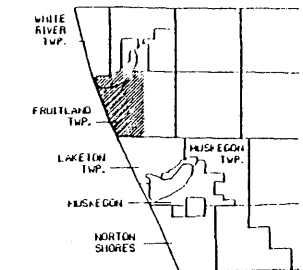


Fruitland Township

HIGH RISK EROSION AREAS & CRITICAL DUNE AREAS

MUSKEGON COUNTY

T11N,R17W



HIGH RISK EROSION AREAS

THE NUMBER REPRESENTS, IN FEET, THE 30 YEAR PROJECTED RECESSION DISTANCE.
 100' THE NUMBER REPRESENTS, IN FEET, THE 60 YEAR PROJECTED RECESSION DISTANCE.

HIGH RISK EROSION AREA (shading alongshore)

THESE AREAS ARE LEGALLY DEFINED BY THE SHORELAND PROTECTION AND MANAGEMENT ACT, 1978 P.A. 245, AS AMENDED, AS BEING GREAT LAKES SHORELAND AREAS DOCUMENTED TO REcede AN AVERAGE OF ONE FOOT OR MORE PER YEAR.

CRITICAL DUNE AREAS

BARRIER DUNES
 BARRIER DUNE FORMATIONS DESIGNATED PURSUANT TO 1976 P.A. 222

AREAS NOT INCLUDED IN DESIGNATED BARRIER DUNE FORMATIONS THAT ARE COMPOSED PRIMARILY OF DUNE SAND AND EXHIBIT SEVERAL DUNE LINE CHARACTERISTICS.

EXEMPLARY DUNE ASSOCIATED PLANT COMMUNITIES OUTSIDE DESIGNATED DUNE FORMATIONS, MICHIGAN NATURAL FEATURES INVENTORY REFERENCE CODE INDICATED.

SOURCE

STATE OF MICHIGAN ACT 245 RECESSION RATE MAPS & ATLAS OF CRITICAL DUNE AREAS

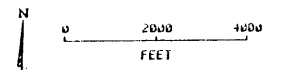
INFORMATION

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 LAND AND WATER MANAGEMENT DIVISION
 P.O. BOX 30028
 LANSING, MI 48203
 (517) 373 1950



GREAT LAKES INFORMATION SYSTEM
 MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 LAND AND WATER MANAGEMENT DIVISION

08-24-94
 oriented 08-19-93



May 3, 2017

Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	1	61-06-578-001-0001-00 Sylvan Beach	2.1	80	140
A1	1.1	61-06-578-001-0001-10	2.1	80	140
A1	1.11	61-06-578-001-0001-11	2.1	80	140
A1	1.12	61-06-578-001-0001-12	2.1	80	140
A1	1.13	61-06-578-001-0001-13	2.1	80	140
A1	1.14	61-06-578-001-0001-14	2.1	80	140
A1	1.15	61-06-578-001-0001-15	2.1	80	140
A1	1.16	61-06-578-001-0001-16	2.1	80	140
A1	1.17	61-06-578-001-0001-17	2.1	80	140
A1	1.18	61-06-578-001-0001-18	2.1	80	140
A1	1.19	61-06-578-001-0001-19	2.1	80	140
A1	2	61-06-578-002-0001-00	2.1	80	140
A1	3	61-06-578-003-0001-00	2.1	80	140
A1	3.1	61-06-578-001-0001-20	2.1	80	140
A1	3.11	61-06-578-001-0001-21	2.1	80	140
A1	3.12	61-06-578-001-0001-22	2.1	80	140
A1	3.13	61-06-578-001-0001-23	2.1	80	140
A1	3.14	61-06-578-001-0001-24	2.1	80	140
A1	4	61-06-578-003-0007-00	2.1	80	140

HREA* - Some parcels may be in multiple HREAs due to their large size.

30 yr PRD* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for readily moveable structures including those structures 3,500 square feet or less and built on a basement, crawlspace or pilings. Additional restrictions may apply per Administrative Rules 281.21-22.

