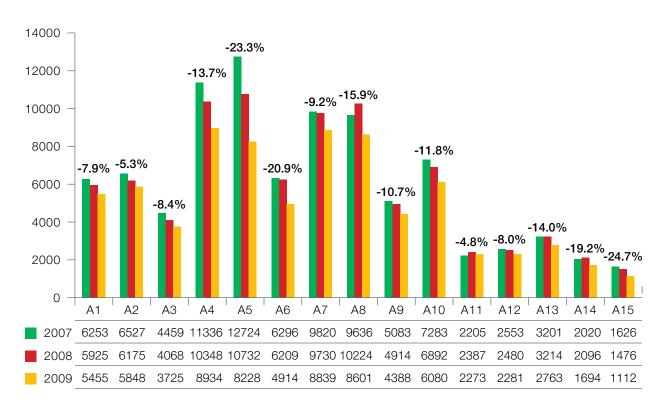
The reduction of truck traffic was two times larger than the decrease of car traffic which could be explained with the decrease in economic activities.

Total average daily traffic and truck traffic intensity on state main roads

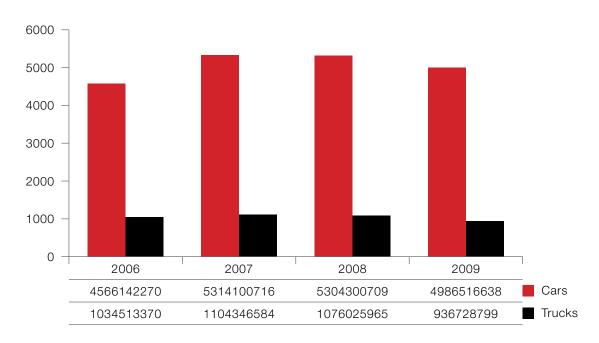


The highest decrease in average traffic intensity is observed on road A5 Riga bypass (Salaspils – Babīte) and the most remarkable fluctuations in traffic may be observed on roads with higher traffic intensity.

Changes in average daily traffic on state main roads in comparison to previous year

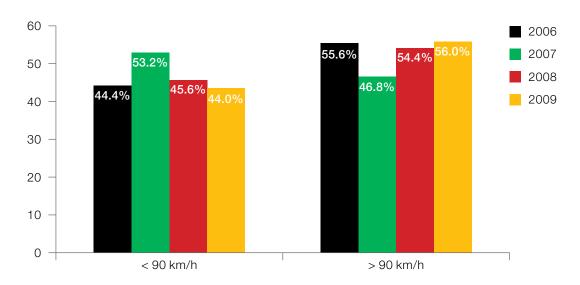


Vehicle mileage on state roads (million km)



Vehicle speed is an important parametre in traffic counting process. Every year the percentage of drivers exceeding 90 km speed limit increases.

Changes in driving speed



Results of visual assessment of roads and bridges

Technical condition of bituminous pavement*

| Pavement condition | Main roads | Regional roads | Local roads | Total length | Share of total length | Share of total length of main roads |
|--------------------|---------------|----------------|----------------|-----------------|-----------------------------|---|
| | km | km | km | km | % | % |
| Very good | 317 | 449 | 258 | 1024 | 13 | 19 |
| Good | 301 | 525 | 417 | 1243 | 15 | 17 |
| Satisfactory | 444 | 1001 | 860 | 2305 | 27 | 26 |
| Poor | 425 | 913 | 626 | 1963 | 23 | 24 |
| Very poor | 250 | 1161 | 454 | 1865 | 22 | 14 |
| Total | 1737 | 4048 | 2615 | 8400 | 100 | 100 |

^{*}The difference from road total length mentioned before may be explained with the specific character of visual assessment.

Technical condition of gravel roads*

| Pavement condition | Regional roads | Local roads | Total length | Share of total length |
|--------------------|----------------|----------------|-----------------|-----------------------|
| | km | km | km | % |
| Good | 163 | 1164 | 1327 | 11 |
| Satisfactory | 640 | 5568 | 6209 | 53 |
| Poor | 489 | 3785 | 4274 | 36 |
| Total | 1292 | 10517 | 11809 | 100 |

^{*}The difference from road total length mentioned before may be explained with the specific character of visual assessment.

Technical condition of bridges

| Technical condition | Bridge quantity | Main roads | Regional roads | Local roads | Share of total number |
|---------------------|--------------------|---------------|----------------|----------------|-----------------------------|
| Good | 171 | 53 | 72 | 46 | 18 |
| Satisfactory | 220 | 44 | 74 | 102 | 24 |
| Poor | 384 | 40 | 118 | 226 | 41 |
| Very poor | 157 | 32 | 54 | 71 | 17 |
| Total | 932 | 169 | 318 | 445 | 100 |

Various restrictions have been introduced on 44 bridges.

