

UK Pavement Management System



Rule Set Changes from RP5.01 to RP6.01

A summary for UKPMS users

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Document Information

Title (Sub Title)	Rule Set Changes from RP5.01 to RP6.01 A summary for UKPMS users
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Description	This document summarises the changes to the UKPMS Rules & Parameters from RP5.01 to RP6.01. It is intended primarily for users of UKPMS, and it particularly considers if there is any impact on the BVPIs.

Document History

Version No	Status	Author	Date	Changes from Previous Version
1.01	Draft	RAC	19/01/06	1 st draft

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Introduction

The calculations in UKPMS are controlled by Rules & Parameters. Rule Set RP5.01 was stipulated for the 2004/05 BVPI calculations (reported in 2005), and RP6.01 is to be used for the 2005/06 BVPI calculations (reported in 2006).

This document summarises the changes between the two rule sets and indicates whether or not there is an impact on the BVPI calculations. It is aimed at users of UKPMS; a specification giving a full list of the precise changes required is used by UKPMS Developers to implement the changes and is available on request.

Changes between RP6.01 and RP5.01

The changes to RP5.01 to form RP6.01 are as follows:

- GripTester surveys
- New SCANNER defects
- Additional issues

GripTester surveys

The capability to load and process data from GripTester surveys is included in RP6.01. GripTester data is processed in UKPMS as a functional defect i.e. using the same approach as for the processing of SCRIM data.

New SCANNER defects

New defects for edge and transverse profile have been introduced for SCANNER surveys. Currently, pending further research, there are no processing rules for these new defects; they are collected for information only. RP6.01 allows these new defects to be loaded.

Additional issues

Various minor changes have been made to tidy up the Rule Set. These are as follows:

- Ensure that defects are not rated unless they are used in condition index calculations.
- Tidy up the defect transformations for DRUT on concrete surfaces, and for some 'Not Assessed' and 'Not Defective' defects. (Defect transformations are used when condition data is processed with inventory data).
- Tidy up some of the supplementary tables controlling the parameters for HRM rutting on a concrete surface with an unknown construction and some 'Not Assessed' and 'Not Defective' defects.
- Remove a redundant treatment rule which may affect SCRIM data being processed with SCANNER/TTS data (for covered concrete or bituminous surface leanmix construction).
- Correct the Wearing Course CI calculation used when DVI data is processed with SCANNER/TTS data for bituminous pavements with an unknown construction.
- Correct the treatment intervention levels for block paved verges and black paved cycletracks



Impact of RP6.01 changes on the BVPIs

The differences between RP5.01 and RP6.01 have no impact on the 2004/05 or 2005/06 BVPI calculations.

Interim Rule Sets

The above changes were issued to UKPMS Developers in stages during 2005 using interim Rule Sets. Although it was not mandatory for Developers to release these interim rule sets to users, some Developers may have chosen to do so, perhaps to tie into a new version of their system. The changes issued within each interim Rule Set are listed below:

RP5.01 patch - Feb 2005

A patch was released for RP5.01 to remove texture from the BVPI 96 calculation. This change was subsequently retracted by DfT (see RP5.03 below).

RP5.02 - Mar 2005

All the changes listed above were initially introduced in RP5.02:

- GripTester Surveys
- New SCANNER defects
- Additional issues

RP5.03 - Mar 2005

RP5.03 reintroduced texture to the BVPI 96 calculation.

RP6.01 - Sep 2005

RP6.01 made minor changes to some of the new SCANNER defects (i.e. those introduced in RP5.02).

Other changes affecting the BVPIs

The other key change which may have an effect on the BVPI calculations for some authorities is the dropping of the distinction between Full & Minimal XSPs. This potentially has an effect on BV224b(97b), used for the unclassified network:

- If parts of the unclassified network were referenced to use Full XSPs and CVI data was collected using Minimal XSPs then previously the CVI data could only be used if inventory was available. Now the CVI data is no longer mapped and so it is still processed even if inventory is not available. Since all authorities should have ensured that inventory was available to process Min CVI data on Full Sections this potential difference is not anticipated to arise in practice to any significant level.
- If parts of the unclassified network were referenced to use Full XSPs and have been surveyed but no defects have been recorded (i.e. the section is not defective), then using BV224b(97b) the surveyed length will be assumed to be the section length. UKPMS Developers have been recommended to warn you of this occurrence. In order to invoke the previous calculation for the surveyed length (i.e. section length multiplied by number of lanes) you need to ensure that there is a defect (e.g. 'not defective') recorded at some point on such sections in a Full XSP (e.g. CL1).



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- If parts of the unclassified network were referenced to use Full XSPs and have not been surveyed then the BVPI calculation of the total possible survey length in lane-km may be affected. This will not directly affect your BVPI result, but it may affect the figure giving the percentage surveyed.

Note that if your unclassified network was referenced to use Minimal XSPs then the change to XSP levels will have no effect on your BVPI.