60 yr PRD* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for non-readily moveable structures such as large structures and septic systems.

Designation runs with the land including subsequent splits. Absence of a property number does not guarantee the property is located outside of an HREA. Contact the Great Lakes Shorelands Unit, Water Resources Division, DEQ in Lansing or the local DEQ field office for assistance.

Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	5	61-06-578-003-0008-00	2.1	80	140
A1	5.1	61-06-578-001-0001-26	2.1	80	140
A1	5.11	61-06-578-001-0001-27	2.1	80	140
A1	5.12	61-06-578-001-0001-28	2.1	80	140
A1	5.13	61-06-578-001-0001-29	2.1	80	140
A1	5.14	61-06-578-001-0001-30	2.1	80	140
A1	5.15	61-06-578-001-0001-31	2.1	80	140
A1	5.16	61-06-578-001-0001-34	2.1	80	140
A1	5.17	61-06-578-001-0001-35	2.1	80	140
A1	5.18	61-06-578-001-0001-36	2.1	80	140
A1	5.19	61-06-578-001-0001-37	2.1	80	140
A1	5.191	61-06-578-001-0001-38	2.1	80	140
A1	5.192	61-06-578-001-0001-39	2.1	80	140
A1	5.193	61-06-578-001-0001-40	2.1	80	140
A1	5.194	61-06-578-001-0001-41	2.1	80	140
A1	5.195	61-06-578-001-0001-42	2.1	80	140
A1	5.196	61-06-578-001-0001-66	2.1	80	140
A1	5.2	61-06-578-001-0001-25	2.1	80	140
A1	6	61-06-011-400-0001-00	2.1	80	140
A1	7	61-06-011-400-0003-00	2.1	80	140

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Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	8	61-06-011-400-0005-00	2.1	80	140
A1	9	61-06-011-400-0006-00	2.1	80	140
A1	10	61-06-011-400-0007-00	2.1	80	140
A1	11	61-06-665-000-0001-00 Edwin Wilson's	2.1	80	140
A1	12	61-06-665-000-0002-00	2.1	80	140
A1	13	61-06-665-000-0002-10	2.1	80	140
A1	14	61-06-665-000-0003-00	2.1	80	140
A1	15	61-06-665-000-0004-00	2.1	80	140
A1	16	61-06-665-000-0005-00	2.1	80	140
A1	17	61-06-665-000-0006-00	2.1	80	140
A1	18	61-06-665-000-0007-00	2.1	80	140
A1	19	61-06-665-000-0008-00	2.1	80	140
A1	20	61-06-665-000-0009-00	2.1	80	140
A1	21	61-06-665-000-0010-00	2.1	80	140
A1	22	61-06-011-400-0008-00	2.1	80	140
A1	23	61-06-142-000-0001-20 Beechmont Woods	2.1	80	140
A1	24	61-06-142-000-0001-00	2.1	80	140
A1	25	61-06-142-000-0002-00	2.1	80	140

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Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	27	61-06-142-000-0004-00	2.1	80	140
A1	30	61-06-142-000-0007-00	2.1	80	140
A1	31	61-06-142-000-0008-00	2.1	80	140
A1	32	61-06-142-000-0009-00	2.1	80	140
A1	33	61-06-142-000-0010-00	2.1	80	140
A1	34	61-06-142-000-0011-00	2.1	80	140
A1	35	61-06-142-000-0012-00	2.1	80	140
A1	36	61-06-142-000-0013-00	2.1	80	140
A1	37	61-06-142-000-0014-00	2.1	80	140
A1	38	61-06-142-000-0015-00	2.1	80	140
A1	39	61-06-142-000-0015-10	2.1	80	140
A1	40	61-06-142-000-0015-30	2.1	80	140
A1	41	61-06-142-000-0016-00	2.1	80	140
A1	42	61-06-142-000-0017-00	2.1	80	140
A1	43	61-06-142-000-0017-10	2.1	80	140
A1	44	61-06-142-000-0018-00	2.1	80	140
A1	45	61-06-140-000-0001-00 Beechmont Heights	2.1	80	140
A1	47	61-06-140-000-0003-00	2.1	80	140
A1	48	61-06-140-000-0004-00	2.1	80	140