Technical condition of roads

The level of road user comfort depends on surface evenness. The measurement unit is International Roughness Index (IRI): summed up vertical fluctuations in metres per one road kilometre.

| IRI | Description of road surface | |
|------------|---|--|
| 0 to 2.5 | Very even road surface; driving conditions are comfortable | |
| 2.5 to 3.5 | Even road surface but vehicle fluctuations are observed | |
| 3.5 to 4.5 | Uneven road surface, vehicle fluctuations are observed | |
| 4.5 to 6.0 | Very uneven road surface but traffic is still possible | |
| Over 6.0 | Very uneven road surface and traffic safety is substantially diminished | |

In accordance with data of 2009 the average IRI value on state main roads is 2.94. In comparison with the last year a trend may be observed that the indicator gradually decreases which means that surface evenness on state road increases. It may be explained with the implemented improvements on state main roads in the framework of EU Cohesion Fund projects. The road programme enabled to perform works that improved the road sections in critical condition, especially, from the evenness point of view.

Changes of IRI value on state main roads

| Road no. | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------|------|------|------|------|------|
| A1 | 2.59 | 1.82 | 1.28 | 1.35 | 1.34 |
| A2 | 2.91 | 2.85 | 2.76 | 2.69 | 2.50 |
| A3 | 3.23 | 3.39 | 3.07 | 3.14 | 2.63 |
| A4 | 2.13 | 2.18 | 2.10 | 2.26 | 2.11 |
| A5 | 2.84 | 2.99 | 3.04 | 3.46 | 2.07 |
| A6 | 3.29 | 3.12 | 3.17 | 2.98 | 2.68 |
| A7 | 2.60 | 1.72 | 1.67 | 1.71 | 1.64 |
| A8 | 3.16 | 3.26 | 3.30 | 3.35 | 3.10 |
| A9 | 2.89 | 2.86 | 2.92 | 2.69 | 2.54 |
| A10 | 2.60 | 2.64 | 2.73 | 2.54 | 2.45 |
| A11 | 3.21 | 3.45 | 3.49 | 3.41 | 2.98 |
| A12 | 4.05 | 4.37 | 4.44 | 3.82 | 2.83 |
| A13 | 3.43 | 3.42 | 3.28 | 3.14 | 2.96 |
| A14 | 3.60 | 3.90 | 3.92 | 3.98 | 3.47 |
| A15 | 3.73 | 3.76 | 3.79 | 3.98 | 3.76 |
| IRI, average | 3.09 | 3.05 | 3.00 | 2.97 | 2.94 |

State road section with the lowest IRI index is road A12 Jēkabpils-Rēzekne-Ludza-Russian border (Terehova) from km 108 to 109.

Other state road sections with low IRI index

| Road | From km | To km | IRI |
|------|---------|-------|------|
| A12 | 108 | 109 | 7.23 |
| A12 | 128 | 129 | 6.94 |
| A12 | 112 | 113 | 6.92 |
| A12 | 126 | 127 | 6.42 |
| A12 | 124 | 125 | 6.31 |

In addition to evenness measurements also the depth of ruts is measured. The deeper the ruts the higher risk to traffic safety. Ruts deeper than 25 mm present threats to traffic safety. In accordance to data of 2009 the average depth of ruts on state main roads is 7.5 mm. The lowest average index of this parametre per 1 km is on the road A14 Daugavpils bypass (Salaspils–Babīte). The state road section with the least deep ruts is road Riga (Baltezers)-Estonian border (Ainaži).

Changes of rut depth on state main roads

| Road | 2008 | 2009 |
|---------|-------|-------|
| A1 | 3.71 | 3.95 |
| A2 | 8.01 | 8.17 |
| A3 | 9.74 | 9.42 |
| A4 | 8.08 | 10.06 |
| A5 | 10.94 | 6.11 |
| A6 | 8.21 | 8.05 |
| A7 | 5.60 | 5.73 |
| A8 | 8.59 | 8.35 |
| A9 | 7.11 | 6.65 |
| A10 | 5.65 | 6.45 |
| A11 | 5.32 | 4.87 |
| A12 | 8.06 | 8.09 |
| A13 | 6.26 | 9.82 |
| A14 | 8.83 | 10.50 |
| A15 | 7.76 | 7.62 |
| Average | 7.46 | 7.59 |

Road Financing

Financing of state road programmes, million Lats

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---|-----------|------|------|------|------|-------|-------|-------|-------|-------|
| Financing from state consolidate budget | d 39.4 | 41.4 | 47.9 | 56.2 | 53.6 | 57.1 | 99.5 | 136.1 | 164.9 | 93.4 |
| EU financed projects | 1.1 | 2.9 | 0.04 | 8.9 | 23.2 | 84.6 | 83.3 | 66.8 | 69.8 | 35.4 |
| Total | 45.7 | 50.4 | 47.9 | 65.1 | 76.8 | 141.7 | 182.8 | 202.9 | 234.7 | 128.8 |

Actual and foreseen road financing, million Lats

| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|-----------------------------|------|------|-------|-------|------|------|
| State roads | 57.1 | 99.5 | 136.1 | 164.9 | 93.4 | 69.3 |
| Municipal roads and streets | 20.9 | 31.8 | 58.2 | 70.9 | 28.3 | 20.4 |

