

Summary of P8 Calibrations to SLAMM Rv Curves

SLAMM Rv Table = WI_SL06.RSV

Impervious Area Category	DS	R1	R2	BP
Flat Roofs	0.080	0.907	1.00	0.80
Pitched Roofs	0.030	1.000	1.00	0.80
Impervious	0.002	0.973	1.00	0.80
Unpaved	0.200	0.962	1.00	0.80
Smooth-Textured Streets	0.022	0.701	1.00	0.80
Intermediate-Textured Streets	0.025	0.644	1.00	0.80
Rough-Textured Streets	0.030	0.654	1.00	0.80

DS Depression Storage (inches)

R1 Runoff Coefficient for Small Storms ($> DS$ & $\leq BP$)

R2 Runoff Coefficient for Large Storms ($> BP$)

BP Breakpoint (inches)

DS & R1 calibrated to Rv curves by least squares

BP adjusted manually to provide best overall fit for streets & flat roofs

Results insensitive to BP for other categories

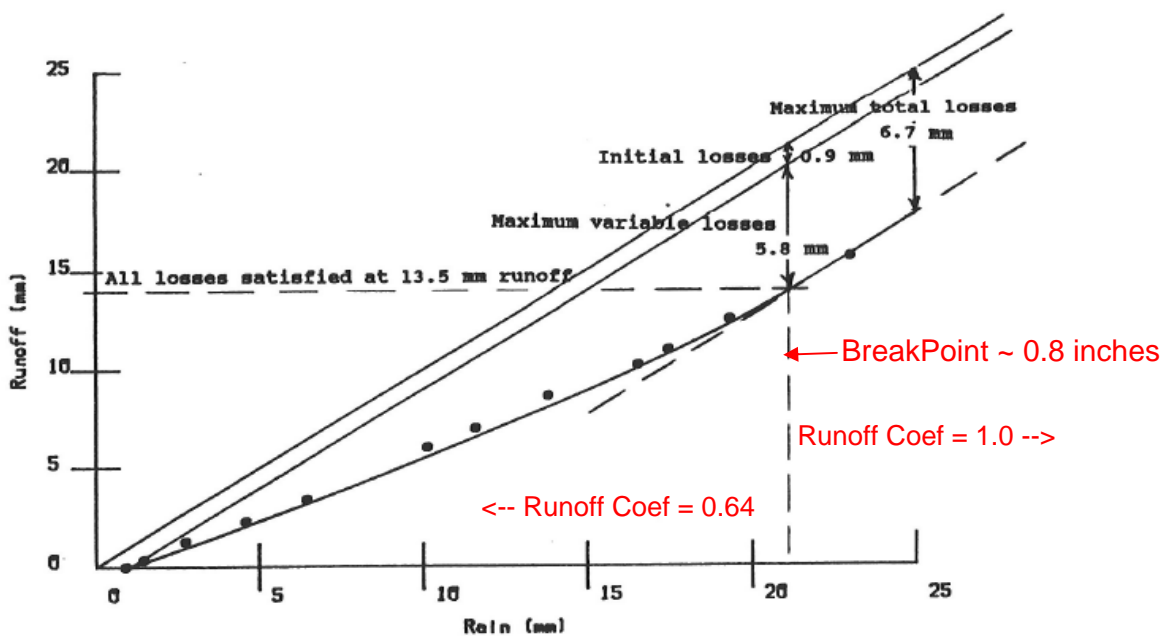
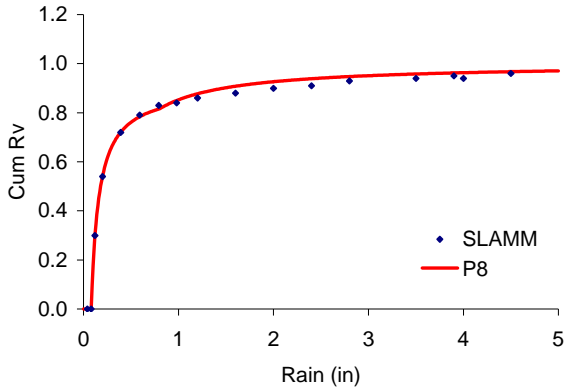


Figure 6. Example pavement rainfall-runoff test plot (Pitt 1987).

