

1 0 1 Miles



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

AREAS OF POSSIBLE FLOODING	SLOSH MODEL SURGE VALUES (samples)	POTENTIAL FRESHWATER FLOODING FEMA FLOOD INSURANCE RATE MAPS
<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 1 HURRICANES</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffffe0; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 2 HURRICANES</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffff00; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 3 HURRICANES</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffcc00; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 4 HURRICANES</li> </ul>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> 6.7 Cat 1</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffffe0; border: 1px solid black; margin-right: 5px;"></span> 10.0 Cat 2</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffff00; border: 1px solid black; margin-right: 5px;"></span> 13.8 Cat 3</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffcc00; border: 1px solid black; margin-right: 5px;"></span> 17.4 Cat 4</li> </ul> <p style="font-size: small; margin-top: 5px;">Elevations in NGVD29 Feet</p>	<ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> 100 YEAR FLOOD</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffff00; border: 1px solid black; margin-right: 5px;"></span> 500 YEAR FLOOD</li> </ul>

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.

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

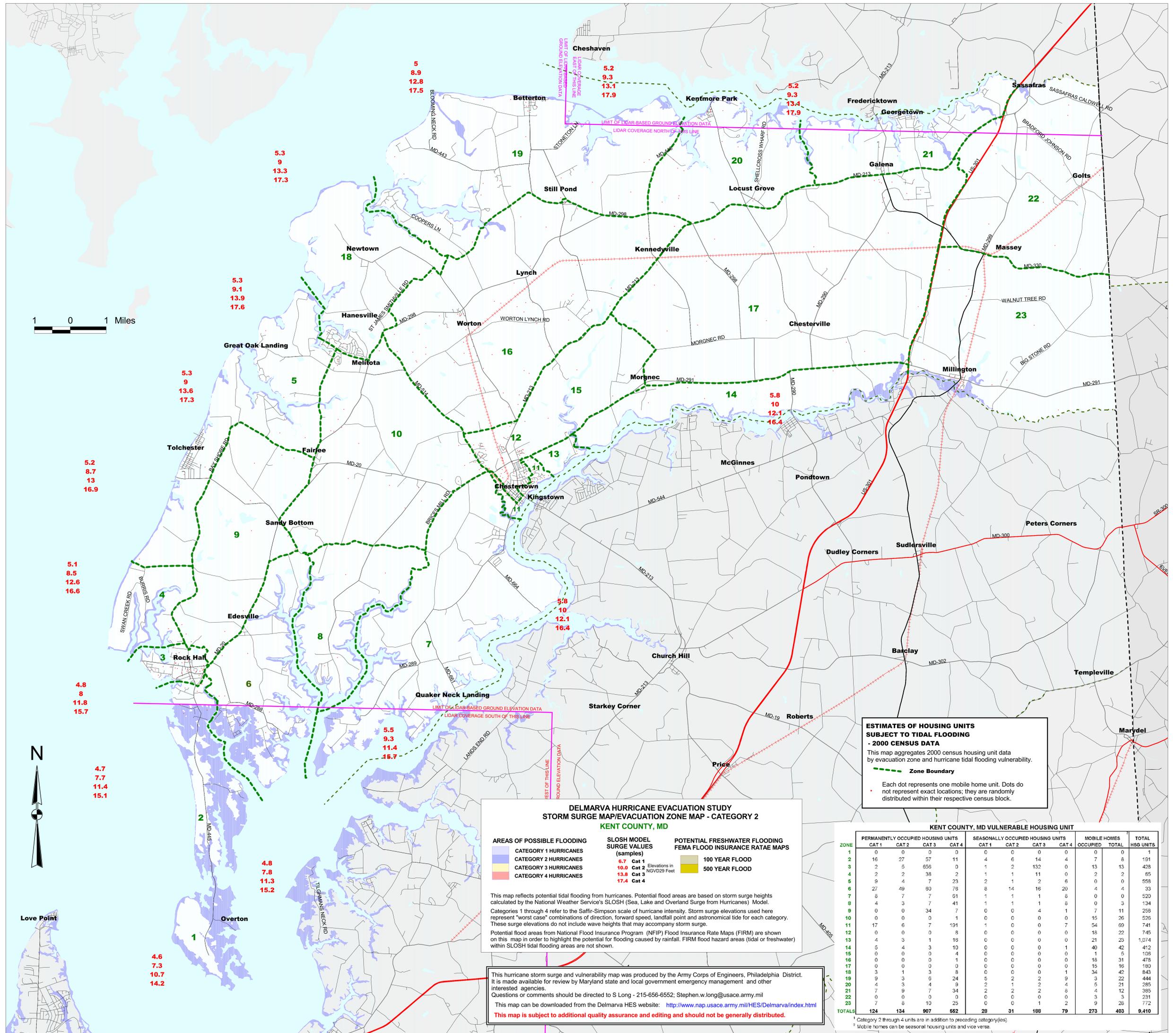
This map aggregates 2000 census housing unit data by evacuation zone and hurricane tidal flooding vulnerability.

