

STEM Starter Academy Year 6 Report Appendices

Appendix A: Glossary of Terms

First-time student	Student that is new to an institution and has never enrolled previously in an institution of higher education.
Full-time student	Student enrolled 12 credit hours or more in the Fall term.
HEIRS ID	ID assigned by DHE used to track student enrollment, transfer, and completion. This is not the same as the institutional ID.
Part- time student	Student enrolled in 1–11 credit hours during the Fall term.
Positive outcome	Completed a degree/certificate, transferred to a 4 year institution, joined the STEM workforce, or was “retained” (i.e. still enrolled in the community college). Students who transferred to another 2 year institution are excluded from this metric.
Quasi-experimental	Please refer to Appendix B (Quantitative Methods)
Similar non-participant	Student that did not participate in SSA activities but has similar demographics as SSA participants who joined SSA in the fall or summer as a first-time, full-time freshman (gender, race/ethnicity, STEM status at time of admission, and college-math-ready status at time of admission).
SSA Aid	SSA-subsidized financial support (e.g., grant, stipend, tuition or fee waiver, etc.)
SSA Extra Support	SSA-related extra or targeted supports (e.g., academic tutoring, peer mentoring, etc.)
SSA Counseling	SSA-related targeted STEM pathway and/or STEM career counseling
SSA Group 1–3 participant	Community college student who participates in STEM Starter Academy grant-funded programs/events/activities (i.e., participant who has an ID number assigned by their college).
SSA Group 4 participant	Individual who is not currently enrolled at a community college and participates in STEM Starter Academy grant-funded programs/events/activities (i.e., participant who does not have an ID number assigned by his/her college). In some cases, students with college IDs may be considered Group 4 participants, if their engagement with SSA-funded activities is limited. For example, current students might have contact with SSA only during a classroom recruitment visit or an email blast.
SSA Years	Year 1 includes Spring and Summer 2014; Year 2 includes Fall 2014 and Spring and Summer 2015; Year 3 includes Fall 2015 and Spring and Summer 2016; Year 4 includes Fall 2016 and Spring and Summer 2017; Year 5 includes Fall 2017 and Spring and Summer 2018; and Year 6 includes Fall 2018 and Spring and Summer 2019. Year 7 began with Fall 2019 (and this is the latest available data) and will run through Summer 2020.
Statistical Analysis	Systematic analysis of data used to make inferences and identify trends and impacts. To be distinguished from descriptive analysis, which summarizes data.
Statistical Significance	A result has statistical significance when it is very unlikely to have occurred by chance.
STEM	DHE identified 12 general fields of study as STEM areas and their related CIP codes. These areas include: agriculture, architecture, biological and biomedical sciences, computer and information sciences, engineering, health professions, mathematics, mechanical and repair technologies, military technologies/technicians, physical sciences, precision production, and science technologies/technicians. Each year (starting in Year 4) UMDI and DHE work with SSA colleges to refine the definition to capture all programs that fall under these 12 general fields, regardless of CIP codes.

STEM at entry status	For SSA students, being “STEM at entry” means the student had a declared STEM major, based on SSA or HEIRS data sources, at the time they first participated in SSA; for non-SSA students, “STEM at entry” means the student had declared a STEM major, based on HEIRS data, at the time they first enrolled at the community college.
STEM degree/certificate	Student earned a degree or certificate in a STEM field from their home institution within the specified time period (1, 2, 3, or 4 years from initial SSA participation (for SSA students) or initial enrollment to the college (for non-SSA students))
STEM students	This includes students that either (1) enrolled in a STEM program when they were admitted into an institution or (2) students who were subsequently indicated to be in a STEM major in HEIRS or the SSA data collection.
STEM workforce	Student reported joining the workforce in a STEM field, based on their exit survey, within the specified time period (1, 2, 3, or 4 years from initial SSA participation (for SSA students) or initial enrollment to the college (for non-SSA students)).

Appendix B: Quantitative Methods

Differences in treatment and comparison group students were assessed using a quasi-experimental matched comparison group design. Multi-level mixed-effect logistic regression analyses were conducted to assess the impact of participation on two outcomes—any positive educational outcome (i.e., graduation, retention, transfer to 4-year, joining the STEM workforce), and STEM graduation/program completion status—where students were nested within sites. Carefully selected covariates were included in each analysis to minimize the potential for bias. These covariates included gender, race/ethnicity, STEM status at time of admission, and college math ready status at time of admission. This design enabled strong inferences about the performance of students who participated in the intervention as compared to the expected level of student performance in the absence of the intervention.

Students were not randomly assigned to the intervention. Each site applied their own criteria to assign students to treatment. Therefore, it is likely that there were pre-intervention differences between participating students and non-participating students. These differences could have represented a significant threat (i.e., selection bias) to the validity of the study’s findings. To reduce these differences substantially, propensity score weighting procedures were used, thereby improving the validity of the estimates of program impacts.

In total, 287 models—comparing SSA participants to non-participants—were analyzed. For all of the models assessed in this study, propensity score weighting results were within the parameters specified in the U.S. Department of Education’s What Works Clearinghouse “Standards Handbook Version 4.1” (2020). To analyze program impacts data were pooled across years, reflecting an assumption that the effects of participation in SSA were similar across years of the study.

Sample selection

Effects of participation were assessed one, two, three, four, and five years after initial participation. Depending on the time period and outcome indicator, different groups of students were included in the analyses. Specifically:

1. **Positive outcomes** (i.e., graduation, retained at same institution, transferred to a 4-year institution, joined STEM workforce) were assessed one, two, three, four, and five years after initial entry into SSA. Outcomes for students who joined SSA in the summer or fall of 2014, 2015, 2016, 2017, and 2018 as first-time, degree-seeking freshman (and that were enrolled full- or part-time) were compared to similar students who did not participate in the intervention. Students were included in analyses at different time periods if sufficient time had passed since their first enrollment; for example, only students who joined SSA as first-time freshmen in the summer or fall of 2014 were included in the sample used to determine outcomes five years after joining SSA.
2. **STEM Degree/Certificate** status was assessed two, three, four, and five years after initial entry. Outcomes for students who joined SSA in the summer or fall of 2014, 2015, 2016, 2017, and 2018 as first-time, degree-seeking freshman (who were also enrolled full-time) were compared to similar students who did not participate in the intervention. Students were included in analyses at different time periods if sufficient time had passed since their first enrollment; for

example, only students who joined SSA as first-time freshmen in the summer or fall of 2014 were included in the sample used to determine outcomes five years after joining SSA.

Analyses included students who joined SSA as first-time freshman in the summer or fall of the years 2014–2018 as follows:

Cohort	Sample Size for Positive Outcomes Analyses (Full- or Part-time)	Sample Size for STEM Degrees and Certificates (Full-time)
2014	1,051	748
2015	821	553
2016	1,201	809
2017	1,068	725
2018	1,181	733
Comparison	66,559	39,276

The comparison sample when conducting analyses of positive outcomes included all 66,559 students who were full- or part-time first-time freshmen at the same institutions during the fall of 2014, 2015, 2016, 2017, and 2018 that did not participate in SSA. Analyses of STEM degrees and certificates drew from a comparison sample of 39,276 students who were full-time first-time freshman at the same institutions during the same time period as above and did not participate in SSA. When possible, students from all 15 sites were included in the analyses.

Each site applied their own recruitment and selection criteria to identify students for participation in SSA: in other words, students were not randomly assigned. To minimize any differences that may have existed between the treatment and comparison groups prior to the intervention, rigorous propensity-score-weighting procedures were used to weight each of the comparison students according to their similarities with the treatment group.¹

Description of modeling procedures

Mixed-effects logistic regression models were developed to assess the impact of the intervention on the likelihood of achieving a positive educational outcome (graduation/completion, retained, transferred to 4-year, or joined STEM workforce). Mixed-effects logistic regression contains both fixed effects and random effects. The following equation represents the general modeling procedure:

$$Y_{ij} = \beta_0 + \beta_1(\text{Participant}_{ij}) + \beta_2(\text{Asian}_{ij}) + \beta_3(\text{Black}_{ij}) + \beta_5(\text{Hispanic}_{ij}) + \beta_6(\text{White}_{ij}) + \beta_7(\text{Male}_{ij}) + \beta_8(\text{STEM_at_time_of_admin}_{ij}) + \beta_9(\text{College_math_ready}_{ij}) + u_{0j} + e_{ij}$$

For $i = 1, \dots, n_j$ students, and $j = 1, \dots, 13$ sites.

Random effects were included to account for site and individual student effects by adding a random error term for each site (u_{ij}), and individual observations (e_{ij}). β_0 represents the intercept. The coefficients β_1 through β_9 represent the fixed effects of a given covariate on the outcome (Y_{ij}).

¹ Rubin, Donald B. (2001). Using propensity scores to help design observational studies: Application to the tobacco litigation. *Health Services & Outcomes Research Methodology* 2 (3), 169–188.

For this study, the coefficient of greatest interest was β_1 , which represents the estimated impact of program participation on students' performance on the outcome of interest. Outcomes of interest included any positive educational outcome (i.e., graduation, retention, transfer) one, two, three, four, and five years after joining SSA, and STEM graduation status two, three, four, and five years after joining SSA.

Outcomes (i.e., values for Y_{ij}) were binary, and multi-level logistic regression analyses were conducted.

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Table 4: SSA Participant and Event Count by Term and Year				
SSA Year	Term	Group 1–3 (primary) participants	Group 4 (secondary) participants	Events and activities
Year 1	Spring 2014	448	5,662	173
	Summer 2014	786	2,545	49
Year 2	Fall 2014	2,769	1,741	56
	Spring 2015	2,949	5,018	156
	Summer 2015	999	1,742	40
Year 3	Fall 2015	2,646	4,192	100
	Spring 2016	3,144	6,161	187
	Summer 2016	1,767	2,237	76
Year 4	Fall 2016	3,629	4,649	305
	Spring 2017	4,897	5,779	246
	Summer 2017	1,518	3,083	80
Year 5	Fall 2017	3,374	3,745	112
	Spring 2018	3,624	6,521	205
	Summer 2018	1,634	2,505	107
Year 6	Fall 2018	3,488	5,129	141
	Spring 2019	3,495	5,317	202
	Summer 2019	1,154	1,074	65
Year 7	Fall 2019	3,204	2,897	104
Total*		30,964	69,997	2,404

*Total for Group 1–3 (Primary) participants is the total number of unique participants over the lifetime of the program. Group 4 (Secondary) participants cannot be tracked and may include duplicates within and between terms.

