

SUPPLEMENTAL MATERIALS

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Drainage Alternatives for Rain Gardens on Subsoil of Low Permeability: Balance among Ponding Time, Soil Moisture, and Runoff Reduction

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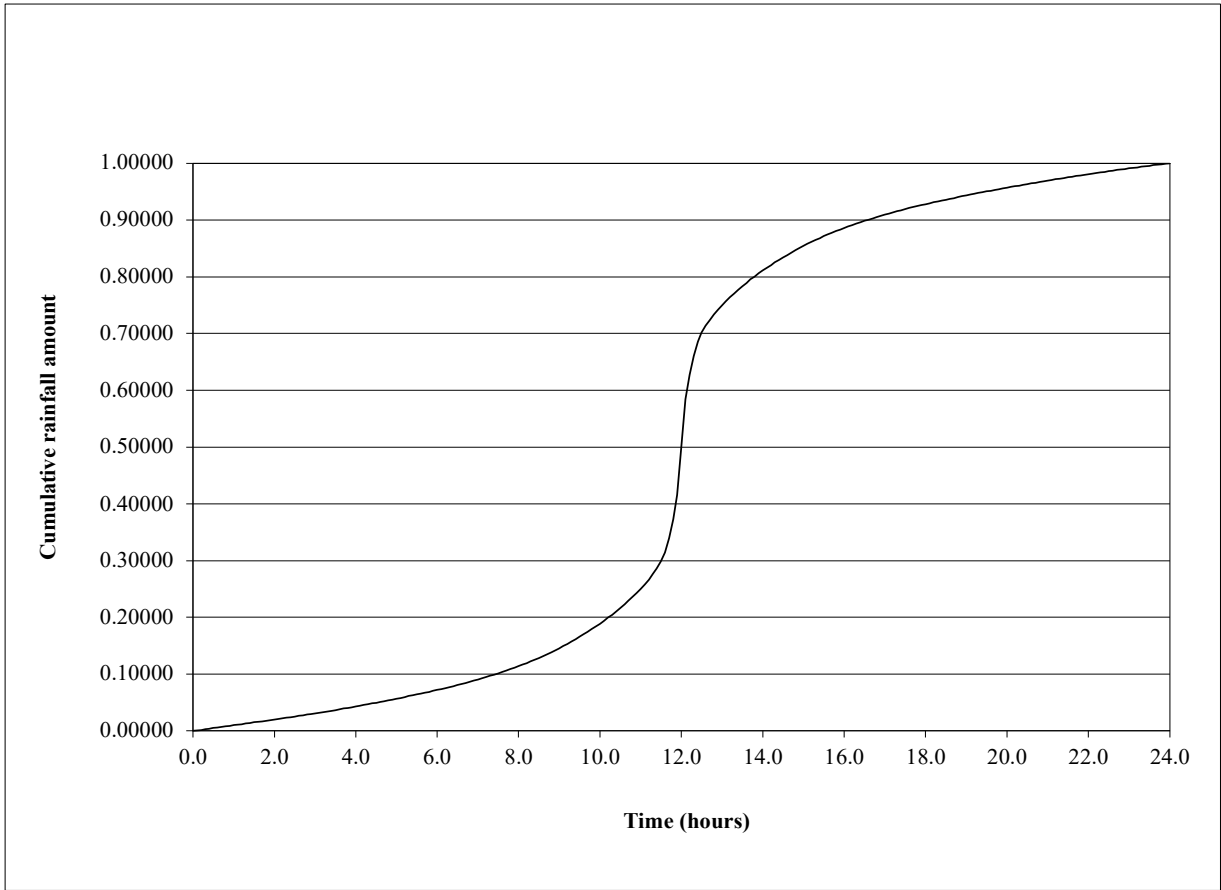


