

Updating the 2025 Urban Growth Forecast in CAST-21

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Update for CAST-21 (2021 Milestones)

Population Projections:

Update population estimates for 2013 through 2020

Update 2025 population and employment projections for Maryland, Delaware, and BMC and COG counties

Adjust all 2025 projections by the ratio of projected to estimated population in 2020

Protected Lands:

No update needed because projection period starts in 2017 and current protected lands represent 2018 conditions

MS4s:

Update with revised MS4s provided to the Chesapeake Conservancy

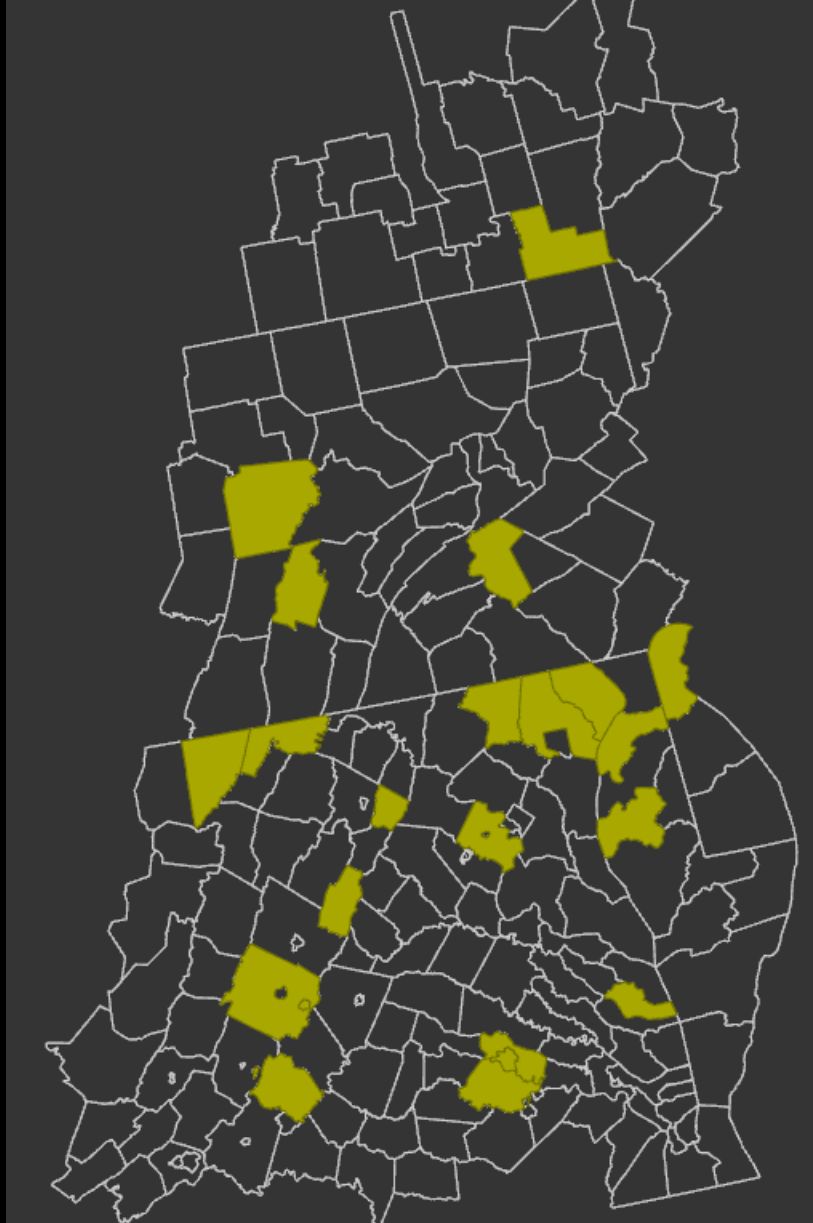
Landcover:

Update from 2011 to 2016 using the National Land Cover Dataset (NLCD) and all developed lands mapped in the 2017/18 high-res land use dataset (IR, INR, TCI, TG, and TCT).