Table 4A: SSA Participant and Event Count by Institution, Term, and Year

Institution	SSA Year	Term	Group 1–3 (primary) participants	Group 4 (secondary) participants	Events and activities	
Berkshire	Year 1	Spring 2014	0	84	26	
		Summer 2014	21	144	5	
	Year 2	Fall 2014	67	343	15	
		Spring 2015	28	178	17	
		Summer 2015	32	0	0	
	Year 3	Fall 2015	66	702	25	
		Spring 2016	68	676	14	
		Summer 2016	47	56	4	
	Year 4	Fall 2016	61	435	16	
		Spring 2017	65	739	36	
		Summer 2017	99	244	1	
	Year 5	Fall 2017	110	475	12	
		Spring 2018	158	738	30	
		Summer 2018	105	0	0	
	Year 6	Fall 2018	109	467	24	
		Spring 2019	119	473	55	
		Summer 2019	69	185	3	
	Year 7	Fall 2019	68	651	26	
	Bristol	Year 1	Spring 2014	13	392	11
			Summer 2014	76	219	10
		Year 2	Fall 2014	59	348	10
Spring 2015			71	422	20	
Summer 2015			81	279	3	
Year 3		Fall 2015	52	245	6	
		Spring 2016	108	727	25	
		Summer 2016	142	147	8	
Year 4		Fall 2016	97	482	16	
		Spring 2017	116	533	15	
		Summer 2017	156	170	9	
Year 5		Fall 2017	96	418	14	
		Spring 2018	94	344	16	
		Summer 2018	119	212	9	
Year 6		Fall 2018	58	211	7	
		Spring 2019	55	268	5	
		Summer 2019	46	7	1	
Year 7		Fall 2019	94	51	2	
Bunker Hill		Year 1	Spring 2014	0	0	0
			Summer 2014	61	0	0
		Year 2	Fall 2014	40	0	0
	Spring 2015		90	0	0	
	Summer 2015		57	0	0	
	Year 3	Fall 2015	108	0	0	
		Spring 2016	105	0	0	
		Summer 2016	130	14	3	
	Year 4	Fall 2016	60	10	1	
		Spring 2017	104	0	0	
		Summer 2017	117	0	0	
	Year 5	Fall 2017	100	0	0	
		Spring 2018	89	0	0	
		Summer 2018	106	0	0	
	Year 6	Fall 2018	10	0	0	
		Spring 2019	31	0	0	
		Summer 2019	78	0	0	
	Year 7	Fall 2019	39	0	0	

Table 4A: SSA Participant and Event Count by Institution, Term, and Year

Institution	SSA Year	Term	Group 1–3 (primary) participants	Group 4 (secondary) participants	Events and activities
Cape Cod	Year 1	Spring 2014	0	299	7
		Summer 2014	5	405	6
	Year 2	Fall 2014	300	151	7
		Spring 2015	320	875	24
		Summer 2015	103	1,212	19
	Year 3	Fall 2015	348	1,541	26
		Spring 2016	406	823	36
		Summer 2016	112	320	12
	Year 4	Fall 2016	364	629	23
		Spring 2017	464	411	32
		Summer 2017	108	83	14
	Year 5	Fall 2017	422	183	12
		Spring 2018	482	334	15
		Summer 2018	20	137	13
	Year 6	Fall 2018	553	0	0
		Spring 2019	562	257	1
		Summer 2019	50	0	0
	Year 7	Fall 2019	197	100	3
	Greenfield	Year 1	Spring 2014	0	115
Summer 2014			18	235	9
Year 2		Fall 2014	4	305	3
		Spring 2015	9	214	12
		Summer 2015	19	0	0
Year 3		Fall 2015	11	0	0
		Spring 2016	28	500	15
		Summer 2016	27	70	1
Year 4		Fall 2016	28	426	120
		Spring 2017	29	525	38
		Summer 2017	43	50	3
Year 5		Fall 2017	205	51	5
		Spring 2018	273	600	39
		Summer 2018	71	100	24
Year 6		Fall 2018	297	165	8
		Spring 2019	256	825	35
		Summer 2019	92	163	32
Year 7		Fall 2019	194	223	15
Holyoke		Year 1	Spring 2014	0	770
	Summer 2014		72	15	5
	Year 2	Fall 2014	149	18	1
		Spring 2015	22	1,262	13
		Summer 2015	66	0	0
	Year 3	Fall 2015	0	0	0
		Spring 2016	14	0	0
		Summer 2016	41	14	3
	Year 4	Fall 2016	11	0	0
		Spring 2017	6	0	0
		Summer 2017	38	13	2
	Year 5	Fall 2017	60	0	0
		Spring 2018	47	114	9
		Summer 2018	34	73	6
	Year 6	Fall 2018	44	440	9
		Spring 2019	103	345	8
		Summer 2019	30	115	1
	Year 7	Fall 2019	76	450	8

Table 4A: SSA Participant and Event Count by Institution, Term, and Year

Institution	SSA Year	Term	Group 1–3 (primary) participants	Group 4 (secondary) participants	Events and activities
MassBay	Year 1	Spring 2014	0	477	5
		Summer 2014	154	0	0
	Year 2	Fall 2014	374	4	2
		Spring 2015	490	417	14
		Summer 2015	145	133	8
	Year 3	Fall 2015	447	350	14
		Spring 2016	454	590	25
		Summer 2016	183	211	8
	Year 4	Fall 2016	493	422	14
		Spring 2017	432	1,285	26
		Summer 2017	115	320	11
	Year 5	Fall 2017	431	485	18
		Spring 2018	444	1,160	20
		Summer 2018	106	311	12
	Year 6	Fall 2018	296	836	19
		Spring 2019	299	364	13
		Summer 2019	86	154	7
	Year 7	Fall 2019	246	83	7
	Massasoit	Year 1	Spring 2014	0	850
Summer 2014			48	110	3
Year 2		Fall 2014	643	0	0
		Spring 2015	715	40	10
		Summer 2015	29	0	0
Year 3		Fall 2015	524	0	0
		Spring 2016	799	0	0
		Summer 2016	77	0	0
Year 4		Fall 2016	893	0	0
		Spring 2017	797	0	0
		Summer 2017	125	0	0
Year 5		Fall 2017	848	0	0
		Spring 2018	680	0	0
		Summer 2018	99	0	0
Year 6		Fall 2018	680	0	0
		Spring 2019	554	0	0
		Summer 2019	52	0	0
Year 7		Fall 2019	721	0	0
Middlesex		Year 1	Spring 2014	101	152
	Summer 2014		45	0	0
	Year 2	Fall 2014	172	0	0
		Spring 2015	173	204	9
		Summer 2015	137	31	1
	Year 3	Fall 2015	158	493	6
		Spring 2016	151	1,341	7
		Summer 2016	142	353	7
	Year 4	Fall 2016	120	174	5
		Spring 2017	656	279	8
		Summer 2017	213	0	0
	Year 5	Fall 2017	199	0	0
		Spring 2018	222	190	2
		Summer 2018	70	206	5
	Year 6	Fall 2018	235	230	3
		Spring 2019	186	113	6
		Summer 2019	79	0	0
	Year 7	Fall 2019	207	58	3

Table 4A: SSA Participant and Event Count by Institution, Term, and Year

Institution	SSA Year	Term	Group 1–3 (primary) participants	Group 4 (secondary) participants	Events and activities
Mt. Wachusett	Year 1	Spring 2014	236	449	43
		Summer 2014	137	0	0
	Year 2	Fall 2014	337	0	0
		Spring 2015	416	288	10
		Summer 2015	18	0	0
	Year 3	Fall 2015	385	11	1
		Spring 2016	120	50	1
		Summer 2016	69	0	0
	Year 4	Fall 2016	475	300	3
		Spring 2017	521	433	21
		Summer 2017	75	53	4
	Year 5	Fall 2017	157	615	13
		Spring 2018	103	792	25
		Summer 2018	64	0	0
	Year 6	Fall 2018	128	1,002	30
		Spring 2019	73	381	23
		Summer 2019	46	0	0
Year 7	Fall 2019	141	597	15	
North Shore	Year 1	Spring 2014		250	3
		Summer 2014	55	1,220	4
	Year 2	Fall 2014	75	400	7
		Spring 2015	126	250	4
		Summer 2015	67	30	5
	Year 3	Fall 2015	275	30	1
		Spring 2016	226	75	8
		Summer 2016	76	250	8
	Year 4	Fall 2016	199	300	15
		Spring 2017	728	500	20
		Summer 2017	193	345	10
	Year 5	Fall 2017	147	75	10
		Spring 2018	347	78	8
		Summer 2018	182	350	11
	Year 6	Fall 2018	75	14	8
		Spring 2019	251	231	10
		Summer 2019	118	78	2
Year 7	Fall 2019	59	30	1	
Northern Essex	Year 1	Spring 2014	2	209	6
		Summer 2014	16	0	0
	Year 2	Fall 2014	233	138	4
		Spring 2015	117	13	1
		Summer 2015	108	11	1
	Year 3	Fall 2015	64	1	1
		Spring 2016	213	19	2
		Summer 2016	255	41	2
	Year 4	Fall 2016	132	0	0
		Spring 2017	159	82	4
		Summer 2017	111	67	8
	Year 5	Fall 2017	193	0	0
		Spring 2018	251	4	2
		Summer 2018	100	44	3
	Year 6	Fall 2018	321	60	1
		Spring 2019	301	8	6
		Summer 2019	56	18	3
Year 7	Fall 2019	226	56	1	

Table 4A: SSA Participant and Event Count by Institution, Term, and Year

Institution	SSA Year	Term	Group 1–3 (primary) participants	Group 4 (secondary) participants	Events and activities
Quinsigamond	Year 1	Spring 2014	79	845	8
		Summer 2014	36	197	7
	Year 2	Fall 2014	265	34	7
		Spring 2015	311	114	2
		Summer 2015	0	29	2
	Year 3	Fall 2015	97	389	7
		Spring 2016	71	926	22
		Summer 2016	201	741	18
	Year 4	Fall 2016	215	1,220	14
		Spring 2017	434	525	34
		Summer 2017	34	1,673	15
	Year 5	Fall 2017	119	569	23
		Spring 2018	273	1,321	26
		Summer 2018	414	968	13
	Year 6	Fall 2018	286	1,043	22
		Spring 2019	304	1,497	26
		Summer 2019	210	259	10
	Year 7	Fall 2019	528	356	9
	Roxbury	Year 1	Spring 2014	17	240
Summer 2014			9	0	0
Year 2		Fall 2014	7	0	0
		Spring 2015	7	0	0
		Summer 2015	59	0	0
Year 3		Fall 2015	32	0	0
		Spring 2016	294	0	0
		Summer 2016	136	0	0
Year 4		Fall 2016	322	0	0
		Spring 2017	267	0	0
		Summer 2017	40	0	0
Year 5		Fall 2017	268	0	0
		Spring 2018	72	98	3
		Summer 2018	53	40	7
Year 6		Fall 2018	304	89	5
		Spring 2019	252	55	4
		Summer 2019	48	40	2
Year 7		Fall 2019	280	147	11
Springfield Technical		Year 1	Spring 2014	0	530
	Summer 2014		33	0	0
	Year 2	Fall 2014	44	0	0
		Spring 2015	54	741	20
		Summer 2015	78	17	1
	Year 3	Fall 2015	79	430	13
		Spring 2016	87	434	32
		Summer 2016	129	20	2
	Year 4	Fall 2016	159	251	78
		Spring 2017	119	467	12
		Summer 2017	51	65	3
	Year 5	Fall 2017	19	874	5
		Spring 2018	89	748	10
		Summer 2018	91	64	4
	Year 6	Fall 2018	92	572	5
		Spring 2019	149	500	10
		Summer 2019	94	55	4
	Year 7	Fall 2019	128	95	3

Table 5: STEM Status at Entry for Full and Part Time Community College Students*

	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Full time STEM at entry	13%	13%	14%	14%	14%	14%
Part time STEM at entry	15%	15%	16%	17%	17%	16%
Full time non-STEM at entry	32%	31%	30%	29%	28%	28%
Part time non-STEM at entry	40%	40%	40%	40%	41%	41%
Total full time and part time students	95,339	90,265	84,628	80,318	76,603	72,760
Total STEM degrees and certificates earned**	7,373	7,463	7,984	8,188	8,195	***

*Counts only include students with valid HEIRS IDs who were enrolled in at least one credit hour in the given fall term.

**Includes all STEM degrees and certificates awarded at any institution after students' initial enrollment and within the same fiscal year as the Fall term indicated. Degrees and certificates are not limited to one per student.