**Zone Boundary**

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

KENT COUNTY, MD VULNERABLE HOUSING UNIT											
ZONE	PERMANENTLY OCCUPIED HOUSING UNITS				SEASONALLY OCCUPIED HOUSING UNITS				MOBILE HOMES OCCUPIED	TOTAL	TOTAL HSG UNITS
	CAT 1	CAT 2	CAT 3	CAT 4	CAT 1	CAT 2	CAT 3	CAT 4			
1	0	0	0	0	0	0	0	0	0	0	1
2	16	27	57	11	4	6	14	4	7	8	191
3	2	5	656	0	1	2	132	0	13	13	428
4	2	2	38	2	1	1	11	0	2	2	65
5	9	4	7	23	2	1	2	6	0	0	558
6	27	49	80	78	8	14	16	20	4	4	33
7	8	7	7	61	1	1	1	8	0	0	520
8	4	3	7	41	1	1	1	8	0	3	134
9	0	0	34	7	0	0	4	1	7	11	258
10	0	0	0	1	0	0	0	0	15	26	526
11	17	6	7	191	1	0	0	7	54	69	741
12	0	0	0	8	0	0	0	0	18	22	745
13	4	3	1	18	0	0	0	0	21	23	1,074
14	5	4	3	10	0	0	0	1	40	42	412
15	0	0	0	4	0	0	0	0	1	5	109
16	0	0	0	1	0	0	0	0	16	31	478
17	0	0	0	0	0	0	0	0	15	16	180
18	3	1	3	8	0	0	0	1	34	42	843
19	9	3	6	24	5	2	2	9	3	22	444
20	4	3	4	9	2	1	2	4	5	21	285
21	7	9	7	34	2	2	2	8	4	12	389
22	0	0	0	0	0	0	0	0	3	3	231
23	7	8	10	25	0	0	1	2	9	26	772
<b>TOTALS</b>	<b>124</b>	<b>134</b>	<b>907</b>	<b>552</b>	<b>28</b>	<b>31</b>	<b>188</b>	<b>79</b>	<b>273</b>	<b>403</b>	<b>9,410</b>

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



Love Point  
Overton

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

AREAS OF POSSIBLE FLOODING	SLOSH MODEL SURGE VALUES (samples)	POTENTIAL FRESHWATER FLOODING FEMA FLOOD INSURANCE RATE MAPS
<ul style="list-style-type: none"> <li>CATEGORY 1 HURRICANES</li> <li>CATEGORY 2 HURRICANES</li> <li>CATEGORY 3 HURRICANES</li> <li>CATEGORY 4 HURRICANES</li> </ul>	<ul style="list-style-type: none"> <li>6.7 Cat 1</li> <li>10.0 Cat 2</li> <li>13.8 Cat 3</li> <li>17.4 Cat 4</li> </ul>	<ul style="list-style-type: none"> <li>100 YEAR FLOOD</li> <li>500 YEAR FLOOD</li> </ul>

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.

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.