State road financing in 2009

| No. | Programmes, sites, works thou | usand Lats |
|----------|--|------------|
| 1. | MAINTENANCE AND MANAGEMENT COSTS | 58 467.829 |
| 1.1. | MAINTENANCE | 50 897.450 |
| 1.1.1. | Routine maintenance | 49 765.572 |
| 1.1.1.1. | Routine maintenance of state roads | 44 087.030 |
| 1.1.1.2. | Maintenance of bituminous pavements (surface treatment) | 208.731 |
| 1.1.1.3. | Painting of horizontal markings within the state road network | 5 357.564 |
| 1.1.1.4. | Maintenance of gravel pavements | 112.246 |
| 1.1.2. | Co-financing for routine maintenance of urban transit roads | 744.845 |
| 1.1.3. | Co-financing for routine maintenance of roads over "Latvenergo" hydro-technical structures | 18.254 |
| 1.1.4. | Subsidy to Road Museum | 11.250 |
| 1.1.5. | New technology research programme | 221.406 |
| 1.1.6. | Maintenance of technical equipment of Traffic Information Centre | _ |
| 1.1.7. | Payment for connections of electrical equipment | 28.846 |
| 1.1.8. | Maintenance of road weather stations | 84.133 |
| 1.1.9. | Maintenance of Traffic Information Centre | 13.423 |
| 1.1.10. | Maintenance of traffic counting system | 9.722 |

State road financing in 2009 (cont. from page 21)

| No. | Programmes, sites, works | thousand Lats |
|----------|---|---------------|
| 1.2. | MANAGEMENT | 5 729.972 |
| 1.2.1. | Management of road network | 4 967.251 |
| 1.2.2. | Inventory of state roads | 47.932 |
| 1.2.3. | Standardisation | 104.601 |
| 1.2.4. | Audit of state road traffic safety | 9.902 |
| 1.2.5. | Registration of state road lands in the Land Register | 210.326 |
| 1.2.6. | Public information on road sector issues | - |
| 1.2.7. | VAT payment for income | 34.745 |
| 1.2.9. | Management and services of land acquisition | 340.495 |
| 1.2.10. | Interest payment to State Treasury | 14.720 |
| 1.3. | DESIGN AND PROJECT PREPARATION | 1 840.406 |
| 1.3.1. | Road research, studies and designs | 473.996 |
| 1.3.2. | Bridge research, studies and designs | 100.899 |
| 1.3.3. | State road construction designs | 1 005.171 |
| 1.3.4. | Bridge construction designs | 118.188 |
| 1.3.5. | Construction designs for traffic organisation equipment | 14.516 |
| 1.3.6. | Preparation of public and private partnership projects | 127.636 |
| 2. | CAPITAL INVESTMENTS | 34 978.863 |
| 2.1. | PERIODICAL MAINTENANCE AND RECONSTRUCTION | 34 432.257 |
| 2.1.1. | Roads | 21 978.844 |
| 2.1.1.1. | Improvement of state main roads | 7 987.036 |
| 2.1.1.2. | Improvement of state regional and local road sections with bituminous pavement and construction of new sections | 7 921.627 |
| 2.1.1.3. | Improvement of state local roads for regional support | 483.993 |
| 2.1.1.4. | State road improvement in connection with the closing of railway lines | 2 290.559 |
| 2.1.1.5. | Co-financing for the reconstruction of urban transit streets | 3 203.022 |
| 2.1.1.6. | Construction of truck control points | 92.607 |
| 2.1.2. | Bridges | 6 227.670 |
| 2.1.2.1. | Periodical maintenance of bridges | 204.600 |
| 2.1.2.2. | Reconstruction of bridges | 6 023.070 |
| 2.1.2.3. | Co-financing for periodic maintenance and reconstruction of "Latvenergo" bridges | - |
| 2.1.3. | Traffic organisation and road equipment | 6 225.743 |
| 2.1.3.1. | Periodical maintenance of technical equipment of traffic organisation | 1 248.542 |
| 2.1.3.2. | Traffic safety improvement projects | 4 825.381 |
| 2.1.3.3. | Development of Road Weather Information System | 57.224 |
| 2.1.3.4. | Development of technical instruments for Traffic Information Centre | 50.932 |
| 2.1.3.5. | Development of traffic counting system | 43.664 |
| | | |

State road financing in 2009 (cont. from page 22)

| No. | Programmes, sites, works | thousand Lats |
|--------|---|---------------|
| 2.2. | OTHER COSTS | 546.607 |
| 2.2.1. | Project management and construction supervision for ERDF projects | 192.178 |
| 2.2.2. | Project management for EU Cohesion Fund projects | 202.087 |
| 2.2.5. | Payments for land acquisition | 45.902 |
| 2.2.6. | Payments for the development of road inventory system | 106.439 |
| | Total | 93 446.692 |

Implementation of projects financed by the Cohesion Fund in the road sector

| No. | Programmes, sites, works | thousand Lats |
|-----|--|---------------|
| 1. | TEN road network improvements, 1st project | 23 551.324 |
| 2. | V67 Via Baltica, Saulkrasti bypass | 538.986 |
| | Total | 24 090.310 |

