

# Comparison of Version 1 and Version 2 High-Resolution Data

Sarah McDonald, Geographer, U.S. Geological Survey  
Lower Mississippi Gulf Water Science Center

Land Use Work Group  
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# Overview

- Version 1 data used in CAST-21
- Version 2 data to be used in CAST-23
- Datasets to be compared:
  - Land Cover 2017/18
  - Land Cover Change 2013/14-2017/18
  - Land Use 2017/18
  - Land Use Change 2013/14-2017-18

# Regional Land Cover Comparison (Acres)

LandCover	Version1	Version2	Difference
Water	4,786,048	4,809,559	23,510
Emergent Wetlands	307,964	459,402	151,438
Tree Canopy	37,110,388	37,077,929	(32,458)
Scrub\Shrub	512,976	517,395	4,419
Low Vegetation	18,017,765	18,048,921	31,156
Barren	230,537	245,282	14,745
Impervious Structures	528,568	529,320	752
Other Impervious	1,173,904	953,511	(220,394)
Impervious Roads	788,765	810,473	21,708
Tree Canopy over Impervious Structures	24,141	23,913	(228)
Tree Canopy over Other Impervious	93,791	92,142	(1,649)
Tree Canopy over Impervious Roads	151,890	159,051	7,160
Aberdeen Proving Ground	38,951	38,954	3

Addition of VA wetlands

Overall decrease in imperviousness

# Regional Land Cover Change (Acres)

LCChange	Version1	Version2	Difference	% Difference
Tree Canopy to Low Vegetation	490,209	498,942	8,733	19%
Low Vegetation to Other Impervious	42,685	38,274	(4,411)	10%
Barren to Low Vegetation	45,124	47,680	2,556	6%
Low Vegetation to Barren	32,095	34,512	2,417	5%
Other Impervious Surfaces to Impervious Structures	2,342	-	(2,342)	5%
Barren to Other Impervious	198	2,525	2,327	5%
Tree Canopy to Other Impervious	22,871	21,024	(1,847)	4%
Other Impervious to Impervious Structures	2,057	3,863	1,806	4%
Low Vegetation to Water	682	2,409	1,727	4%
Barren to Impervious Structures	245	1,945	1,699	4%
Other Impervious to Low Vegetation	12,830	11,258	(1,572)	3%
Tree Canopy to Barren	50,474	51,604	1,130	2%
Low Vegetation to Impervious Structures	12,394	11,514	(879)	2%
Low Vegetation to Scrub\Shrub	5,221	6,006	785	2%

\*Transitions listed above make up 75% of differences between versions, all other transitions make up <= 1% of differences

# Regional Land Use (Acres)

Phase6	Version 1	Version 2	Difference
IR	794,359	810,536	16,176
INR	1,703,864	1,486,264	(217,600)
TCI	266,591	276,677	10,087
TG	2,386,876	2,585,553	198,677
TCT	1,826,480	1,586,443	(240,037)
FORE	33,546,928	34,029,880	482,952
WLF	2,103,712	1,397,528	(706,184)
WLO	174,857	103,743	(71,114)
WLT	32,424	693,280	660,856
MO	5,546,354	3,134,224	(2,412,130)
CRP	4,111,485	5,296,191	1,184,705
PAS	6,443,556	7,517,405	1,073,849
WAT	4,786,373	4,809,557	23,184

Stems from land cover

Updated rules

# Regional Land Use (Acres)

Phase6	Version 1	Version 2	Difference
IR	794,359	810,536	16,176
INR	1,703,864	1,486,264	(217,600)
TCI	266,591	276,677	10,087
TG	2,386,876	2,585,553	198,677
TCT	1,826,480	1,586,443	(240,037)
FORE	33,546,928	34,029,880	482,952
WLF	2,103,712	1,397,528	(706,184)
WLO	174,857	103,743	(71,114)
WLT	32,424	693,280	660,856
MO	5,546,354	3,134,224	(2,412,130)
CRP	4,111,485	5,296,191	1,184,705
PAS	6,443,556	7,517,405	1,073,849
WAT	4,786,373	4,809,557	23,184

Improved Agriculture and  
Natural Succession mapping

# Land Use Change

- Minor edits are being made to the following land use change matrices
- Edit will not impact most interpretations of the data
- Appendix B of the documentation describes cautions about potential misinterpretations

# Watershed Land Use Change: Version 1 (Acres)

T1-T2 LU	IR	INR	TCI	TG	TCT	FORE	WLF	WLO	WLT	MO	CRP	PAS	WAT	Decrease
IR	0	56	1,127	6	47	217	3	0	0	24	1	2	0	1,483
INR	598	0	2,600	4,572	530	230	41	12	4	3,945	425	1,104	16	14,076
TCI	112	1,306	0	2,153	13	6	9	1	0	2,636	53	87	0	6,377
TG	250	5,886	0	0	11,032	350	17	3	2	1,872	45	68	13	19,538
TCT	104	5,928	0	11,073	0	99	0	0	0	4,570	350	379	4	22,506
FORE	1,151	15,097	17	10,551	15,744	0	0	0	0	324,493	7,119	7,722	142	382,038
WLF	0	0	0	2	0	0	0	0	0	0	0	0	0	2
WLO	0	0	0	2	0	0	0	0	0	0	0	0	0	2
WLT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MO	1,353	26,499	1	27,992	827	99,459	0	0	0	0	706	1,111	691	158,638
CRP	155	4,185	0	424	76	4,516	0	0	0	2,519	0	374	163	12,412
PAS	124	5,548	0	763	218	10,657	0	0	0	6,189	646	0	75	24,220
WAT	1	103	0	2	25	190	14	0	9	264	29	19	0	655
Increase	3,849	64,607	3,746	57,539	28,513	115,722	83	17	14	346,511	9,374	10,866	1,105	641,948
Totals														
Increase	3,849	64,607	3,746	57,539	28,513	115,722	83	17	14	346,511	9,374	10,866	1,105	
Decrease	1,483	14,076	6,377	19,538	22,506	382,038	2	2	0	158,638	12,412	24,220	655	
Net	2,366	50,531	(2,631)	38,001	6,007	(266,316)	81	14	14	187,872	(3,038)	(13,354)	451	