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

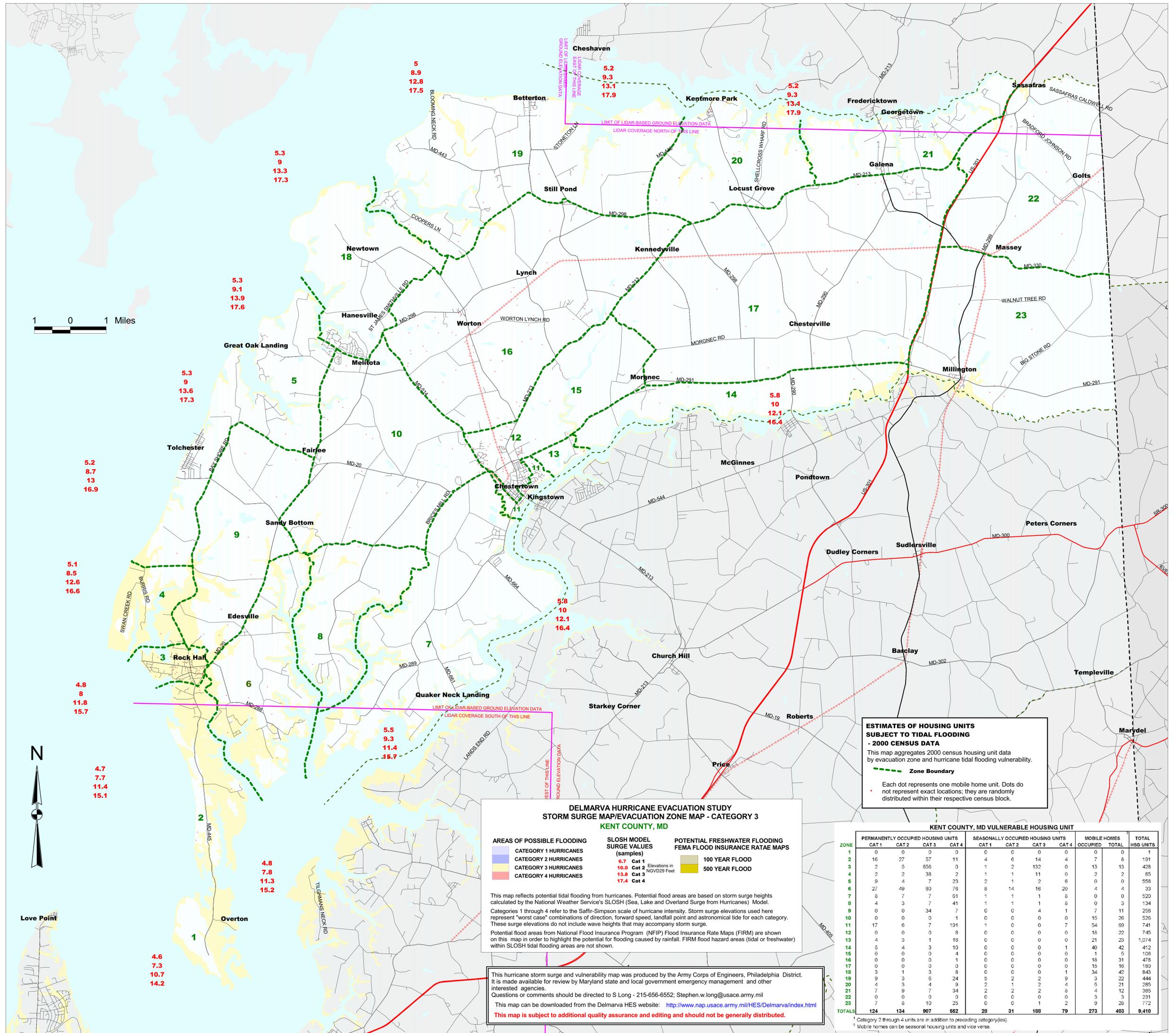
This map aggregates 2000 census housing unit data by evacuation zone and hurricane tidal flooding vulnerability.

**Zone Boundary**

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

ZONE	PERMANENTLY OCCUPIED HOUSING UNITS				SEASONALLY OCCUPIED HOUSING UNITS				MOBILE HOMES		TOTAL HSG UNITS
	CAT 1	CAT 2	CAT 3	CAT 4	CAT 1	CAT 2	CAT 3	CAT 4	OCCUPIED	TOTAL	
1	0	0	0	0	0	0	0	0	0	0	1
2	16	27	57	11	4	6	14	4	7	8	191
3	2	5	656	0	1	2	132	0	13	13	428
4	2	2	38	2	1	1	11	0	2	2	65
5	9	4	7	23	2	1	2	6	0	0	558
6	27	49	80	78	8	14	16	20	4	4	33
7	8	7	7	61	1	1	1	8	0	0	520
8	4	3	7	41	1	1	1	8	0	3	134
9	0	0	34	7	0	0	4	1	7	11	258
10	0	0	0	1	0	0	0	0	15	26	526
11	17	6	7	191	1	0	0	7	54	69	741
12	0	0	0	8	0	0	0	0	18	22	745
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15	0	0	0	4	0	0	0	0	1	5	109
16	0	0	0	1	0	0	0	0	18	31	478
17	0	0	0	0	0	0	0	0	15	16	180
18	3	1	3	8	0	0	0	1	34	42	843
19	9	3	6	24	5	2	2	9	3	22	444
20	4	3	4	9	2	1	2	4	5	21	285
21	7	9	7	34	2	2	2	8	4	12	389
22	0	0	0	0	0	0	0	0	3	3	231
23	7	8	10	25	0	0	1	2	9	26	772
TOTALS	124	134	907	652	28	31	188	79	273	403	9,410