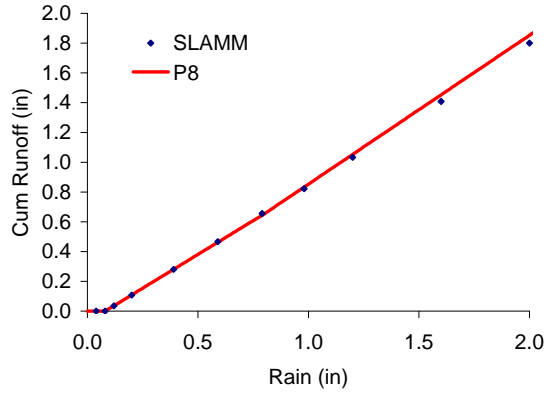
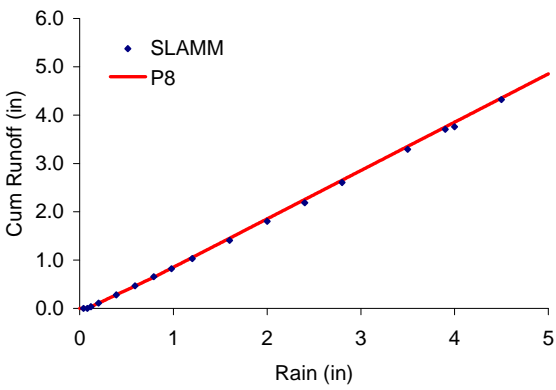
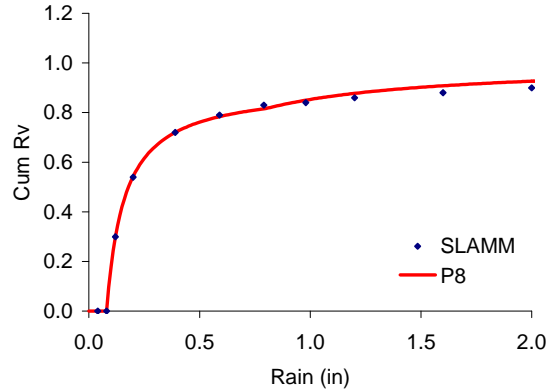
P8 Calibration to SLAMM Impervious Area Runoff Curves
 SLAMM Impervious Area Category: Flat Roofs

SLAMM Rv Table = WI_SL06.RSV

All Storms <= 5 inches



Small Storms <= 2 inches



SLAMM Category: Flat Roofs

P8 Coefficients

Depression Storage (inches) *	0.080	
Runoff Coefficient 1 *	0.907	For Cumulative Rain < Breakpoint
Runoff Coefficient 2	1.000	For Cumulative Rain > Breakpoint
Breakpoint (inches)	0.800	

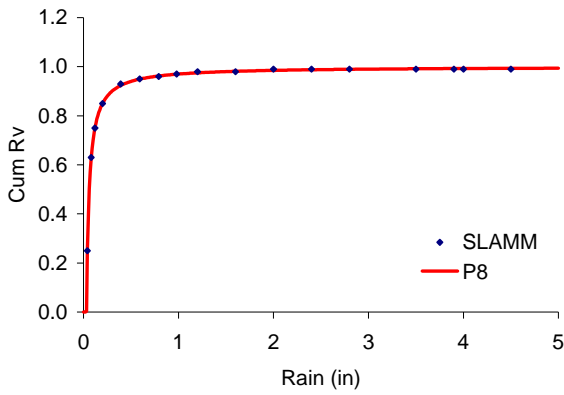
* Least squares estimates using Excel Solver; Others constrained.