Financing of regional road development programme (ERDF)

| No. | Programmes, sites, works | thousand Lats |
|-----|---|---------------|
| 1. | P73 Vecumnieki-Nereta-Subate, km 75.0-84.8 | 660.891 |
| 2. | P124 Ventspils-Kolka, km 56.3-67.3 | 1 521.315 |
| 3. | P73 Vecumnieki-Nereta-Subate, km 84.8-94.7 | 230.510 |
| 4. | P62 Krāslava-Preiļi-Madona, km 62.2-70.7 | 254.463 |
| 5. | P33 Ērgļi–Jaunpiebalga–Saliņkrogs, km 46.22–60.65 | 121.922 |
| 6. | P57 Malta-Sloboda, km 10.81-21.08 | 265.522 |
| 7. | P62 Krāslava-Preiļi-Madona, km 126.58-139.96 | 148.896 |
| 8. | P36 Rēzekne-Gulbene, km 56.47-65.60 | 174.842 |
| 9. | P76 Aizkraukle-Jēkabpils, km 00.0-13.0 | 343.853 |
| 10. | P45 Viļaka–Kārsava, km 32.0–42.3 | 338.889 |
| 11. | P4 Riga–Ērgļi, km 81.0–90.7 | 160.454 |
| 12. | P124 Ventspils-Kolka, km 27.8-39.79 | 379.781 |
| | Total | 4 601.338 |

Projects financed by the Cohesion Fund for 2007-2013

| No. | Programmes, sites, works | thousand Lats |
|-----|---|---------------|
| 1. | E22 Tīnūži-Koknese (land acquisition, construction) | 5 781.921 |
| 2. | E22 Ludza-Terehova (land acquisition, construction) | 921.843 |
| | Total | 6 703.764 |

Results Achieved

Routine road maintenance

51.453 million Lats what was 24% less than in 2008 were spent for routine maintenance works during 2009 covering a total length of 20 279 km of state roads. The total length of maintained roads differs because it includes roads with two carriage ways, coverleaf junctions and exit ramps.

Routine maintenance works (million Lats)

| Programme | 2005 | 2006 | 2007 | 2008 | 2009 |
|---|--------|--------|--------|--------|--------|
| Road winter maintenance | 10.647 | 11.059 | 11.718 | 18.032 | 17.783 |
| Bridge, interchange and culvert maintenance | 0.506 | 0.519 | 0.685 | 0.712 | 0.763 |
| Traffic organisation | 1.248 | 1.317 | 1.648 | 2.034 | 1.622 |
| Pavement routine maintenance | 9.861 | 15.515 | 19.891 | 21.149 | 18.956 |
| Maintenance of bituminous pavements (surface treatment) | - | - | - | 3.682 | 0.196 |
| Painting of horizontal markings | - | - | - | 6.430 | 4.604 |
| Maintenance of gravel pavements | - | - | - | 4.801 | 0.107 |
| Road cleaning and inspection | 2.337 | 3.585 | 6.020 | 7.775 | 5.695 |
| Maintenance of road weather stations | 0.085 | 0.071 | 0.057 | 0.114 | - |
| Programme management and construction supervision | 0.939 | 1.288 | 1.742 | 2.539 | 1.727 |
| Elimination of ruts and depressions in bituminous pavements | | - | - | 0.956 | - |
| Total | 25.623 | 33.354 | 42.717 | 67.267 | 51.453 |

The most important routine maintenance task during 2009 was to ensure continuous traffic along state roads in compliance with the Regulations of the Cabinet of Ministers No. 871 of October 19, 2004 "Regulations on requirements for state and municipal road routine maintenance works and supervision" and maintenance classes approved by the Ministry of Transport. In 2009 the unit prices for routine maintenance works decreased to the price level determined in open tender in 2007.

In the 4th quarter of 2009 the level of winter maintenance was substantially reduced in comparison to winter of 2008/2009. In 2009 expenditures for winter road maintenance amounted up to 17.783 million Lats which was 0.249 million Lats less than in 2008 but still exceeded the financing planned for 2009 for 1.846 million Lats. Snow cleaning and removal works amounted up to 8.675 million Lats and road de-icing works amounted up to 7.665 million Lats. There is a large deficit in periodic bridge maintenance and repairs. During 2009 only emergency works were performed on bridges, overpasses and culverts in the amount of 0.763 million Lats. Other works are postponed to a time when the economic crisis will be passed.

During 2009 expenditures for traffic organisation amounted up to 1.622 million Lats, which was 0.412 million Lats less than a year before. The number of road sections equipped with lighting and traffic lights increased because of the implementation of traffic safety improvements (periodical maintenance or reconstruction). In 2009 the maintenance of equipment was performed in the amount of 0.330 million Lats. Road signs are still subject to malicious damage and theft. Equipment, especially safety guard-rails and lightning lines are damaged in car

accidents. Total equipment losses amounted to 0.569 million Lats. Horizontal marking on state roads with bituminous pavement was renewed in the amount of 4.604 million Lats or 28.4% less than in 2008.

In 2009 surface maintenance was performed in the amount of 18.957 million Lats that was 10.4% less than in 2008. Expenditures on bituminous pavement maintenance during 2009 amounted to a total of 9.389 million Lats or 9.7% less than in 2008. Pothole repairs on deteriorated bituminous pavements amounted to 603.1 thousand m² and the renewal of surface unevenness amounted to 484.9 thousand m² or to 69 km of road in poor condition. The works started in 2008 were finished in 2009 in the amount of 0.196 million Lats or 5.3% of the corresponding figure from the previous year.