# Watershed Land Use Change: Version 2 (Acres)

T1-T2 LU	IR	INR	TCI	TG	TCT	FORE	WLF	WLO	WLT	MO	CRP	PAS	WAT	Decrease
IR	0	352	696	74	66	209	3	0	2	228	11	14	2	1,657
INR	517	0	2,095	4,611	392	223	32	5	25	2,477	727	1,415	35	12,556
TCI	42	1,175	0	2,446	0	0	7	1	3	2,194	98	184	1	6,149
TG	0	12,466	0	0	8,511	213	8	5	5	4,926	72	202	0	26,408
TCT	14	5,213	11	11,150	0	0	642	48	87	1,390	252	556	2	19,366
FORE	1,277	14,763	723	14,997	29,953	0	0	0	0	293,774	22,626	27,735	332	406,180
WLF	7	67	6	134	0	0	0	0	0	534	0	0	23	771
WLO	1	44	0	19	2	147	68	0	28	76	16	5	38	443
WLT	2	41	3	2	0	0	0	0	0	597	0	0	68	713
MO	1,764	16,415	0	25,798	666	105,380	2,362	307	379	0	1,017	1,166	1,750	157,004
CRP	139	6,735	0	1,398	51	4,796	829	26	181	1,058	0	99	518	15,829
PAS	108	6,084	0	2,192	54	7,510	281	22	16	1,205	111	0	248	17,830
WAT	2	135	0	51	15	175	53	10	46	344	71	73	0	975
<b>Increase</b>	<b>3,872</b>	<b>63,491</b>	<b>3,535</b>	<b>62,871</b>	<b>39,709</b>	<b>118,654</b>	<b>4,285</b>	<b>424</b>	<b>771</b>	<b>308,804</b>	<b>25,002</b>	<b>31,448</b>	<b>3,017</b>	<b>665,882</b>
<b>Totals</b>														
<b>Increase</b>	<b>3,872</b>	<b>63,491</b>	<b>3,535</b>	<b>62,871</b>	<b>39,709</b>	<b>118,654</b>	<b>4,285</b>	<b>424</b>	<b>771</b>	<b>308,804</b>	<b>25,002</b>	<b>31,448</b>	<b>3,017</b>	
<b>Decrease</b>	<b>1,657</b>	<b>12,556</b>	<b>6,149</b>	<b>26,408</b>	<b>19,366</b>	<b>406,180</b>	<b>771</b>	<b>443</b>	<b>713</b>	<b>157,004</b>	<b>15,829</b>	<b>17,830</b>	<b>975</b>	
<b>Net</b>	<b>2,215</b>	<b>50,935</b>	<b>(2,615)</b>	<b>36,463</b>	<b>20,343</b>	<b>(287,526)</b>	<b>3,514</b>	<b>(19)</b>	<b>58</b>	<b>151,799</b>	<b>9,172</b>	<b>13,618</b>	<b>2,042</b>	

# Watershed Land Use Change: V1 vs V2 (Acres)

T1-T2 LU	IR	INR	TCI	TG	TCT	FORE	WLF	WLO	WLT	MO	CRP	PAS	WAT	Decrease
IR	0	296	(431)	68	19	(8)	1	0	2	204	11	11	2	173
INR	(81)	0	(505)	40	(138)	(6)	(9)	(7)	21	(1,468)	303	311	19	(1,521)
TCI	(70)	(131)	0	293	(13)	(6)	(3)	(1)	3	(442)	45	97	1	(228)
TG	(250)	6,580	(0)	0	(2,521)	(136)	Increase in Forest To Agriculture					133	(13)	6,871
TCT	(90)	(714)	11	78	0	0	0	0	0	(3,180)	(98)	177	(2)	(3,819)
FORE	125	(334)	706	4,445	14,208	0	0	0	0	(30,718)	15,507	20,013	190	24,142
WLF	7	67	6	132	0	0	0	0	0	534	0	0	23	769
WLO	1	44	0	16	2	147	68	0	28	76	16	5	38	441
WLT	2	41	3	2	0	0	0	0	0	597	0	0	68	713
MO	411	(10,085)	(1)	(2,194)	(161)	5,922	0	0	0	0	312	55	1,058	(4,682)
CRP	(16)	2,550	0	975	(25)	279	829	26	181	(1,461)	0	(275)	355	3,418
PAS	(17)	537	(0)	1,429	(164)	(3,147)	281	22	16	(4,984)	(535)	0	174	(6,390)
WAT	1	32	0	49	(10)	(14)	40	10	37	80	43	54	0	321
Increase	23	(1,117)	(212)	5,332	11,196	3,030	1,197	52	291	(37,707)	15,628	20,582	1,912	20,207
Totals														
Increase	23	(1,117)	(212)	5,332	11,196	3,030	3,559	359	670	(37,707)	15,628	20,582	1,912	
Decrease	173	(1,521)	(228)	6,871	(3,819)	24,142	769	441	713	(4,682)	3,418	(6,390)	321	
Net	(151)	404	16	(1,538)	15,015	(21,112)	2,791	(82)	(43)	(33,026)	12,210	26,972	1,591	

