DELMARVA HURRICANE EVACUATION STUDY
STORM SURGE MAP/EVACUATION ZONE MAP - CATEGORY 1
DORCHESTER COUNTY, MD

AREAS OF POSSIBLE FLOODING
- CATEGORY 1 HURRICANES
- CATEGORY 2 HURRICANES
- CATEGORY 3 HURRICANES
- CATEGORY 4 HURRICANES

SLOSH MODEL SURGE VALUES

Cat 1	6.7
Cat 2	10.0
Cat 3	13.8
Cat 4	17.4

Elevations in NGVD29 Feet

POTENTIAL FRESHWATER FLOODING FEMA FLOOD INSURANCE RATAE MAPS
- 100 YEAR FLOOD
- 500 YEAR FLOOD
- "D" ZONE

This map reflects potential tidal flooding from hurricanes. Potential flood areas are based on storm surge heights calculated by the National Weather Service's SLOSH (Sea, Lake and Overland Surge from Hurricanes) Model.

Categories 1 through 4 refer to the Saffir-Simpson scale of hurricane intensity. Storm surge elevations used here represent "worst case" combinations of direction, forward speed, landfall point and astronomical tide for each category. These surge elevations do not include wave heights that may accompany storm surge.

Potential flood areas from National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM) are shown on this map in order to highlight the potential for flooding caused by rainfall. FIRM flood hazard areas (tidal or freshwater) within SLOSH tidal flooding areas are not shown.

N

1 0 1 Miles

Zone 1: 4.7, 7.4, 9.9, 12.4
Zone 2: 4.6, 7.3, 10.3, 12.9
Zone 3: 4.6, 6.9, 9.2, 11.7
Zone 4: 4.4, 7.7, 10.6, 13.4
Zone 5: 5.2, 7.7, 10.1, 12.6
Zone 6: 4.7, 8.5, 10.8, 13.1
Zone 7: 4.8, 7, 9.4, 11.8
Zone 8: 5.2, 10.3, 14.2, 17.3
Zone 9: 4.9, 8.9, 11.9, 14.7
Zone 10: 4.4, 7.6, 10.2, 12.9
Zone 11: 4.7, 8.1, 11.4, 16.2
Zone 12: 4.4, 7.6, 10.2, 12.9
Zone 13: 4.5, 6.9, 9.1, 11.5
Zone 14: 4.4, 6.9, 9.4, 12.2
Zone 15: 4.4, 7.6, 10.2, 12.9
Zone 16: 5.2, 9.6, 13, 15.6

Trappe, Windyhill, Choptank, Williamsburg, Finchville, Hurlock, Secretary, Cornersville, Hudson, Lloyds, James, Thomas, Cambridge, East New Market, Rhodesdale, Eldorado, Galestown, Sharptown, Linkwood, Salem, Vienna, Church Creek, Madison, Woolford, Smithville, Taylors Island, Mardela Springs, Athol, Longfield, Cedar Landing, Henrys Crossroads, Quantico, Andrews, Honga, Lakesville, Crapo, Fishing Creek, Toddville, Bishops Head, Hoopersville, Crocheron, Elliott, Tyaskin, Bivalve, Green Hill, Whitehaven

ESTIMATES OF HOUSING UNITS SUBJECT TO TIDAL FLOODING - 2000 CENSUS DATA

This map aggregates 2000 census housing unit data by evacuation zone and hurricane tidal flooding vulnerability.

Zone Boundary

Each dot represents one mobile home unit. Dots do not represent exact locations; they are randomly distributed within their respective census block.

