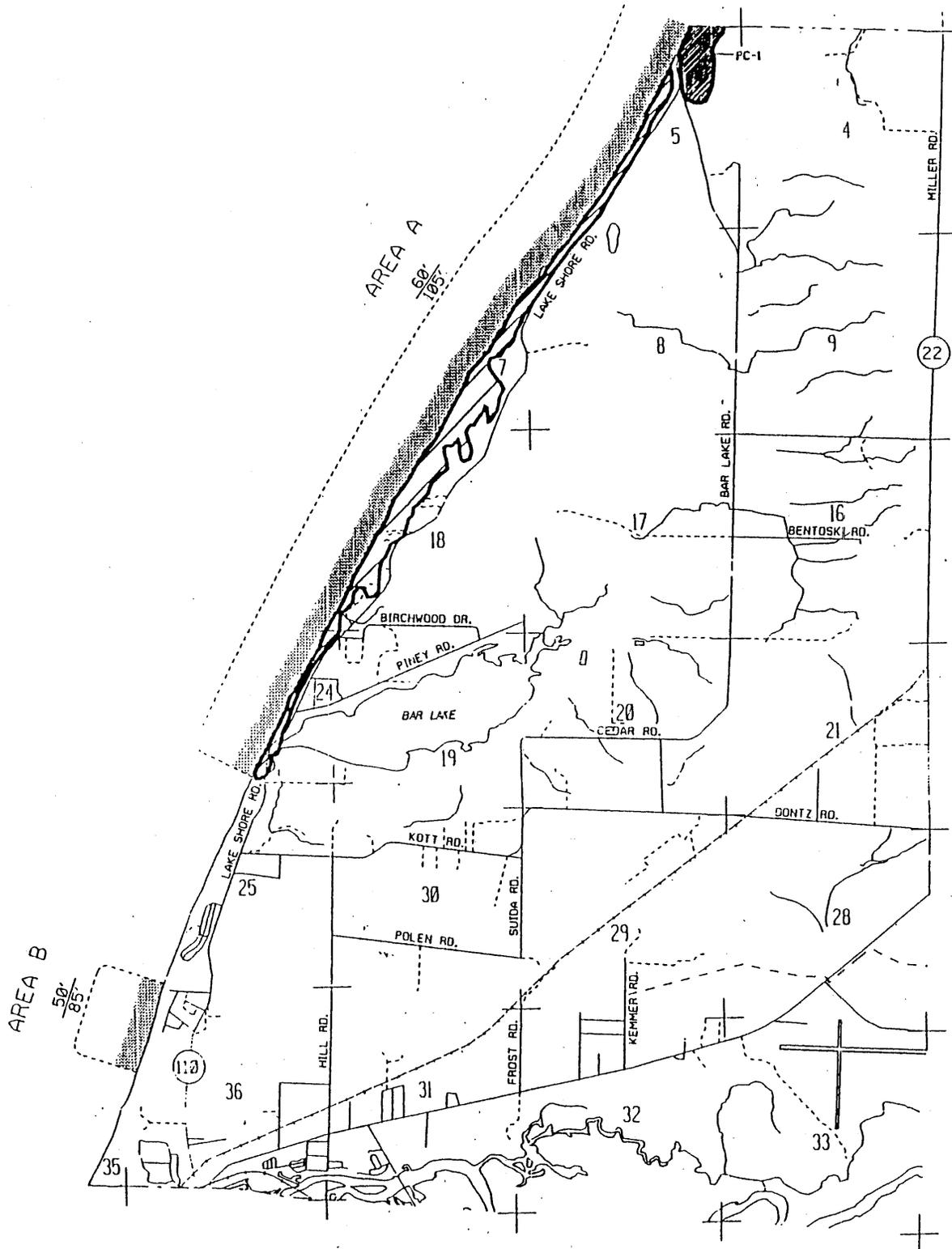
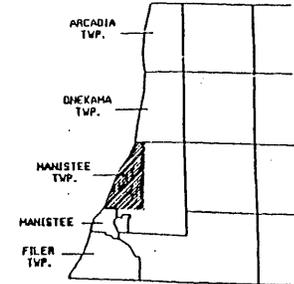


MANISTEE TOWNSHIP

HIGH RISK EROSION AREAS & CRITICAL DUNE AREAS

MANISTEE COUNTY



HIGH RISK EROSION AREAS

THE NUMBER REPRESENTS, IN FEET, THE 30 YEAR PROJECTED RECESSION DISTANCE.
 60' / 85' THE NUMBER REPRESENTS, IN FEET, THE 60 YEAR PROJECTED RECESSION DISTANCE.