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Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	49	61-06-013-100-0017-00	2.1	80	140
A1	50	61-06-013-100-0021-00	2.1	80	140
A1	51	61-06-430-000-0001-00 Michilinda Beach	2.1	80	140
A1	51.1	61-06-430-000-0001-23	2.1	80	140
A1	51.11	61-06-430-000-0001-22	2.1	80	140
A1	51.12	61-06-430-000-0001-21	2.1	80	140
A1	51.13	61-06-430-000-0001-20	2.1	80	140
A1	51.14	61-06-430-000-0001-19	2.1	80	140
A1	51.15	61-06-430-000-0001-18	2.1	80	140
A1	51.16	61-06-430-000-0001-17	2.1	80	140
A1	51.17	61-06-430-000-0001-16	2.1	80	140
A1	51.18	61-06-430-000-0001-15	2.1	80	140
A1	51.19	61-06-430-000-0001-14	2.1	80	140
A1	51.191	61-06-430-000-0001-13	2.1	80	140
A1	51.192	61-06-430-000-0001-12	2.1	80	140
A1	51.193	61-06-430-000-0001-11	2.1	80	140
A1	51.194	61-06-430-000-0001-10	2.1	80	140
A1	51.195	61-06-430-000-0001-09	2.1	80	140
A1	51.196	61-06-430-000-0001-08	2.1	80	140

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Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	51.197	61-06-430-000-0001-07	2.1	80	140
A1	51.198	61-06-430-000-0001-06	2.1	80	140
A1	51.199	61-06-430-000-0001-05	2.1	80	140
A1	51.1991	61-06-430-000-0001-04	2.1	80	140
A1	51.1992	61-06-430-000-0001-03	2.1	80	140
A1	51.1993	61-06-430-000-0001-02	2.1	80	140
A1	51.1994	61-06-430-000-0001-01	2.1	80	140
A1	53	61-06-138-000-0001-00 John R. Austin's Add to Michilinda Beach	2.1	80	140
A1	54	61-06-138-000-0002-00	2.1	80	140
A1	55	61-06-138-000-0006-00	2.1	80	140
A1	56	61-06-138-000-0008-00	2.1	80	140
A1	57	61-06-013-300-0006-00	2.1	80	140
A1	58	61-06-013-300-0008-10	2.1	80	140
A1	58.1	61-06-013-300-0008-20	2.1	80	140
A1	58.2	61-06-013-300-0008-30	2.1	80	140
A1	59	61-06-013-300-0009-00	2.1	80	140
A1	60	61-06-013-300-0010-00	2.1	80	140
A1	61	61-06-013-200-0007-00 Duck Lake State Park	2.1	80	140

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Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	63	61-06-024-200-0001-00 Duck Lake State Park	2.1	80	140
A1	64	61-06-024-200-0001-10 Duck Lake State Park	2.1	80	140
A1	64.9	61-06-024-200-0003-10	2.1	80	140
A1	65	61-06-024-200-0003-00	2.1	80	140
A1	66	61-06-423-000-0000-00 Marcus Dunes Condos	2.1	80	140
A1	67	61-06-423-000-0007-00	2.1	80	140
A1	68	61-06-423-000-0006-00	2.1	80	140
A1	69	61-06-024-200-0005-00	2.1	80	140
A1	70	61-06-024-200-0006-00	2.1	80	140
A1	71	61-06-024-400-0001-00	2.1	80	140
A1	72	61-06-024-400-0003-00	2.1	80	140
A1	73	61-06-024-400-0004-00	2.1	80	140
A1	74	61-06-024-400-0006-00	2.1	80	140
A1	75	61-06-024-400-0007-10	2.1	80	140
A1	76	61-06-024-400-0008-00	2.1	80	140
A1	77	61-06-024-400-0012-00	2.1	80	140
A1	78	61-06-024-400-0014-00	2.1	80	140
A1	79	61-06-024-400-0015-00	2.1	80	140