DORCHESTER COUNTY VULNERABLE HOUSING UNIT DATA

ZONE	PERMANENTLY OCCUPIED HOUSING UNITS [1] CAT 1	CAT 2	CAT 3	CAT 4	SEASONALLY OCCUPIED HOUSING UNITS [1] CAT 1	CAT 2	CAT 3	CAT 4	MOBILE HOMES [2] OCCUPIED	TOTAL	TOTAL HSG UNITS
1	256	4	0	0	85	1	0	0	20	23	410
2	315	31	1	0	88	10	0	0	21	25	508
3	274	158	1	0	76	41	0	0	0	0	576
4	183	270	309	997	19	18	17	13	253	265	6,637
5	119	145	6	0	21	26	1	0	9	13	306
6	13	33	34	40	1	1	1	2	26	36	187
7	401	18	1	0	82	3	0	0	44	85	625
8	23	10	13	12	2	1	1	1	15	22	113
9	36	108	152	29	2	6	8	1	68	81	383
10	0	6	17	24	0	0	0	0	144	155	444
11	74	95	114	135	3	4	6	6	177	199	1,592
12	2	4	7	7	0	0	0	0	152	157	1,458
13	2	2	3	4	0	0	0	0	154	175	485
14	3	16	6	8	0	0	0	0	96	101	413
15	4	28	42	39	0	1	1	1	115	131	341
16	2	4	13	17	0	0	0	0	50	57	210
TOTALS	1,707	932	719	1,312	379	112	35	24	1,344	1,525	14,688

[1] Category 2 through 4 units are in addition to preceding category(ies).
[2] Mobile homes can be seasonal housing units and vice versa.

This hurricane storm surge and vulnerability map was produced by the Army Corps of Engineers, Philadelphia District. It is made available for review by Maryland state and local government emergency management and other interested agencies.
Questions or comments should be directed to S Long - 215-656-6552; Stephen.w.long@usace.army.mil

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DELMARVA HURRICANE EVACUATION STUDY
STORM SURGE MAP/EVACUATION ZONE MAP - CATEGORY 2
DORCHESTER COUNTY, MD

AREAS OF POSSIBLE FLOODING
- CATEGORY 1 HURRICANES
- CATEGORY 2 HURRICANES
- CATEGORY 3 HURRICANES
- CATEGORY 4 HURRICANES

SLOSH MODEL SURGE VALUES

Cat 1	6.7
Cat 2	10.0
Cat 3	13.8
Cat 4	17.4

Elevations in NGVD29 Feet

POTENTIAL FRESHWATER FLOODING FEMA FLOOD INSURANCE RATAE MAPS
- 100 YEAR FLOOD
- 500 YEAR FLOOD
- "D" ZONE

This map reflects potential tidal flooding from hurricanes. Potential flood areas are based on storm surge heights calculated by the National Weather Service's SLOSH (Sea, Lake and Overland Surge from Hurricanes) Model.

Categories 1 through 4 refer to the Saffir-Simpson scale of hurricane intensity. Storm surge elevations used here represent "worst case" combinations of direction, forward speed, landfall point and astronomical tide for each category. These surge elevations do not include wave heights that may accompany storm surge.

Potential flood areas from National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM) are shown on this map in order to highlight the potential for flooding caused by rainfall. FIRM flood hazard areas (tidal or freshwater) within SLOSH tidal flooding areas are not shown.

N

1 0 1 Miles

Windyhill
Choptank
Trappe
Williamsburg
Finchville
Hurlock
Secretary
Cornersville
Hudson
Lloyds
James
Thomas
Cambridge
East New Market
Rhodesdale
Eldorado
Galestown
Linkwood
Sharptown
Salem
Church Creek
Madison
Woolford
Smithville
Taylors Island
Vienna
Mardela Springs
Longfield
Cedar Landing
Henrys Crossroads
Athol
Quantico
Honga
Andrews
Lakesville
Crapo
Fishing Creek
Elliott
Toddville
Bishops Head
Hoopersville
Crocheron
Tyaskin
Bivalve
Green Hill
Whitehaven

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

MD-318 MD-333 SOUTH SIDE ISLAND CREEK RD US-50 JAMAICA POINT RD BLINK HORN RD MD-392 MD-313 MD-327 BELLBRIDGE RD MD-343 LLOYDS RD RACKED POINT RD TOWN POINT RD MD-16 EGYPT RD BUCKTOWN RD HAYWARD RD INDIANTOWN RD MD-347 MD-414 HOOPER NECK RD TAYLORS ISLAND RD WHITE MARSH RD ARGOSY LINE RD OLD FIELD RD BAY SHORE RD SMITHVILLE RD ROBINSON NECK RD KEY WALLACE DR MD-335 HOOPERS ISLAND RD MD-336 MD-335 MD-341 ANDREWS RD LAKESVILLE CRAPO RD WESLEY CHURCH RD TODDVILLE RD DECOURSEY BRIDGE RD OCEAN HWY MD-394 ELLIOT ISLAND RD RIVERTON RD MD-413 MD-394 TAYLORS TRAIL RD CHERRY WALK RD WETIPQUIN RD DEEP BRANCH RD INSLEY DR MD-349 MD-352 MD-347