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



1 0 1 Miles



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

- |  |   |  |
|--|---|--|
| <b>AREAS OF POSSIBLE FLOODING</b>  | <b>SLOSH MODEL SURGE VALUES (samples)</b>   | <b>POTENTIAL FRESHWATER FLOODING FEMA FLOOD INSURANCE RATE MAPS</b>  |
| <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: #ccccff; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 1 HURRICANES</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: #ffffcc; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 2 HURRICANES</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: #ffff99; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 3 HURRICANES</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: #ffcc99; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 4 HURRICANES</li> </ul> | <ul style="list-style-type: none"> <li><b>6.7 Cat 1</b></li> <li><b>10.0 Cat 2</b></li> <li><b>13.8 Cat 3</b></li> <li><b>17.4 Cat 4</b></li> </ul> <p><small>Elevations in NGVD29 Feet</small></p> | <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: #d3d3d3; border: 1px solid black; margin-right: 5px;"></span> 100 YEAR FLOOD</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: #90ee90; border: 1px solid black; margin-right: 5px;"></span> 500 YEAR FLOOD</li> </ul> |

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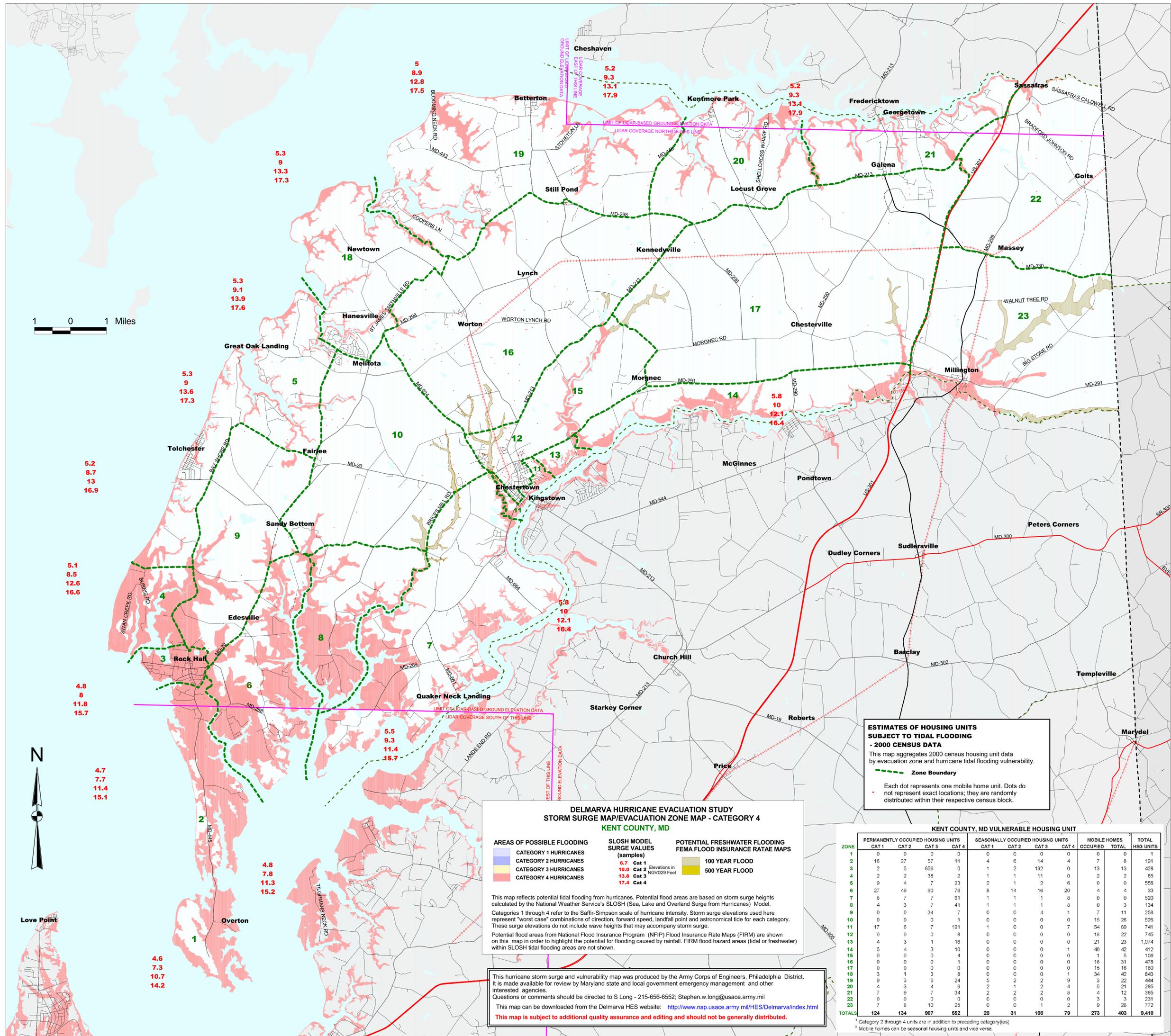
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**Zone Boundary**