# Watershed Land Use Change: V1 vs V2 (Acres)

T1-T2 LU	IR	INR	TCI	TG	TCT	FORE	WLF	WLO	WLT	MO	CRP	PAS	WAT	Decrease
IR	0	296	(431)	68	19	(8)	1	0	2	204	11	11	2	173
INR	(81)	0	(505)	40	(138)	(6)	(9)	(7)	21	(1,468)	303	311	19	(1,521)
TCI	(70)	(131)	0	293	(13)	(6)	(3)	(1)	3	(442)	45	97	1	(228)
TG	(250)	6,580	(0)	0	(2,521)	(136)						33	(13)	6,871
TCT	(90)	(714)	11	78	0	0	0	0	0	(3,180)	(98)	177	(2)	(3,819)
FORE	125	(334)	706	4,445	14,208	0	0	0	0	(30,718)	15,507	20,013	190	24,142
WLF	7	67	6	132	0	0	0	0	0	534	0	0	23	769
WLO	1	44	0	16	2	147	68	0	28	76	16	5	38	441
WLT	2	41	3	2	0	0	0	0	0	597	0	0	68	713
MO	411	(10,085)	(1)	(2,194)	(161)	5,922	0	0	0	0	312	55	1,058	(4,682)
CRP	(16)	2,550	0	975	(25)	279	829	26	181	(1,461)	0	(275)	355	3,418
PAS	(17)	537	(0)	1,429	(164)	(3,147)	281	22	16	(4,984)	(535)	0	174	(6,390)
WAT	1	32	0	49	(10)	(14)	40	10	37	80	43	54	0	321
Increase	23	(1,117)	(212)	5,332	11,196	3,030	1,197	52	291	(37,707)	15,628	20,582	1,912	20,207
Totals														
TotIncrease	23	(1,117)	(212)	5,332	11,196	3,030	3,559	359	670	(37,707)	15,628	20,582	1,912	
TotDecrease	173	(1,521)	(228)	6,871	(3,819)	24,142	769	441	713	(4,682)	3,418	(6,390)	321	
Net	(151)	404	16	(1,538)	15,015	(21,112)	2,791	(82)	(43)	(33,026)	12,210	26,972	1,591	

Decrease in Forest To Mixed Open

# Watershed Land Use Change: V1 vs V2 (Acres)

T1-T2 LU	IR	INR	TCI	TG	TCT	FORE	WLF	WLO	WLT	MO	CRP	PAS	WAT	Decrease
IR	0	296	(431)	68	19	(8)	1	0	2	204	11	11	2	173
INR	(81)	0	(505)	40	(138)	(6)	(9)	(7)	21	(1,468)	303	311	19	(1,521)
TCI	(70)	(131)	0	293	(13)	(6)	(3)	(1)	3	(442)	45	97	1	(228)
TG	(250)	6,580	(0)	0	(2,521)	(136)	(9)	2	3	3,054	27	133	(13)	6,871
TCT	(90)	(714)	11	78	0	0	0	0	0	(3,180)	(98)	177	(2)	(3,819)
FORE	125	(334)	706	4,445	14,208	0	0	0	0	(30,718)	15,507	20,013	190	24,142
WLF	7	67	6	132	0	0	0	0	0	534	0	0	23	769
WLO	1	44	0	16	2	147	68	0	28	76	16	5	38	441
WLT	2	41	3	2	0	0	0	0	0	597	0	0	68	713
MO	411	(10,085)	(1)	(2,194)	(161)	5,922	0	0	0	0	312	55	1,058	(4,682)
CRP	(16)	2,550	0	975	(25)	279	829	26	181	(1,461)	0	(275)	355	3,418
PAS	(17)	537	(0)	1,429	(164)	(3,147)	281	22	16	(4,984)	(535)	0	174	(6,390)
WAT	1	32	0	49	(10)	(14)	40	10	37	80	43	54	0	321
Increase	23	(1,117)	(212)	5,332	11,196	3,030	1,197	52	291	(37,707)	15,628	20,582	1,912	20,207
Totals														
TotIncrease	Increase in Forest To Developed					6	3,030	3,559	359	670	(37,707)	15,628	20,582	1,912
TotDecrease	173	(1,521)	(228)	6,871	(3,819)	24,142	769	441	713	(4,682)	3,418	(6,390)	321	
Net	(151)	404	16	(1,538)	15,015	(21,112)	2,791	(82)	(43)	(33,026)	12,210	26,972	1,591	

# Watershed Land Use Change: V1 vs V2 (Acres)

T1-T2 LU	IR	INR	TCI	TG	TCT	FORE	WLF	WLO	WLT	MO	CRP	PAS	WAT	Decrease
IR	0	296	(431)	68	19	(8)	1	0	2	204	11	11	2	173
INR	(81)	0	(505)	40	(138)	(6)	(9)	(7)	21	(1,468)	303	311	19	(1,521)
TCI	(70)	(131)	0	293	(13)	(6)	(3)	(1)	3	(442)	45	97	1	(228)
TG	(250)	6,580	(0)	0	(2,521)	(136)	(9)	2	3	3,054	27	133	(13)	6,871
TCT	(90)	(714)	11	78	0	0	0	0	0	(3,180)	(98)	177	(2)	(3,819)
FORE	125	(334)	706	4,445	14,208	0	0	0	0	534	0	0	23	769
WLF	7	67	6	132	0	0	0	0	0	76	16	5	38	441
WLO	1	44	0	16	2	147	68	0	28	597	0	0	68	713
WLT	2	41	3	2	0	0	0	0	0	0	312	55	1,058	(4,682)
MO	411	(10,085)	(1)	(2,194)	(161)	5,922	0	0	0	0	0	(275)	355	3,418
CRP	(16)	2,550	0	975	(25)	279	829	26	181	(1,461)	0	0	174	(6,390)
PAS	(17)	537	(0)	1,429	(164)	(3,147)	281	22	16	(4,984)	(535)	0	0	321
WAT	1	32	0	49	(10)	(14)	40	10	37	80	43	54	0	321
Increase	23	(1,117)	(212)	5,332	11,196	3,030	1,197	52	291	(37,707)	15,628	20,582	1,912	20,207
Totals														
TotIncrease	23	(1,117)	(212)	5,332	11,196	3,030	3,559	359	670	(37,707)	15,628	20,582	1,912	
TotDecrease	173	(1,521)	(228)	6,871	(3,819)	24,142	769	441	713	(4,682)	3,418	(6,390)	321	
Net	(151)	404	16	(1,538)	15,015	(21,112)	2,791	(82)	(43)	(33,026)	12,210	26,972	1,591	

Increase in Forest To Tree Canopy over Turf Grass

# CAST-23 Implications

- Increase in loads
  - Increase in Forest to Agriculture
  - Increase in Forest to Development
  - Decrease in Forest to Mixed Open
  - Increase of Forest to Tree Canopy over Turf Grass