***Data are not yet available.

Table 5A: STEM Status at Entry for Full and Part Time Community College Students by Institution*

		Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Berkshire	Full time STEM at entry	16%	17%	17%	15%	14%	15%
	Part time STEM at entry	19%	19%	21%	20%	19%	20%
	Full time non-STEM at entry	23%	24%	22%	24%	24%	22%
	Part time non-STEM at entry	42%	39%	39%	41%	42%	43%
	Total full time and part time students	2,197	2,073	1,911	1,808	1,632	1,560
	Total STEM degrees and certificates earned**	234	220	217	241	249	***
Bristol	Full time STEM at entry	7%	7%	8%	8%	8%	9%
	Part time STEM at entry	5%	5%	5%	5%	5%	6%
	Full time non-STEM at entry	44%	44%	43%	42%	41%	40%
	Part time non-STEM at entry	45%	44%	44%	45%	46%	46%
	Total full time and part time students	9,062	8,550	8,188	7,364	6,951	6,620
	Total STEM degrees and certificates earned**	549	582	681	636	615	***
Bunker Hill	Full time STEM at entry	8%	9%	10%	11%	12%	12%
	Part time STEM at entry	9%	11%	11%	12%	12%	12%
	Full time non-STEM at entry	30%	29%	28%	28%	27%	27%
	Part time non-STEM at entry	52%	52%	50%	48%	49%	49%
	Total full time and part time students	13,907	13,505	12,744	12,354	11,966	11,317
	Total STEM degrees and certificates earned**	801	874	897	891	998	***
Cape Cod	Full time STEM at entry	11%	10%	10%	11%	10%	11%
	Part time STEM at entry	21%	21%	21%	21%	19%	19%
	Full time non-STEM at entry	26%	27%	25%	25%	25%	25%
	Part time non-STEM at entry	42%	42%	45%	44%	46%	45%
	Total full time and part time students	3,861	3,652	3,357	3,183	2,959	2,808
	Total STEM degrees and certificates earned**	279	330	295	334	302	***
Greenfield	Full time STEM at entry	13%	14%	14%	12%	11%	11%
	Part time STEM at entry	20%	19%	20%	21%	22%	22%
	Full time non-STEM at entry	27%	26%	25%	23%	23%	23%
	Part time non-STEM at entry	40%	41%	41%	44%	45%	44%
	Total full time and part time students	2,018	1,957	1,866	1,746	1,705	1,662
	Total STEM degrees and certificates earned**	167	182	214	167	224	***
Holyoke	Full time STEM at entry	8%	10%	12%	12%	13%	13%
	Part time STEM at entry	7%	8%	10%	11%	11%	12%
	Full time non-STEM at entry	47%	46%	42%	40%	39%	37%
	Part time non-STEM at entry	38%	36%	37%	37%	37%	38%
	Total full time and part time students	6,679	6,308	5,839	5,473	5,060	4,836
	Total STEM degrees and certificates earned**	364	383	467	469	459	***
Mass Bay	Full time STEM at entry	17%	18%	19%	19%	19%	19%
	Part time STEM at entry	22%	21%	20%	21%	22%	21%
	Full time non-STEM at entry	24%	24%	23%	23%	22%	22%
	Part time non-STEM at entry	37%	37%	37%	36%	37%	38%
	Total full time and part time students	5,287	4,762	4,661	4,466	4,245	3,904
	Total STEM degrees and certificates earned**	471	437	504	511	548	***
Massasoit	Full time STEM at entry	12%	12%	13%	14%	15%	15%
	Part time STEM at entry	11%	12%	12%	13%	14%	14%
	Full time non-STEM at entry	38%	38%	37%	35%	32%	31%
	Part time non-STEM at entry	39%	38%	38%	38%	39%	40%
	Total full time and part time students	7,708	7,313	7,115	6,803	6,611	6,172
	Total STEM degrees and certificates earned**	464	443	580	562	517	***

Table 5A: STEM Status at Entry for Full and Part Time Community College Students by Institution*

		Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Middlesex	Full time STEM at entry	11%	10%	10%	11%	10%	10%
	Part time STEM at entry	9%	9%	9%	9%	8%	8%
	Full time non-STEM at entry	35%	35%	34%	34%	31%	31%
	Part time non-STEM at entry	45%	46%	47%	46%	51%	50%
	Total full time and part time students	8,987	8,741	8,242	7,834	7,726	7,072
	Total STEM degrees and certificates earned**	693	682	737	764	782	***
Mt. Wachusett	Full time STEM at entry	19%	19%	20%	20%	19%	19%
	Part time STEM at entry	22%	22%	24%	23%	23%	22%
	Full time non-STEM at entry	29%	29%	27%	25%	25%	24%
	Part time non-STEM at entry	29%	30%	29%	33%	33%	34%
	Total full time and part time students	4,225	3,911	3,734	3,583	3,423	3,353
	Total STEM degrees and certificates earned**	525	471	459	478	504	***
North Shore	Full time STEM at entry	14%	14%	14%	15%	15%	15%
	Part time STEM at entry	18%	19%	21%	21%	20%	21%
	Full time non-STEM at entry	29%	29%	27%	27%	27%	26%
	Part time non-STEM at entry	38%	39%	38%	38%	38%	38%
	Total full time and part time students	7,297	6,800	6,146	5,835	5,458	5,032
	Total STEM degrees and certificates earned**	611	614	600	666	608	***
Northern Essex	Full time STEM at entry	14%	15%	18%	19%	20%	19%
	Part time STEM at entry	25%	25%	26%	27%	26%	26%
	Full time non-STEM at entry	26%	25%	23%	22%	21%	22%
	Part time non-STEM at entry	35%	35%	32%	33%	32%	33%
	Total full time and part time students	6,978	6,575	5,924	5,712	5,211	4,934
	Total STEM degrees and certificates earned**	656	625	633	601	607	***
Quinsigamond	Full time STEM at entry	15%	15%	15%	16%	16%	15%
	Part time STEM at entry	20%	21%	22%	23%	25%	23%
	Full time non-STEM at entry	31%	29%	28%	27%	25%	23%
	Part time non-STEM at entry	34%	34%	34%	35%	35%	39%
	Total full time and part time students	8,304	7,840	7,432	7,108	6,987	6,940
	Total STEM degrees and certificates earned**	642	759	770	922	877	***
Roxbury	Full time STEM at entry	18%	18%	17%	16%	19%	20%
	Part time STEM at entry	32%	35%	35%	36%	38%	33%
	Full time non-STEM at entry	20%	18%	17%	19%	15%	17%
	Part time non-STEM at entry	30%	28%	31%	29%	28%	29%
	Total full time and part time students	2,378	2,230	2,066	1,920	1,933	1,731
	Total STEM degrees and certificates earned**	183	213	235	239	211	***
Springfield Technical	Full time STEM at entry	28%	27%	28%	28%	27%	24%
	Part time STEM at entry	20%	19%	20%	19%	19%	16%
	Full time non-STEM at entry	24%	24%	22%	23%	24%	26%
	Part time non-STEM at entry	29%	29%	30%	30%	31%	34%
	Total full time and part time students	6,451	6,048	5,403	5,129	4,736	4,819
	Total STEM degrees and certificates earned**	734	648	695	707	694	***

*Counts only include students with valid HEIRS IDs who were enrolled in at least one credit hour in the given fall term.

**Includes all STEM degrees and certificates awarded at any institution after students' initial enrollment at the given community college and within the same fiscal year as the Fall term indicated (for the institution of students' first HEIRS record only). Degrees and certificates are not limited to one per student.

***Data are not yet available.

Table 6: STEM Status at Entry for Full and Part Time SSA Participants*						
	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Full time STEM at entry	23%	23%	25%	24%	25%	26%
Part time STEM at entry	29%	28%	27%	27%	27%	27%
Full time non-STEM at entry	21%	22%	22%	22%	21%	21%
Part time non-STEM at entry	28%	27%	26%	27%	27%	26%
Total SSA participants enrolled in CC	7,578	9,708	11,384	12,015	11,516	9,324
Total STEM degrees and certificates earned**	258	570	988	1,382	1,528	***

*Counts only include students with valid HEIRS IDs who were enrolled in at least one credit hour in the given fall term.

**Includes all STEM degrees and certificates awarded at any institution after students' initial participation in SSA and within the same fiscal year as the Fall term indicated. Degrees and certificates are not limited to one per student.

***Data are not yet available.

Table 6A: STEM Status at Entry for Full and Part Time SSA Participants, by Institution*							
		Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Berkshire	Full time STEM at entry	19%	39%	33%	23%	29%	33%
	Part time STEM at entry	8%	13%	16%	10%	15%	20%
	Full time non-STEM at entry	10%	14%	18%	30%	24%	22%
	Part time non-STEM at entry	63%	34%	33%	38%	33%	25%
	Total SSA participants enrolled in CC	100	117	159	271	294	233
Total STEM degrees and certificates earned**	1	3	9	18	45	***	
Bristol	Full time STEM at entry	28%	32%	27%	19%	18%	15%
	Part time STEM at entry	30%	23%	19%	16%	19%	19%
	Full time non-STEM at entry	7%	8%	13%	10%	12%	14%
	Part time non-STEM at entry	36%	37%	41%	56%	51%	51%
	Total SSA participants enrolled in CC	227	319	380	432	366	292
Total STEM degrees and certificates earned**	33	31	64	64	65	***	
Bunker Hill	Full time STEM at entry	28%	32%	33%	29%	32%	36%
	Part time STEM at entry	38%	36%	31%	31%	33%	36%
	Full time non-STEM at entry	11%	11%	11%	8%	7%	6%
	Part time non-STEM at entry	23%	22%	26%	32%	28%	22%
	Total SSA participants enrolled in CC	393	514	552	570	460	324
Total STEM degrees and certificates earned**	0	21	50	63	76	***	
Cape Cod	Full time STEM at entry	12%	13%	12%	13%	13%	15%
	Part time STEM at entry	29%	28%	28%	27%	23%	24%
	Full time non-STEM at entry	21%	22%	20%	22%	21%	19%
	Part time non-STEM at entry	37%	38%	40%	39%	43%	42%
	Total SSA participants enrolled in CC	843	1,095	1,093	1,151	1,125	797
Total STEM degrees and certificates earned**	19	54	55	114	132	***	
Greenfield	Full time STEM at entry	21%	21%	26%	19%	14%	14%
	Part time STEM at entry	25%	23%	22%	20%	21%	21%
	Full time non-STEM at entry	15%	20%	22%	28%	30%	29%
	Part time non-STEM at entry	38%	36%	30%	33%	35%	35%
	Total SSA participants enrolled in CC	91	187	297	489	595	538
Total STEM degrees and certificates earned**	0	3	13	15	53	***	
Holyoke	Full time STEM at entry	12%	15%	17%	16%	17%	19%
	Part time STEM at entry	9%	8%	11%	15%	13%	17%
	Full time non-STEM at entry	43%	40%	37%	31%	28%	29%
	Part time non-STEM at entry	36%	37%	36%	38%	41%	35%
	Total SSA participants enrolled in CC	225	211	255	289	271	207
Total STEM degrees and certificates earned**	2	4	13	26	28	***	
Mass Bay	Full time STEM at entry	30%	29%	31%	32%	36%	38%
	Part time STEM at entry	27%	28%	27%	26%	28%	29%
	Full time non-STEM at entry	21%	21%	22%	20%	17%	13%
	Part time non-STEM at entry	22%	22%	21%	21%	20%	20%
	Total SSA participants enrolled in CC	927	1,060	1,148	1,079	901	681
Total STEM degrees and certificates earned**	31	76	121	124	135	***	
Massasoit	Full time STEM at entry	10%	7%	12%	15%	17%	17%
	Part time STEM at entry	8%	7%	9%	12%	14%	14%
	Full time non-STEM at entry	41%	47%	45%	42%	39%	38%
	Part time non-STEM at entry	41%	40%	35%	31%	30%	31%
	Total SSA participants enrolled in CC	1,221	1,664	1,994	2,034	1,933	1,705
Total STEM degrees and certificates earned**	8	25	49	82	82	***	

