

Article

WinSLAMM Simulation of Hydrologic Performance of Permeable Pavements—A Case Study in the Semi-Arid Lower Rio Grande Valley of South Texas, United States

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supplementary materials

The following supplementary materials can be found in this document:

- **Table S1.** Field-observed and WinSLAMM model-predicted runoff reduction results for the City Brownsville (COB) - Porous Concrete Pavement (PCP) for different rainfall events.
- **Table S2.** Field-observed and WinSLAMM model-predicted runoff reduction results for the Cameron County Drainage District#1 (CCDD#1) – Permeable Interlocking Concrete Pavement (PICP) for different rainfall events.
- **Table S3.** Field-observed and WinSLAMM model-predicted runoff reduction results for the City of La Feria (COLF) – Interlocking Block Pavement with Gravel (IBPG) for different rainfall events.

Table S1. Field-observed and WinSLAMM model-predicted runoff reduction results for the City Brownsville (COB) - Porous Concrete Pavement (PCP) for different rainfall events.

Date	Rainfall (mm)	PCP Observed Runoff Reduction (mm)	PCP Model-Predicted Runoff Reduction (mm)
09/05/2014	8	20	27
09/12/2014	18	55	53
09/13/2014	67	166	155
09/14/2014	20	53	58
09/20/2014	14	13	45
09/25/2014	10	31	32
09/28/2014	4	13	13
10/18/2014	13	41	39
10/21/2014	6	20	20
10/22/2014	53	112	124
11/05/2014	4	12	12
11/06/2014	27	87	79
11/07/2014	34	109	91
11/12/2014	7	21	21

Table S2. Field-observed and WinSLAMM model-predicted runoff reduction results for the Cameron County Drainage District#1 (CCDD#1) – Permeable Interlocking Concrete Pavement (PICP) for different rainfall events.

Date	Rainfall (mm)	PICP Observed Runoff Reduction (mm)	PICP Model-Predicted Runoff Reduction (mm)
08/14/2014	2	3	3
09/07/2014	5	6	8
09/11/2014	6	9	9
09/13/2014	67	72	63
09/16/2014	5	9	9
09/27/2014	6	10	10
10/18/2014	67	66	61
10/22/2014	17	25	27
10/31/2014	7	11	11
11/06/2014	25	41	37
11/07/2014	39	64	46
12/07/2014	18	29	28
12/08/2014	15.75	26	23
02/04/2015	2.29	4	4

Table S3. Field-observed and WinSLAMM model-predicted runoff reduction results for the City of La Feria (COLF) – Interlocking Block Pavement with Gravel (IBPG) for different rainfall events.

Date	Rainfall (mm)	IBPG Observed Normalized Reduction (mm)	IBPG Model Predicted Runoff Reduction (mm)
05/09/2014	19	43	37
05/13/2014	30	61	53
05/28/2014	23	38	44
06/25/2014	6	14	14
07/10/2014	18	30	35
07/18/2014	25	51	47
08/29/2014	11	9	24
09/02/2014	7	15	15
09/12/2014	23	50	43
09/13/2014	70	91	105
09/14/2014	4	10	10
09/15/2014	7	15	16
09/20/2014	3	5	5
09/21/2014	4	9	8
09/27/2014	31.24	65	55
10/11/2014	11.94	25	25
10/21/2014	7.11	18	16
11/06/2014	30.73	57	54
11/07/2014	7.11	7	16
11/12/2014	20.32	50	39
11/22/2014	4.32	11	10
11/23/2014	27.69	32	50
12/06/2014	17.02	41	34
12/28/2014	8.89	22	20
01/10/2015	28.96	28	52
03/09/2015	16.51	39	33
03/10/2015	2.29	2	5
03/21/2015	6.86	17	16
04/10/2015	3.81	9	9
04/11/2015	2.29	6	5
04/12/2015	10.92	21	23
04/21/2015	11.68	29	25
04/24/2015	2.03	2	5
04/25/2015	6.10	15	14
05/12/2015	20.32	32	39
05/13/2015	4.32	11	10
05/21/2015	8.64	18	19
08/20/2015	55.63	110	87
09/01/2015	3.81	9	9
09/03/2015	8.13	20	18
09/12/2015	5.33	13	13
09/29/2015	2.79	7	7
09/30/2015	2.79	7	7
10/08/2015	3.30	8	8
10/10/2015	2.29	6	5

10/17/2015	2.54	6	6
10/22/2015	14.22	35	30
10/23/2015	5.84	14	14
10/24/2015	16.00	40	33
10/25/2015	16.51	41	33
10/30/2015	16.26	40	33
11/20/2015	14.73	37	31
11/25/2015	3.05	8	7
11/29/2015	2.29	6	5
01/01/2016	2.79	5	7
03/19/2016	4.06	9	10



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