P8 Calibration to SLAMM Impervious Area Runoff Curves

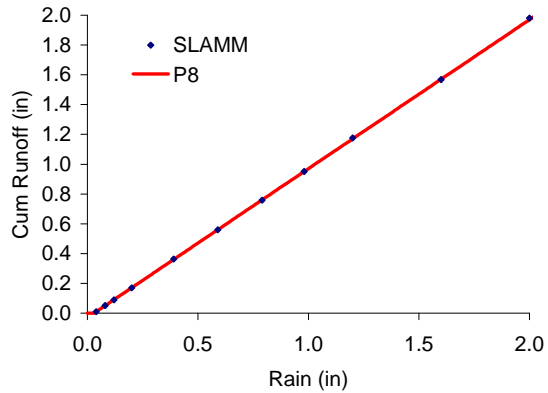
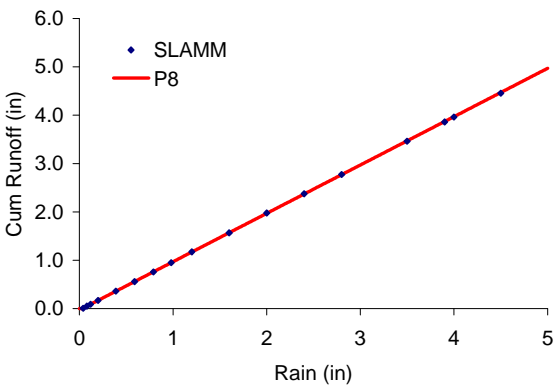
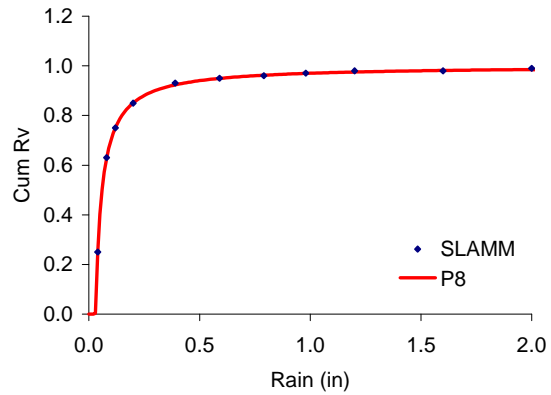
SLAMM Rv Table = WI_SL06.RSV

SLAMM Impervious Area Category: Pitched Roofs

All Storms <= 5 inches



Small Storms <= 2 inches



SLAMM Category: Pitched Roofs

P8 Coefficients

Depression Storage (inches) *	0.030	
Runoff Coefficient 1 *	1.000	For Cumulative Rain < Breakpoint
Runoff Coefficient 2	1.000	For Cumulative Rain > Breakpoint
Breakpoint (inches)	0.800	

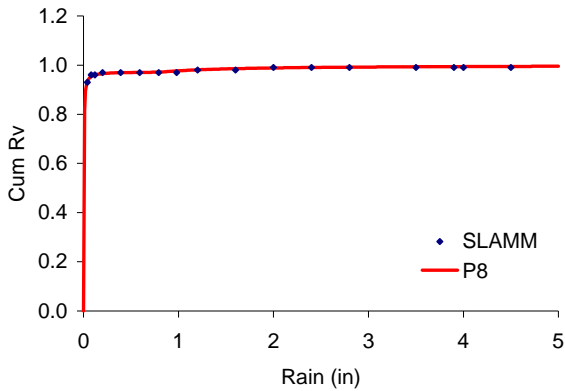
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P8 Calibration to SLAMM Impervious Area Runoff Curves

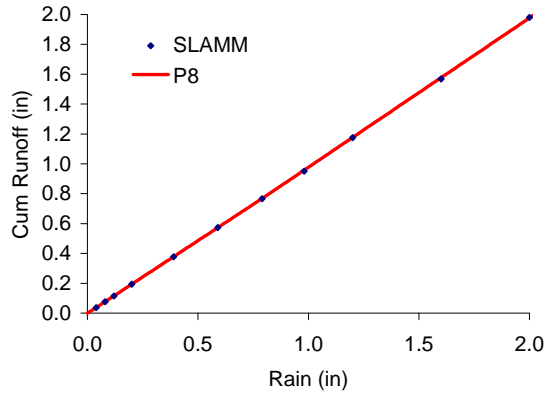
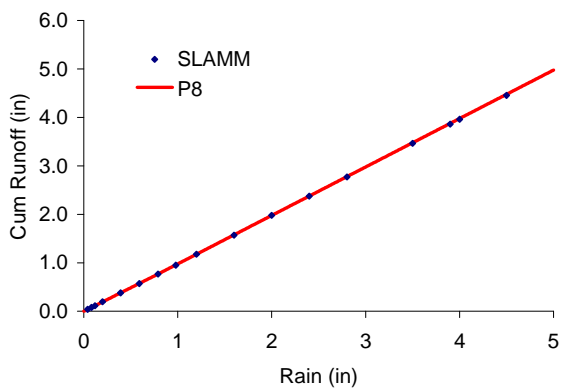
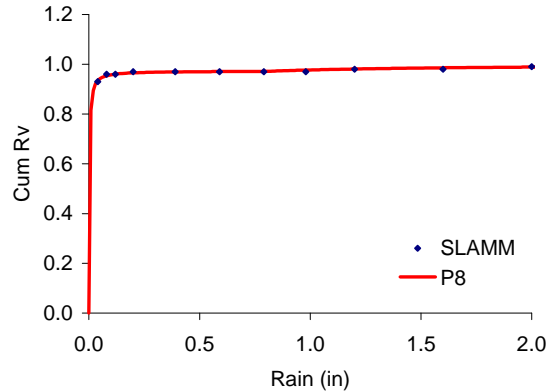
SLAMM Rv Table = WI_SL06.RSV