Table 6A: STEM Status at Entry for Full and Part Time SSA Participants, by Institution*							
		Fall 2014	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
Middlesex	Full time STEM at entry	37%	32%	32%	31%	28%	31%
	Part time STEM at entry	30%	28%	26%	25%	23%	20%
	Full time non-STEM at entry	13%	18%	19%	20%	22%	22%
	Part time non-STEM at entry	20%	22%	23%	24%	27%	27%
	Total SSA participants enrolled in CC	798	956	1,069	999	844	599
	Total STEM degrees and certificates earned**	81	125	183	220	205	***
Mt. Wachusett	Full time STEM at entry	30%	27%	28%	27%	29%	36%
	Part time STEM at entry	18%	21%	15%	11%	11%	15%
	Full time non-STEM at entry	20%	25%	28%	28%	29%	20%
	Part time non-STEM at entry	32%	27%	29%	34%	32%	30%
	Total SSA participants enrolled in CC	245	286	368	474	416	372
	Total STEM degrees and certificates earned**	17	14	42	34	56	***
North Shore	Full time STEM at entry	23%	24%	26%	27%	29%	27%
	Part time STEM at entry	38%	35%	36%	34%	37%	36%
	Full time non-STEM at entry	11%	16%	15%	14%	10%	10%
	Part time non-STEM at entry	28%	25%	23%	25%	25%	27%
	Total SSA participants enrolled in CC	493	851	1,012	1,031	790	541
	Total STEM degrees and certificates earned**	5	40	85	134	148	***
Northern Essex	Full time STEM at entry	25%	30%	38%	39%	42%	42%
	Part time STEM at entry	52%	52%	49%	51%	50%	50%
	Full time non-STEM at entry	11%	8%	5%	4%	4%	4%
	Part time non-STEM at entry	13%	11%	7%	6%	4%	4%
	Total SSA participants enrolled in CC	726	793	976	994	978	731
	Total STEM degrees and certificates earned**	13	53	80	156	176	***
Quinsigamond	Full time STEM at entry	29%	30%	32%	29%	27%	26%
	Part time STEM at entry	35%	35%	34%	35%	33%	30%
	Full time non-STEM at entry	20%	17%	16%	17%	19%	20%
	Part time non-STEM at entry	16%	18%	18%	18%	21%	24%
	Total SSA participants enrolled in CC	766	884	1,015	1,075	1,296	1,229
	Total STEM degrees and certificates earned**	41	90	129	214	189	***
Roxbury	Full time STEM at entry	17%	19%	18%	18%	20%	26%
	Part time STEM at entry	46%	45%	42%	43%	43%	41%
	Full time non-STEM at entry	14%	14%	15%	18%	18%	16%
	Part time non-STEM at entry	23%	21%	24%	22%	19%	17%
	Total SSA participants enrolled in CC	380	549	747	718	815	685
	Total STEM degrees and certificates earned**	0	23	67	69	78	***
Springfield Technical	Full time STEM at entry	45%	44%	39%	33%	33%	33%
	Part time STEM at entry	26%	19%	24%	25%	27%	22%
	Full time non-STEM at entry	12%	21%	20%	25%	22%	25%
	Part time non-STEM at entry	17%	16%	17%	17%	19%	20%
	Total SSA participants enrolled in CC	143	222	319	409	432	390
	Total STEM degrees and certificates earned**	7	8	28	49	60	***

*Counts only include students with valid HEIRS IDs who were enrolled in at least one credit hour in the given fall term.

**Includes all STEM degrees and certificates awarded at any institution after students' initial participation in SSA at the given community college and within the same fiscal year as the Fall term indicated (for students' first SSA institution only). Degrees and certificates are not limited to one per student.

***Data are not yet available.

Table 7: Number of Students in the Community College STEM Pipeline*									
Institution	Fall 2014			Fall 2015			Fall 2016		
	# of students in the STEM pipeline	SSA participants		# of students in the STEM pipeline	SSA participants		# of students in the STEM pipeline	SSA participants	
		Total #	# STEM at entry		Total #	# STEM at entry		Total #	# STEM at entry
Berkshire	766	100	27	752	117	61	734	159	78
Bristol	1,050	227	130	1,002	319	175	1,024	380	175
Bunker Hill	2,439	393	258	2,591	514	347	2,746	552	350
Cape Cod	1,230	843	348	1,118	1,095	444	1,034	1,093	439
Greenfield	678	91	42	650	187	83	629	297	142
Holyoke	970	225	48	1,131	211	48	1,236	255	70
Mass Bay	2,082	927	522	1,836	1,060	606	1,852	1,148	660
Massasoit	1,770	1,221	217	1,722	1,664	229	1,803	1,994	415
Middlesex	1,795	798	530	1,691	956	582	1,593	1,069	621
Mt. Wachusett	1,738	245	118	1,629	286	139	1,613	368	160
North Shore	2,361	493	301	2,216	851	507	2,134	1,012	622
Northern Essex	2,702	726	553	2,683	793	643	2,645	976	853
Quinsigamond	2,881	766	490	2,869	884	571	2,804	1,015	665
Roxbury	1,186	380	238	1,193	549	355	1,090	747	453
Springfield Technical	3,071	143	102	2,822	222	140	2,584	319	203
Total across sites	26,719	7,578	3,924	25,905	9,708	4,930	25,521	11,384	5,906

*The STEM pipeline includes students that are STEM enrolled at entry, have a valid HEIRS ID, and are enrolled in a community college full or part time during the given Fall term. SSA participants include those that have a valid HEIRS ID and are enrolled in a community college full or part time during the given Fall term.

Table 7: Number of Students in the Community College STEM Pipeline*									
Institution	Fall 2017			Fall 2018			Fall 2019		
	# of students in the STEM pipeline	SSA participants		# of students in the STEM pipeline	SSA participants		# of students in the STEM pipeline	SSA participants	
		Total #	# STEM at entry		Total #	# STEM at entry		Total #	# STEM at entry
Berkshire	631	271	87	552	294	128	536	233	123
Bristol	969	432	150	890	366	136	951	292	101
Bunker Hill	2,912	570	344	2,866	460	300	2,750	324	233
Cape Cod	1,006	1,151	457	865	1,125	400	842	797	314
Greenfield	572	489	190	552	595	208	543	538	191
Holyoke	1,260	289	89	1,213	271	83	1,203	207	74
Mass Bay	1,812	1,079	630	1,750	901	569	1,538	681	460
Massasoit	1,854	2,034	536	1,904	1,933	599	1,777	1,705	527
Middlesex	1,541	999	552	1,391	844	426	1,311	599	303
Mt. Wachusett	1,526	474	181	1,453	416	164	1,398	372	188
North Shore	2,065	1,031	626	1,903	790	517	1,800	541	344
Northern Essex	2,594	994	896	2,406	978	897	2,212	731	674
Quinsigamond	2,762	1,075	696	2,800	1,296	777	2,640	1,229	693
Roxbury	1,004	718	435	1,101	815	517	929	685	459
Springfield Technical	2,410	409	240	2,150	432	258	1,920	390	214
Total across sites	24,918	12,015	6,109	23,796	11,516	5,979	22,350	9,324	4,898

*The STEM pipeline includes students that are STEM enrolled at entry, have a valid HEIRS ID, and are enrolled in a community college full or part time during the given Fall term. SSA participants include those that have a valid HEIRS ID and are enrolled in a community college full or part time during the given Fall term.

Table 8: SSA Participants' Service Descriptions by Year and Term*					
SSA Year	Term	SSA participants	Received direct (SSA grant subsidized) financial support	Received extra or targeted supports	Received targeted STEM pathway and/or STEM career counseling
Year 1	Spring 2014	448	111	103	101
	Summer 2014	786	710	548	505
Year 2	Fall 2014	2,769	712	1,359	947
	Spring 2015	2,949	380	1,201	958
	Summer 2015	999	493	662	574
Year 3	Fall 2015	2,646	257	1,297	896
	Spring 2016	3,144	264	1,604	983
	Summer 2016	1,767	933	833	846
Year 4	Fall 2016	3,629	321	1,709	796
	Spring 2017	4,897	222	2,606	1,813
	Summer 2017	1,518	860	858	718
Year 5	Fall 2017	3,374	381	1,659	856
	Spring 2018	3,624	488	1,295	1,074
	Summer 2018	1,634	766	1,097	775
Year 6	Fall 2018	3,488	448	1,627	1,142
	Spring 2019	3,495	551	1,705	1,098
	Summer 2019	1,154	603	841	684
Year 7	Fall 2019	3,204	476	1,439	1,272
Unduplicated Totals		30,964	6,248	15,587	10,497

*Group 1–3 (Primary) participants

Table 8A: SSA Participants' Service Descriptions by Institution, Year, and Term*						
Institution	SSA Year	Term	SSA participants	Received direct (SSA grant subsidized) financial support	Received extra or targeted supports	Received targeted STEM pathway and/or STEM career counseling
Berkshire	Year 1	Spring 2014	0	0	0	0
		Summer 2014	21	21	21	21
	Year 2	Fall 2014	67	67	21	18
		Spring 2015	28	23	19	19
		Summer 2015	32	32	32	32
	Year 3	Fall 2015	66	57	31	45
		Spring 2016	68	54	16	33
		Summer 2016	47	36	32	28
	Year 4	Fall 2016	61	49	46	34
		Spring 2017	65	35	15	38
		Summer 2017	99	88	37	40
	Year 5	Fall 2017	110	49	64	34
		Spring 2018	158	93	56	68
		Summer 2018	105	100	43	42
	Year 6	Fall 2018	109	68	67	53
		Spring 2019	119	67	34	41
		Summer 2019	69	59	52	45
	Year 7	Fall 2019	68	52	47	47
	Bristol	Year 1	Spring 2014	13	13	13
Summer 2014			76	76	34	45
Year 2		Fall 2014	59	17	39	49
		Spring 2015	71	18	52	29
		Summer 2015	81	35	21	27
Year 3		Fall 2015	52	15	22	37
		Spring 2016	108	21	44	64
		Summer 2016	142	77	56	47
Year 4		Fall 2016	97	0	58	53
		Spring 2017	116	58	32	37
		Summer 2017	156	123	17	44
Year 5		Fall 2017	96	69	22	14
		Spring 2018	94	33	26	57
		Summer 2018	119	80	16	57
Year 6		Fall 2018	58	0	21	39
		Spring 2019	55	0	21	34
		Summer 2019	46	45	4	41
Year 7		Fall 2019	94	22	20	83
Bunker Hill		Year 1	Spring 2014	0	0	0
	Summer 2014		61	61	61	61
	Year 2	Fall 2014	40	40	40	40
		Spring 2015	90	90	90	90
		Summer 2015	57	57	57	57
	Year 3	Fall 2015	108	108	108	108
		Spring 2016	105	0	105	105
		Summer 2016	130	114	130	130
	Year 4	Fall 2016	60	0	60	0
		Spring 2017	104	0	104	33
		Summer 2017	117	83	93	93
	Year 5	Fall 2017	100	12	19	11
		Spring 2018	89	40	49	34
		Summer 2018	106	62	94	36
	Year 6	Fall 2018	10	10	0	0
		Spring 2019	31	9	22	22
		Summer 2019	78	34	78	42
	Year 7	Fall 2019	39	0	36	0