Compared to the previous year expenditures for the maintenance of gravel pavements amounted to 9.567 million Lats or 8.8% less than in 2008. Compared to 2008 the physical volumes of grading and profiling works in 2009 decreased by 39.3% whilst the volumes of road levelling volumes decreased by 38%. 193.3 thousand cubic metres of gravel were utisiled for the renewal of gravel pavements and the elimination of indents, potholes and sand pits on state roads, which was 11.4% less than in 2008. The works started in 2008 were finished in 2009 in the amount of 0.107 million Lats or 2.2% in comparison to the corresponding figures in 2008.

In the circumstances of insufficient financing in 2009 road treatment works were performed in the amount of 5.344 million Lats or 26.5% less than in previous year. The largest physical work amounts consisted of cleaning and renewal of ditches, improving road shoulders, mowing of grass, bush cutting and improvement of right-of-way.

Main part of household garbage collection and utilisation was performed on state main and regional roads of Riga district, as well as, on state main roads near borders.

Expenditures for routine state road maintenance works in 2009

| Type of maintenance works | Measurement unit | Quantity | Costs Lats |
|--|------------------|-----------|------------|
| 1.1.1.1. Routine state road maintenance | | | |
| Road winter maintenance | - | | 17 783 257 |
| Snow removal | track km | 114 499.2 | 524 061 |
| Snow removal | km | 146 280.8 | 1 607 112 |
| Snow removal with de-icing | km | 185 654.5 | 6 111 395 |
| De-icing | km | 80 361.3 | 1 670 507 |
| Formation of grooves in ice | track km | 69 698.8 | 490 559 |
| Main road winter maintenance | km | 1 758.5 | 6 037 510 |
| Road winter maintenance | km | 36 545.1 | 169 550 |
| Winter service duty | hours | 124 872.0 | 687 954 |
| Other winter service works | - | - | 484 609 |
| Maintenance of bridges, interchanges, pedestrian tunnels | s and culverts - | _ | 762 995 |
| Bridge and interchange maintenance | - | - | 170 336 |
| Culvert maintenance | - | - | 447 785 |
| Tunnel maintenance | - | - | 144 874 |

Expenditures for routine state road maintenance works in 2009 (cont. from page 25)

| Type of maintenance works | Measurement unit | Quantity | Costs Lats |
|---|---------------------|-----------|------------|
| Traffic organisation | - | | 1 621 978 |
| Maintenance of bus stops, pavilions and rest areas | - | | 290 665 |
| Replacement of road sign posts | it. | 8 628 | 167 044 |
| Replacement of road signs on existing posts | it. | 5630 | 364 933 |
| Road sign renewal | m² | 16.9 | 1 137 |
| Painting of road markings | m² | 4 507.9 | 30 017 |
| Signal post replacement | it. | 4 949 | 106 341 |
| Signal post washing | it. | 2 492 | 5 060 |
| Fixing reflectors on signal posts | it. | 607 | 1 064 |
| Replacement of damaged guard-rails | running m | 2 404.8 | 139 014 |
| Guard-rail washing | m | 44 391,0 | 18 419 |
| Installation of reflectors on guard-rails | it. | 1 005 | 5 488 |
| Guard-rail improvements | m | 1 999.8 | 26 237 |
| String guard-rail treatment | m | 164.0 | 383 |
| Maintenance of equipment packages necessary for the equipment of places dangerous for traffic | it./month | 340 | 52 680 |
| Replacement of information signs | sign with post | 1 643 | 61 841 |
| Road lighting and lighting equipment maintenance | Ls | - | 167 739 |
| Lightning equipment maintenance and road lighting | Ls | - | 162 318 |
| Other traffic organisation works | - | | 21 598 |
| Pavement routine maintenance | - | | 18 956 457 |
| Bituminous pavements | - | | 9 389 132 |
| Crack filling | m | 106 849.0 | 87 858 |
| Pothole repairs | m ² | 603 074.9 | 7 379 479 |
| Pavement cleaning | 1000 m ² | 3 028.3 | 44 848 |
| Repair of bleedings | m ² | 9 040.3 | 1 454 |
| Protection of humped sections | m ³ | 973.9 | 16 601 |
| Renewal of pavement skid resistance | m ² | 484 890.7 | 1 048 260 |
| Indent repairs | t | 2 122.5 | 166 705 |
| Levelling by milling | m ² | 6 941.2 | 19 750 |
| Other pavement maintenance works | Ls | - | 624 177 |
| Gravel pavements | - | | 9 567 325 |
| Road grading | km | 108 231.5 | 3 618 333 |
| Road profiling | km | 1 527.6 | 70 587 |
| Pavement renewal | m³ | 136 231.9 | 3 911 069 |
| Indent and pothole repairs on gravel roads | m³ | 58 057 | 1 144 628 |
| Road levelling (dragging) | track km | 104 614.9 | 811 469 |
| Other pavement maintenance works | Ls | - | 11 239 |