Fig. S1. NRCS type III 24-hour rainfall storm distribution

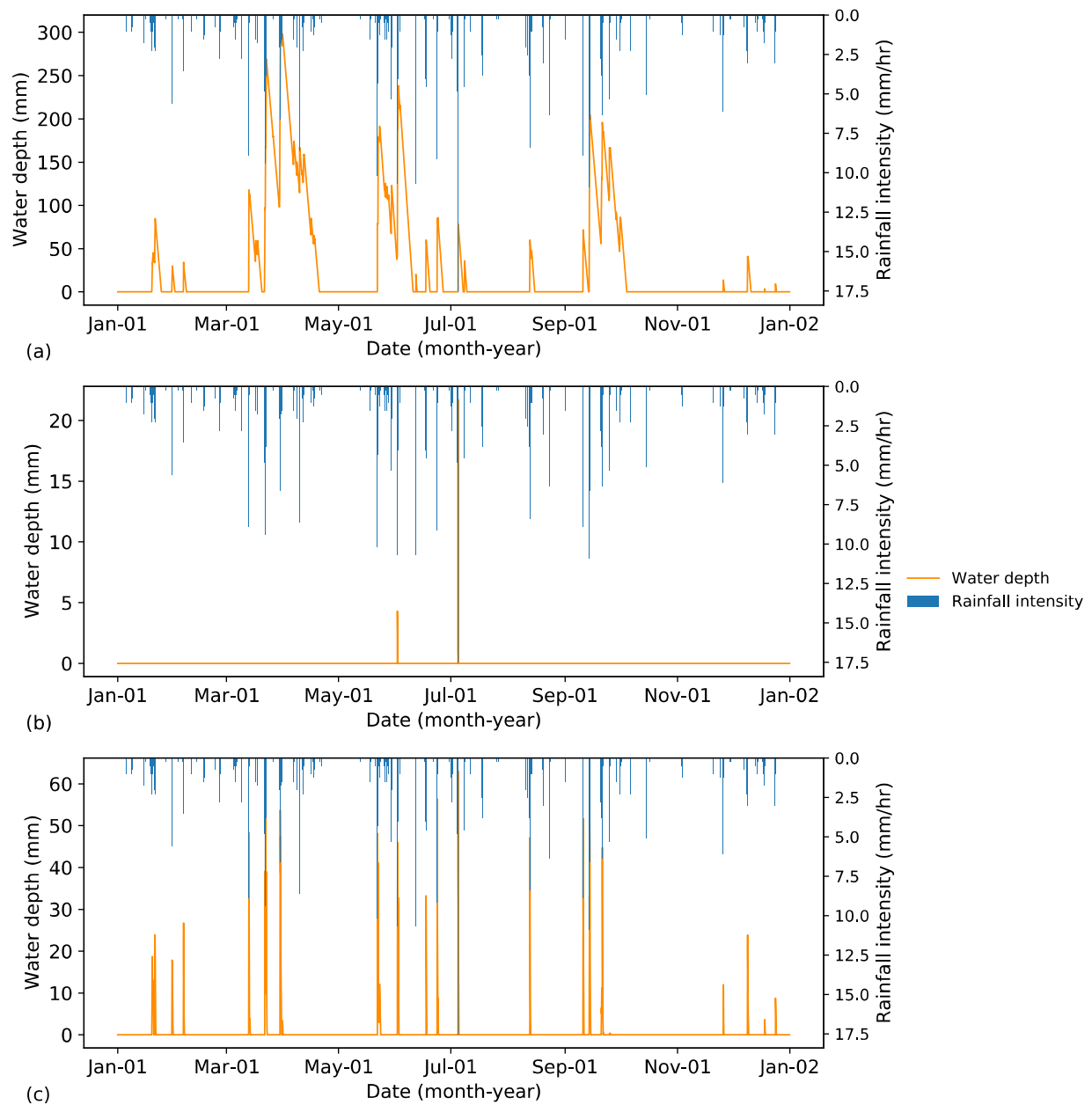


Fig. S2. Standing water depth over an entire year 2001 for each drainage design: (a) no drain; (b) underdrain (25.4 mm/hr); (c) surface drain (63.5 mm)