Table 8A: SSA Participants' Service Descriptions by Institution, Year, and Term*							
Institution	SSA Year	Term	SSA participants	Received direct (SSA grant subsidized) financial support	Received extra or targeted supports	Received targeted STEM pathway and/or STEM career counseling	
Cape Cod	Year 1	Spring 2014	0	0	0	0	
		Summer 2014	5	5	5	5	
	Year 2	Fall 2014	300	29	300	46	
		Spring 2015	320	37	98	98	
		Summer 2015	103	31	103	103	
	Year 3	Fall 2015	348	20	273	99	
		Spring 2016	406	28	330	89	
		Summer 2016	112	38	110	55	
	Year 4	Fall 2016	364	10	313	67	
		Spring 2017	464	20	402	94	
		Summer 2017	108	35	103	22	
	Year 5	Fall 2017	422	42	343	125	
		Spring 2018	482	0	97	60	
		Summer 2018	20	20	0	20	
	Year 6	Fall 2018	553	18	455	121	
		Spring 2019	562	30	403	148	
		Summer 2019	50	11	37	0	
	Year 7	Fall 2019	197	44	60	122	
	Greenfield	Year 1	Spring 2014	0	0	0	0
			Summer 2014	18	18	12	18
		Year 2	Fall 2014	4	0	4	4
Spring 2015			9	0	7	0	
Summer 2015			19	19	19	19	
Year 3		Fall 2015	11	11	11	0	
		Spring 2016	28	28	4	0	
		Summer 2016	27	27	22	22	
Year 4		Fall 2016	28	5	28	0	
		Spring 2017	29	10	29	19	
		Summer 2017	43	43	7	43	
Year 5		Fall 2017	205	0	205	0	
		Spring 2018	273	0	0	0	
		Summer 2018	71	71	71	71	
Year 6		Fall 2018	297	0	222	43	
		Spring 2019	256	0	205	0	
		Summer 2019	92	92	92	92	
Year 7		Fall 2019	194	0	194	49	
Holyoke		Year 1	Spring 2014	0	0	0	0
			Summer 2014	72	72	71	71
		Year 2	Fall 2014	149	141	149	7
	Spring 2015		22	17	17	19	
	Summer 2015		66	41	66	66	
	Year 3	Fall 2015	0	0	0	0	
		Spring 2016	14	14	14	14	
		Summer 2016	41	41	41	41	
	Year 4	Fall 2016	11	11	11	7	
		Spring 2017	6	6	0	6	
		Summer 2017	38	38	38	38	
	Year 5	Fall 2017	60	60	60	35	
		Spring 2018	47	47	47	33	
		Summer 2018	34	34	34	34	
	Year 6	Fall 2018	44	44	44	44	
		Spring 2019	103	103	103	82	
		Summer 2019	30	30	30	30	
	Year 7	Fall 2019	76	76	76	76	

Table 8A: SSA Participants' Service Descriptions by Institution, Year, and Term*							
Institution	SSA Year	Term	SSA participants	Received direct (SSA grant subsidized) financial support	Received extra or targeted supports	Received targeted STEM pathway and/or STEM career counseling	
MassBay	Year 1	Spring 2014	0	0	0	0	
		Summer 2014	154	154	154	154	
	Year 2	Fall 2014	374	5	306	70	
		Spring 2015	490	15	292	264	
		Summer 2015	145	14	83	72	
	Year 3	Fall 2015	447	1	271	197	
		Spring 2016	454	1	214	244	
		Summer 2016	183	32	73	147	
	Year 4	Fall 2016	493	2	247	252	
		Spring 2017	432	4	181	255	
		Summer 2017	115	46	65	72	
	Year 5	Fall 2017	431	5	217	220	
		Spring 2018	444	22	195	257	
		Summer 2018	106	34	29	77	
	Year 6	Fall 2018	296	15	53	243	
		Spring 2019	299	24	63	253	
		Summer 2019	86	37	43	74	
	Year 7	Fall 2019	246	4	14	237	
	Massasoit	Year 1	Spring 2014	0	0	0	0
			Summer 2014	48	0	48	0
		Year 2	Fall 2014	643	14	0	34
Spring 2015			715	16	13	16	
Summer 2015			29	16	13	16	
Year 3		Fall 2015	524	15	0	91	
		Spring 2016	799	18	0	127	
		Summer 2016	77	20	0	20	
Year 4		Fall 2016	893	12	0	37	
		Spring 2017	797	18	0	51	
		Summer 2017	125	13	26	13	
Year 5		Fall 2017	848	15	0	56	
		Spring 2018	680	17	0	121	
		Summer 2018	99	16	0	16	
Year 6		Fall 2018	680	20	0	27	
		Spring 2019	554	20	0	54	
		Summer 2019	52	18	0	18	
Year 7		Fall 2019	721	17	0	40	
Middlesex		Year 1	Spring 2014	101	26	20	45
			Summer 2014	45	33	45	33
		Year 2	Fall 2014	172	16	144	148
	Spring 2015		173	9	173	97	
	Summer 2015		137	47	137	120	
	Year 3	Fall 2015	158	4	158	146	
		Spring 2016	151	7	151	66	
		Summer 2016	142	113	142	64	
	Year 4	Fall 2016	120	8	117	36	
		Spring 2017	656	15	154	332	
		Summer 2017	213	32	80	21	
	Year 5	Fall 2017	199	0	0	0	
		Spring 2018	222	76	145	0	
		Summer 2018	70	65	70	22	
	Year 6	Fall 2018	235	2	0	100	
		Spring 2019	186	11	62	16	
		Summer 2019	79	54	78	51	
	Year 7	Fall 2019	207	57	0	42	

Table 8A: SSA Participants' Service Descriptions by Institution, Year, and Term*							
Institution	SSA Year	Term	SSA participants	Received direct (SSA grant subsidized) financial support	Received extra or targeted supports	Received targeted STEM pathway and/or STEM career counseling	
Mt. Wachusett	Year 1	Spring 2014	236	0	0	0	
		Summer 2014	137	137	0	23	
	Year 2	Fall 2014	337	0	0	235	
		Spring 2015	416	0	0	8	
		Summer 2015	18	18	2	16	
	Year 3	Fall 2015	385	0	50	76	
		Spring 2016	120	0	32	83	
		Summer 2016	69	69	69	56	
	Year 4	Fall 2016	475	0	21	161	
		Spring 2017	521	0	208	343	
		Summer 2017	75	75	75	75	
	Year 5	Fall 2017	157	111	80	103	
		Spring 2018	103	103	8	50	
		Summer 2018	64	50	50	50	
	Year 6	Fall 2018	128	122	86	86	
		Spring 2019	73	73	73	73	
		Summer 2019	46	46	46	46	
	Year 7	Fall 2019	141	141	106	106	
	North Shore	Year 1	Spring 2014	0	0	0	0
			Summer 2014	55	55	55	31
		Year 2	Fall 2014	75	75	75	0
Spring 2015			126	126	126	0	
Summer 2015			67	32	67	18	
Year 3		Fall 2015	275	22	253	0	
		Spring 2016	226	13	226	103	
		Summer 2016	76	76	11	39	
Year 4		Fall 2016	199	199	199	0	
		Spring 2017	728	19	728	228	
		Summer 2017	193	193	193	193	
Year 5		Fall 2017	147	17	147	147	
		Spring 2018	347	0	183	142	
		Summer 2018	182	117	130	51	
Year 6		Fall 2018	75	22	56	0	
		Spring 2019	251	16	239	45	
		Summer 2019	118	96	49	21	
Year 7		Fall 2019	59	4	7	1	
Northern Essex		Year 1	Spring 2014	2	2	0	0
			Summer 2014	16	0	0	16
		Year 2	Fall 2014	233	5	233	228
	Spring 2015		117	20	100	0	
	Summer 2015		108	71	34	0	
	Year 3	Fall 2015	64	0	0	0	
		Spring 2016	213	7	152	0	
		Summer 2016	255	0	26	0	
	Year 4	Fall 2016	132	0	101	0	
		Spring 2017	159	12	109	0	
		Summer 2017	111	15	24	0	
	Year 5	Fall 2017	193	1	187	0	
		Spring 2018	251	43	180	0	
		Summer 2018	100	29	40	0	
	Year 6	Fall 2018	321	35	192	0	
		Spring 2019	301	48	188	0	
		Summer 2019	56	16	28	0	
	Year 7	Fall 2019	226	6	208	0	

Table 8A: SSA Participants' Service Descriptions by Institution, Year, and Term*							
Institution	SSA Year	Term	SSA participants	Received direct (SSA grant subsidized) financial support	Received extra or targeted supports	Received targeted STEM pathway and/or STEM career counseling	
Quinsigamond	Year 1	Spring 2014	79	53	53	26	
		Summer 2014	36	36	0	18	
	Year 2	Fall 2014	265	265	0	58	
		Spring 2015	311	0	177	311	
		Summer 2015	0	0	0	0	
	Year 3	Fall 2015	97	0	89	83	
		Spring 2016	71	71	15	38	
		Summer 2016	201	201	0	148	
	Year 4	Fall 2016	215	1	102	137	
		Spring 2017	434	5	388	363	
		Summer 2017	34	25	9	13	
	Year 5	Fall 2017	119	0	93	92	
		Spring 2018	273	0	199	201	
		Summer 2018	414	18	413	200	
	Year 6	Fall 2018	286	0	269	184	
		Spring 2019	304	1	245	178	
		Summer 2019	210	9	210	136	
	Year 7	Fall 2019	528	8	528	296	
	Roxbury	Year 1	Spring 2014	17	17	17	17
			Summer 2014	9	9	9	9
		Year 2	Fall 2014	7	7	7	7
Spring 2015			7	7	7	7	
Summer 2015			59	52	0	0	
Year 3		Fall 2015	32	0	12	0	
		Spring 2016	294	0	267	0	
		Summer 2016	136	42	67	0	
Year 4		Fall 2016	322	0	322	0	
		Spring 2017	267	0	236	0	
		Summer 2017	40	0	40	0	
Year 5		Fall 2017	268	0	203	0	
		Spring 2018	72	0	21	34	
		Summer 2018	53	0	16	29	
Year 6		Fall 2018	304	0	70	202	
		Spring 2019	252	0	45	152	
		Summer 2019	48	0	0	32	
Year 7		Fall 2019	280	0	15	173	
Springfield Technical		Year 1	Spring 2014	0	0	0	0
			Summer 2014	33	33	33	0
		Year 2	Fall 2014	44	31	41	3
	Spring 2015		54	2	30	0	
	Summer 2015		78	28	28	28	
	Year 3	Fall 2015	79	4	19	14	
		Spring 2016	87	2	34	17	
		Summer 2016	129	47	54	49	
	Year 4	Fall 2016	159	24	84	12	
		Spring 2017	119	20	20	14	
		Summer 2017	51	51	51	51	
	Year 5	Fall 2017	19	0	19	19	
		Spring 2018	89	14	89	17	
		Summer 2018	91	70	91	70	
	Year 6	Fall 2018	92	92	92	0	
		Spring 2019	149	149	2	0	
		Summer 2019	94	56	94	56	
	Year 7	Fall 2019	128	45	128	0	

*Group 1-3 (Primary) participants

Table 9: SSA Participant Race/Ethnicity by Year of Participation*										
SSA Year	Non-resident alien	Black or African American	American Indian or Alaska Native	Hispanic or Latino (of any race)	White	Cape Verdean	Two or more races	Asian	Native Hawaiian or other Pacific Islander	Race and ethnicity reported unknown
Year 1	10	115	2	207	533	12	28	62	0	27
Year 2	46	742	15	913	2,400	161	156	253	4	138
Year 3	95	1,092	23	1,052	2,738	177	155	287	9	132
Year 4	117	1,428	25	1,396	3,342	248	235	441	8	206
Year 5	69	1,196	21	1,252	3,413	211	219	347	6	255
Year 6	79	1,278	19	1,236	3,001	189	216	354	12	205
Year 7	46	600	16	583	1,448	104	114	142	2	117
SSA Total	356	5,142	97	5,379	13,381	862	910	1,457	33	905