SLAMM Impervious Area Category: Impervious

All Storms <= 5 inches



Small Storms <= 2 inches



SLAMM Category: Impervious

P8 Coefficients

Depression Storage (inches) *	0.002	
Runoff Coefficient 1 *	0.973	For Cumulative Rain < Breakpoint
Runoff Coefficient 2	1.000	For Cumulative Rain > Breakpoint
Breakpoint (inches)	0.800	

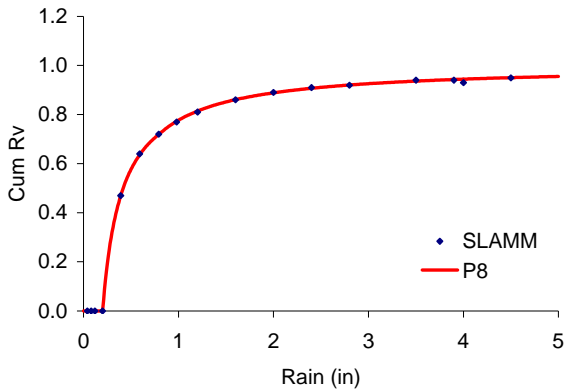
* Least squares estimates using Excel Solver; Others constrained.

P8 Calibration to SLAMM Impervious Area Runoff Curves

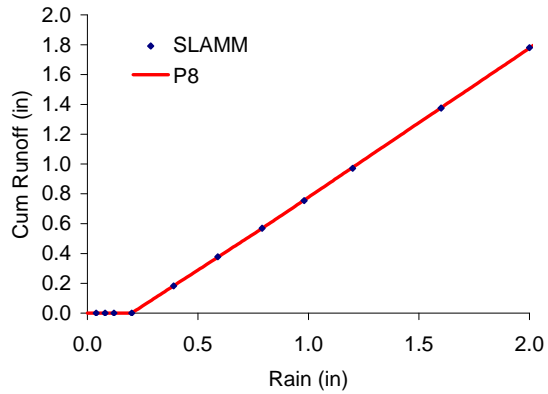
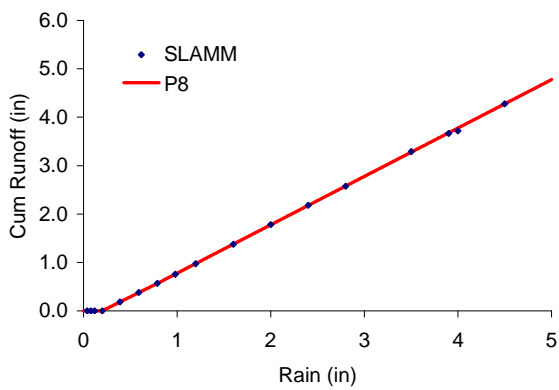
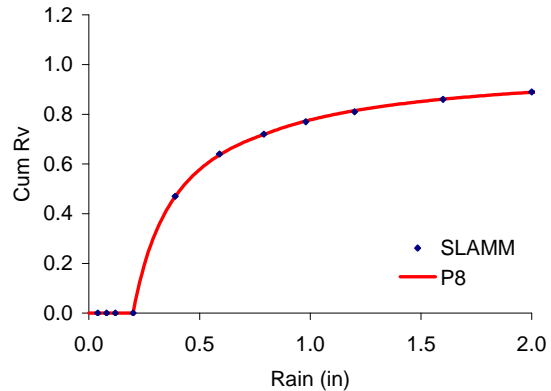
SLAMM Rv Table = WI_SL06.RSV

SLAMM Impervious Area Category: Unpaved

All Storms <= 5 inches



Small Storms <= 2 inches



SLAMM Category: Unpaved

P8 Coefficients

Depression Storage (inches) *	0.200	
Runoff Coefficient 1 *	0.962	For Cumulative Rain < Breakpoint
Runoff Coefficient 2	1.000	For Cumulative Rain > Breakpoint
Breakpoint (inches)	0.800	