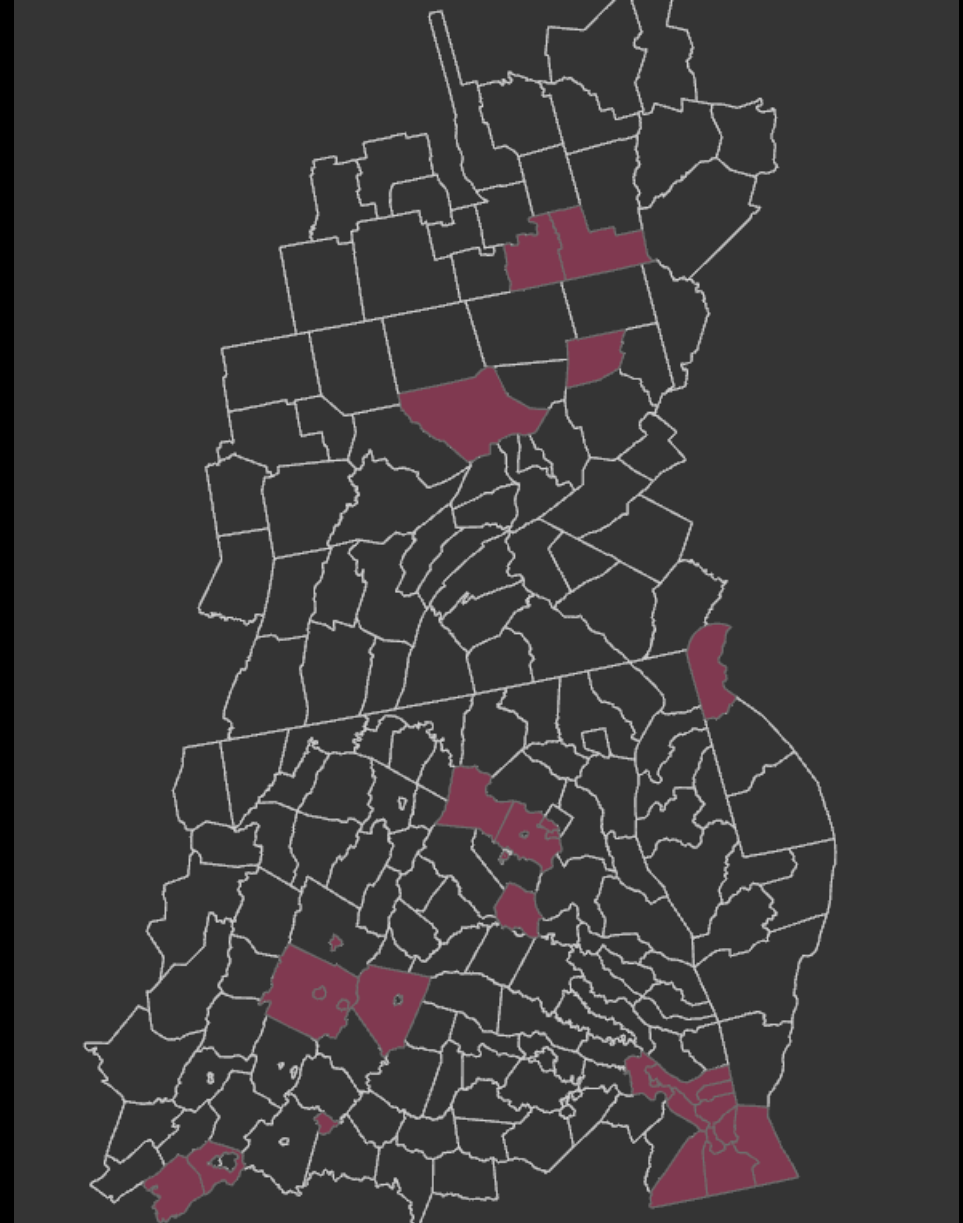
Sewer Service Area:

Update with revised data provided to the Chesapeake Conservancy and NOVA sewer data provided to USGS.

Sewer Service Area Updates



MS4 Area Updates



Generalized Land Use Changes: 2017 – 2025

CAST-19 (pre-BMP) vs CAST-21 (pre-BMP)

2017 to 2025	CAST 2019				
	2017-2025	DEV	NAT	AG	MO
	Delaware	20,394	(3,853)	(17,002)	461
	District of Columbia	127	(127)	-	0
	Maryland	26,596	6,369	(48,917)	15,952
	New York	15,195	99,070	(134,192)	19,927
	Pennsylvania	47,285	27,278	(99,366)	24,804
	Virginia	93,684	(49,541)	(46,525)	2,382
	West Virginia	5,114	(2,161)	(3,262)	310
	Total	208,395	77,035	(349,264)	63,834

CAST 2021				
2017-2025	DEV	NAT	AG	MO
Delaware	19,292	(3,622)	(16,127)	457
District of Columbia	115	(115)	-	0
Maryland	15,865	(8,434)	(8,282)	851
New York	295	(21)	(280)	6
Pennsylvania	16,112	(4,195)	(12,324)	407
Virginia	86,804	(48,684)	(40,443)	2,323
West Virginia	4,724	(1,415)	(3,440)	131
Total	143,207	(66,486)	(80,897)	4,176

CAST 2021 - CAST 2019				
2017-2025	DEV	NAT	AG	MO
Delaware	(1,102)	230	875	(4)
District of Columbia	(12)	12	-	0
Maryland	(10,731)	(14,804)	40,635	(15,101)
New York	(14,900)	(99,091)	133,911	(19,921)
Pennsylvania	(31,173)	(31,473)	87,042	(24,397)
Virginia	(6,880)	857	6,082	(59)
West Virginia	(390)	747	(178)	(178)
Total	(65,188)	(143,521)	268,367	(59,659)

DEV = Developed (impervious surfaces and turf grass); NAT = Natural (forest, wetlands, and water), AG = Agriculture (cropland and pasture), MO = Mixed Open (natural and suspended succession, bare developed)

Population Change on Septic and Sewer

CAST-19 (pre-BMP)

CAST-19				
	2013 - 2017		2017 - 2025	
	Pop. on Septic	Pop. On Sewer	Pop. on Septic	Pop. On Sewer
Delaware	5,315	28,125	4,601	61,327
District of Colur	-	45,260	-	91,425
Maryland	9,948	91,239	14,155	282,546
New York	(21,603)	(13,935)	1,942	(6,549)
Pennsylvania	(11,812)	22,605	47,543	277,560
Virginia	33,773	200,787	51,448	505,933
West Virginia	2,088	4,784	1,708	19,060
Total	17,709	378,865	121,397	1,231,303

CAST-21 (pre-BMP)

CAST-21				
	2013 - 2017		2017 - 2025	
	Pop. on Septic	Pop. On Sewer	Pop. on Septic	Pop. On Sewer
Delaware	4,854	29,026	8,847	10,273
District of Colur	-	45,520	-	26,514
Maryland	19,291	83,698	21,360	57,042
New York	(20,720)	(14,538)	(123)	(22,329)
Pennsylvania	(11,727)	23,277	26,189	6,357
Virginia	38,089	199,433	92,615	120,906
West Virginia	1,813	5,408	3,096	2,530
Total	31,600	371,823	151,985	201,293



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