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Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	80	61-06-024-400-0016-00	2.1	80	140
A1	81	61-06-025-200-0001-00	2.1	80	140
A1	82	61-06-025-200-0003-00	2.1	80	140
A1	83	61-06-025-200-0004-00	2.1	80	140
A1	84	61-06-025-200-0005-00	2.1	80	140
A1	85	61-06-025-200-0006-00	2.1	80	140
A1	87	61-06-025-200-0009-00	2.1	80	140
A1	88	61-06-025-200-0010-00	2.1	80	140
A1	88.9	61-06-025-200-0011-10	2.1	80	140
A1	89	61-06-025-200-0011-00	2.1	80	140
A1	90	61-06-025-200-0012-00	2.1	80	140
A1	91	61-06-025-200-0013-00	2.1	80	140
A1	93	61-06-025-200-0015-00	2.1	80	140
A1	94	61-06-130-100-0004-00	2.1	80	140
A1	95	61-06-130-100-0005-00	2.1	80	140
A1	96	61-06-130-100-0006-00	2.1	80	140
A1	97	61-06-130-100-0007-00	2.1	80	140
A1	98	61-06-130-100-0008-00	2.1	80	140
A1	99	61-06-130-100-0009-00	2.1	80	140
A1	100	61-06-130-100-0010-00	2.1	80	140

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A1	101	61-06-130-100-0011-00	2.1	80	140
A1	102	61-06-130-100-0012-00	2.1	80	140
A1	103	61-06-130-100-0013-00	2.1	80	140
A1	104	61-06-130-300-0001-00	2.1	80	140
A1	105	61-06-130-300-0003-00	2.1	80	140
A1	106	61-06-130-300-0004-00	2.1	80	140
A1	107	61-06-130-300-0005-00	2.1	80	140
A1	108	61-06-130-300-0006-00	2.1	80	140
A1	109	61-06-130-300-0008-00	2.1	80	140
A1	110	61-06-130-300-0009-00	2.1	80	140
A1	111	61-06-130-300-0011-00	2.1	80	140
A1	112	61-06-130-300-0012-00	2.1	80	140
A1	113	61-06-130-300-0013-00	2.1	80	140
A1	114	61-06-130-300-0014-00	2.1	80	140
A1	115	61-06-130-300-0016-00	2.1	80	140
A1	116	61-06-130-300-0017-00	2.1	80	140
A1	117	61-06-130-300-0019-00	2.1	80	140
A1	118	61-06-130-300-0021-00	2.1	80	140
A1	119	61-06-130-300-0023-00	2.1	80	140
A1	120	61-06-130-300-0025-00	2.1	80	140

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Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	121	61-06-130-300-0026-00	2.1	80	140
A1	122	61-06-130-300-0028-00	2.1	80	140
A1	123	61-06-130-300-0029-00	2.1	80	140
A1	124	61-06-130-300-0030-00	2.1	80	140
A1	125	61-06-130-300-0032-00	2.1	80	140
A1	126	61-06-130-300-0034-00	2.1	80	140
A1	127	61-06-130-300-0036-00	2.1	80	140
A1	128	61-06-130-300-0038-00	2.1	80	140
A1	129	61-06-131-100-0001-00	2.1	80	140
A1	130	61-06-131-100-0003-00	2.1	80	140
A1	131	61-06-131-100-0004-00	2.1	80	140
A1	132	61-06-131-100-0006-00	2.1	80	140
A1	133	61-06-131-100-0008-00	2.1	80	140
A1	134	61-06-131-100-0009-00	2.1	80	140
A1	135	61-06-131-100-0011-00	2.1	80	140
A2	136	61-06-131-100-0013-00	1.7	65	115
A2	137	61-06-131-100-0014-00	1.7	65	115
A2	138	61-06-131-100-0015-00	1.7	65	115
A2	139	61-06-131-100-0016-00	1.7	65	115
A2	140	61-06-131-100-0017-00	1.7	65	115

HREA* - Some parcels may be in multiple HREAs due to their large size.