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1 0 1 Miles



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

- |   |  |   |
|---|--|---|
| <p><b>AREAS OF POSSIBLE FLOODING</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 1 HURRICANES</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0ffe0; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 2 HURRICANES</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffffe0; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 3 HURRICANES</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffe0e0; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 4 HURRICANES</li> </ul> | <p><b>SLOSH MODEL SURGE VALUES (samples)</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> 6.7 Cat 1</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0ffe0; border: 1px solid black; margin-right: 5px;"></span> 10.0 Cat 2</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffffe0; border: 1px solid black; margin-right: 5px;"></span> 13.8 Cat 3</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffe0e0; border: 1px solid black; margin-right: 5px;"></span> 17.4 Cat 4</li> </ul> <p><small>Elevations in NGVD29 Feet</small></p> | <p><b>POTENTIAL FRESHWATER FLOODING FEMA FLOOD INSURANCE RATE MAPS</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> 100 YEAR FLOOD</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #ffe0e0; border: 1px solid black; margin-right: 5px;"></span> 500 YEAR FLOOD</li> </ul> |
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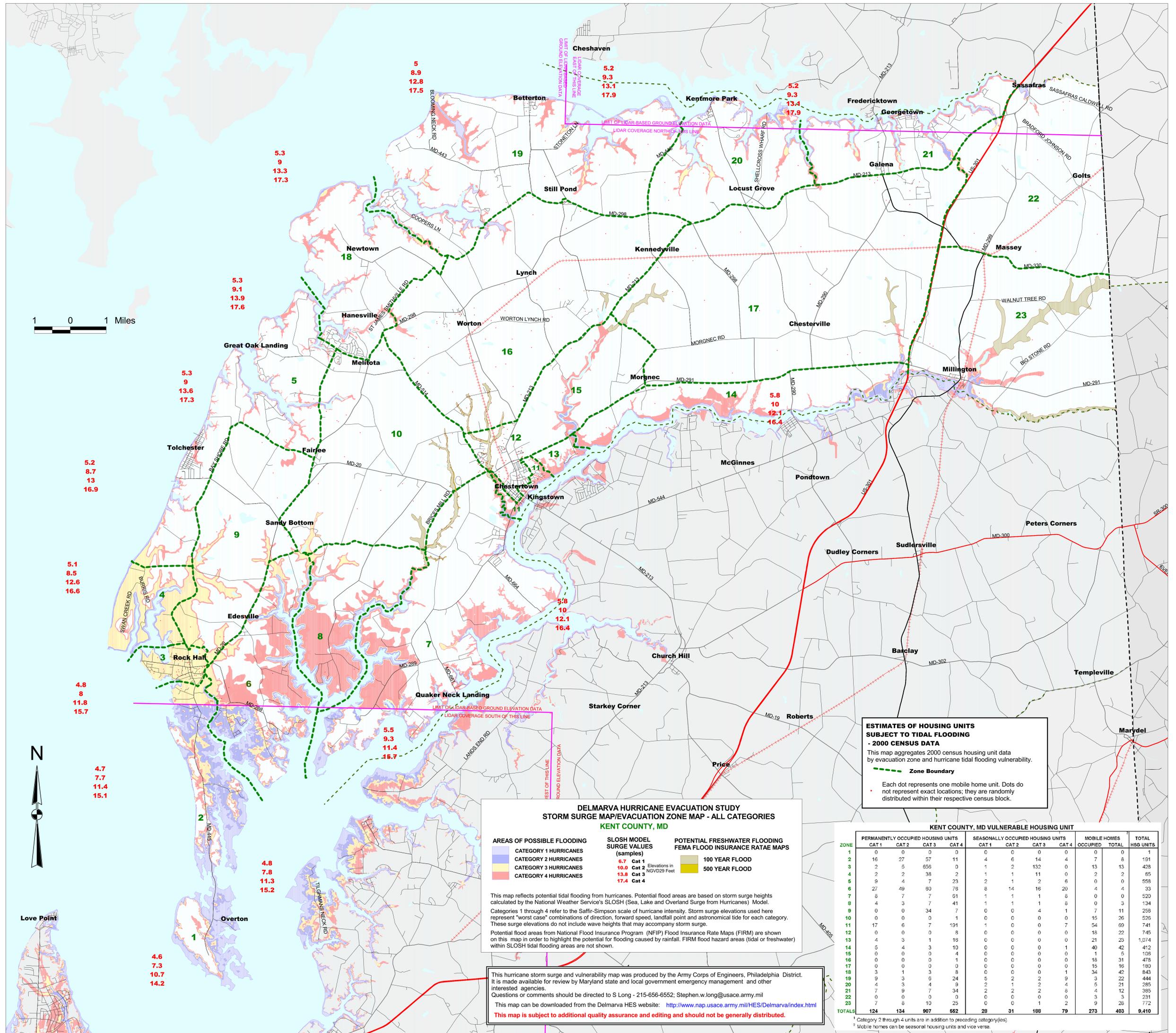
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1 0 1 Miles



