

5.4 Modeled Systems

Six surface outfall drainage systems were modeled in the City of Canby. Four additional systems were modeled for proposed CIP projects or anticipated futures conditions. Basic modeled-system characteristics are presented in Table 5.1 and model results are described briefly below. Much of the City is serviced by UICs connected to relatively short pipe segments or other small private systems, these areas are also presented in Table 5.1. The basins managed by ODOT along Hwy 99E drain to surface outfalls but were also not modeled. A complete basin specific map for each model and detailed model inputs and results are included in Appendix A.

Table 5.1: Modeled Basins

Basin Name	Description	Area (Acres)	Outfall
Canby Downtown	Existing system discharges to detention pond	48.9	Detention pond, swale to Molalla River
Canby Downtown CIP	Increase pipe sizes, add basin for decommissioned UICs	52.3	"
N Baker Dr	South end of N Baker Dr	2.1	Molalla River
Knights Bridge Rd	Existing system	3.5	Molalla River under bridge
Knights Bridge Rd plus N Baker St	Add pipe to collect N Baker St	4.3	"
Knights Bridge Rd and N Baker Rd plus NW 9 th Ave	Add pipe to connect slow draining UICs on NW 9 th and increase mainline pipe size	7.8	"
S Berg Parkway	Small basin in SW of City	3.2	Molalla River
North Maple St	Both agricultural and impervious area, includes area outside UGB	123 agricultural, 5.6 impervious 128.6 total	Willamette River
Redwood/Willow Creek	West of Willow Creek, including Territorial Rd	22.2	Willow Creek
10th Ave and Pine St to NE Territorial Rd plus Redwood/Willow Creek	Adds N 10 th Ave and Pine St through to Territorial Rd	31.5	"
Redwood/Willow Creek plus N Pine St and N Redwood Rd New Development	Adds right-of-way for new residential development on available parcels	41.1	"
TOTAL MODELED	EXISTING	209	Surface
TOTAL MODELED	FUTURE	239	Surface
NOT MODELED	UICs/Private/ODOT	3158	Infiltration-Surface