# Watershed Land Use Change: V2, 18-Class (Acres)

T1-T2 LU	ROAD	IMPS	IMPO	TCIS	TURF	TCTG	PDEV	FORE	TCOT	HARF	NATS	CROP	PAST	EXTR	TDLW	RIVW	TERW	WATR	Increase
ROAD	0	14	338	696	74	66	206	138	75	1	17	11	14	4	0	2	0	2	1,657
IMPS	1	0	937	508	277	88	143	7	2	1	37	75	84	2	0	0	0	1	2,165
IMPO	516	3,173	0	1,587	4,334	305	1,288	166	60	102	785	652	1,331	1	21	25	5	35	14,386
TCIS	42	485	690	0	2,446	0	1,599	0	0	181	408	98	184	6	3	7	1	1	6,149
TURF	0	1,804	10,662	0	0	8,511	2,761	107	108	76	246	72	202	1,844	0	0	0	0	26,391
TCTG	14	951	4,262	11	11,150	0	843	0	0	96	433	252	556	17	8	7	1	2	18,604
PDEV	1,699	5,534	10,236	0	21,021	70	0	675	94	378	0	339	348	2,394	0	0	0	205	42,993
FORE	1,161	2,760	8,867	732	13,061	27,923	28,091	0	20,947	175,602	81,454	19,549	23,182	4,063	1,385	5,584	194	296	414,850
TCOT	122	935	2,271	0	2,049	2,029	2,297	0	0	746	2,287	3,077	4,553	381	96	227	25	43	21,140
HARF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NATS	65	154	491	0	4,778	595	3,985	98,011	9,469	7,020	0	678	818	528	0	0	0	1,545	128,139
CROP	139	1,945	4,790	0	1,398	51	565	3,531	2,241	147	223	0	0	122	0	0	0	518	15,671
PAST	108	1,223	4,861	0	2,192	54	623	2,566	5,208	125	407	0	0	50	0	0	0	248	17,665
EXTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TDLW	1	2	21	0	1	0	0	1,264	81	0	0	0	0	0	0	0	0	64	1,435
RIVW	2	4	15	0	28	0	0	4,594	97	11	0	0	0	1	0	0	0	20	4,772
TERW	1	3	38	0	12	2	28	425	62	4	11	16	5	5	0	0	0	37	647
WATR	2	5	130	0	51	15	65	75	153	0	66	71	73	213	28	22	7	0	975
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	717,640

## Totals

Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	
Decrease	1,657	2,165	14,386	6,149	26,391	18,604	42,993	414,850	21,140	0	128,139	15,671	17,665	0	1,435	4,772	647	975	
Net	2,215	16,827	34,224	(2,615)	36,480	21,106	(498)	(303,292)	17,456	184,491	(41,765)	9,220	13,684	9,634	106	1,102	(416)	2,042	



# Watershed Land Use Change: V2, 18-Class (Acres)

T1-T2 LU	ROAD	IMPS	IMPO	TCIS	TURF	TCTG	PDEV	FORE	TCOT	HARF	NATS	CROP	PAST	EXTR	TDLW	RIVW	TERW	WATR	Increase	
ROAD	0	14	338	696	74	66	206	138	75	1	17	11	14	4	0	2	0	2	1,657	
IMPS	1	0	937	508	277	88	143	7	2	1	37	75	84	2	0	0	0	1	2,165	
IMPO	Mixed Open split into 4 Classes: PDEV, HARF, NATS and EXTR						305	1,288	166	60	102	785	652	1,331	1	21	25	5	35	14,386
TCIS	Mixed Open split into 4 Classes: PDEV, HARF, NATS and EXTR						0	1,599	0	0	181	408	98	184	6	3	7	1	1	6,149
TURF	Mixed Open split into 4 Classes: PDEV, HARF, NATS and EXTR						0	2,761	107	108	76	246	72	202	1,844	0	0	0	0	26,391
TCTG	14	951	4,262	11	11,150	0	843	0	0	96	433	252	556	17	8	7	1	2	18,604	
PDEV	1,699	5,534	10,236	0	21,021	70	0	675	94	378	0	339	348	2,394	0	0	0	205	42,993	
FORE	1,161	2,760	8,867	732	13,061	27,923	28,091	0	20,947	175,602	81,454	19,549	23,182	4,063	1,385	5,584	194	296	414,850	
TCOT	122	935	2,271	0	2,049	2,029	2,297	0	0	746	2,287	3,077	4,553	381	96	227	25	43	21,140	
HARF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NATS	65	154	491	0	4,778	595	3,985	98,011	9,469	7,020	0	678	818	528	0	0	0	1,545	128,139	
CROP	139	1,945	4,790	0	1,398	51	565	3,531	2,241	147	223	0	0	122	0	0	0	518	15,671	
PAST	108	1,223	4,861	0	2,192	54	623	2,566	5,208	125	407	0	0	50	0	0	0	248	17,665	
EXTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TDLW	1	2	21	0	1	0	0	1,264	81	0	0	0	0	0	0	0	0	64	1,435	
RIVW	2	4	15	0	28	0	0	4,594	97	11	0	0	0	1	0	0	0	20	4,772	
TERW	1	3	38	0	12	2	28	425	62	4	11	16	5	5	0	0	0	37	647	
WATR	2	5	130	0	51	15	65	75	153	0	66	71	73	213	28	22	7	0	975	
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	717,640	
<b>Totals</b>																				
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017		
Decrease	1,657	2,165	14,386	6,149	26,391	18,604	42,993	414,850	21,140	0	128,139	15,671	17,665	0	1,435	4,772	647	975		
Net	2,215	16,827	34,224	(2,615)	36,480	21,106	(498)	(303,292)	17,456	184,491	(41,765)	9,220	13,684	9,634	106	1,102	(416)	2,042		



