ISU Monarch Data Summary for NCIG

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Table 1 provides total number of monarchs sighted anywhere around site during entire time at site, number of monarchs sighted during a survey period, number of milkweed ramets (an upper limit of 20 per round per site, although the same milkweed may have been surveyed in different rounds), number of monarch eggs counted on milkweed plants (if no milkweed present, no monarch eggs present, number of monarch larvae (caterpillars) counted on milkweed plants (if no milkweed present, no larvae present).
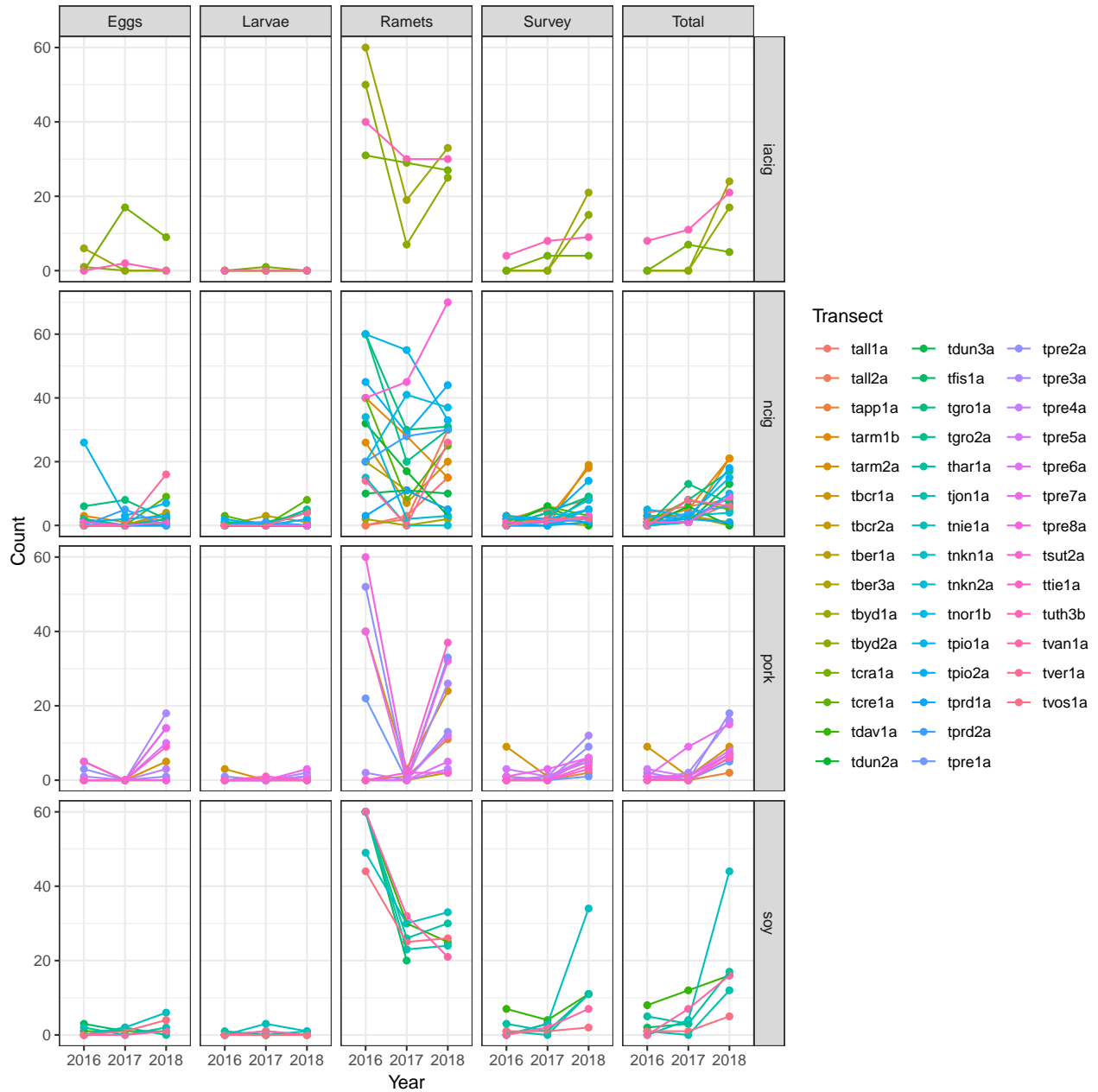
Figure 1: This plots the total number of monarchs sighted anywhere around the site during entire time at site. The colors correspond to the different trasects.

Table 1: Monarch adults (total and during survey), milkweed ramets, monarch eggs on milkweed, and monarch larvae on milkweed. Note ramets, eggs, and larvae were collected differently for 2016.