**DELMARVA HURRICANE EVACUATION STUDY  
STORM SURGE MAP/EVACUATION ZONE MAP - ALL CATEGORIES  
KENT COUNTY, MD**

- |   |  |   |
|---|--|---|
| <p><b>AREAS OF POSSIBLE FLOODING</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 1 HURRICANES</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 2 HURRICANES</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 3 HURRICANES</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> CATEGORY 4 HURRICANES</li> </ul> | <p><b>SLOSH MODEL SURGE VALUES (samples)</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> 6.7 Cat 1</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> 10.0 Cat 2</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> 13.8 Cat 3</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> 17.4 Cat 4</li> </ul> | <p><b>POTENTIAL FRESHWATER FLOODING FEMA FLOOD INSURANCE RATE MAPS</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> 100 YEAR FLOOD</li> <li><span style="display: inline-block; width: 15px; height: 10px; background-color: #e0e0ff; border: 1px solid black; margin-right: 5px;"></span> 500 YEAR FLOOD</li> </ul> |
|---|--|---|

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.

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.**

**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.

ZONE	PERMANENTLY OCCUPIED HOUSING UNITS				SEASONALLY OCCUPIED HOUSING UNITS				MOBILE HOMES		TOTAL HSG UNITS
	CAT 1	CAT 2	CAT 3	CAT 4	CAT 1	CAT 2	CAT 3	CAT 4	OCCUPIED	TOTAL	
1	0	0	0	0	0	0	0	0	0	0	1
2	16	27	57	11	4	6	14	4	7	8	191
3	2	5	656	0	1	2	132	0	13	13	428
4	2	2	38	2	1	1	11	0	2	2	65
5	9	4	7	23	2	1	2	6	0	0	558
6	27	49	80	78	8	14	16	20	4	4	33
7	8	7	7	61	1	1	1	8	0	0	520
8	4	3	7	41	1	1	1	8	0	3	134
9	0	0	34	7	0	0	4	1	7	11	258
10	0	0	0	1	0	0	0	0	15	26	526
11	17	6	7	191	1	0	0	7	54	69	741
12	0	0	0	8	0	0	0	0	18	22	745
13	4	3	1	18	0	0	0	0	21	23	1,074
14	5	4	3	10	0	0	0	1	40	42	412
15	0	0	0	4	0	0	0	0	1	5	109
16	0	0	0	1	0	0	0	0	18	31	478
17	0	0	0	0	0	0	0	0	15	16	180
18	3	1	3	8	0	0	0	1	34	42	843
19	9	3	6	24	5	2	2	9	3	22	444
20	4	3	4	9	2	1	2	4	5	21	285
21	7	9	7	34	2	2	2	8	4	12	389
22	0	0	0	0	0	0	0	0	3	3	231
23	7	8	10	25	0	0	1	2	9	26	772
<b>TOTALS</b>	<b>124</b>	<b>134</b>	<b>907</b>	<b>552</b>	<b>28</b>	<b>31</b>	<b>188</b>	<b>79</b>	<b>273</b>	<b>403</b>	<b>9,410</b>

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