# Watershed Land Use Change: V2, 18-Class (Acres)

T1-T2 LU	ROAD	IMPS	IMPO	TCIS	TURF	TCTG	PDEV	FORE	TCOT	HARF	NATS	CROP	PAST	EXTR	TDLW	RIVW	TERW	WATR	Increase	Decrease
ROAD	0	14	338	696	74	66	206	138	75	1	17	11	14	4	0	2	0	2	1,657	
IMPS	1	0	937	508	277	88	143	7	2	1	37	75	84	2	0	0	0	1	2,165	
IMPO	516	3,173	0	1,587	4,334	305	1,288	166	60	102	785	652	1,331	1	21	25	5	35	14,386	
TCIS	42	485	690	0	2,446	0	1,599	0	0	181	408	98	184	6	3	7	1	1	6,149	
TURF	0	1,804	10,662	0	0	8,511	2,761	107	108	76	246	72	202	1,844	0	0	0	0	26,391	
TCTG	14	951	4,262	11	11,150	0	843	0	0	96	433	252	556	17	8	7	1	2	18,604	
PDEV	1,699	5,534	10,236	0	21,021	70	0	675	94	378	0								205	42,993
FORE	1,161	2,760	8,867	732	13,061	27,923	28,091	0	20,947	175,602	81,454								296	414,850
TCOT	122	935	2,271	0	2,049	2,029	2,297	0	0	746	2,287								43	21,140
HARF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NATS	65	154	491	0	4,778	595	3,985	98,011	9,469	7,020	0	678	818	528	0	0	0	1,545	128,139	
CROP	139	1,945	4,790	0	1,398	51	565	3,531	2,241	147	223	0	0	122	0	0	0	518	15,671	
PAST	108	1,223	4,861	0	2,192	54	623	2,566	5,208	125	407	0	0	50	0	0	0	248	17,665	
EXTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TDLW	1	2	21	0	1	0	0	1,264	81	0	0	0	0	0	0	0	0	64	1,435	
RIVW	2	4	15	0	28	0	0	4,594	97	11	0	0	0	1	0	0	0	20	4,772	
TERW	1	3	38	0	12	2	28	425	62	4	11	16	5	5	0	0	0	37	647	
WATR	2	5	130	0	51	15	65	75	153	0	66	71	73	213	28	22	7	0	975	
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	717,640	
<b>Totals</b>																				
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017		
Decrease	1,657	2,165	14,386	6,149	26,391	18,604	42,993	414,850	21,140	0	128,139	15,671	17,665	0	1,435	4,772	647	975		
Net	2,215	16,827	34,224	(2,615)	36,480	21,106	(498)	(303,292)	17,456	184,491	(41,765)	9,220	13,684	9,634	106	1,102	(416)	2,042		

Timber Harvest Clearing Acres over 4-year period

# Watershed Land Use Change: V2, 18-Class (Acres)

T1-T2 LU	ROAD	IMPS	IMPO	TCIS	TURF	TCTG	PDEV	FORE	TCOT	HARF	NATS	CROP	PAST	EXTR	TDLW	RIVW	TERW	WATR	Increase	Decrease
ROAD	0	14	338	696	74	66	206	138	75	1	17	11	14	4	0	2	0	2	1,657	
IMPS	1	0	937	508	277	88	143	7	2	1	37	75	84	2	0	0	0	0	2,165	
IMPO	516	3,173	0	1,587	4,334	305	1,288	166	60	102	785	652	1,331	1	21	25	5	35	14,386	
TCIS	42	485	690	0	2,446	0	1,599	0	0	181	408	98	184	6	3	7	1	1	6,149	
TURF	0	1,804	10,662	0	0	8,511	2,761	107	108	76	246	72	202	1,844	0	0	0	0	26,391	
TCTG	14	951	4,262	11	11,150	0	843	0	0	96	433	252	556	17	8	7	1	2	18,604	
PDEV	1,699	5,534	10,236	0	21,021	70	0						348	2,394	0	0	0	205	42,993	
FORE	1,161	2,760	8,867	732	13,061	27,928	<b>28,091</b>						3,182	<b>4,063</b>	1,385	5,584	194	296	414,850	
TCOT	122	935	2,271	0	2,049	2,029	2,297						4,553	381	96	227	25	43	21,140	
HARF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NATS	65	154	491	0	4,778	595	3,985	98,011	9,469	7,020	0	678	818	528	0	0	0	1,545	128,139	
CROP	139	1,945	4,790	0	1,398	51	565	3,531	2,241	147	223	0	0	122	0	0	0	518	15,671	
PAST	108	1,223	4,861	0	2,192	54	623	2,566	5,208	125	407	0	0	50	0	0	0	248	17,665	
EXTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TDLW	1	2	21	0	1	0	0	1,264	81	0	0	0	0	0	0	0	0	64	1,435	
RIVW	2	4	15	0	28	0	0	4,594	97	11	0	0	0	1	0	0	0	20	4,772	
TERW	1	3	38	0	12	2	28	425	62	4	11	16	5	5	0	0	0	37	647	
WATR	2	5	130	0	51	15	65	75	153	0	66	71	73	213	28	22	7	0	975	
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	717,640	
<b>Totals</b>																				
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017		
Decrease	1,657	2,165	14,386	6,149	26,391	18,604	42,993	414,850	21,140	0	128,139	15,671	17,665	0	1,435	4,772	647	975		
Net	2,215	16,827	34,224	(2,615)	36,480	21,106	(498)	(303,292)	17,456	184,491	(41,765)	9,220	13,684	9,634	106	1,102	(416)	2,042		