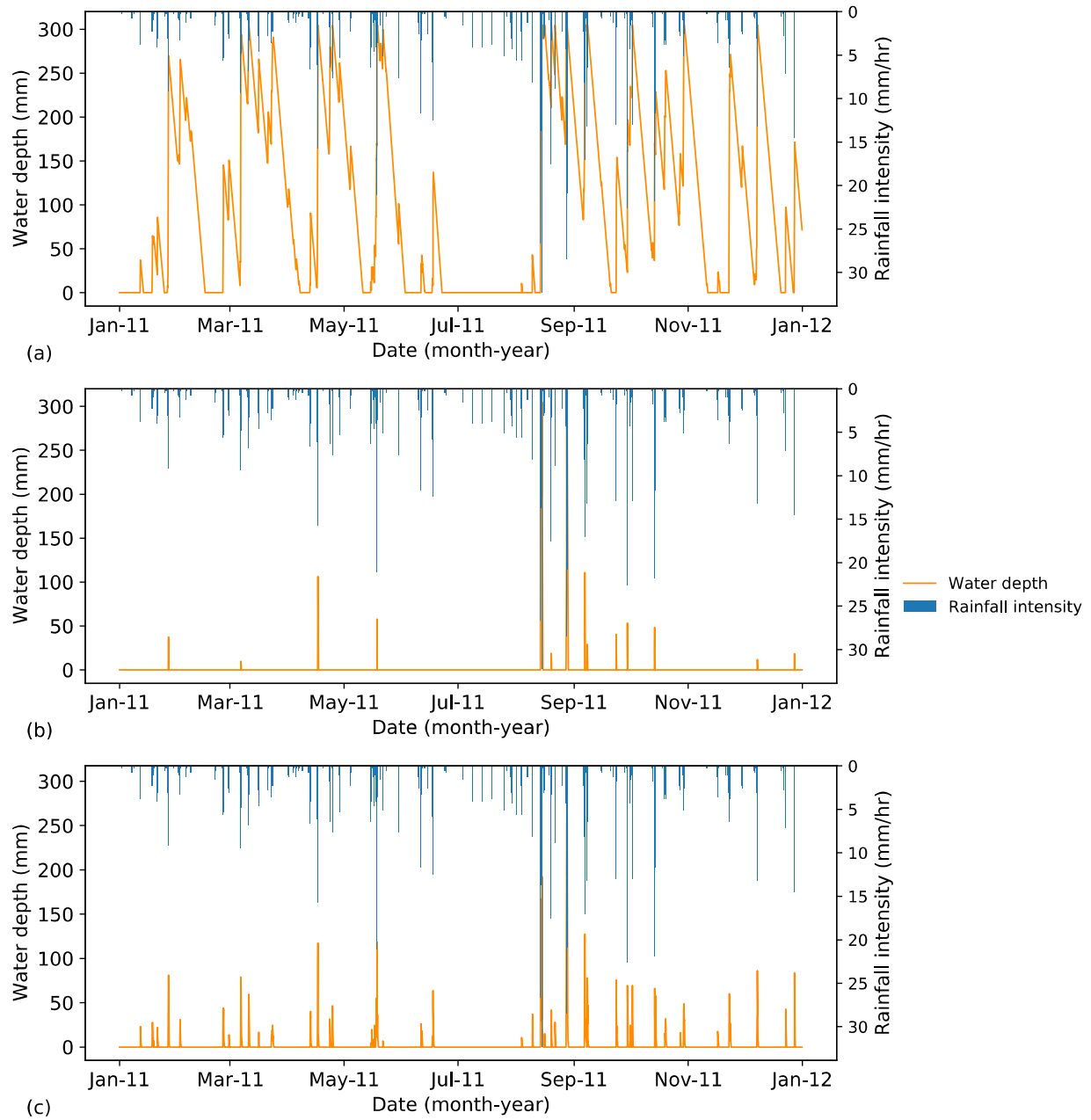


Fig. S4. Standing water depth over an entire year 2011 for each drainage design: (a) no drain; (b) underdrain (25.4 mm/hr); (c) surface drain (63.5 mm)