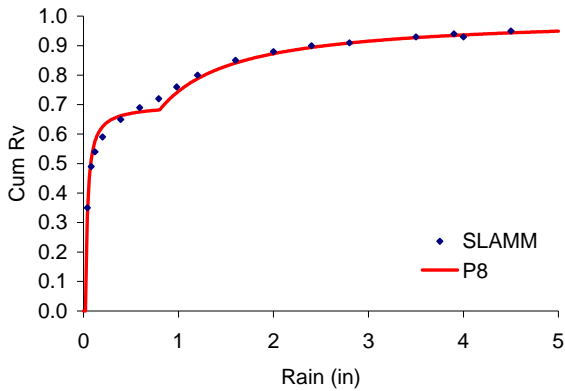
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P8 Calibration to SLAMM Impervious Area Runoff Curves

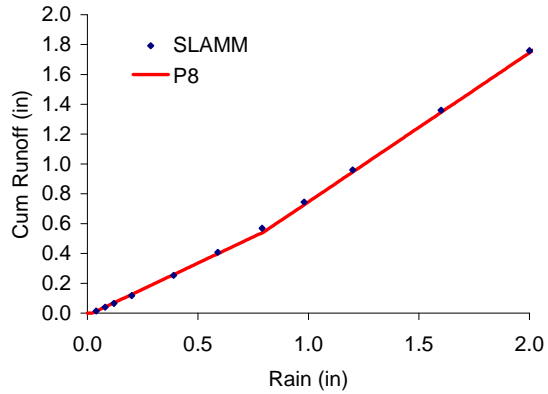
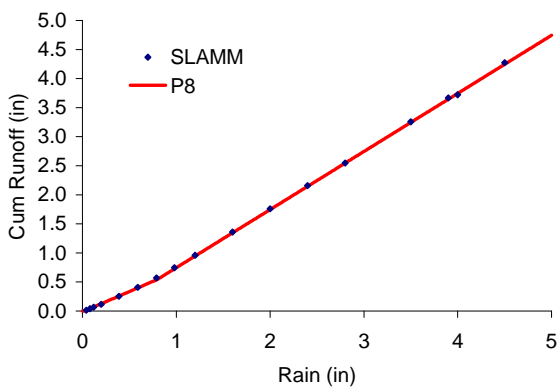
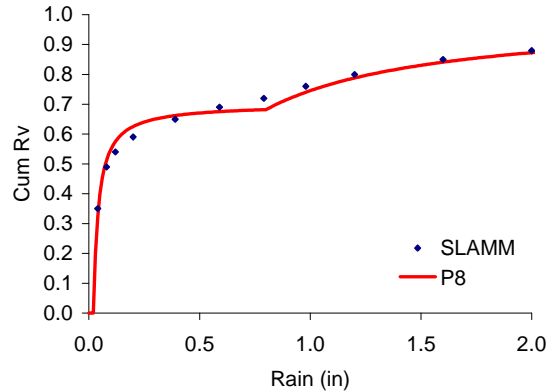
SLAMM Rv Table = WI_SL06.RSV

SLAMM Impervious Area Category: Smooth-Textured Streets

All Storms <= 5 inches



Small Storms <= 2 inches



SLAMM Category: Smooth-Textured Streets

P8 Coefficients

Depression Storage (inches) *	0.022	
Runoff Coefficient 1 *	0.701	For Cumulative Rain < Breakpoint
Runoff Coefficient 2	1.000	For Cumulative Rain > Breakpoint
Breakpoint (inches)	0.800	

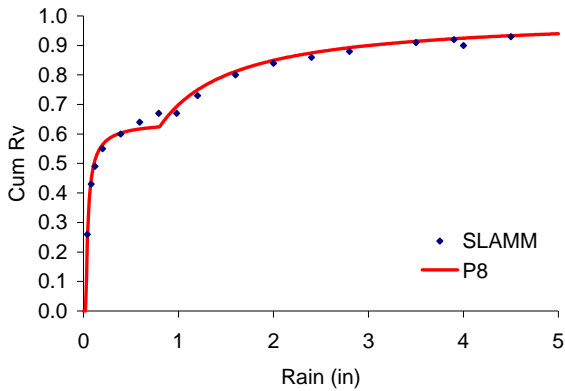
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P8 Calibration to SLAMM Impervious Area Runoff Curves