Forest to Solar Fields, Power Lines and Construction

# Watershed Land Use Change: V2, 18-Class (Acres)

T1-T2 LU	ROAD	IMPS	IMPO	TCIS	TURF	TCTG	PDEV	FORE	TCOT	HARF	NATS	CROP	PAST	EXTR	TDLW	RIVW	TERW	WATR	Increase
ROAD	0	14	338	696	74	66	206	138	75	1	17	11	14	4	0	2	0	2	1,657
IMPS	1	0	937	508	277	88	143	7	2	1	37	75	84	2	0	0	0	1	2,165
IMPO	516	3,173	0	1,587	4,334	305	1,288	166	60	102	785	652	1,331	1	21	25	5	35	14,386
TCIS	42	485	690	0	2,446	0	1,599	0	0	181	408	98	184	6	3	7	1	1	6,149
TURF	0	1,804	10,662	0	0	8,511	2,761	107	108	76	246	72	202	1,844	0	0	0	0	26,391
TCTG	14	951	4,262	11	11,150	0	843	0	0	96	433	252	556	17	8	7	1	2	18,604
PDEV	1,699	5,534	10,236	0	21,021	70	0	675	94	378	0	339	348	2,394	0	0	0	205	42,993
FORE	1,161	2,760	8,867	732	13,061	27,923	<b>28,091</b>							<b>4,063</b>	2,385	5,584	194	296	414,850
TCOT	122	935	2,271	0	2,049	2,029	2,297	0	0	746	2,287	3,077	4,553	381	96	227	25	43	21,140
HARF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NATS	65	154	491	0	4,778	595	3,985	98,011	9,469	7,020	0	678	818	528	0	0	0	1,545	128,139
CROP	139	1,945	4,790	0	1,398	51	565	3,531	2,241	147	223	0	0	122	0	0	0	518	15,671
PAST	108	1,223	4,861	0	2,192	54	623	2,566	5,208	125	407	0	0	50	0	0	0	248	17,665
EXTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TDLW	1	2	21	0	1	0	0	1,264	81	0	0	0	0	0	0	0	0	64	1,435
RIVW	2	4	15	0	28	0	0	4,594	97	11	0	0	0	1	0	0	0	20	4,772
TERW	1	3	38	0	12	2	28	425	62	4	11	16	5	5	0	0	0	37	647
WATR	2	5	130	0	51	15	65	75	153	0	66	71	73	213	28	22	7	0	975
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	717,640
<b>Totals</b>																			
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	
Decrease	1,657	2,165	14,386	6,149	26,391	18,604	42,993	414,850	21,140	0	128,139	15,671	17,665	0	1,435	4,772	647	975	
Net	2,215	16,827	34,224	(2,615)	36,480	21,106	(498)	(303,292)	17,456	184,491	(41,765)	9,220	13,684	9,634	106	1,102	(416)	2,042	

# Watershed Land Use Change: V2, 18-Class (Acres)

T1-T2 LU	ROAD	IMPS	IMPO	TCIS	TURF	TCTG	PDEV	FORE	TCOT	HARF	NATS	CROP	PAST	EXTR	TDLW	RIVW	TERW	WATR	Increase
ROAD	0	14	338	696	74	66	206	138	75	1	17	11	14	4	0	2	0	2	1,657
IMPS	1	0	937	508	277	88	143	7	2	1	37	75	84	2	0	0	0	1	2,165
IMPO	516	3,173	0	1,587	4,334	305	1,288	166	60	102	785	652	1,331	1	21	25	5	35	14,386
TCIS	42	485	690	0	2,446	0	1,599	0	0	181	408	98	184	6	3	7	1	1	6,149
TURF	0	1,804	10,662	0	0	8,511	2,761	107	108	76	246	72	202	1,844	0	0	0	0	26,391
TCTG	14	951	4,262	11	11,150	0	843	0	0	0	0	0	0	0	8	7	1	2	18,604
PDEV	1,699	5,534	10,236	0	21,021	70	0	675	94	0	0	0	0	0	0	0	0	205	42,993
FORE	1,161	2,760	8,867	732	13,061	27,923	28,091	0	20,947	1	0	0	0	0	35	5,584	194	296	414,850
TCOT	122	935	2,271	0	2,049	2,029	2,297	0	0	0	0	0	0	0	96	227	25	43	21,140
HARF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NATS	65	154	491	0	4,778	595	3,985	98,011	9,469	7,020	0	678	818	528	0	0	0	1,545	128,139
CROP	139	1,945	4,790	0	1,398	51	565	3,531	2,241	147	223	0	0	122	0	0	0	518	15,671
PAST	108	1,223	4,861	0	2,192	54	623	2,566	5,208	125	407	0	0	50	0	0	0	248	17,665
EXTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TDLW	1	2	21	0	1	0	0	1,264	81	0	0	0	0	0	0	0	0	64	1,435
RIVW	2	4	15	0	28	0	0	4,594	97	11	0	0	0	1	0	0	0	20	4,772
TERW	1	3	38	0	12	2	28	425	62	4	11	16	5	5	0	0	0	37	647
WATR	2	5	130	0	51	15	65	75	153	0	66	71	73	213	28	22	7	0	975
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	717,640

Forest to Other Tree Canopy  
Forest Fragmentation due to  
development and harvesting

Totals																			
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	
Decrease	1,657	2,165	14,386	6,149	26,391	18,604	42,993	414,850	21,140	0	128,139	15,671	17,665	0	1,435	4,772	647	975	
Net	2,215	16,827	34,224	(2,615)	36,480	21,106	(498)	(303,292)	17,456	184,491	(41,765)	9,220	13,684	9,634	106	1,102	(416)	2,042	

# Watershed Land Use Change: V2, 18-Class (Acres)

T1-T2 LU	ROAD	IMPS	IMPO	TCIS	TURF	TCTG	PDEV	FORE	TCOT	HARF	NATS	CROP	PAST	EXTR	TDLW	RIVW	TERW	WATR	Increase
ROAD	0	14	338	696	74	66	206	138	75	1	17	11	14	4	0	2	0	2	1,657
IMPS	1	0	937	508	277	88	143	7	2	1	37	75	84	2	0	0	0	1	2,165
IMPO	516	3,173	0	1,587	4,334	305	1,288	166	60	102	785	652	1,331	1	21	25	5	35	14,386
TCIS	42	485	690	0	2,446	0	1,599	0	0	181	408	98	184	6	3	7	1	1	6,149
TURF	0	1,804	10,662	0	0	8,511	2,761	107	108	76	246	72	202	1,844	0	0	0	0	26,391
TCTG	14	951	4,262	11	11,150	0	843	0	0	96	433	252	556	17	8	7	1	2	18,604
PDEV	1,699	5,534	10,236	0	21,021	70	0	675	94	378	0	339	348	2,394	0	0	0	205	42,993
FORE	1,161	2,760	8,867	732	13,061	27,923	28,091	0	20,947	175,602	81,454	19,549	23,182	4,063	1,385	5,584	194	296	414,850
TCOT	122	935	2,271	0	2,049	2,029	2,297	0	0	0	0	0	0	0	96	227	25	43	21,140
HARF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NATS	65	154	491	0	4,778	595	3,985	98,011	9,400	0	0	0	0	0	0	0	0	1,545	128,139
CROP	139	1,945	4,790	0	1,398	51	565	3,531	2,200	0	0	0	0	0	0	0	0	518	15,671
PAST	108	1,223	4,861	0	2,192	54	623	2,566	5,200	0	0	0	0	0	0	0	0	248	17,665
EXTR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TDLW	1	2	21	0	1	0	0	1,264	81	0	0	0	0	0	0	0	0	64	1,435
RIVW	2	4	15	0	28	0	0	4,594	97	11	0	0	0	1	0	0	0	20	4,772
TERW	1	3	38	0	12	2	28	425	62	4	11	16	5	5	0	0	0	37	647
WATR	2	5	130	0	51	15	65	75	153	0	66	71	73	213	28	22	7	0	975
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	717,640