Year	Monarch	tall1a	tall2a	tapp1a	tarm1b	tarm2a	tbcr1a	tbcr2a	tber1a	tber3a	tbyd1a	tbyd2a	tcra1a	tcre1a	tdav1a	tdun2a	tdun3a	tfis1a	tgro1a	tgro2a	thar1a	tjon1a	ttie1a	tnkn1a	tnkn2a	tnor1b	tpio1a	tpio2a	tprd1a	tprd2a	tpre1a	tpre2a	tpre3a	tpre4a	tpre5a	tpre6a	tpre7a	tpre8a	tsut2a	ttiela	tuthb3b	tvanla	tverla	tvosla
2016	Total	4	2	1	2	0	0	0	3	3	0	0	0	1	8	0	0	2	0	0	5	5	0	0	1	0	5	3	3	0	0	2	0	0	3	1	1	1	1	0	8	0	0	1
2017	Total	6	1	0	5	0	1	0	3	3	0	0	7	8	12	6	1	3	13	8	3	0	4	3	1	1	3	2	2	4	0	0	2	1	1	0	9	1	1	0	11	7	8	1
2018	Total	8	7	2	21	0	9	6	1	0	24	17	5	5	16	0	13	-	7	17	17	12	44	0	9	10	15	18	1	6	5	18	16	7	8	7	15	7	9	6	21	16	6	5
2016	Survey	2	2	1	2	0	0	0	3	3	0	0	0	1	7	0	0	0	0	0	3	1	0	0	0	0	3	2	0	0	0	0	0	0	3	0	1	0	1	0	4	2	0	0
2017	Survey	5	1	0	2	0	2	0	0	0	0	0	4	6	4	6	0	3	13	4	1	0	3	0	0	0	2	2	2	1	0	9	1	1	1	0	3	0	0	0	8	2	2	1
2018	Survey	8	5	2	18	19	5	6	1	0	21	15	4	3	11	0	9	3	2	9	11	11	34	0	8	5	5	14	1	2	1	9	12	5	6	6	6	4	3	3	9	7	2	2
2016	Ramets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Ramets	3	2	1	28	7	3	0	0	0	19	7	29	8	30	17	11	20	30	20	26	23	0	0	2	41	55	29	11	0	0	9	0	0	0	0	0	2	45	2	30	32	0	25
2018	Ramets	15	30	11	15	20	11	0	5	2	33	25	27	25	25	3	10	-	31	30	30	24	33	0	3	37	33	44	5	30	33	13	26	3	12	5	32	0	70	37	30	21	26	26
2016	Butterfly Ramets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Butterfly Ramets	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	Butterfly Ramets	0	0	0	0	3	0	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	8	10	0	0	0	3	0	0	0	0	0	0	10	4	0	0	0	0
2016	Common Ramets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Common Ramets	3	2	1	28	7	0	0	11	0	14	7	29	8	30	16	11	20	30	20	26	23	0	0	2	30	30	27	11	27	0	0	0	0	0	0	0	2	15	2	30	30	0	24
2018	Common Ramets	15	30	11	15	17	11	0	5	2	30	24	20	21	25	3	8	-	30	30	30	24	30	0	3	30	25	31	5	30	30	11	23	3	9	5	30	2	30	30	30	21	26	25
2016	Swamp Ramets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Swamp Ramets	0	0	0	0	3	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	12	2	0	1	0	3	0	0	0	0	0	0	30	0	0	2	0	1
2018	Swamp Ramets	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	2	-	0	1	0	0	0	0	0	7	0	3	0	3	3	3	3	0	3	3	2	0	30	3	0	0	0	1
2016	Eggs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Eggs	1	3	0	0	0	0	0	0	0	0	0	17	0	1	0	0	1	8	2	2	2	0	0	0	0	3	2	5	0	0	1	0	0	0	0	9	0	1	0	2	0	0	1
2018	Eggs	1	3	0	0	1	5	0	4	0	0	0	9	0	1	0	0	-	2	2	2	2	6	0	0	1	7	3	0	0	14	0	18	3	10	0	14	0	1	9	0	1	16	4
2016	Butterfly Eggs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Butterfly Eggs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	Butterfly Eggs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	Common Eggs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Common Eggs	0	0	0	1	0	3	0	0	0	0	0	17	0	1	0	0	1	8	0	2	2	0	0	0	0	2	2	5	2	0	2	0	0	0	0	0	0	0	1	2	0	0	1
2018	Common Eggs	1	3	0	0	1	5	0	4	0	0	0	9	0	1	0	0	-	2	2	2	2	6	0	0	1	3	3	3	3	8	1	13	3	2	2	14	0	1	9	0	1	16	4
2016	Swamp Eggs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Swamp Eggs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	Swamp Eggs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	4	0	0	0	6	0	5	0	0	8	0	0	0	3	0	0	0	0
2016	Larvae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Larvae	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	4	5	0	0	0	0	0	0	1	0	1	1	0	1	2	0	1	1	3	0	1	0	0	1	0	0
2018	Larvae	0	0	0	0	0	0	0	1	0	0	0	0	8	0	0	0	-	0	0	0	0	1	0	0	0	1	2	0	2	1	0	2	0	0	1	3	0	0	0	0	0	4	0
2016	Butterfly Larvae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Butterfly Larvae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	Butterfly Larvae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	Common Larvae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Common Larvae	0	0	0	0	0	3	0	0	3	0	0	0	0	1	0	0	0	1	5	0	0	3	0	0	0	1	0	1	1	0	1	0	0	1	1	3	0	0	0	0	1	0	0
2018	Common Larvae	0	0	0	0	0	0	0	1	0	0	0	0	8	0	0	0	-	0	0	0	0	1	0	0	0	1	2	0	2	1	0	2	0	0	1	3	0	0	0	0	0	4	0
2016	Swamp Larvae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	Swamp Larvae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018	Swamp Larvae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0