4.4 7.6 10.2 12.9
4.6 6.9 9.2 11.7
4.4 7.7 10.6 13.4
4.4 6.9 9.4 12.2
4.7 7.2 9.3 11.7
4.5 6.9 9.1 11.5
4.6 7.3 10.3 12.9
4.6 7.5 10.1 12.6
4.7 8.5 10.8 13.1
4.7 7.4 9.9 12.4
5.2 7.7 10.1 12.6
4.9 8.9 11.9 14.7
4.6 8 10.7 13.1
4.8 7 9.4 11.8
4.7 8.1 11.4 16.2
5.2 10.3 14.2 17.3
5.2 9.6 13 15.6

ESTIMATES OF HOUSING UNITS SUBJECT TO TIDAL FLOODING - 2000 CENSUS DATA

This map aggregates 2000 census housing unit data by evacuation zone and hurricane tidal flooding vulnerability.

Zone Boundary

Each dot represents one mobile home unit. Dots do not represent exact locations; they are randomly distributed within their respective census block.

DORCHESTER COUNTY VULNERABLE HOUSING UNIT DATA

ZONE	PERMANENTLY OCCUPIED HOUSING UNITS[1] CAT 1	CAT 2	CAT 3	CAT 4	SEASONALLY OCCUPIED HOUSING UNITS[1] CAT 1	CAT 2	CAT 3	CAT 4	MOBILE HOMES[2] OCCUPIED	MOBILE HOMES[2] TOTAL	TOTAL HSG UNITS
1	256	4	0	0	85	1	0	0	20	23	410
2	315	31	1	0	88	10	0	0	21	25	508
3	274	158	1	0	76	41	0	0	0	0	576
4	183	270	309	997	19	18	17	13	253	265	6,637
5	119	145	6	0	21	26	1	0	9	13	306
6	13	33	34	40	1	1	1	2	26	36	187
7	401	18	1	0	82	3	0	0	44	85	625
8	23	10	13	12	2	1	1	1	15	22	113
9	36	108	152	29	2	6	8	1	68	81	383
10	0	6	17	24	0	0	0	0	144	155	444
11	74	95	114	135	3	4	6	6	177	199	1,592
12	2	4	7	7	0	0	0	0	152	157	1,458
13	2	2	3	4	0	0	0	0	154	175	485
14	3	16	6	8	0	0	0	0	96	101	413
15	4	28	42	39	0	1	1	1	115	131	341
16	2	4	13	17	0	0	0	0	50	57	210
TOTALS	1,707	932	719	1,312	379	112	35	24	1,344	1,525	14,688

[1] Category 2 through 4 units are in addition to preceding category(ies).
[2] Mobile homes can be seasonal housing units and vice versa.

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DELMARVA HURRICANE EVACUATION STUDY
STORM SURGE MAP/EVACUATION ZONE MAP - CATEGORY 3
DORCHESTER COUNTY, MD

AREAS OF POSSIBLE FLOODING

- CATEGORY 1 HURRICANES
- CATEGORY 2 HURRICANES
- CATEGORY 3 HURRICANES
- CATEGORY 4 HURRICANES

SLOSH MODEL SURGE VALUES

Cat 1	6.7
Cat 2	10.0
Cat 3	13.8
Cat 4	17.4

Elevations in NGVD29 Feet

POTENTIAL FRESHWATER FLOODING FEMA FLOOD INSURANCE RATAE MAPS

- 100 YEAR FLOOD
- 500 YEAR FLOOD
- "D" ZONE

This map reflects potential tidal flooding from hurricanes. Potential flood areas are based on storm surge heights calculated by the National Weather Service's SLOSH (Sea, Lake and Overland Surge from Hurricanes) Model.

Categories 1 through 4 refer to the Saffir-Simpson scale of hurricane intensity. Storm surge elevations used here represent "worst case" combinations of direction, forward speed, landfall point and astronomical tide for each category. These surge elevations do not include wave heights that may accompany storm surge.