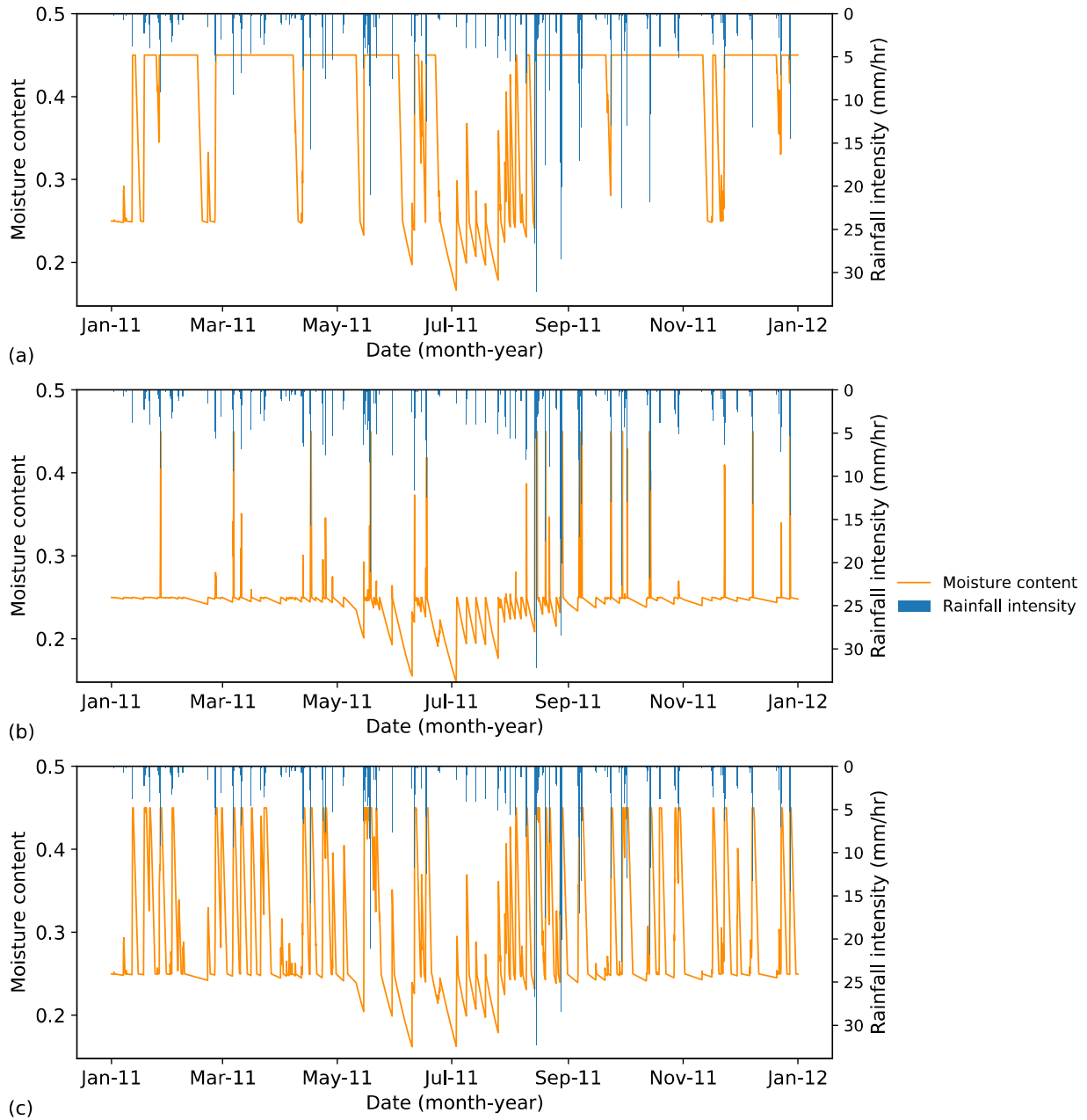


Fig. S5. Soil moisture content and rainfall intensity over an entire year 2011 for each drainage design: (a) no drain; (b) underdrain (25.4 mm/hr); (c) surface drain (63.5 mm)

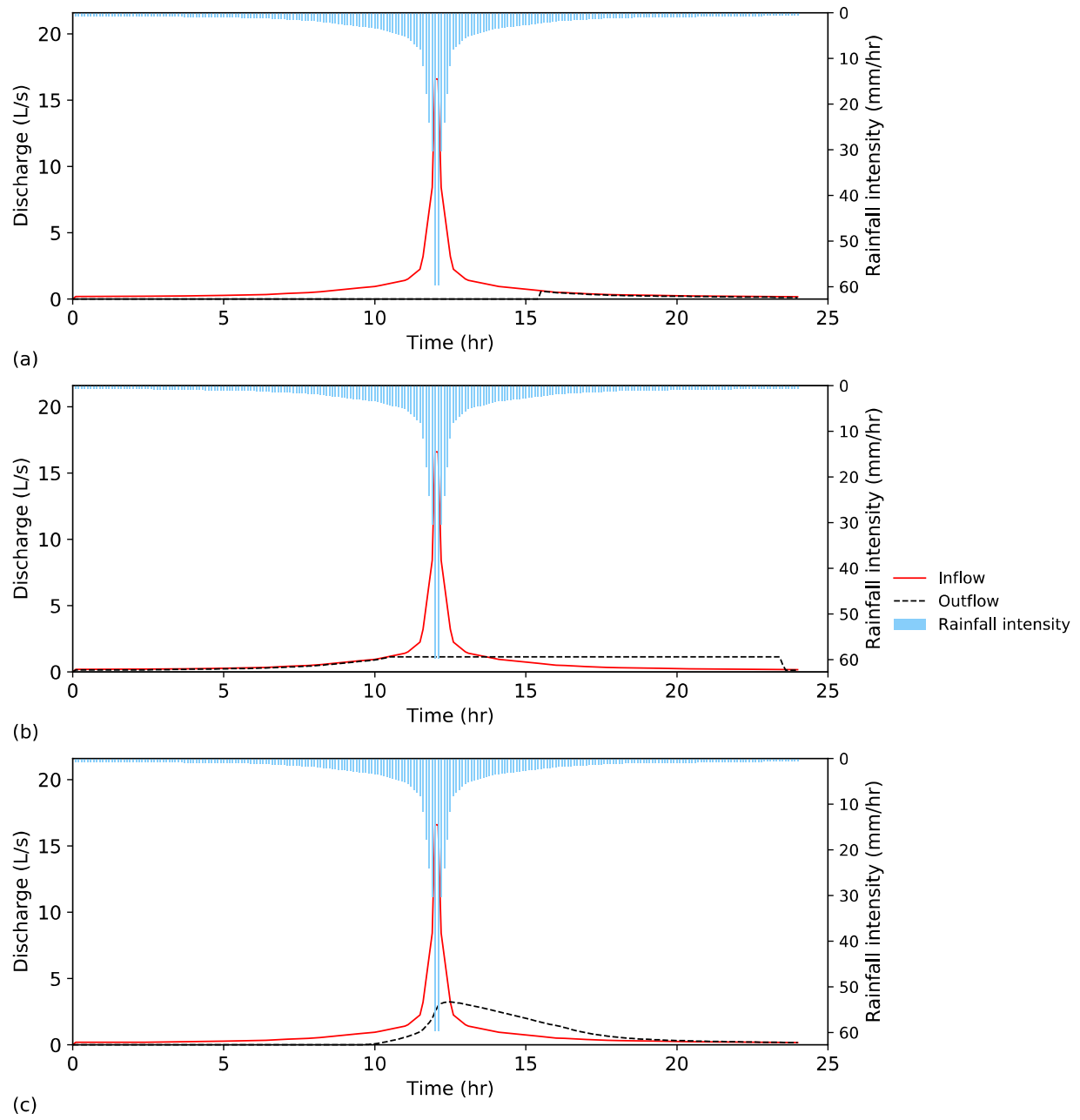


Fig. S6. Inflow and outflow hydrographs at 1-year storm for each drainage design: (a) no drain; (b) underdrain design (25.4 mm/hr); (c) surface drain design (63.5 mm)