Expenditures for routine state road maintenance works in 2009 (cont. from page 26)

| Type of maintenance works | Measurement unit | Quantity | Costs Lats |
|--|------------------|-------------|------------|
| Road treatment | - | | 5 344 008 |
| Elimination of scouring | m ³ | 8 830.4 | 215 354 |
| Slope strengthening in scourings | m² | 2 384 | 21 749 |
| Ditch cleaning and renewal | m³ | 195 208.5 | 876 546 |
| Cleaning of covered systems for rainwater drainage | Ls | - | 7 541 |
| Shoulder profiling | km | 5 676.4 | 147 451 |
| Shoulder repairs | m ³ | 19 132.3 | 555 207 |
| Removal of accumulated shoulder gravel | m ³ | 56 581.4 | 321 125 |
| Bush cutting | ha | 203.6 | 173 786 |
| Mechanical sprout cutting | track km | 24 095.8 | 826 637 |
| Sprout cutting with hand bush cutter | ha | 392.8 | 87 808 |
| Mechanical bush cutting with simultaneous crushing | ha | 6.1 | 6 525 |
| Mechanical mowing of grass | track km | 56 332.2 | 249 074 |
| Manual mowing of grass | m² | 3 234 809.8 | 245 854 |
| Mechanical mowing of grass in road median and right of v | vay ha | 700.2 | 20 005 |
| Cutting of hogweeds in road right-of-way | ha | 319.7 | 107 821 |
| Tending of greenery | - | | 334 838 |
| Operative road treatment | km | 55 618 | 428 612 |
| Treatment of road right-of-way | km | 4 211 | 194 468 |
| Treatment of household garage containers | m ³ | 10 293.9 | 416 450 |
| Other road treatment works | - | | |
| Road inspection | _ | | 350 781 |
| Road inspection | km | 200 423.2 | 219 158 |
| Operative traffic information co-ordination | hours | 40 356.0 | 131 623 |
| Programme management and work control | - | | 1 531 091 |
| 1.1.1.1 Total | | - | 46 350 567 |
| 1.1.1.2. Maintenance of bituminous pavements (surfac | e dressing) | | |
| On state local roads | km | 33.00 | 196 020 |
| Programme management and work control | - | - | 7 840 |
| 1.1.1.2. Total | | | 203 860 |

Expenditures for routine state road maintenance works in 2009 (cont. from page 27)

| Type of maintenance works | Measurement unit | Quantity | Costs Lats | | | |
|--|------------------|-----------|------------|--|--|--|
| 1.1.1.3. Painting of horizontal markings in state road network | | | | | | |
| Painted horizontal markings in 2008, total, m ² 609 657.7 | | | | | | |
| including: | | | | | | |
| state main roads | m ² | 337 953.3 | | | | |
| state regional roads | m ² | 267 537.0 | | | | |
| state local roads | m ² | 4 167.3 | | | | |
| Programme management and work control | | | 184 173 | | | |
| 1.1.1.3. Total | | | 4 788 504 | | | |
| 1.1.1.4. Maintenance of gravel roads | | | | | | |
| State local roads | km | 12.750 | 106 480 | | | |
| Programme management and work control | | | 4 289 | | | |
| 1.1.1.4. Total | | | 110 739 | | | |

51 453 670

Routine maintenace works, total

Track kilometre is equal to a kilometre of road treated in the width of road maintenance machinery.

Running metre is equal to the length of road element or structure per road metre.

Winter road maintenance

The level of winter maintenance

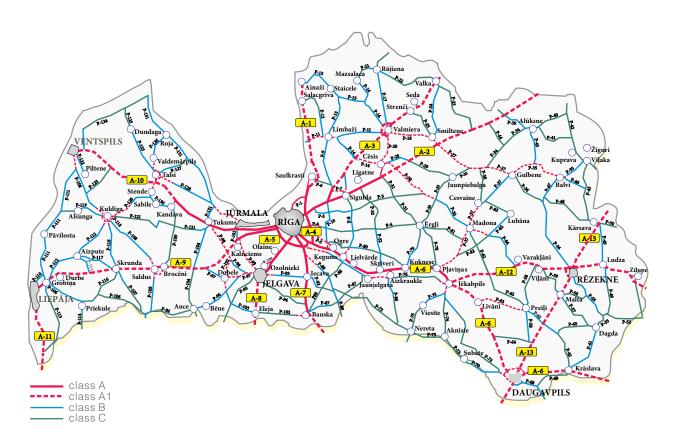
| | State road maintenance km | | | | |
|--------------------------|---------------------------|---------------------|---------------------|--|--|
| Winter maintenance class | winter 2005/2006 | winter 2008/2009 | winter 2009/2010 | | |
| A | 583.2 | 996.4 | 612.7 | | |
| A1 | 2085.5 | 2899.9 | 1995.4 | | |
| В | 2381.1 | 1755.6 | 2499.0 | | |
| С | 12535.8 | 12885.5 | 12334.1 | | |
| D | 2722.5 | 1759.0 | 2837.8 | | |
| Total | 20308.1 | 20296.4 | 20279.0 | | |

The state road maintenance classes are determined by the Regulations of the Cabinet of Ministers No. 871 of October 19, 2004 "Regulations on requirements for state and municipal road routine maintenance works and supervision", Appendix 2, Chart 1.