30 yr PRD* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for readily moveable structures including those structures 3,500 square feet or less and built on a basement, crawlspace or pilings. Additional restrictions may apply per Administrative Rules 281.21-22.

60 yr PRD* is the Projected Recession Distance (feet) landward from the Erosion Hazard Line for non-readily moveable structures such as large structures and septic systems.

Designation runs with the land including subsequent splits. Absence of a property number does not guarantee the property is located outside of an HREA. Contact the Great Lakes Shorelands Unit, Water Resources Division, DEQ in Lansing or the local DEQ field office for assistance.

Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A2	141	61-06-131-100-0018-00	1.7	65	115
A2	142	61-06-131-100-0019-00	1.7	65	115
A2	143	61-06-131-100-0019-10	1.7	65	115
A2	144	61-06-131-100-0021-00	1.7	65	115
A2	145	61-06-131-100-0022-00	1.7	65	115
A2	146	61-06-131-100-0023-00	1.7	65	115
A2	147	61-06-131-100-0024-00	1.7	65	115
A2	148	61-06-131-100-0025-00	1.7	65	115
A2	149	61-06-131-100-0026-00	1.7	65	115
A2	150	61-06-131-100-0027-00	1.7	65	115
A2	151	61-06-131-100-0028-00	1.7	65	115
A2	152	61-06-131-100-0029-00	1.7	65	115
A2	153	61-06-131-100-0030-00	1.7	65	115
A2	154	61-06-131-100-0031-00	1.7	65	115
A2	155	61-06-131-400-0001-00	1.7	65	115
A2	156	61-06-131-400-0004-00	1.7	65	115
A2	157	61-06-131-400-0005-00	1.7	65	115
A2	158	61-06-131-400-0006-00	1.7	65	115
A2	159	61-06-131-400-0008-00	1.7	65	115
A2	161	61-06-131-400-0010-00	1.7	65	115

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Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A2	162	61-06-131-400-0011-00	1.7	65	115
A2	163	61-06-131-400-0014-00	1.7	65	115
A2	164	61-06-131-400-0015-00	1.7	65	115
A2	165	61-06-131-400-0016-00	1.7	65	115
A2	166	61-06-131-400-0017-00	1.7	65	115
A2	167	61-06-131-400-0019-00	1.7	65	115
A2	168	61-06-131-400-0020-00	1.7	65	115
A2	169	61-06-131-400-0021-20	1.7	65	115
A2	169.1	61-06-131-400-0021-00	1.7	65	115
A2	169.2	61-06-131-400-0021-10	1.7	65	115
A2	170	61-06-131-400-0023-00	1.7	65	115
A2	171	61-06-131-400-0024-00	1.7	65	115
A2	172	61-06-131-400-0025-00	1.7	65	115
A2	173	61-06-131-400-0027-00	1.7	65	115
A2	174	61-06-160-000-0001-00 C&K Subdivision	1.7	65	115
A2	175	61-06-160-000-0002-00	1.7	65	115
A2	176	61-06-160-000-0003-00	1.7	65	115
A2	177	61-06-160-000-0004-00	1.7	65	115
A2	177.1	61-06-160-000-0004-10	1.7	65	115

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Parcels in High Risk Erosion Areas of Fruitland Township, Muskegon County

HREAs identified North to South Date of Designation: December 20, 1993

HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A2	178	61-06-131-400-0028-00	1.7	65	115
A2	179	61-06-131-400-0029-00	1.7	65	115
A2	180	61-06-131-400-0030-00	1.7	65	115

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