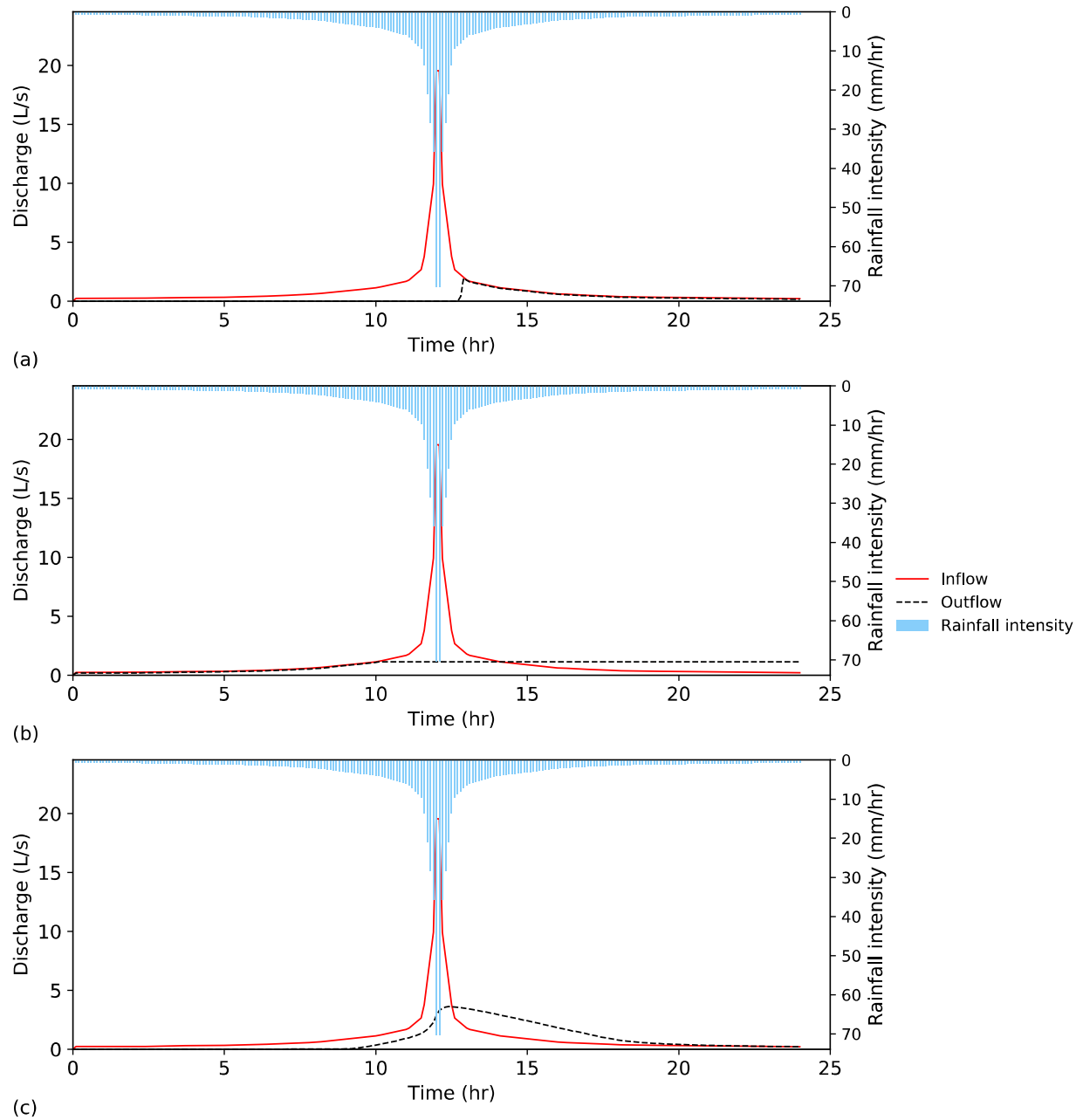


Fig. S7. Inflow and outflow hydrographs at 2-year storm for each drainage design: (a) no drain; (b) underdrain design (25.4 mm/hr); (c) surface drain design (63.5 mm)

