

Roads Works Costs per Km

Source: World Bank Reports

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April 2000

The Information

- The objective is to create a database of actual maintenance, rehabilitation and construction work costs per km.
- Information from World Bank completed highways projects, from 1995 to 1999, was reviewed.
- Information was collected from 40 countries
- 93 work costs per km were found or estimated.

Shape of the Information

- The descriptions given to the road works on World Bank reports are very general (for example: rehabilitation, strengthening, periodic maintenance, reconstruction, improvement, construction, etc.).
- Most of the time no detailed information was found, such as road width, terrain, traffic, overlay thickness, regravelling thickness, rehabilitation surface, improvement type, etc.
- It was only possible to estimate average costs and costs statistics for a series of road work classes based on the general descriptions.

Road Works Classes

- Paved Roads
 - Seals (reseals, surface dressings)
 - Functional Overlays (thickness ≤ 5.0 cm)
 - Structural Overlays (thickness > 5.0 cm)
 - Rehabilitation (strengthening, reconstruction)
 - Construction (widening, new construction)
- Unpaved Roads
 - Regravelling
 - Rehabilitation
 - Improvement
 - Paving

Average Works Costs per Km

- Paved Roads
 - Seals 20,000 \$/km
 - Functional Overlays 56,000 \$/km
 - Structural Overlays 146,000 \$/km
 - Rehabilitation 214,000 \$/km
 - Construction 866,000 \$/km
- Unpaved Roads
 - Regravelling 11,000 \$/km
 - Rehabilitation 31,000 \$/km
 - Improvement 72,000 \$/km
 - Paving 254,000 \$/km

Median Works Costs per Km

- Paved Roads
 - Seals 19,000 \$/km
 - Functional Overlays 56,000 \$/km
 - Structural Overlays 146,000 \$/km
 - Rehabilitation 183,000 \$/km
 - Construction 959,000 \$/km
- Unpaved Roads
 - Regravelling 11,000 \$/km
 - Rehabilitation 31,000 \$/km
 - Improvement 75,000 \$/km
 - Paving 255,000 \$/km

Range of Works Costs per Km

- Paved Roads
 - Seals 5,000 - 32,000 \$/km
 - Functional Overlays 30,000 - 107,000 \$/km
 - Structural Overlays 74,000 - 198,000 \$/km
 - Rehabilitation 45,000 - 700,000 \$/km
 - Construction 142,000 - 1,832,000 \$/km
- Unpaved Roads
 - Regravelling 9,000 - 13,000 \$/km
 - Rehabilitation 17,000 - 47,000 \$/km
 - Improvement 11,000 - 114,000 \$/km
 - Paving 62,000 - 609,000 \$/km

Number of Observations and Standard Deviation of Works Costs per Km

- Paved Roads
 - Seals 7 10,000 \$/km
 - Functional Overlays 12 24,000 \$/km
 - Structural Overlays 6 42,000 \$/km
 - Rehabilitation 33 144,000 \$/km
 - Construction 13 567,000 \$/km
- Unpaved Roads
 - Regravelling 4 2,000 \$/km
 - Rehabilitation 4 17,000 \$/km
 - Improvement 6 37,000 \$/km
 - Paving 10 153,000 \$/km

Average and Range of Roads Works Costs per km

Average and Range of Actual Roads Works Costs per Km