□ HIGH RISK EROSION AREA (shading along shore)

THESE AREAS ARE LEGALLY DEFINED BY THE SHORELANDS PROTECTION AND MANAGEMENT ACT, 1978 P.A. 215, 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-LIKE 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

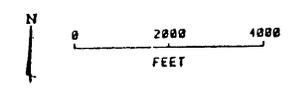
INFORMATION

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
 LAND AND WATER MANAGEMENT DIVISION
 P.O. BOX 32828
 LANSING, MI 48299
 (517) 373-1758



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

88-83-93



Parcels in High Risk Erosion Areas of Manistee Township, Manistee 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	51-07-105-006-00	1.5	60	105
A1	2	51-07-105-007-00	1.5	60	105
A1	3	51-07-105-002-01	1.5	60	105
A1	4	51-07-105-008-00	1.5	60	105
A1	5	51-07-105-009-00	1.5	60	105
A1	6	51-07-105-009-10	1.5	60	105
A1	7	51-07-105-013-00	1.5	60	105
A1	8	51-07-105-012-00	1.5	60	105
A1	9	51-07-105-011-00	1.5	60	105
A1	10	51-07-105-011-01	1.5	60	105
A1	11	51-07-870-000-00 Woodland Acre Condominiums	1.5	60	105
A1	12	51-07-105-016-00	1.5	60	105
A1	13	51-07-105-018-00	1.5	60	105
A1	14	51-07-105-017-00	1.5	60	105
A1	15	51-07-105-022-00	1.5	60	105
A1	16	51-07-105-022-10	1.5	60	105
A1	17	51-07-105-024-00	1.5	60	105
A1	18	51-07-105-025-00	1.5	60	105

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Parcels in High Risk Erosion Areas of Manistee Township, Manistee 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	19	51-07-105-021-00	1.5	60	105
A1	19.1	51-07-105-026-10	1.5	60	105
A1	20	51-07-105-027-00	1.5	60	105
A1	21	51-07-105-028-10	1.5	60	105
A1	22	51-07-105-028-20	1.5	60	105
A1	23	51-07-105-032-00	1.5	60	105
A1	24	51-07-105-032-10	1.5	60	105
A1	25	51-07-105-030-00	1.5	60	105
A1	26	51-07-105-031-00	1.5	60	105
A1	27	51-07-105-031-10	1.5	60	105
A1	28	51-07-105-029-00	1.5	60	105
A1	29	51-07-105-033-00	1.5	60	105
A1	30	51-07-105-034-00	1.5	60	105
A1	31	51-07-105-047-00	1.5	60	105
A1	32	51-07-105-048-00	1.5	60	105
A1	33	51-07-105-049-00	1.5	60	105
A1	34	51-07-105-049-10	1.5	60	105
A1	35	51-07-105-049-50	1.5	60	105
A1	36	51-07-105-050-00	1.5	60	105
A1	37	51-07-105-051-00	1.5	60	105

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Parcels in High Risk Erosion Areas of Manistee Township, Manistee 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	38	51-07-105-052-00	1.5	60	105
A1	39	51-07-105-053-01	1.5	60	105
A1	40	51-07-105-054-00	1.5	60	105
A1	41	51-07-105-055-00	1.5	60	105
A1	42	51-07-105-056-00	1.5	60	105
A1	43	51-07-108-005-00	1.5	60	105
A1	44	51-07-108-006-00	1.5	60	105
A1	45	51-07-108-007-00	1.5	60	105
A1	46	51-07-108-012-00	1.5	60	105
A1	47	51-07-108-011-00	1.5	60	105
A1	48	51-07-108-008-00	1.5	60	105
A1	49	51-07-108-013-10	1.5	60	105
A1	50	51-07-108-010-00	1.5	60	105
A1	51	51-07-108-013-00	1.5	60	105
A1	52	51-07-460-001-00	1.5	60	105
A1	52.9	51-07-460-002-00	1.5	60	105
A1	53	51-07-460-003-00	1.5	60	105
A1	53.1	51-07-460-003-10	1.5	60	105
A1	54	51-07-460-006-00	1.5	60	105
A1	55	51-07-460-007-00	1.5	60	105

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Parcels in High Risk Erosion Areas of Manistee Township, Manistee 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	56	51-07-460-008-00	1.5	60	105
A1	57	51-07-460-009-00	1.5	60	105
A1	58	51-07-460-011-00	1.5	60	105
A1	59	51-07-460-014-00	1.5	60	105
A1	60	51-07-700-001-00	1.5	60	105
A1	61	51-07-118-007-00	1.5	60	105
A1	62	51-07-118-008-20	1.5	60	105
A1	63	51-07-118-008-00	1.5	60	105
A1	64	51-07-118-006-00	1.5	60	105
A1	64.9	51-07-118-005-05	1.5	60	105
A1	65	51-07-118-005-00	1.5	60	105
A1	65.1	51-07-118-005-25	1.5	60	105
A1	66	51-07-118-012-00	1.5	60	105
A1	67	51-07-560-001-00	1.5	60	105
A1	68	51-07-560-002-00	1.5	60	105
A1	69	51-07-560-002-50	1.5	60	105
A1	70	51-07-560-003-00	1.5	60	105
A1	71	51-07-560-003-50	1.5	60	105
A1	72	51-07-560-004-00	1.5	60	105
A1	73	51-07-560-004-50	1.5	60	105