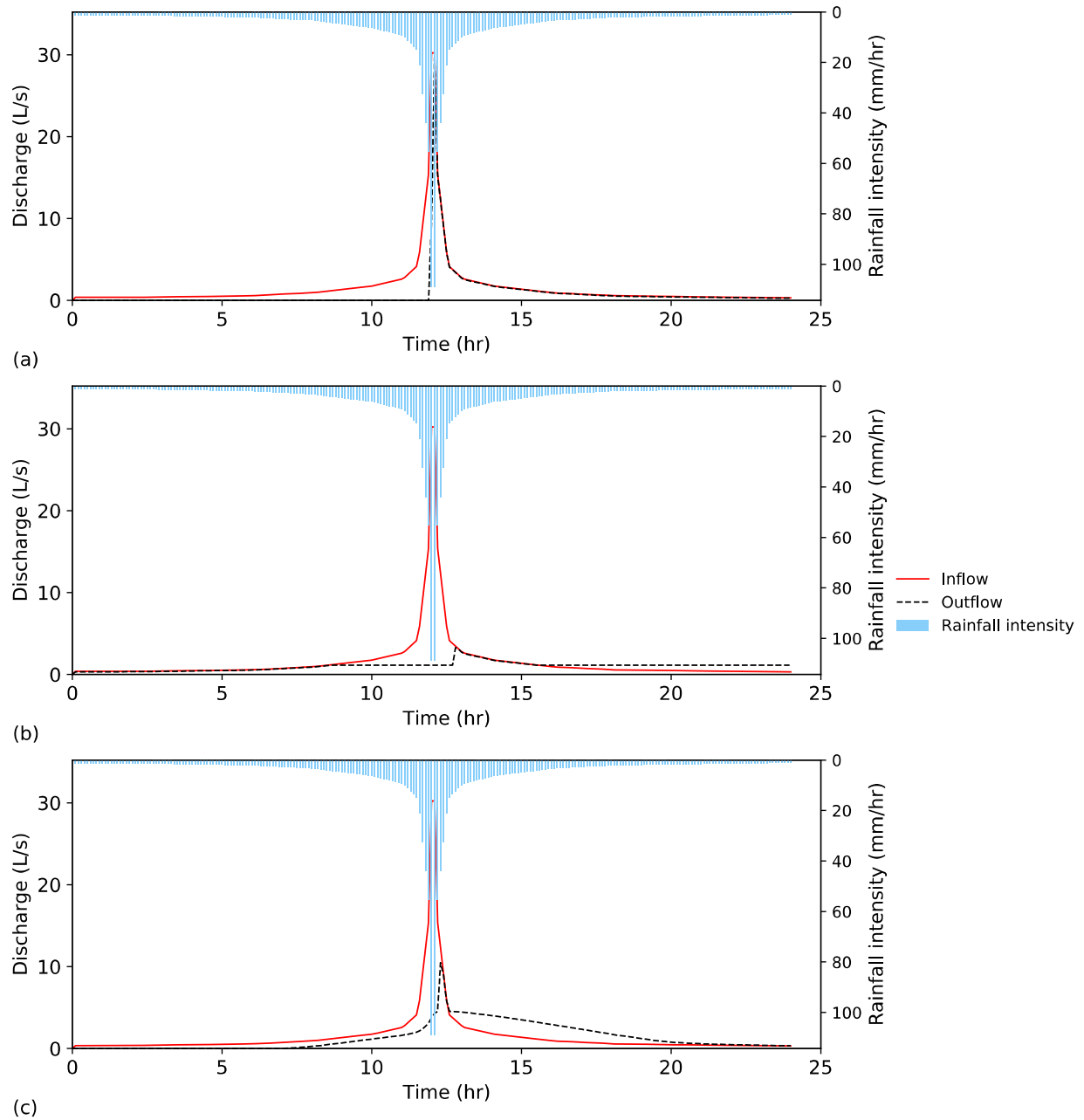


Fig. S8. Inflow and outflow hydrographs at 10-year storm for each drainage design: (a) no drain; (b) underdrain design (25.4 mm/hr); (c) surface drain design (63.5 mm)