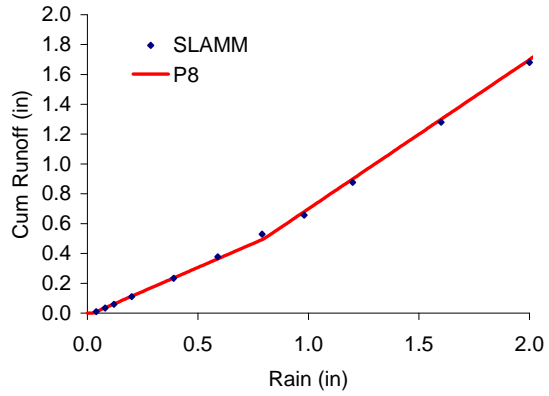
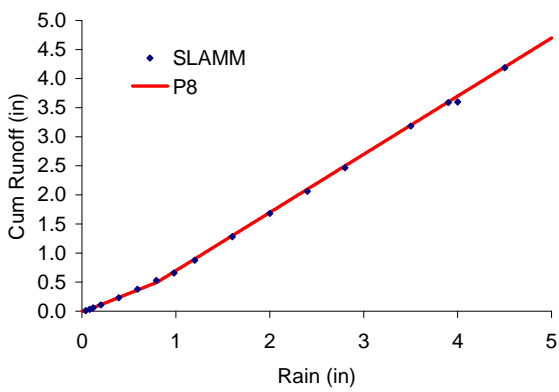
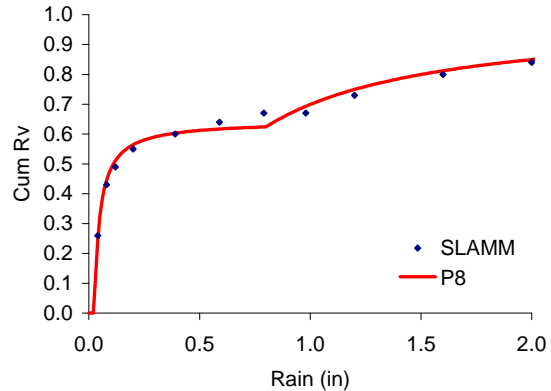
SLAMM Rv Table = WI_SL06.RSV

SLAMM Impervious Area Category: Intermediate-Textured Streets

All Storms <= 5 inches



Small Storms <= 2 inches



SLAMM Category: Intermediate-Textured Streets

P8 Coefficients

Depression Storage (inches) *	0.025	
Runoff Coefficient 1 *	0.644	For Cumulative Rain < Breakpoint
Runoff Coefficient 2	1.000	For Cumulative Rain > Breakpoint
Breakpoint (inches)	0.800	

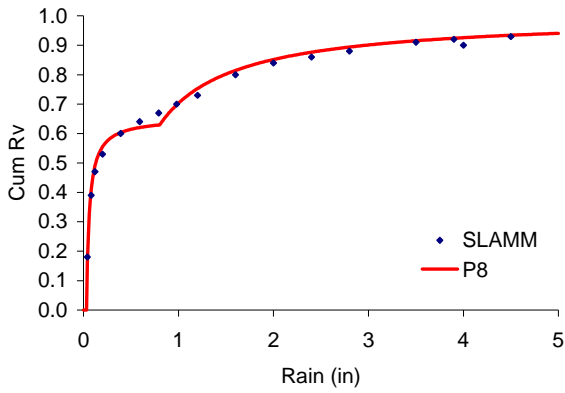
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P8 Calibration to SLAMM Impervious Area Runoff Curves