In winter 2009/2010 the financing for road winter works was by 5.8 million Lats less in comparison to figures of the previous season, therefore the maintenance level was substantially decreased during winter 2009/2010. According to Paragraph 5.3 of the Regulations No. 871 of the Cabinet of Ministers the maintenance classes were diminished in proportion to the available financing for some roads. In comparison to winter 2008/2009 the total length of state main roads of maintenance class A was reduced by 317.6 km and the length of regional roads by 66.1 km. The total length of regional roads of maintenance class A1 was reduced by 1132.2 km and the length of state local roads by 68.7 km, and the total length of state local roads of maintenance class B was reduced by 131.5 km. The total length of roads of maintenance class B increased in the winter 2009/2010 due to state territorial reform and closing of schools which required the provision of transportation for pupils. Thereby the roads of maintenance class D had to be promoted to class B.

In winter 2009/2010 the level of state road periodical maintenance decreased to the level of 2005/2006 due to insufficient financing.

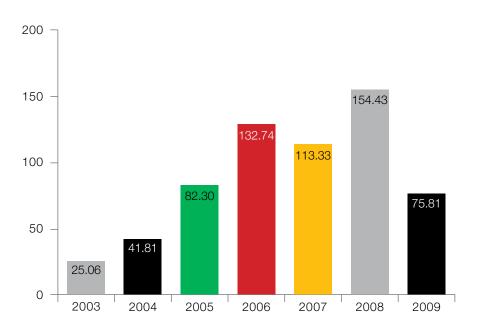
State main and regional road winter maintenance in 2008/2009



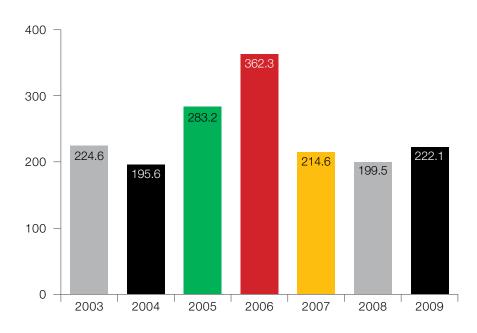
Construction works

In 2009 the works were carried out for 75.8 million Lats and bituminous pavements were reconstructed or renewed in the length of 222.1 km.

Construction works (million Lats)



Renewal of bituminous pavements (km)



The construction of road A12/ E22 from km 6.7 to km 54.6 was completed. In 2009 roads in total length of 61.66 km for 94.79 million Lats were renewed within the framework of the programme "EU Cohesion Fund projects in the road sector".

Within the framework of the programme "Improvement of state regional roads" construction works were completed on road P73 Vecumnieki–Nereta–Subate section Rite–Apserde and the road P125 Ventspils–Kolka section Mazirbe-Vaide. In total 20.8 km of roads were renewed for 7.06 million Lats. The programme was co-financed by ERDF. Within the framework of the programme "Periodic maintenance and reconstruction of bituminous pavements on state main roads" 49.98 km of roads were reconstructed for 9.52 million Lats. Within the framework of the programme "Periodic maintenance of bituminous pavements of state regional and local roads" 78.12 km of roads were renewed for 9.06 million Lats.

Within the programme "Improvement of state local roads for regional support" 9.9 km of roads with gravel pavement were renewed in 2009 at a total cost of 5.40 million Lats.

Within the programme "State road improvement in connection with the closing of railway lines" 5.7 km of roads were renewed for 12.06 million Lats.

Within the programme "Periodical bridge maintenance" a 122 m long bridge over the river Gauja on road P18 Valmiera–Smiltene was renewed for 91.1 thousand Lats. In 2009 within the framework of programme "Bridge reconstruction" 8 bridges with the total length of 338.5 m were reconstructed for 6.34 million Lats.

In 2009 the total costs for the programme "Improvement of traffic safety" amounted up to 5.20 million Lats. On state main roads and regional roads 4 interchanges were reconstructed and a pedestrian bridge was built on the road A8 Riga–Jelgava–Lithuanian border (Meitene) in Dalbe. The total costs of the programme "Traffic organisation and road equipment programme" amounted up to 1.948 million Lats and steel guard-rails in the length of 50.86 were installed.

Projects co-financed by the EU Cohesion Fund

The EU co-financing of road construction and reconstruction pojects continued in 2009.

Cohesion Fund financing is planned for the development of roads of European importance. The reconstruction of road E22/A12 section Jēkabpils–Varakļāni was completed in autumn. Total costs of construction works amount up to 79.4 million Lats and 85% of this financing will be reimbursed from the Cohesion Fund. Regional road sections on P5 Ulbroka – Ogre and P80 Tīnūži-Koknese were reconstructed with the co-financing of the Cohesion Fund with the aim to serve as connections between the planned Latgale road and Riga bypass A4 (Baltezers–Saulkalne) until the Eastern Entrance in the Riga city is built.