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Parcels in High Risk Erosion Areas of Manistee Township, Manistee 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	74	51-07-560-005-50	1.5	60	105
A1	75	51-07-560-005-00	1.5	60	105
A1	76	51-07-560-006-00	1.5	60	105
A1	77	51-07-560-007-00	1.5	60	105
A1	77.1	51-07-560-008-00	1.5	60	105
A1	78	51-07-560-009-00	1.5	60	105
A1	79	51-07-560-010-00	1.5	60	105
A1	80	51-07-118-011-00	1.5	60	105
A1	81	51-07-118-014-00	1.5	60	105
A1	82	51-07-118-013-20	1.5	60	105
A1	82.9	51-07-118-013-25	1.5	60	105
A1	83	51-07-118-013-05	1.5	60	105
A1	84	51-07-118-013-00	1.5	60	105
A1	85	51-07-118-013-30	1.5	60	105
A1	85.9	51-07-324-006-00	1.5	60	105
A1	86	51-07-324-017-00	1.5	60	105
A1	87	51-07-324-016-00	1.5	60	105
A1	88	51-07-324-015-00	1.5	60	105
A1	89	51-07-324-014-00	1.5	60	105
A1	90	51-07-324-013-00	1.5	60	105

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Parcels in High Risk Erosion Areas of Manistee Township, Manistee 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	91	51-07-324-012-00	1.5	60	105
A1	92	51-07-324-011-00	1.5	60	105
A1	93	51-07-324-010-00	1.5	60	105
A1	94	51-07-324-009-00	1.5	60	105
A1	95	51-07-324-009-10	1.5	60	105
A1	96	51-07-324-008-00	1.5	60	105
A1	97	51-07-324-007-00	1.5	60	105
A1	98	51-07-324-005-00	1.5	60	105
A1	99	51-07-324-004-00	1.5	60	105
A1	100	51-07-324-003-00	1.5	60	105
A1	101	51-07-324-002-00	1.5	60	105
A1	102	51-07-324-001-00	1.5	60	105
A1	103	51-07-640-027-00	1.5	60	105
A1	104	51-07-640-025-00	1.5	60	105
A1	105	51-07-640-022-00	1.5	60	105
A1	106	51-07-640-020-00	1.5	60	105
A1	107	51-07-640-019-00	1.5	60	105
A1	108	51-07-640-018-00	1.5	60	105
A1	109	51-07-640-017-00	1.5	60	105
A1	110	51-07-640-016-00	1.5	60	105

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Parcels in High Risk Erosion Areas of Manistee Township, Manistee County

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HREA*	Sequence No.	Parcel Identification Number	Rate (feet/year)	30 yr PRD*	60 yr PRD*
A1	111	51-07-640-015-00	1.5	60	105
A1	112	51-07-640-012-00	1.5	60	105
A1	113	51-07-640-011-00	1.5	60	105
A1	114	51-07-640-010-00	1.5	60	105
A1	115	51-07-640-008-00	1.5	60	105
A1	116	51-07-640-006-00	1.5	60	105
A1	117	51-07-640-003-00	1.5	60	105
A1	118	51-07-640-001-00	1.5	60	105
A1	119	51-07-324-028-00	1.5	60	105
A1	120	51-07-324-030-00	1.5	60	105
A1	121	51-07-324-031-00	1.5	60	105
A1	122	51-07-324-033-00	1.5	60	105
A1	123	51-07-324-032-00	1.5	60	105
A1	124	51-07-324-034-00	1.5	60	105
A1	125	51-07-324-035-00	1.5	60	105
A1	126	51-07-324-038-00	1.5	60	105
A1	127	51-07-324-036-00	1.5	60	105
B1	128	51-07-336-050-00	1.2	50	85
B1	128.2	51-07-600-010-00	1.2	50	85
B1	130	51-07-336-048-00	1.2	50	85

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B1	131	51-07-336-047-00	1.2	50	85
B1	132	51-07-336-046-00	1.2	50	85
B1	133	51-07-480-001-00	1.2	50	85
B1	134	51-07-480-002-01	1.2	50	85
B1	134.1	51-07-480-010-01	1.2	50	85
B1	135	51-07-480-003-00	1.2	50	85
B1	136	51-07-480-005-00	1.2	50	85
B1	136.9	51-07-480-006-00	1.2	50	85
B1	137	51-07-336-056-10	1.2	50	85
B1	138	51-07-336-056-15	1.2	50	85
B1	139	51-07-336-057-00	1.2	50	85
B1	140	51-07-336-058-00	1.2	50	85
B1	141	51-07-336-058-10	1.2	50	85
B1	142	51-07-336-059-00	1.2	50	85
B1	143	51-07-336-059-10	1.2	50	85
B1	144	51-07-336-060-10	1.2	50	85
B1	145	51-07-336-060-20	1.2	50	85
B1	146	51-07-336-060-30	1.2	50	85

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