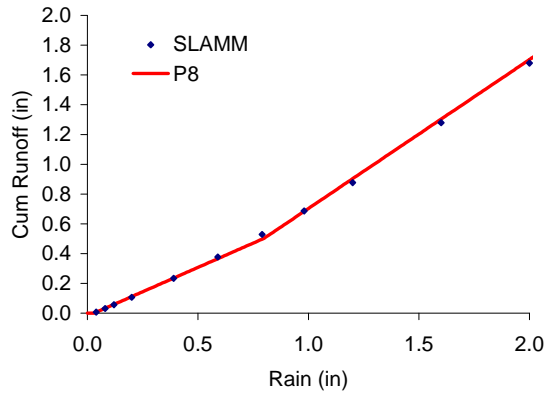
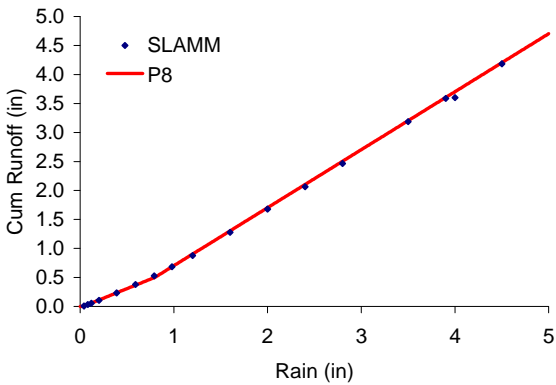
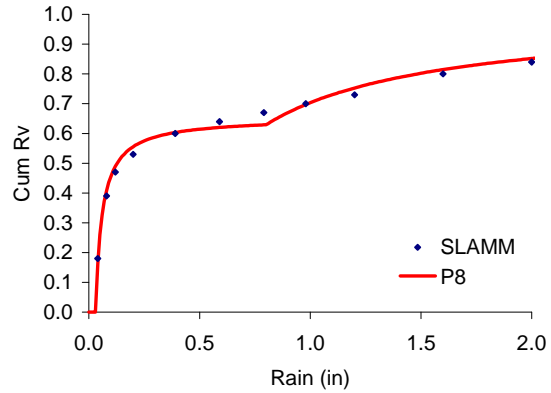
SLAMM Rv Table = WI_SL06.RSV

SLAMM Impervious Area Category: Rough-Textured Streets

All Storms <= 5 inches



Small Storms <= 2 inches



SLAMM Category: Rough-Textured Streets

P8 Coefficients

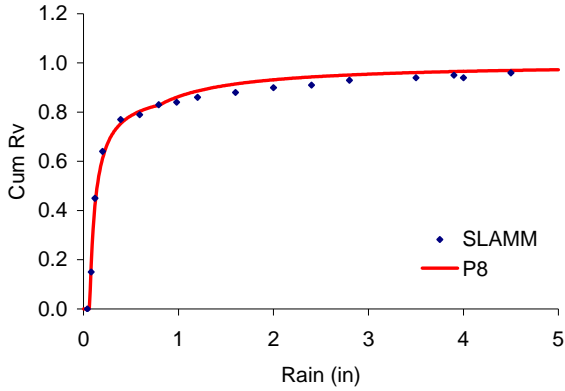
Depression Storage (inches) *	0.030	
Runoff Coefficient 1 *	0.654	For Cumulative Rain < Breakpoint
Runoff Coefficient 2	1.000	For Cumulative Rain > Breakpoint
Breakpoint (inches)	0.800	

* Least squares estimates using Excel Solver; Others constrained.

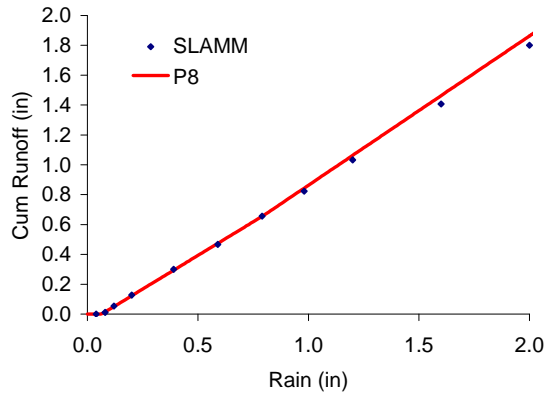
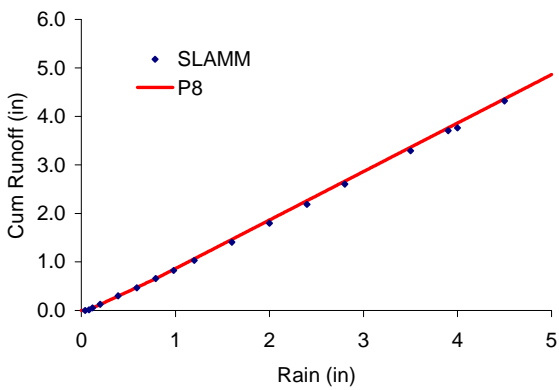
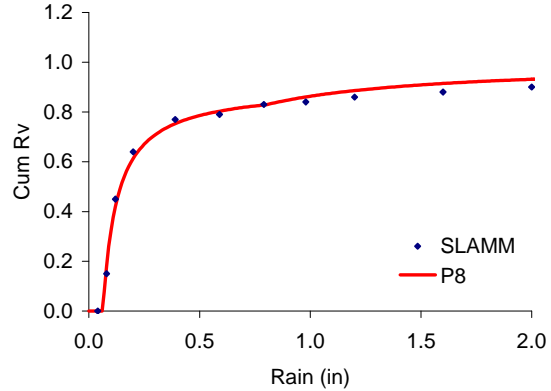
P8 Calibration to SLAMM Impervious Area Runoff Curves
 SLAMM Impervious Area Category: SL01 Flat Roof

