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**Evaluation of present transport infrastructure from the
viewpoint of the land use, landscape morphology and
fragmentation impact**

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Summary:

The landscape fragmentation of Southern and Middle Moravian Transport Network was investigated by the way of bridges and culverts field documentation on selected roads and railways: D 1 (Prague – Brno), D 2 (Brno – Bratislava – Slovak Republic), R 46 (Vyškov – Olomouc), R 35 (Olomouc – Lipník), E 50 (Slavkov – Buchlovice), E 461 (Brno – Mikulov) and railway corridor „Brno – Česká Třebova“. The framework is the project for Ministry of Transport and Communications *“Research of environmental burden caused by transport”*, partial task *“Evaluation of present transport infrastructure and alternatives of development from the viewpoint of the land use, landscape morphology and fragmentation impact”*. In mentioned roads and railways, 97 objects were monitored in summer – autumn 2001. The following parameters as evaluation criteria were monitored: communication type, traffic restriction, found fauna species (in/under object or surrounding), type of observation (tracks, cadaver, occurrence, etc), traffic intensity, geographic description of habitat, object dimensions and drawing, “underbridge” character, eventual obstacles description, watercourse regulation, road surface, fauna migration significance.