Potential flood areas from National Flood Insurance Program (NFIP) Flood Insurance Rate Maps (FIRM) are shown on this map in order to highlight the potential for flooding caused by rainfall. FIRM flood hazard areas (tidal or freshwater) within SLOSH tidal flooding areas are not shown.

N

1 0 1 Miles

Windyhill
Choptank
Trappe
Williamsburg
Finchville
Hurlock
Secretary
Cornersville
Hudson
Lloyds
James
Thomas
Cambridge
East New Market
Rhodesdale
Eldorado
Galestown
Sharptown
Linkwood
Salem
Church Creek
Madison
Woolford
Smithville
Taylors Island
Vienna
Mardela Springs
Athol
Longfield
Cedar Landing
Henrys Crossroads
Andrews
Honga
Lakesville
Crapo
Fishing Creek
Toddville
Bishops Head
Hoopersville
Crocheron
Elliott
Tyaskin
Bivalve
Green Hill
Whitehaven
Quantico

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

MD-318 MD-333 SOUTH SIDE ISLAND CREEK RD US-50 JAMAICA POINT RD BLINK HORN RD MD-327 BELLBRIDGE RD MD-313 MD-392 MD-392 MD-343 RAGGED POINT RD TOWN POINT RD MD-16 CR-14 BUCKTOWN RD EGYPT RD HAVRE DE RD INDIANTOWN RD MD-318 OCEAN GATEWAY MD-731 RIVERTON RD MD-54 US-50 TAYLORS TRAIL RD CHERRY WALK RD MD-347 WETIPQUIN RD DEEP BRANCH RD INSLEY DR MD-349 MD-352 MD-349 MD-335 HOOPERS ISLAND RD HOOPER NECK RD TAYLORS ISLAND RD WHITE MARSH RD MERRIDALE RD OLD FIELD RD BAY SHORE RD SMITHVILLE RD ROBINSON NECK RD KEY WALLACE DR MD-335 HP ROPE RD MD-336 MD-341 ANDREWS RD LAKESVILLE CRAPO RD WESLEY CHURCH RD TODDVILLE RD DECOURSEY BRIDGE RD CR-192 CRISFIELD NECK RD ELLIOT ISLAND RD

4.4 7.6 10.2 12.9
4.6 6.9 9.2 11.7
4.4 7.7 10.6 13.4
4.4 6.9 9.4 12.2
4.7 7.2 9.3 11.7
4.5 6.9 9.1 11.5
4.7 8.5 10.8 13.1
4.9 8.9 11.9 14.7
4.7 7.4 9.9 12.4
5.2 7.7 10.1 12.6
4.6 7.3 10.3 12.9
4.6 7.5 10.1 12.6
4.8 7 9.4 11.8
4.6 8 10.7 13.1
5.2 10.3 14.2 17.3
5.2 9.6 13 15.6
4.7 8.1 11.4 16.2

ESTIMATES OF HOUSING UNITS SUBJECT TO TIDAL FLOODING - 2000 CENSUS DATA

This map aggregates 2000 census housing unit data by evacuation zone and hurricane tidal flooding vulnerability.

Zone Boundary

Each dot represents one mobile home unit. Dots do not represent exact locations; they are randomly distributed within their respective census block.

DORCHESTER COUNTY VULNERABLE HOUSING UNIT DATA

ZONE	PERMANENTLY OCCUPIED HOUSING UNITS [1] CAT 1	CAT 2	CAT 3	CAT 4	SEASONALLY OCCUPIED HOUSING UNITS [1] CAT 1	CAT 2	CAT 3	CAT 4	MOBILE HOMES [2] OCCUPIED	TOTAL	TOTAL HSG UNITS
1	256	4	0	0	85	1	0	0	20	23	410
2	315	31	1	0	88	10	0	0	21	25	508
3	274	158	1	0	76	41	0	0	0	0	576
4	183	270	309	997	19	18	17	13	253	265	6,637
5	119	145	6	0	21	26	1	0	9	13	306
6	13	33	34	40	1	1	1	2	26	36	187
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10	0	6	17	24	0	0	0	0	144	155	444
11	74	95	114	135	3	4	6	6	177	199	1,592
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14	3	16	6	8	0	0	0	0	96	101	413
15	4	28	42	39	0	1	1	1	115	131	341
16	2	4	13	17	0	0	0	0	50	57	210
TOTALS	1,707	932	719	1,312	379	112	35	24	1,344	1,525	14,688

[1] Category 2 through 4 units are in addition to preceding category(ies).
[2] Mobile homes can be seasonal housing units and vice versa.