*Includes Group 1–3 (Primary) SSA participants with valid HEIRS ID

Table 9A: SSA Participant Race/Ethnicity by Institution and Year of Participation*

Institution	SSA Year	Non-resident alien	Black or African American	American Indian or Alaska Native	Hispanic or Latino (of any race)	White	Cape Verdean	Two or more races	Asian	Native Hawaiian or other Pacific Islander	Race and ethnicity reported unknown
Berkshire	Year 1	0	2	0	1	16	0	1	1	0	0
	Year 2	0	2	0	4	93	0	2	4	0	4
	Year 3	1	4	1	12	81	0	2	4	0	3
	Year 4	2	10	0	21	102	0	4	9	1	5
	Year 5	4	23	1	22	180	0	14	6	1	19
	Year 6	4	18	3	16	138	0	9	6	0	12
Bristol	Year 1	0	1	0	7	61	5	5	4	0	0
	Year 2	2	9	1	12	109	8	7	8	0	6
	Year 3	2	14	1	23	168	7	13	9	1	8
	Year 4	0	20	0	30	187	14	12	7	1	28
	Year 5	1	13	1	18	156	11	8	6	0	37
	Year 6	1	10	1	9	88	2	6	5	0	10
Bunker Hill	Year 1	0	9	1	10	62	1	5	3	0	3
	Year 1	1	21	0	17	16	0	0	3	0	0
	Year 2	10	53	0	43	40	4	7	16	0	8
	Year 3	35	75	1	71	72	5	8	31	0	9
	Year 4	32	47	0	55	60	10	5	35	0	14
	Year 5	9	61	0	76	41	3	7	39	0	35
Cape Cod	Year 6	13	28	0	21	21	0	0	20	0	3
	Year 7	7	13	0	9	6	0	0	0	0	2
	Year 1	0	1	0	0	4	0	0	0	0	0
	Year 2	0	42	3	60	396	10	23	11	0	8
	Year 3	2	67	3	72	459	12	27	23	1	13
	Year 4	4	68	5	79	511	11	45	27	0	14
Greenfield	Year 5	3	60	4	73	481	10	37	30	1	18
	Year 6	0	87	3	100	594	12	38	31	3	24
	Year 7	0	6	1	16	150	0	10	8	0	6
	Year 1	0	0	0	1	12	0	1	0	0	0
	Year 2	0	0	0	1	19	0	2	2	0	0
	Year 3	0	3	0	2	48	0	2	1	0	6
Holyoke	Year 4	0	2	0	4	58	0	2	4	0	7
	Year 5	2	17	1	43	345	1	20	16	1	21
	Year 6	0	21	1	45	348	2	20	25	0	30
	Year 7	0	11	0	25	125	0	9	5	0	12
	Year 1	0	11	0	9	31	0	0	2	0	2
	Year 2	2	24	0	69	103	0	7	3	0	5
Mass Bay	Year 3	0	4	0	19	25	0	3	2	0	0
	Year 4	3	7	0	19	18	0	1	2	1	3
	Year 5	2	13	2	30	68	0	3	2	0	2
	Year 6	3	19	1	52	62	0	7	3	0	7
	Year 7	0	3	1	12	47	0	2	3	0	7
	Year 1	3	13	0	14	44	0	0	9	0	10
Massasoit	Year 2	17	112	5	115	325	4	11	35	0	53
	Year 3	16	135	4	141	356	3	6	38	0	34
	Year 4	16	108	3	145	380	2	8	39	0	26
	Year 5	18	97	2	145	384	0	10	39	0	26
	Year 6	18	74	2	76	246	0	14	43	0	28
	Year 7	12	36	2	39	116	0	7	16	0	15
Massasoit	Year 1	1	6	0	5	27	4	0	1	0	1
	Year 2	3	293	2	89	506	132	58	16	2	20
	Year 3	14	292	3	102	520	136	42	14	1	19
	Year 4	14	369	2	145	595	196	49	20	3	40
	Year 5	8	347	1	126	506	182	43	26	0	39
	Year 6	6	285	3	87	423	149	40	13	0	32
Year 7	8	184	1	58	316	87	29	15	1	22	

Table 9A: SSA Participant Race/Ethnicity by Institution and Year of Participation*

Institution	SSA Year	Non-resident alien	Black or African American	American Indian or Alaska Native	Hispanic or Latino (of any race)	White	Cape Verdean	Two or more races	Asian	Native Hawaiian or other Pacific Islander	Race and ethnicity reported unknown
Middlesex	Year 1	4	12	0	24	68	1	3	28	0	1
	Year 2	6	41	1	100	166	1	2	90	0	1
	Year 3	7	38	1	69	139	1	11	74	1	0
	Year 4	25	106	0	156	274	1	24	145	0	1
	Year 5	14	44	0	87	193	0	9	71	0	1
	Year 6	11	69	1	78	156	0	16	74	1	1
Mt. Wachusett	Year 1	9	18	1	42	92	0	9	33	0	1
	Year 2	1	17	0	57	172	0	9	9	0	8
	Year 3	0	9	0	40	125	0	9	10	0	1
	Year 4	1	13	1	38	167	0	4	3	0	15
	Year 5	0	13	3	50	159	1	8	7	0	23
	Year 6	0	10	1	29	154	0	7	8	0	14
North Shore	Year 1	0	7	3	21	119	0	2	11	0	10
	Year 2	0	2	1	16	113	0	2	4	0	2
	Year 3	0	6	1	17	25	0	3	2	0	1
	Year 4	1	24	0	47	100	1	10	18	0	6
	Year 5	2	102	3	130	232	2	12	38	1	1
	Year 6	2	139	2	247	419	1	36	64	1	9
Northern Essex	Year 1	2	86	1	151	271	0	17	37	2	7
	Year 2	1	73	0	122	145	0	15	27	2	2
	Year 3	0	11	1	18	21	0	2	2	0	0
	Year 4	0	0	0	16	0	0	0	0	0	0
	Year 5	2	25	1	235	140	0	4	5	2	3
	Year 6	7	27	0	235	213	0	8	17	3	1
Quinsigamond	Year 1	8	23	0	174	128	0	4	17	1	2
	Year 2	3	31	2	212	174	0	6	10	0	9
	Year 3	8	37	1	265	225	1	7	22	2	4
	Year 4	1	20	1	102	86	2	0	6	1	6
	Year 5	0	11	1	25	42	0	4	3	0	2
	Year 6	3	92	2	79	239	1	11	31	0	21
Roxbury	Year 1	5	45	1	53	187	1	8	18	0	16
	Year 2	6	92	3	120	298	0	17	43	0	22
	Year 3	1	117	4	122	376	0	25	41	0	19
	Year 4	12	329	13	436	1,087	1	70	132	0	76
	Year 5	12	391	11	439	1,174	1	68	152	0	78
	Year 6	17	1,159	11	303	80	56	37	22	3	35
Springfield Technical	Year 1	17	1,165	11	304	80	58	37	22	3	35
	Year 2	14	916	7	259	63	48	32	13	2	30
	Year 3	15	806	5	232	57	46	25	15	3	26
	Year 4	16	916	10	246	63	54	32	18	3	30
	Year 5	9	357	0	106	26	23	13	9	2	9
	Year 6	3	185	2	53	10	14	7	1	0	4
Springfield Technical	Year 1	0	6	0	8	15	0	2	0	0	0
	Year 2	0	14	0	14	39	0	3	4	0	0
	Year 3	0	22	0	35	54	0	4	6	0	0
	Year 4	3	63	1	74	130	0	8	15	0	1
	Year 5	1	26	0	55	67	0	8	12	1	1
	Year 6	3	53	0	98	101	0	11	11	2	5
Springfield Technical	Year 7	4	18	0	43	43	0	4	9	0	4

*Includes Group 1–3 (Primary) SSA participants with valid HEIRS ID

Table 10: SSA Participant Gender by Year of Participation*						
SSA Year	Male		Female		Unknown	
	#	%	#	%	#	%
Year 1	474	48%	516	52%	6	1%
Year 2	2,292	47%	2,528	52%	8	0%
Year 3	2,765	48%	2,978	52%	17	0%
Year 4	3,446	46%	3,981	53%	19	0%
Year 5	3,238	46%	3,717	53%	34	0%
Year 6	3,092	47%	3,434	52%	63	1%
Year 7	1,619	51%	1,528	48%	25	1%
Unduplicated Total	13,188	46%	15,184	53%	150	1%

*Includes Group 1–3 (Primary) SSA participants with valid HEIRS ID

Table 10A: SSA Participant Gender by Institution and Year of Participation*							
Institution	SSA Year	Male		Female		Unknown	
		#	%	#	%	#	%
Berkshire	Year 1	16	76%	5	24%	0	0%
	Year 2	55	50%	54	50%	0	0%
	Year 3	61	56%	47	44%	0	0%
	Year 4	60	39%	94	61%	0	0%
	Year 5	121	45%	149	55%	0	0%
	Year 6	104	50%	102	50%	0	0%
	Year 7	33	49%	35	51%	0	0%
Bristol	Year 1	51	61%	32	39%	0	0%
	Year 2	100	62%	62	38%	0	0%
	Year 3	156	63%	90	37%	0	0%
	Year 4	173	58%	124	41%	2	1%
	Year 5	139	55%	108	43%	4	2%
	Year 6	67	51%	63	48%	2	2%
	Year 7	44	47%	49	52%	1	1%
Bunker Hill	Year 1	28	48%	30	52%	0	0%
	Year 2	99	55%	82	45%	0	0%
	Year 3	174	57%	133	43%	0	0%
	Year 4	134	52%	124	48%	0	0%
	Year 5	123	45%	148	55%	0	0%
	Year 6	69	65%	37	35%	0	0%
	Year 7	16	43%	21	57%	0	0%
Cape Cod	Year 1	3	60%	2	40%	0	0%
	Year 2	236	43%	317	57%	0	0%
	Year 3	280	41%	398	59%	1	0%
	Year 4	291	38%	473	62%	0	0%
	Year 5	285	40%	430	60%	2	0%
	Year 6	347	39%	537	60%	8	1%
	Year 7	130	66%	64	32%	3	2%
Greenfield	Year 1	6	43%	8	57%	0	0%
	Year 2	12	50%	12	50%	0	0%
	Year 3	23	37%	38	61%	1	2%
	Year 4	43	56%	34	44%	0	0%
	Year 5	234	50%	227	49%	6	1%
	Year 6	242	49%	241	49%	9	2%
	Year 7	104	56%	76	41%	7	4%

Table 10A: SSA Participant Gender by Institution and Year of Participation*							
Institution	SSA Year	Male		Female		Unknown	
		#	%	#	%	#	%
Holyoke	Year 1	20	36%	33	60%	2	4%
	Year 2	80	38%	132	62%	1	0%
	Year 3	22	42%	31	58%	0	0%
	Year 4	25	46%	29	54%	0	0%
	Year 5	66	54%	56	46%	0	0%
	Year 6	72	47%	77	50%	5	3%
	Year 7	39	52%	33	44%	3	4%
Mass Bay	Year 1	57	61%	35	38%	1	1%
	Year 2	353	52%	318	47%	6	1%
	Year 3	410	56%	313	43%	10	1%
	Year 4	428	59%	291	40%	8	1%
	Year 5	421	58%	289	40%	11	2%
	Year 6	329	66%	154	31%	18	4%
	Year 7	162	67%	77	32%	4	2%
Massasoit	Year 1	24	53%	21	47%	0	0%
	Year 2	522	47%	599	53%	0	0%
	Year 3	493	43%	650	57%	0	0%
	Year 4	660	46%	772	54%	1	0%
	Year 5	555	43%	721	56%	2	0%
	Year 6	439	42%	599	58%	0	0%
	Year 7	313	43%	408	57%	0	0%
Middlesex	Year 1	68	48%	73	52%	0	0%
	Year 2	155	38%	253	62%	0	0%
	Year 3	129	38%	212	62%	0	0%
	Year 4	307	42%	425	58%	0	0%
	Year 5	155	37%	264	63%	0	0%
	Year 6	209	51%	198	49%	0	0%
	Year 7	132	64%	73	36%	0	0%
Mt. Wachusett	Year 1	106	39%	164	60%	3	1%
	Year 2	92	47%	101	52%	1	1%
	Year 3	118	49%	119	49%	5	2%
	Year 4	118	45%	138	52%	8	3%
	Year 5	103	46%	114	51%	6	3%
	Year 6	69	40%	90	52%	14	8%
	Year 7	89	64%	46	33%	5	4%