SLAMM Rv Table = WI_SL06.RSV

All Storms <= 5 inches



Small Storms <= 2 inches



SLAMM Category: SL01 Flat Roof

P8 Coefficients

Depression Storage (inches) *	0.064	
Runoff Coefficient 1 *	0.901	For Cumulative Rain < Breakpoint
Runoff Coefficient 2	1.000	For Cumulative Rain > Breakpoint
Breakpoint (inches)	0.800	

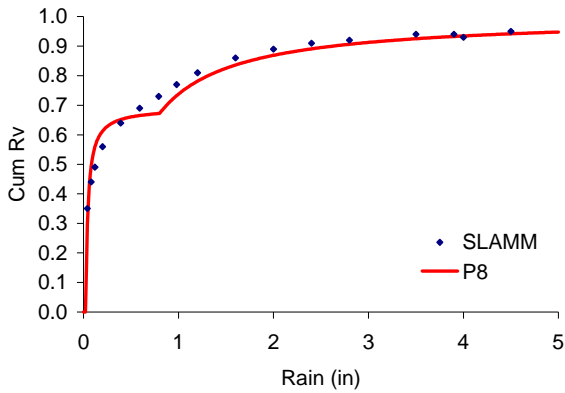
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P8 Calibration to SLAMM Impervious Area Runoff Curves

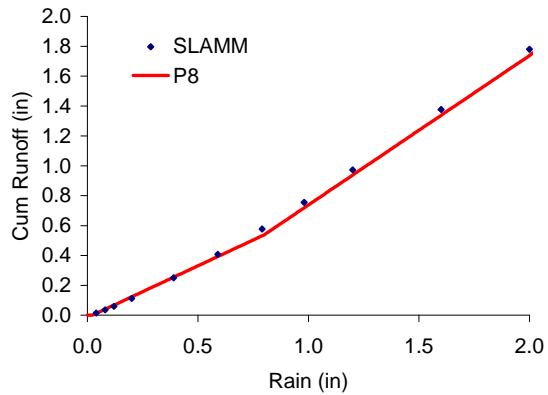
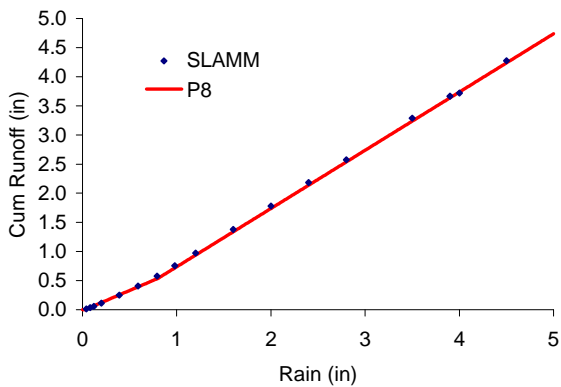
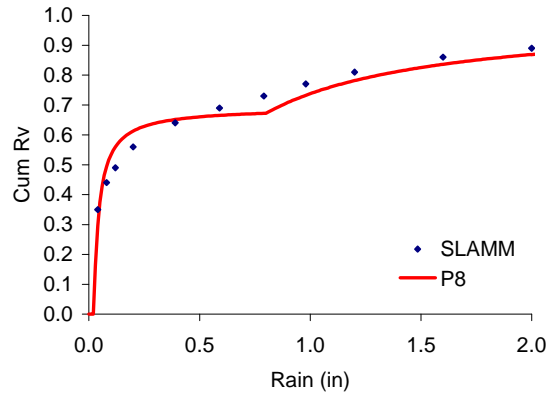
SLAMM Rv Table = WI_SL06.RSV

SLAMM Impervious Area Category: SL01 Impervious

All Storms <= 5 inches



Small Storms <= 2 inches



SLAMM Category: SL01 Impervious

P8 Coefficients

Depression Storage (inches) *	0.023	
Runoff Coefficient 1 *	0.692	For Cumulative Rain < Breakpoint
Runoff Coefficient 2	1.000	For Cumulative Rain > Breakpoint
Breakpoint (inches)	0.800	

* Least squares estimates using Excel Solver; Others constrained.