Wetland dynamics  
 Forested wetlands and tree canopy wetlands roll up to FORE and TCOT

Totals																			
Increase	3,872	18,991	48,610	3,535	62,871	39,709	42,495	111,558	38,596	184,491	86,375	24,891	31,349	9,634	1,541	5,874	232	3,017	
Decrease	1,657	2,165	14,386	6,149	26,391	18,604	42,993	414,850	21,140	0	128,139	15,671	17,665	0	1,435	4,772	647	975	
Net	2,215	16,827	34,224	(2,615)	36,480	21,106	(498)	(303,292)	17,456	184,491	(41,765)	9,220	13,684	9,634	106	1,102	(416)	2,042	

# Watershed Conclusions

- Version 2 change has an increase in loads from Version 1
- The general 18-class roll up is more explanatory than Phase 6 classes
  - CAST-21 we estimated the amount of mixed open that was harvesting and moved it back to forest
  - The 18 class roll up reports the mapped harvested acres over the 4-year mapping period

# Anne Arundel County, MD

2013-2018	ROAD	IMPS	IMPO	TCIS	TURF	TCTG	PDEV	FORE	TCOT	HARF	NATS	CROP	PAST	EXTR	TDLW	RIVW	TERW	WATR	Decrease
ROAD	0.0	0.6	55.4	9.5	3.8	5.9	21.0	0.6	10.8	0.0	1.9	0.3	0.6	0.0	0.0	0.3	0.0	0.0	110.8
IMPS	0.0	0.0	29.5	9.6	5.7	8.6	0.1	0.0	0.0	0.0	0.1	0.1	1.5	0.0	0.0	0.0	0.0	0.0	55.3
IMPO	12.0	86.7	0.0	33.4	85.4	27.6	14.4	0.3	1.6	0.0	3.2	2.5	3.0	0.0	0.1	0.0	0.0	0.5	270.8
TCIS	2.7	4.0	97.1	0.0	29.6	0.0	18.6	0.0	0.0	0.0	6.7	0.5	1.3	0.0	0.3	0.2	0.0	0.0	161.0
TURF	0.0	36.4	351.9	0.0	0.0	151.6	90.5	3.2	3.2	0.0	2.5	3.7	0.8	22.6	0.0	0.0	0.0	0.0	666.3
TCTG	1.6	11.2	204.5	0.0	123.5	0.0	27.4	0.0	0.0	0.0	11.1	1.5	3.3	0.0	0.0	0.0	0.0	0.0	384.1
PDEV	34.8	128.1	192.5	0.0	230.3	0.4	0.0	0.0	1.0	0.0	16.1	4.3	2.2	40.1	0.0	0.0	0.0	2.5	652.2
FORE	58.4	123.1	426.1	0.1	228.4	581.1	475.8	0.0	197.7	10.7	195.5	43.2	17.5	100.3	19.5	33.8	1.3	5.9	2,518.4
TCOT	4.0	33.1	47.7	0.0	24.9	25.0	36.0	0.0	0.0	0.0	15.6	11.1	9.2	4.4	0.3	8.3	0.6	0.0	220.3
HARF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATS	0.0	0.3	3.1	0.0	207.0	11.0	57.0	128.0	61.5	0.0	0.0	0.1	0.2	0.3	0.0	0.0	0.0	28.3	496.7
CROP	0.0	2.1	8.3	0.0	5.7	0.0	3.4	4.5	2.7	0.0	0.1	0.0	0.9	0.0	0.0	0.0	0.1	0.2	28.0
PAST	0.0	3.3	24.9	0.0	5.3	0.3	3.2	11.9	9.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.5	63.2
EXTR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TDLW	0.0	0.1	4.3	0.0	1.0	0.0	0.0	0.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
RIVW	0.0	0.2	1.3	0.0	0.0	0.0	0.0	2.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
TERW	0.0	0.0	0.7	0.0	0.2	0.0	0.3	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
WATR	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.1	0.6	0.0	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	23.1
Increase	113.6	429.4	1,447.9	52.6	950.8	811.7	747.8	151.4	294.2	10.7	253.0	67.3	40.4	189.2	20.2	42.6	2.0	41.8	5,666.6

Totals Increase in development

TotIncrease	113.6	429.4	1,447.9	52.6	950.8	811.7	747.8	151.4	294.2	10.7	253.0	67.3	40.4	189.2	20.2	42.6	2.0	41.8	
TotDecrease	110.8	55.3	270.8	161.0	666.3	384.1	652.2	2,518.4	220.3	0.0	496.7	28.0	63.2	0.0	8.4	6.4	1.6	23.1	
Net	2.8	374.1	1,177.1	(108.4)	284.5	427.5	95.6	(2,367.0)	73.9	10.7	(243.7)	39.3	(22.8)	189.2	11.8	36.2	0.5	18.8	