Table 10A: SSA Participant Gender by Institution and Year of Participation*							
Institution	SSA Year	Male		Female		Unknown	
		#	%	#	%	#	%
North Shore	Year 1	31	56%	24	44%	0	0%
	Year 2	110	53%	97	47%	0	0%
	Year 3	243	46%	280	54%	0	0%
	Year 4	402	44%	518	56%	0	0%
	Year 5	309	54%	262	46%	3	1%
	Year 6	194	50%	186	48%	7	2%
	Year 7	25	45%	29	53%	1	2%
Northern Essex	Year 1	8	50%	8	50%	0	0%
	Year 2	136	33%	281	67%	0	0%
	Year 3	267	52%	244	48%	0	0%
	Year 4	146	41%	211	59%	0	0%
	Year 5	193	43%	254	57%	0	0%
	Year 6	263	46%	309	54%	0	0%
	Year 7	105	47%	120	53%	0	0%
Quinsigamond	Year 1	40	45%	48	55%	0	0%
	Year 2	292	61%	187	39%	0	0%
	Year 3	226	68%	108	32%	0	0%
	Year 4	398	66%	203	34%	0	0%
	Year 5	389	55%	316	45%	0	0%
	Year 6	382	55%	309	45%	0	0%
	Year 7	280	54%	241	46%	0	0%
Roxbury	Year 1	4	22%	14	78%	0	0%
	Year 2	6	67%	3	33%	0	0%
	Year 3	97	27%	260	73%	0	0%
	Year 4	125	24%	386	76%	0	0%
	Year 5	78	22%	275	78%	0	0%
	Year 6	189	34%	365	66%	0	0%
	Year 7	102	37%	176	63%	1	0%
Springfield Technical	Year 1	12	39%	19	61%	0	0%
	Year 2	44	59%	30	41%	0	0%
	Year 3	66	55%	55	45%	0	0%
	Year 4	136	46%	159	54%	0	0%
	Year 5	67	39%	104	61%	0	0%
	Year 6	117	41%	167	59%	0	0%
	Year 7	45	36%	80	64%	0	0%

*Includes Group 1-3 (primary) SSA participants with valid HEIRS ID

Table 11: SSA Participant Age by Year of Participation*					
SSA Year	Traditional age students (under 25 years old)		Non-traditional age students (age 25 or older)		Total
	#	%	#	%	
Year 1	767	77%	229	23%	996
Year 2	3,381	70%	1,446	30%	4,827
Year 3	3,672	64%	2,088	36%	5,760
Year 4	4,822	65%	2,623	35%	7,445
Year 5	4,652	67%	2,327	33%	6,979
Year 6	4,404	67%	2,181	33%	6,585
Year 7	2,287	72%	885	28%	3,172
Unduplicated Total	19,107	67%	9,401	33%	28,508

*Includes Group 1–3 (Primary) SSA participants with valid HEIRS ID

Table 11A: SSA Participant Age by Institution and Year of Participation*						
Institution	SSA Year	Traditional age students (under 25 years old)		Non-traditional age students (age 25 or older)		Total
		#	%	#	%	#
		Berkshire	Year 1	21	100%	0
Year 2	109		100%	0	0%	109
Year 3	101		94%	7	6%	108
Year 4	114		74%	40	26%	154
Year 5	197		73%	73	27%	270
Year 6	144		70%	62	30%	206
Year 7	52		76%	16	24%	68
Bristol	Year 1	57	69%	26	31%	83
	Year 2	120	74%	42	26%	162
	Year 3	176	72%	70	28%	246
	Year 4	204	68%	95	32%	299
	Year 5	168	67%	83	33%	251
	Year 6	69	52%	63	48%	132
	Year 7	60	64%	34	36%	94
Bunker Hill	Year 1	30	52%	28	48%	58
	Year 2	116	64%	65	36%	181
	Year 3	171	56%	136	44%	307
	Year 4	171	66%	87	34%	258
	Year 5	186	70%	79	30%	265
	Year 6	76	72%	30	28%	106
	Year 7	27	73%	10	27%	37
Cape Cod	Year 1	5	100%	0	0%	5
	Year 2	321	58%	231	42%	552
	Year 3	373	55%	306	45%	679
	Year 4	442	58%	322	42%	764
	Year 5	428	60%	287	40%	715
	Year 6	514	58%	375	42%	889
	Year 7	132	67%	65	33%	197
Greenfield	Year 1	14	100%	0	0%	14
	Year 2	24	100%	0	0%	24
	Year 3	46	74%	16	26%	62
	Year 4	53	69%	24	31%	77
	Year 5	332	71%	135	29%	467
	Year 6	354	72%	138	28%	492
	Year 7	124	66%	63	34%	187

Table 11A: SSA Participant Age by Institution and Year of Participation*						
Institution	SSA Year	Traditional age students (under 25 years old)		Non-traditional age students (age 25 or older)		Total
		#	%	#	%	#
Holyoke	Year 1	46	84%	9	16%	55
	Year 2	153	72%	60	28%	213
	Year 3	43	81%	10	19%	53
	Year 4	34	63%	20	37%	54
	Year 5	86	70%	36	30%	122
	Year 6	111	72%	43	28%	154
	Year 7	49	65%	26	35%	75
Mass Bay	Year 1	52	56%	41	44%	93
	Year 2	418	62%	259	38%	677
	Year 3	488	67%	245	33%	733
	Year 4	489	67%	237	33%	726
	Year 5	490	68%	229	32%	719
	Year 6	357	71%	143	29%	500
	Year 7	172	71%	71	29%	243
Massasoit	Year 1	44	98%	1	2%	45
	Year 2	853	76%	268	24%	1,121
	Year 3	774	68%	369	32%	1,143
	Year 4	1,044	73%	389	27%	1,433
	Year 5	961	75%	317	25%	1,278
	Year 6	776	75%	262	25%	1,038
	Year 7	572	79%	149	21%	721
Middlesex	Year 1	84	60%	57	40%	141
	Year 2	232	57%	176	43%	408
	Year 3	210	62%	131	38%	341
	Year 4	418	57%	314	43%	732
	Year 5	285	68%	134	32%	419
	Year 6	288	71%	119	29%	407
	Year 7	151	74%	54	26%	205
Mt. Wachusett	Year 1	241	88%	32	12%	273
	Year 2	190	98%	4	2%	194
	Year 3	236	98%	6	2%	242
	Year 4	256	97%	8	3%	264
	Year 5	205	92%	18	8%	223
	Year 6	158	91%	15	9%	173
	Year 7	122	87%	18	13%	140

Table 11A: SSA Participant Age by Institution and Year of Participation*						
Institution	SSA Year	Traditional age students (under 25 years old)		Non-traditional age students (age 25 or older)		Total
		#	%	#	%	#
		North Shore	Year 1	39	71%	16
Year 2	191		92%	16	8%	207
Year 3	313		60%	210	40%	523
Year 4	615		67%	305	33%	920
Year 5	407		71%	167	29%	574
Year 6	270		70%	117	30%	387
Year 7	39		71%	16	29%	55
Northern Essex	Year 1	16	100%	0	0%	16
	Year 2	275	66%	142	34%	417
	Year 3	323	63%	188	37%	511
	Year 4	209	59%	148	41%	357
	Year 5	258	58%	189	42%	447
	Year 6	370	65%	202	35%	572
	Year 7	141	63%	84	37%	225
Quinsigamond	Year 1	69	78%	19	22%	88
	Year 2	303	63%	176	37%	479
	Year 3	211	63%	123	37%	334
	Year 4	396	66%	205	34%	601
	Year 5	423	60%	282	40%	705
	Year 6	471	68%	220	32%	691
	Year 7	414	79%	107	21%	521
Roxbury	Year 1	18	100%	0	0%	18
	Year 2	8	89%	1	11%	9
	Year 3	94	26%	263	74%	357
	Year 4	149	29%	362	71%	511
	Year 5	111	31%	242	69%	353
	Year 6	253	46%	301	54%	554
	Year 7	158	57%	121	43%	279
Springfield Technical	Year 1	31	100%	0	0%	31
	Year 2	68	92%	6	8%	74
	Year 3	113	93%	8	7%	121
	Year 4	228	77%	67	23%	295
	Year 5	115	67%	56	33%	171
	Year 6	193	68%	91	32%	284
	Year 7	74	59%	51	41%	125

*Includes Group 1–3 (Primary) SSA participants with valid HEIRS ID

Table 12: Fall 2019 Progress and Completion Rates for SSA Participants, by SSA Starting Term*

SSA Year	Term	Earned degree or certificate	Transferred to 4-year institution	Joined STEM workforce	Retained at original CC in Fall 2019	Transferred to 2-year institution	Indeterminate status**	Total trackable participants
Year 1	Spring 2014	39%	9%	0%	3%	3%	45%	346
	Summer 2014	44%	10%	0%	4%	4%	38%	650
Year 2	Fall 2015	35%	12%	0%	5%	4%	44%	2291
	Spring 2015	38%	9%	0%	5%	3%	45%	1707
	Summer 2015	42%	10%	0%	5%	3%	39%	594
Year 3	Fall 2015	37%	12%	0%	8%	3%	41%	1775
	Spring 2016	38%	9%	0%	9%	3%	41%	1964
	Summer 2016	28%	11%	0%	13%	3%	43%	1122
Year 4	Fall 2016	26%	12%	0%	15%	4%	44%	2106
	Spring 2017	33%	10%	0%	16%	3%	38%	2561
	Summer 2017	14%	12%	0%	26%	2%	45%	1002
Year 5	Fall 2017	17%	12%	0%	25%	3%	43%	2157
	Spring 2018	18%	11%	0%	32%	2%	37%	1992
	Summer 2018	7%	6%	0%	49%	1%	36%	1131
Year 6	Fall 2018	6%	7%	0%	50%	2%	35%	2301
	Spring 2019	5%	4%	0%	62%	2%	27%	1919
	Summer 2019	0%	2%	0%	76%	1%	21%	727
Year 7	Fall 2019	0%	0%	0%	99%	0%	1%	2177

*Mutually exclusive outcomes are listed from left to right in order of priority (e.g. "earned degree or certificate" is considered a higher outcome than "transferred to 4-year institution"). Includes only Group 1–3 (Primary) participants with a valid HEIRS ID.

**Indeterminate status indicates students for whom there is no information to indicate that they have achieved one of the other documented outcomes or remain enrolled.