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DELMARVA HURRICANE EVACUATION STUDY
STORM SURGE MAP/EVACUATION ZONE MAP - CATEGORY 4
DORCHESTER COUNTY, MD

AREAS OF POSSIBLE FLOODING
- CATEGORY 1 HURRICANES
- CATEGORY 2 HURRICANES
- CATEGORY 3 HURRICANES
- CATEGORY 4 HURRICANES

SLOSH MODEL SURGE VALUES

Cat 1	6.7
Cat 2	10.0
Cat 3	13.8
Cat 4	17.4

Elevations in NGVD29 Feet

POTENTIAL FRESHWATER FLOODING FEMA FLOOD INSURANCE RATAE MAPS
- 100 YEAR FLOOD
- 500 YEAR FLOOD
- "D" ZONE

This map reflects potential tidal flooding from hurricanes. Potential flood areas are based on storm surge heights calculated by the National Weather Service's SLOSH (Sea, Lake and Overland Surge from Hurricanes) Model.

Categories 1 through 4 refer to the Saffir-Simpson scale of hurricane intensity. Storm surge elevations used here represent "worst case" combinations of direction, forward speed, landfall point and astronomical tide for each category. These surge elevations do not include wave heights that may accompany storm surge.

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N

1 0 1 Miles

Windyhill
Choptank
Trappe
Williamsburg
Finchville
Hurlock
Secretary
Cornersville
Hudson
Lloyds
James
Thomas
Cambridge
East New Market
Eldorado
Rhodesdale
Galestown
Sharptown
Linkwood
Salem
Church Creek
Madison
Woolford
Smithville
Taylors Island
Vienna
Mardela Springs
Longfield
Cedar Landing
Athol
Henrys Crossroads
Quantico
Andrews
Honga
Lakesville
Crapo
Fishing Creek
Toddville
Elliott
Bishops Head
Hoopersville
Crocheron
Tyaskin
Bivalve
Green Hill
Whitehaven

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

4.4 7.6 10.2 12.9
4.6 6.9 9.2 11.7
4.4 7.7 10.6 13.4
4.7 8.1 11.4 16.2
4.4 6.9 9.4 12.2
4.7 7.2 9.3 11.7
4.5 6.9 9.1 11.5
4.6 7.3 10.3 12.9
4.6 7.5 10.1 12.6
4.7 8.5 10.8 13.1
4.7 7.4 9.9 12.4
5.2 7.7 10.1 12.6
4.9 8.9 11.9 14.7
4.6 8 10.7 13.1
4.8 7 9.4 11.8
5.2 10.3 14.2 17.3
5.2 9.6 13 15.6

ESTIMATES OF HOUSING UNITS SUBJECT TO TIDAL FLOODING - 2000 CENSUS DATA

This map aggregates 2000 census housing unit data by evacuation zone and hurricane tidal flooding vulnerability.

Zone Boundary

Each dot represents one mobile home unit. Dots do not represent exact locations; they are randomly distributed within their respective census block.

DORCHESTER COUNTY VULNERABLE HOUSING UNIT DATA

ZONE	PERMANENTLY OCCUPIED HOUSING UNITS[1] CAT 1	CAT 2	CAT 3	CAT 4	SEASONALLY OCCUPIED HOUSING UNITS[1] CAT 1	CAT 2	CAT 3	CAT 4	MOBILE HOMES[2] OCCUPIED	TOTAL	TOTAL HSG UNITS
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DELMARVA HURRICANE EVACUATION STUDY
STORM SURGE MAP/EVACUATION ZONE MAP - ALL CATEGORIES
DORCHESTER COUNTY, MD

AREAS OF POSSIBLE FLOODING
- CATEGORY 1 HURRICANES
- CATEGORY 2 HURRICANES
- CATEGORY 3 HURRICANES
- CATEGORY 4 HURRICANES