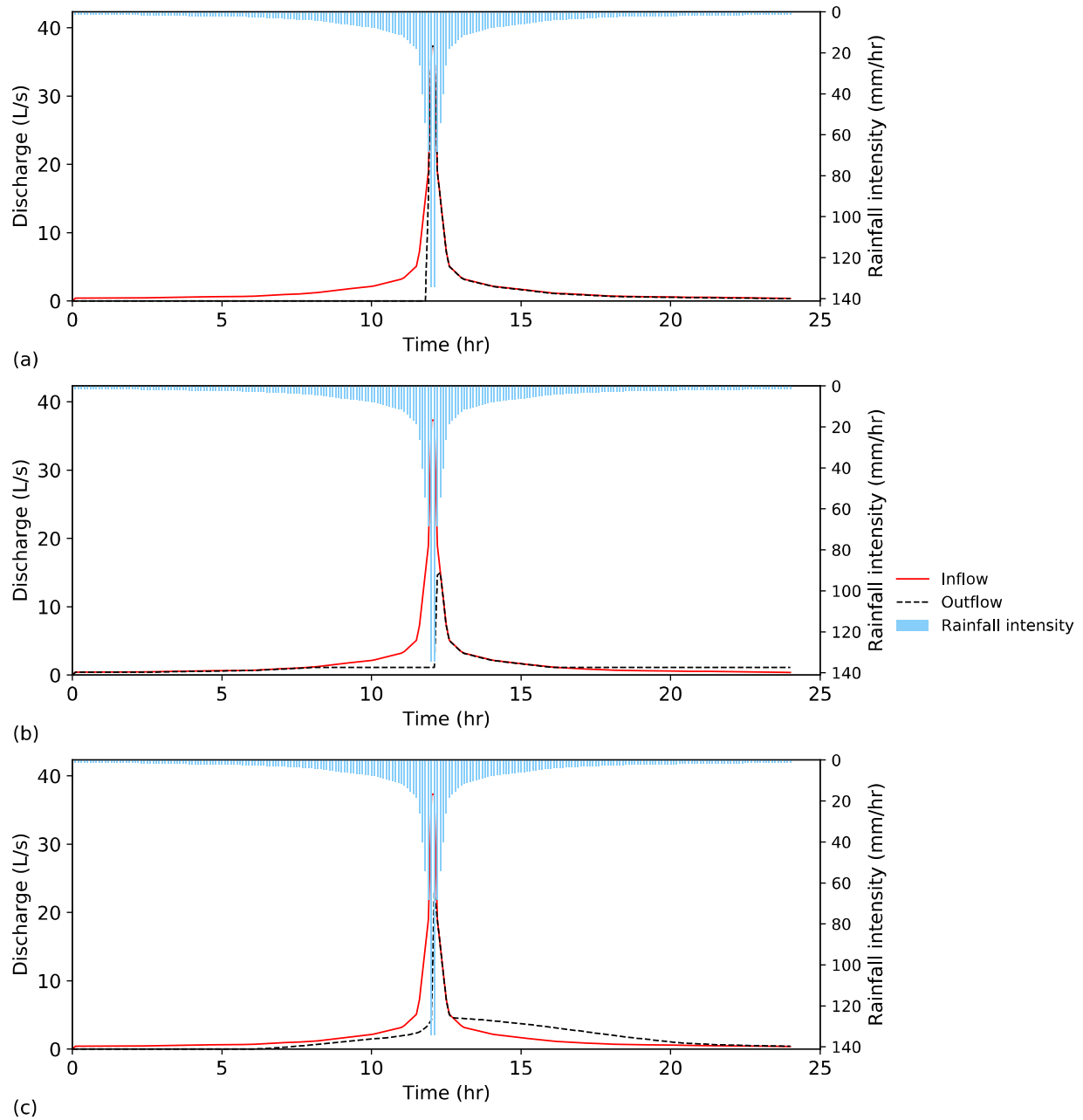


Fig. S9. Inflow and outflow hydrographs at 25-year storm for each drainage design: (a) no drain; (b) underdrain design (25.4 mm/hr); (c) surface drain design (63.5 mm)