The financing from the European Regional Development Fund (ERDF) provides regional development and is attracted to the reconstruction of state regional roads, for example, paving of gravel roads with bituminous pavement. In 2009 the construction of road P124 Ventspils–Kolka section Mazirbe–Vaide and road P73 Vecumnieki–Nereta–Subate section Rite–Apserde was finished. Accordingly the costs were 2.8 and 4.2 million Lats. Co-financing of both sections from the consolidated state budget amounted up to 15%. Major projects of regional road development in Latgale, Vidzeme, Zemgale and Kuzeme, as well as, near Riga are planned until 2013 owing to large contribution from ERDF. It is expected that the improvements of road safety on regional roads simultaneously will support the development of economic activity in many districts and populated areas which were isolated until this moment.

Traffic safety improvement projects

| Works | Unit | 2007 | 2008 | 2009 |
|--|---|--|---|---|
| Traffic safety improvement projects | it./thous. Lats | | 12/4.8 | 7/4.5 |
| Reconstructed intersections | it. | 8 | 17 | 16 |
| Eliminated black spots | it. | 8 | 6 | 3 |
| Construction of pedestrian and cyclist sidewalks | running m | 18 296 | 19 339 | 10 791 |
| Construction of pedestrian passages in separate grades | it. | 3 | - | 1 |
| Construction of lightened pedestrian passages at grade | it. | 1 | - | 2 |
| Installation of lighting | running m | 37 450 | 32 450 | 12 601 |
| Installation of animal fences | running m | 12 640 | - | - |
| Painting of horizontal markings | m² | 573 637 | 862 477 | 609 674 |
| Renewal of road signs | it. | 9 311 | 12 109 | 1 792 |
| Installation of road guard-rails | running m | 33 706 | 97 868 | 89 929 |
| Installation of pedestrian parapets | running m | 12 640 | 6 346 | 3 335 |
| Installation of signal poles | it. | 5 784 | 6 037 | 7 354 |
| | Reconstructed intersections Eliminated black spots Construction of pedestrian and cyclist sidewalks Construction of pedestrian passages in separate grades Construction of lightened pedestrian passages at grade Installation of lighting Installation of animal fences Painting of horizontal markings Renewal of road signs Installation of road guard-rails Installation of pedestrian parapets | Traffic safety improvement projects Reconstructed intersections it. Eliminated black spots it. Construction of pedestrian and cyclist sidewalks running m Construction of pedestrian passages in separate grades it. Construction of lightened pedestrian passages at grade it. Installation of lighting running m Installation of animal fences Renewal of road signs it. Installation of road guard-rails running m Installation of pedestrian parapets running m | Traffic safety improvement projects Reconstructed intersections it. 8 Eliminated black spots it. 8 Construction of pedestrian and cyclist sidewalks running m 18 296 Construction of pedestrian passages in separate grades it. 3 Construction of lightened pedestrian passages in separate grades it. 1 Installation of lighting running m 37 450 Installation of animal fences running m 12 640 Painting of horizontal markings m² 573 637 Renewal of road signs it. 9 311 Installation of pedestrian parapets running m 12 640 Installation of pedestrian parapets | Traffic safety improvement projects Reconstructed intersections it. 8 17 Eliminated black spots it. 8 6 Construction of pedestrian and cyclist sidewalks running m 18 296 19 339 Construction of pedestrian passages in separate grades it. 3 - Construction of lightened pedestrian passages in separate grades it. 1 - Installation of lighting running m 37 450 32 450 Installation of animal fences running m 12 640 - Painting of horizontal markings m² 573 637 862 477 Renewal of road signs it. 9 311 12 109 Installation of pedestrian parapets running m 33 706 97 868 Installation of pedestrian parapets |

Traffic safety improvement projects implemented in 2009

- Traffic safety improvement project on road A1 Riga-Estonian border (Ainaži) intersection with Gauja street in Ādaži parish
- Traffic safety improvement project on road A6 Riga-Daugavpils-Krāslava-Byelorussian border (Paternieki) in Ķegums
- Reconstruction of intersection on road A12 Jēkabpils-Rēzekne-Ludza and road A13 Russian border (Grebneva)-Rēzekne-Daugavpils-Lithuanian border (Medumi)
- 4. Construction of pedestrian bridge on road A8 Riga-Jelgava-Lithuanian border (Meitene) in Dalbe
- 5. Reconstruction of intersection on road P128 Sloka-Talsi and road P131 Tukums-Kesterciems-Mērsrags-Kolka
- 6. Installation of lighting on road A1 Riga (Baltezers)-Estonian border (Ainaži) intersection with road Riga-Carnikava
- 7. Height restriction brackets on road P87 Bauska-Aizkraukle before Riga HPS

Co-operation with municipalities

The subsidy allocated to municipalities for municipal roads and streets until July 1, 2009, was transferred to 75 municipalities and after July 1, 2009, to 107 district municipalities and largest cities. In total, 28 265 thousand Lats were transferred.

Financial management specialists of "Latvian State Roads" regularly consult the municipalities on road financing and management of subsidies. The amount of provided consulting increased due to territorial reform and subsequent changes in the relations between LSR and municipalities.

In 2009 an agreement was signed between Valka city council, Jēkabpils city council, Bauska city council, Saldus city council and Ilūkste city council on the allocation of co-financing for the improvement of transit streets in cities.

The approval and implementation of the programme "Improvement of state local roads for regional support in 2009" was suspended due to the economical situation.



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