SLOSH MODEL SURGE VALUES

Cat 1	6.7
Cat 2	10.0
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Cat 4	17.4

Elevations in NGVD29 Feet

POTENTIAL FRESHWATER FLOODING FEMA FLOOD INSURANCE RATAE MAPS
- 100 YEAR FLOOD
- 500 YEAR FLOOD
- "D" ZONE

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N

1 0 1 Miles

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Zone 5: 4.7, 7.2, 9.3, 11.7
Zone 6: 4.5, 6.9, 9.1, 11.5
Zone 7: 4.7, 8.5, 10.8, 13.1
Zone 8: 4.6, 7.5, 10.1, 12.6
Zone 9: 4.9, 8.9, 11.9, 14.7
Zone 10: 4.4, 7.6, 10.2, 12.9
Zone 11: 4.7, 8.1, 11.4, 16.2
Zone 12: 5.2, 10.3, 14.2, 17.3
Zone 13: 5.2, 9.6, 13, 15.6
Zone 14: 4.6, 8, 10.7, 13.1
Zone 15: 4.8, 7, 9.4, 11.8
Zone 16: 4.4, 7.7, 10.6, 13.4

Cornersville, Hudson, Lloyds, James, Thomas, Cambridge, Trappe, Windyhill, Choptank, Secretary, Hurlock, Williamsburg, Finchville, Eldorado, East New Market, Rhodesdale, Galestown, Sharptown, Linkwood, Salem, Church Creek, Madison, Woolford, Smithville, Taylors Island, Vienna, Mardela Springs, Athol, Longfield, Cedar Landing, Henrys Crossroads, Quantico, Tyaskin, Green Hill, Bivalve, Whitehaven, Andrews, Lakesville, Crapo, Fishing Creek, Honga, Hoopersville, Toddville, Bishops Head, Crocheron, Elliott

ESTIMATES OF HOUSING UNITS SUBJECT TO TIDAL FLOODING - 2000 CENSUS DATA

This map aggregates 2000 census housing unit data by evacuation zone and hurricane tidal flooding vulnerability.

Zone Boundary

Each dot represents one mobile home unit. Dots do not represent exact locations; they are randomly distributed within their respective census block.

DORCHESTER COUNTY VULNERABLE HOUSING UNIT DATA

ZONE	PERMANENTLY OCCUPIED HOUSING UNITS[1] CAT 1	CAT 2	CAT 3	CAT 4	SEASONALLY OCCUPIED HOUSING UNITS[1] CAT 1	CAT 2	CAT 3	CAT 4	MOBILE HOMES[2] OCCUPIED	TOTAL	TOTAL HSG UNITS
1	256	4	0	0	85	1	0	0	20	23	410
2	315	31	1	0	88	10	0	0	21	25	508
3	274	158	1	0	76	41	0	0	0	0	576
4	183	270	309	997	19	18	17	13	253	265	6,637
5	119	145	6	0	21	26	1	0	9	13	306
6	13	33	34	40	1	1	1	2	26	36	187
7	401	18	1	0	82	3	0	0	44	85	625
8	23	10	13	12	2	1	1	1	15	22	113
9	36	108	152	29	2	6	8	1	68	81	383
10	0	6	17	24	0	0	0	0	144	155	444
11	74	95	114	135	3	4	6	6	177	199	1,592
12	2	4	7	7	0	0	0	0	152	157	1,458
13	2	2	3	4	0	0	0	0	154	175	485
14	3	16	6	8	0	0	0	0	96	101	413
15	4	28	42	39	0	1	1	1	115	131	341
16	2	4	13	17	0	0	0	0	50	57	210
TOTALS	1,707	932	719	1,312	379	112	35	24	1,344	1,525	14,688

[1] Category 2 through 4 units are in addition to preceding category(ies).
[2] Mobile homes can be seasonal housing units and vice versa.

This hurricane storm surge and vulnerability map was produced by the Army Corps of Engineers, Philadelphia District. It is made available for review by Maryland state and local government emergency management and other interested agencies.
Questions or comments should be directed to S Long - 215-656-6552; Stephen.w.long@usace.army.mil

This map can be downloaded from the Delmarva HES website: http://www.nap.usace.army.mil/HES/Delmarva/index.html

This map is subject to additional quality assurance and editing and should not be generally distributed.