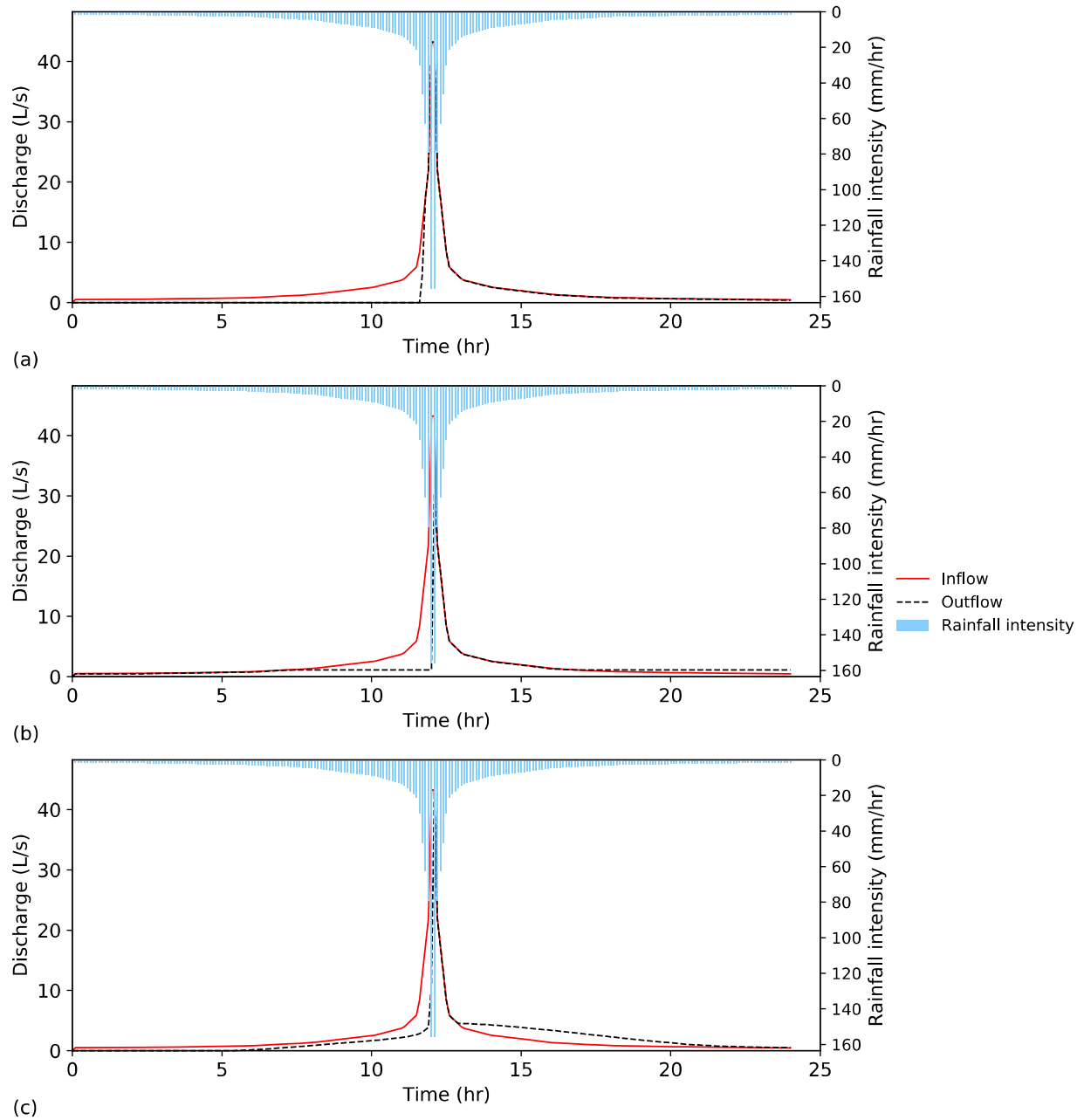


Fig. S10. Inflow and outflow hydrographs at 50-year storm for each drainage design: (a) no drain; (b) underdrain design (25.4 mm/hr); (c) surface

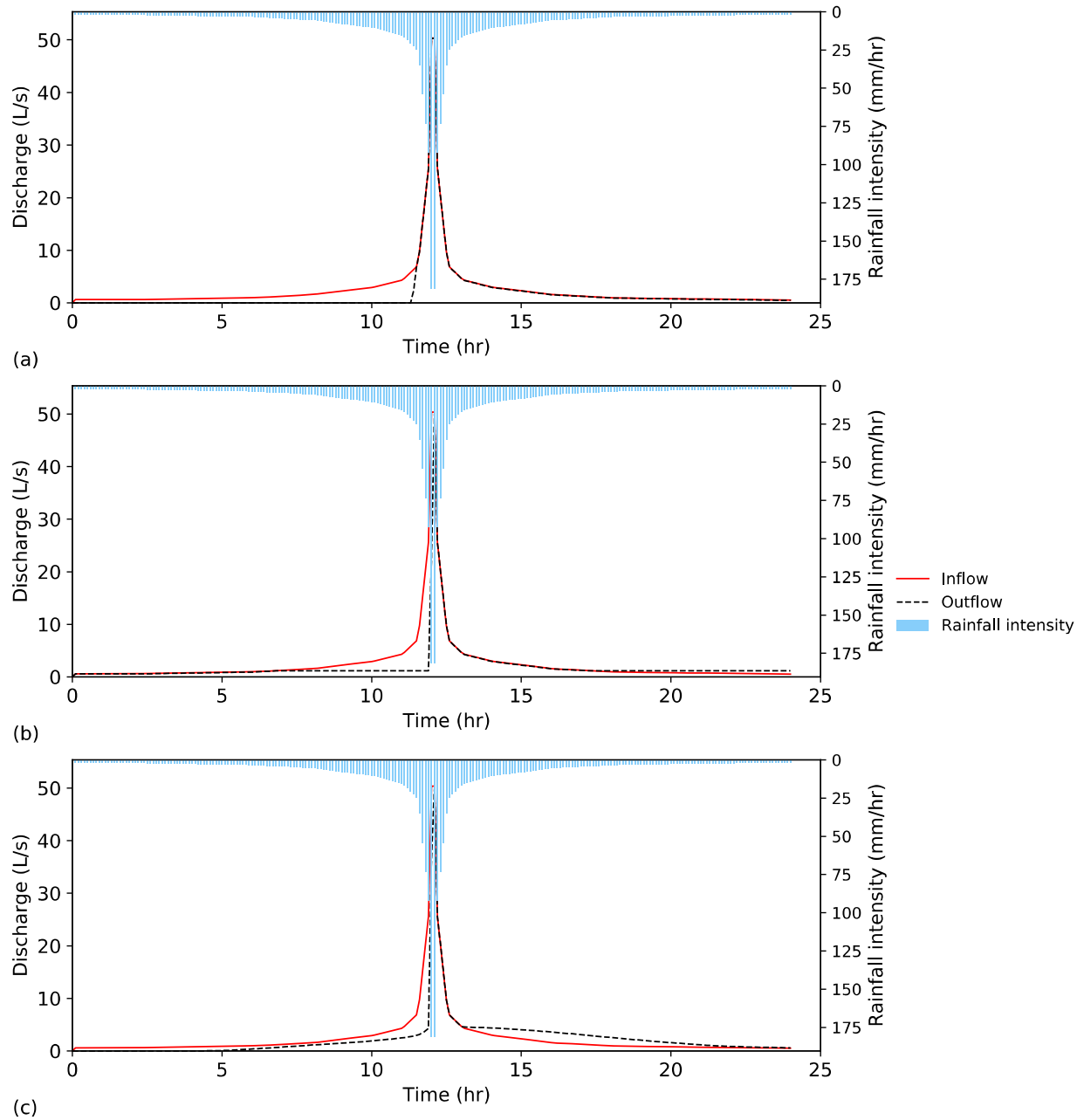


Fig. S11. Inflow and outflow hydrographs at 100-year storm for each drainage design: (a) no drain; (b) underdrain design (25.4 mm/hr); (c) surface