# Anne Arundel County, MD

2013-2018	ROAD	IMPS	IMPO	TCIS	TURF	TCTG	PDEV	FORE	TCOT	HARF	NATS	CROP	PAST	EXTR	TDLW	RIVW	TERW	WATR	Decrease
ROAD	0.0	0.6	55.4	9.5	3.8	5.9	21.0	0.6	10.8	0.0	1.9	0.3	0.6	0.0	0.0	0.3	0.0	0.0	110.8
IMPS	0.0	0.0	29.5	9.6	5.7	8.6	0.1	0.0	0.0	0.0	0.1	0.1	1.5	0.0	0.0	0.0	0.0	0.0	55.3
IMPO	12.0	86.7	0.0	33.4	85.4	27.6	14.4	0.3	1.6	0.0	3.2	2.5	3.0	0.0	0.1	0.0	0.0	0.5	270.8
TCIS	2.7	4.0	97.1	0.0	29.6	0.0	18.6	0.0	0.0	0.0	6.7	0.5	1.3	0.0	0.3	0.2	0.0	0.0	161.0
TURF	0.0	36.4	351.9	0.0	0.0	151.6	90.5	3.2	3.2	0.0	2.5	3.7	0.8	22.6	0.0	0.0	0.0	0.0	666.3
TCTG	1.6	11.2	204.5	0.0	123.5	0.0	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	384.1
PDEV	34.8	128.1	192.5	0.0	230.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	652.2
FORE	58.4	123.1	426.1	0.1	228.4	581.1	475.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	33.8	1.3	5.9	2,518.4
TCOT	4.0	33.1	47.7	0.0	24.9	25.0	36.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	8.3	0.6	0.0	220.3
HARF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATS	0.0	0.3	3.1	0.0	207.0	11.0	57.0	128.0	61.5	0.0	0.0	0.1	0.2	0.3	0.0	0.0	0.0	28.3	496.7
CROP	0.0	2.1	8.3	0.0	5.7	0.0	3.4	4.5	2.7	0.0	0.1	0.0	0.9	0.0	0.0	0.0	0.1	0.2	28.0
PAST	0.0	3.3	24.9	0.0	5.3	0.3	3.2	11.9	9.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.5	63.2
EXTR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TDLW	0.0	0.1	4.3	0.0	1.0	0.0	0.0	0.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4
RIVW	0.0	0.2	1.3	0.0	0.0	0.0	0.0	2.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
TERW	0.0	0.0	0.7	0.0	0.2	0.0	0.3	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
WATR	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.1	0.6	0.0	0.0	0.0	0.0	21.5	0.0	0.0	0.0	0.0	23.1
Increase	113.6	429.4	1,447.9	52.6	950.8	811.7	747.8	151.4	294.2	10.7	253.0	67.3	40.4	189.2	20.2	42.6	2.0	41.8	5,666.6

Forest Loss due to development  
FORE to TCTG not TC loss,  
change in use

## Totals

TotIncrease	113.6	429.4	1,447.9	52.6	950.8	811.7	747.8	151.4	294.2	10.7	253.0	67.3	40.4	189.2	20.2	42.6	2.0	41.8	
TotDecrease	110.8	55.3	270.8	161.0	666.3	384.1	652.2	2,518.4	220.3	0.0	496.7	28.0	63.2	0.0	8.4	6.4	1.6	23.1	
Net	2.8	374.1	1,177.1	(108.4)	284.5	427.5	95.6	(2,367.0)	73.9	10.7	(243.7)	39.3	(22.8)	189.2	11.8	36.2	0.5	18.8	



# King 51101, VA

2014-2018	ROAD	IMPS	IMPO	TCIS	TURF	TCTG	PDEV	FORE	TCOT	HARF	NATS	CROP	PAST	EXTR	TDLW	RIVW	TERW	WATR	Decrease
ROAD	0.0	0.0	0.0	1.9	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
IMPS	0.0	0.0	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.8
IMPO	0.9	4.3	0.0	4.1	0.6	0.0	0.1	2.9	0.0	0.0	1.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	15.4
TCIS	0.0	0.5	0.0	0.0	0.7	0.0	0.4	0.0	0.0	2.4	0.5	0.7	0.1	0.0	0.0	0.0	0.0	0.0	5.3
TURF	0.0	1.4	1.7	0.0	0.0	9.5	3.6	0.0	0.0	0.0	0.1	1.7	0.8	111.6	0.0	0.0	0.0	0.0	130.3
TCTG	0.0	0.6	0.1	0.0	9.0	0.0	0.2	0.0	0.0	1.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2
PDEV	0.1	10.4	21.9	0.0	76.4	0.3	0.0	5.8	0.0	1.2	2.5	0.0	0.0	0.0	0.1	0.1	0.0	0.0	140.9
FORE	1.3	9.3	4.1	7.0	74.9	89.0	<b>228.7</b>	0.0	61.1	<b>4,086.8</b>	<b>750.0</b>	<b>645.8</b>	<b>267.6</b>	<b>51.7</b>	41.0	63.1	3.6	0.0	6,385.0
TCOT	0.0	4.1	0.6	0.0	3.2	3.8	0.6	0.0	0.0	8.2	0.2	5.1	2.7	1.0	0.0	0.5	0.7	0.0	30.7
HARF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NATS	0.0	1.0	1.0	0.0	9.9	2.1	4.8	1,858.4	27.0	77.1	0.0	5.1	0.0	26.8	0.0	0.9	1.6	8.6	2,024.4
CROP	0.0	1.4	24.4	0.0	3.9	0.0	1.7	10.2	3.7	1.2	0.4	0.0	0.6	0.0	0.0	0.1	0.7	0.0	48.3
PAST	0.0	0.6	1.0	0.0	1.4	0.0	0.8	0.3	1.6	4.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5
EXTR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TDLW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RIVW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TERW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0	0.0	0.0	17.0
WATR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
Increase	2.4	33.6	55.5	13.5	180.4	104.7	241.0	1,880.4	95.4	4,183.1	757.0	677.4	272.1	195.8	58.1	64.7	6.6	8.6	8,836.2

Harvesting

## Totals

TotIncrease	2.4	33.6	55.5	13.5	180.4	104.7	241.0	1,880.4	95.4	4,183.1	757.0	677.4	272.1	195.8	58.1	64.7	6.6	8.6
TotDecrease	4.5	1.8	15.4	5.3	130.3	14.2	140.9	6,385.0	30.7	0.0	2,024.4	48.3	10.5	0.0	0.0	0.0	17.0	2.1
Net	(2.2)	31.8	40.1	8.2	50.1	90.5	100.1	(4,504.5)	64.7	4,183.1	(1,267.4)	629.2	261.6	195.8	58.1	64.7	(10.4)	6.5

# Contact

Sarah McDonald

[smcdonald@chesapeakebay.net](mailto:smcdonald@chesapeakebay.net)

[smcdonald@usgs.gov](mailto:smcdonald@usgs.gov)

