

## Massachusetts CAPS Community Model Parameters – February 2021

Source: <https://umasscaps.org>

This table gives the community integrity models. The IEI for each community is a weighted combination of metrics selected by expert teams. Weights shown here are the percent contribution of each metric to each community (rounded to whole percent), thus rows sum to 100.

	Development & roads					Pollution				Biotic alterations				Hydrologic alterations			Resiliency			Coastal					
	habloss	whabloss	traffic	mowplow	edges	salt	sediment	nitrogen	phosphorus	cats	edgepred	badplants	worms	hydroalt	imperv	damint	sim	connect	aqconnect	ditches	jetties	beachpeds	beach ORVs	boats	TR
Forest	10	0	10	0	5	0	0	0	0	0	5	10	10	10	0	0	15	25	0	0	0	0	0	0	0
Shrubland	20	0	10	0	0	0	0	0	0	0	5	10	10	5	0	0	15	25	0	0	0	0	0	0	0
Grassland	20	0	10	0	0	0	0	0	0	0	5	10	10	5	0	0	15	25	0	0	0	0	0	0	0
Forested wetland	9	5	9	5	5	5	5	0	0	0	0	5	9	5	0	0	9	19	2	0	0	0	0	0	9
Estuarine forested wetland	9	5	9	5	5	5	5	0	0	0	0	5	9	5	0	0	9	19	2	0	0	0	0	0	9
Shrub swamp	11	11	11	5	0	5	5	0	0	0	0	5	0	0	5	0	11	19	3	0	0	0	0	0	11
Estuarine shrub swamp	11	11	11	5	0	5	5	0	0	0	0	5	0	0	5	0	11	19	3	0	0	0	0	0	11
Marsh	10	15	10	5	0	5	5	0	0	0	0	5	0	0	5	0	10	15	5	0	0	0	0	0	10
Vernal pool	13	0	13	6	0	13	6	0	0	0	0	6	0	0	6	0	13	25	0	0	0	0	0	0	0
Lake	11	22	6	6	0	6	6	0	0	0	0	6	0	0	6	0	11	11	11	0	0	0	0	0	0
Pond	11	21	11	5	0	5	5	0	0	0	0	5	0	0	5	0	11	21	0	0	0	0	0	0	0
Stream (1st)	9	5	5	5	5	0	5	9	2	3	0	5	0	0	9	5	0	9	18	0	0	0	0	0	9
Stream (2nd)	9	5	5	5	5	0	5	9	2	3	0	5	0	0	9	5	0	9	18	0	0	0	0	0	9
Stream (3rd)	9	9	4	4	4	0	4	9	1	3	0	4	0	0	9	4	0	4	22	0	0	0	0	0	9
Stream (4th)	9	9	4	4	0	0	4	9	1	3	0	4	0	0	9	9	0	4	22	0	0	0	0	0	9
Stream (5th)	8	12	4	4	0	0	4	9	1	3	0	4	0	0	8	8	0	4	21	0	0	0	0	0	8
Estuary (1st)	7	7	3	2	3	4	6	6	7	0	2	1	2	0	7	5	5	10	9	2	3	1	0	3	6
Estuary (2nd)	6	6	3	2	4	4	6	6	7	0	1	1	2	0	7	4	5	10	9	2	3	1	0	3	7
Estuary (3rd)	5	6	3	1	3	3	5	6	7	0	1	1	2	0	7	4	6	10	13	2	3	1	0	4	7
Estuary (4th)	6	5	3	1	3	3	5	6	7	0	1	1	2	0	6	5	5	11	14	2	3	0	0	5	7
Estuary (5th)	5	5	3	2	2	3	5	6	7	0	1	1	1	0	6	6	7	12	14	2	3	0	0	6	6
Coastal dune	9	1	5	0	3	1	1	0	0	0	5	3	4	0	4	0	13	14	0	1	13	11	12	1	0
Beach or mudflat	7	2	4	0	3	0	1	0	0	0	4	6	2	0	3	0	9	11	0	0	14	12	15	7	1
Salt marsh	7	4	3	2	3	2	4	0	0	0	3	3	6	0	5	5	8	11	0	9	7	2	1	5	11
Salt pond or bay	9	8	2	0	4	3	7	0	0	0	0	1	0	0	6	5	13	13	0	3	5	0	1	15	6