1 year Return Period Summary of Critical Results by Maximum Flood Volume (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	0
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.339
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	ON
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	1	360 Winter	1	+0%	100/15 Summer			
1.001	2	360 Winter	1	+0%				
1.002	3	360 Winter	1	+0%	100/30 Summer			
1.003	4	360 Winter	1	+0%	100/30 Summer	100/120 Winter		
2.000	5	360 Winter	1	+0%				
1.004	5	360 Winter	1	+0%	1/15 Summer			

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	1	188.364	-0.086	0.000	0.04		0.3	OK	
1.001	2	188.079	-0.096	0.000	0.01		0.3	OK	
1.002	3	185.916	-0.554	0.000	0.00		0.5	OK	
1.003	4	185.916	-0.484	0.000	0.00		0.6	OK	1
2.000	5	188.415	-0.135	0.000	0.02		0.7	OK	
1.004	5	185.916	0.006	0.000	0.07		1.0	SURCHARGED	

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30 year Return Period Summary of Critical Results by Maximum Flood Volume (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	0
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model		FSR	Ratio R 0.339
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	ON
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	1	360 Winter	30	+0%	100/15 Summer			
1.001	2	360 Winter	30	+0%				
1.002	3	360 Winter	30	+0%	100/30 Summer			
1.003	4	360 Winter	30	+0%	100/30 Summer	100/120 Winter		
2.000	5	360 Winter	30	+0%				
1.004	5	360 Winter	30	+0%	1/15 Summer			

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	1	188.371	-0.079	0.000	0.10		0.7	OK	
1.001	2	188.084	-0.091	0.000	0.02		0.7	OK	
1.002	3	186.127	-0.343	0.000	0.00		1.0	OK	
1.003	4	186.128	-0.272	0.000	0.00		0.9	OK	1
2.000	5	188.420	-0.130	0.000	0.04		1.6	OK	
1.004	5	186.126	0.216	0.000	0.11		1.6	SURCHARGED	

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100 year Return Period Summary of Critical Results by Maximum Flood Volume (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coeffiecient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	0
Number of Online Controls	1	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.339
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	19.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	ON
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	1	360 Winter	100	+40%	100/15 Summer			
1.001	2	360 Winter	100	+40%				
1.002	3	360 Winter	100	+40%	100/30 Summer			
1.003	4	120 Winter	100	+40%	100/30 Summer	100/120 Winter		
2.000	5	360 Winter	100	+40%				
1.004	5	360 Winter	100	+40%	1/15 Summer			

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	1	188.378	-0.072	0.000	0.18		1.2	OK	
1.001	2	188.087	-0.088	0.000	0.03		1.2	OK	
1.002	3	186.760	0.290	0.000	0.01		1.8	SURCHARGED	
1.003	4	187.300	0.900	0.454	0.01		1.7	FLOOD	1
2.000	5	188.428	-0.122	0.000	0.08		3.0	OK	
1.004	5	186.760	0.850	0.000	0.18		2.7	SURCHARGED	

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