Table 12A: Fall 2019 Progress and Completion Rates for SSA Participants, by Institution and SSA Starting Term*

Institution	SSA Year	Term	Earned degree or certificate		Transferred to 4-year institution		Joined STEM workforce		Retained at original CC in Fall 2019		Transferred to 2-year institution		Indeterminate status**		Total trackable participants
			#	%	#	%	#	%	#	%	#	%	#	%	
Berkshire	Year 1	Spring 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Summer 2014	7	33%	3	14%	0	0%	0	0%	0	0%	11	52%	21
	Year 2	Fall 2014	15	33%	21	46%	0	0%	1	2%	0	0%	9	20%	46
		Spring 2015	3	27%	4	36%	0	0%	0	0%	0	0%	4	36%	11
		Summer 2015	13	42%	2	6%	0	0%	1	3%	2	6%	13	42%	31
	Year 3	Fall 2015	3	15%	11	55%	0	0%	0	0%	1	5%	5	25%	20
		Spring 2016	2	18%	5	45%	0	0%	1	9%	0	0%	3	27%	11
		Summer 2016	6	19%	4	13%	1	3%	7	23%	0	0%	13	42%	31
	Year 4	Fall 2016	1	5%	12	55%	0	0%	4	18%	0	0%	5	23%	22
		Spring 2017	5	36%	0	0%	0	0%	2	14%	0	0%	7	50%	14
		Summer 2017	7	9%	3	4%	1	1%	29	37%	5	6%	34	43%	79
	Year 5	Fall 2017	10	17%	19	32%	0	0%	12	20%	0	0%	18	31%	59
		Spring 2018	20	28%	4	6%	0	0%	26	36%	1	1%	21	29%	72
		Summer 2018	1	1%	1	1%	2	2%	48	59%	2	2%	27	33%	81
	Year 6	Fall 2018	3	8%	11	28%	1	3%	11	28%	0	0%	14	35%	40
		Spring 2019	5	13%	3	8%	0	0%	19	50%	1	3%	10	26%	38
		Summer 2019	0	0%	0	0%	0	0%	47	98%	0	0%	1	2%	48
	Year 7	Fall 2019	0	0%	0	0%	0	0%	11	100%	0	0%	0	0%	11
	Bristol	Year 1	Spring 2014	1	8%	2	15%	0	0%	0	0%	2	15%	8	62%
Summer 2014			44	63%	6	9%	0	0%	2	3%	0	0%	18	26%	70
Year 2		Fall 2014	11	48%	4	17%	0	0%	1	4%	2	9%	5	22%	23
		Spring 2015	28	57%	0	0%	0	0%	0	0%	2	4%	19	39%	49
		Summer 2015	23	42%	3	5%	0	0%	2	4%	0	0%	27	49%	55
Year 3		Fall 2015	5	25%	1	5%	0	0%	4	20%	1	5%	9	45%	20
		Spring 2016	41	54%	4	5%	0	0%	3	4%	1	1%	27	36%	76
		Summer 2016	34	31%	13	12%	0	0%	19	17%	2	2%	41	38%	109
Year 4		Fall 2016	25	45%	8	15%	0	0%	3	5%	0	0%	19	35%	55
		Spring 2017	4	6%	8	12%	0	0%	15	22%	2	3%	40	58%	69
		Summer 2017	16	14%	5	4%	0	0%	36	32%	3	3%	54	47%	114
Year 5		Fall 2017	2	3%	15	25%	0	0%	13	22%	1	2%	28	47%	59
		Spring 2018	19	32%	5	8%	1	2%	16	27%	2	3%	17	28%	60
		Summer 2018	9	12%	4	5%	0	0%	37	49%	2	3%	24	32%	76
Year 6		Fall 2018	6	26%	2	9%	0	0%	7	30%	1	4%	7	30%	23
		Spring 2019	5	14%	3	9%	0	0%	23	66%	0	0%	4	11%	35
		Summer 2019	3	8%	0	0%	0	0%	15	42%	0	0%	18	50%	36
Year 7		Fall 2019	0	0%	0	0%	0	0%	61	97%	0	0%	2	3%	63

Table 12A: Fall 2019 Progress and Completion Rates for SSA Participants, by Institution and SSA Starting Term*

Institution	SSA Year	Term	Earned degree or certificate		Transferred to 4-year institution		Joined STEM workforce		Retained at original CC in Fall 2019		Transferred to 2-year institution		Indeterminate status**		Total trackable participants
			#	%	#	%	#	%	#	%	#	%	#	%	
Bunker Hill	Year 1	Spring 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Summer 2014	18	31%	1	2%	0	0%	6	10%	3	5%	30	52%	58
	Year 2	Fall 2014	1	3%	12	30%	0	0%	1	3%	3	8%	23	58%	40
		Spring 2015	21	24%	16	18%	0	0%	9	10%	3	3%	38	44%	87
		Summer 2015	19	35%	11	20%	0	0%	3	6%	2	4%	19	35%	54
	Year 3	Fall 2015	46	45%	19	19%	0	0%	3	3%	0	0%	34	33%	102
		Spring 2016	38	51%	9	12%	0	0%	3	4%	1	1%	23	31%	74
		Summer 2016	27	23%	16	13%	0	0%	17	14%	4	3%	55	46%	119
	Year 4	Fall 2016	20	57%	9	26%	0	0%	2	6%	0	0%	4	11%	35
		Spring 2017	27	38%	17	24%	0	0%	8	11%	2	3%	17	24%	71
		Summer 2017	13	12%	16	14%	0	0%	37	33%	3	3%	43	38%	112
	Year 5	Fall 2017	10	10%	17	17%	0	0%	18	18%	0	0%	54	55%	99
		Spring 2018	2	3%	6	8%	0	0%	29	41%	1	1%	33	46%	71
		Summer 2018	1	1%	6	6%	0	0%	57	60%	0	0%	31	33%	95
	Year 6	Fall 2018	0	0%	5	50%	0	0%	1	10%	0	0%	4	40%	10
		Spring 2019	0	0%	0	0%	0	0%	16	80%	0	0%	4	20%	20
		Summer 2019	0	0%	0	0%	0	0%	66	92%	1	1%	5	7%	72
Year 7	Fall 2019	0	0%	0	0%	0	0%	22	96%	0	0%	1	4%	23	
Cape Cod	Year 1	Spring 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Summer 2014	4	80%	0	0%	0	0%	1	20%	0	0%	0	0%	5
	Year 2	Fall 2014	154	52%	23	8%	0	0%	14	5%	7	2%	99	33%	297
		Spring 2015	108	56%	24	12%	0	0%	11	6%	2	1%	49	25%	194
		Summer 2015	27	47%	5	9%	0	0%	2	3%	2	3%	22	38%	58
	Year 3	Fall 2015	109	47%	24	10%	0	0%	20	9%	7	3%	71	31%	231
		Spring 2016	97	40%	19	8%	1	0%	26	11%	3	1%	94	39%	240
		Summer 2016	19	38%	7	14%	0	0%	3	6%	1	2%	20	40%	50
	Year 4	Fall 2016	47	45%	6	6%	0	0%	13	13%	3	3%	35	34%	104
		Spring 2017	93	33%	29	10%	0	0%	51	18%	7	3%	98	35%	278
		Summer 2017	7	16%	13	30%	0	0%	10	23%	1	2%	12	28%	43
	Year 5	Fall 2017	54	23%	27	11%	0	0%	67	28%	3	1%	86	36%	237
		Spring 2018	64	30%	25	12%	0	0%	60	28%	1	0%	61	29%	211
		Summer 2018	0	0%	0	0%	0	0%	8	89%	0	0%	1	11%	9
	Year 6	Fall 2018	33	10%	28	9%	0	0%	176	54%	6	2%	82	25%	325
		Spring 2019	19	8%	8	3%	0	0%	143	62%	1	0%	59	26%	230
		Summer 2019	0	0%	2	8%	0	0%	21	81%	0	0%	3	12%	26
Year 7	Fall 2019	0	0%	0	0%	0	0%	99	100%	0	0%	0	0%	99	

Table 12A: Fall 2019 Progress and Completion Rates for SSA Participants, by Institution and SSA Starting Term*

Institution	SSA Year	Term	Earned degree or certificate		Transferred to 4-year institution		Joined STEM workforce		Retained at original CC in Fall 2019		Transferred to 2-year institution		Indeterminate status**		Total trackable participants
			#	%	#	%	#	%	#	%	#	%	#	%	
Greenfield	Year 1	Spring 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Summer 2014	6	43%	1	7%	0	0%	0	0%	1	7%	6	43%	14
	Year 2	Fall 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Spring 2015	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Summer 2015	3	21%	3	21%	0	0%	1	7%	1	7%	6	43%	14
	Year 3	Fall 2015	1	10%	8	80%	0	0%	0	0%	1	10%	0	0%	10
		Spring 2016	15	56%	3	11%	0	0%	1	4%	0	0%	8	30%	27
		Summer 2016	9	36%	3	12%	0	0%	2	8%	1	4%	10	40%	25
	Year 4	Fall 2016	16	67%	2	8%	0	0%	0	0%	0	0%	6	25%	24
		Spring 2017	2	33%	1	17%	0	0%	0	0%	1	17%	2	33%	6
		Summer 2017	4	10%	8	20%	1	2%	11	27%	1	2%	16	39%	41
	Year 5	Fall 2017	55	31%	11	6%	0	0%	53	30%	5	3%	54	30%	178
		Spring 2018	26	14%	11	6%	0	0%	91	48%	4	2%	59	31%	191
		Summer 2018	0	0%	6	11%	0	0%	18	33%	1	2%	30	55%	55
	Year 6	Fall 2018	17	9%	12	6%	0	0%	119	61%	5	3%	41	21%	194
		Spring 2019	8	8%	4	4%	0	0%	79	75%	2	2%	12	11%	105
		Summer 2019	0	0%	0	0%	0	0%	27	52%	1	2%	24	46%	52
Year 7	Fall 2019	0	0%	0	0%	0	0%	102	100%	0	0%	0	0%	102	
Holyoke	Year 1	Spring 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Summer 2014	21	38%	8	15%	0	0%	1	2%	6	11%	19	35%	55
	Year 2	Fall 2014	47	34%	10	7%	0	0%	4	3%	7	5%	70	51%	138
		Spring 2015	6	46%	1	8%	0	0%	0	0%	0	0%	6	46%	13
		Summer 2015	20	43%	4	9%	0	0%	6	13%	3	6%	14	30%	47
	Year 3	Fall 2015	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Spring 2016	3	21%	0	0%	0	0%	1	7%	1	7%	9	64%	14
		Summer 2016	14	37%	3	8%	0	0%	3	8%	3	8%	15	39%	38
	Year 4	Fall 2016	1	10%	2	20%	0	0%	0	0%	1	10%	6	60%	10
		Spring 2017	1	20%	0	0%	0	0%	2	40%	0	0%	2	40%	5
		Summer 2017	4	12%	3	9%	0	0%	14	41%	2	6%	11	32%	34
	Year 5	Fall 2017	19	35%	4	7%	0	0%	12	22%	2	4%	17	31%	54
		Spring 2018	7	23%	3	10%	0	0%	7	23%	2	6%	12	39%	31
		Summer 2018	7	26%	0	0%	0	0%	10	37%	1	4%	9	33%	27
	Year 6	Fall 2018	7	21%	1	3%	0	0%	13	38%	1	3%	12	35%	34
		Spring 2019	7	9%	5	6%	0	0%	39	49%	2	3%	27	34%	80
		Summer 2019	0	0%	0	0%	0	0%	16	73%	1	5%	5	23%	22
Year 7	Fall 2019	0	0%	0	0%	0	0%	57	98%	0	0%	1	2%	58	

Table 12A: Fall 2019 Progress and Completion Rates for SSA Participants, by Institution and SSA Starting Term*

Institution	SSA Year	Term	Earned degree or certificate		Transferred to 4-year institution		Joined STEM workforce		Retained at original CC in Fall 2019		Transferred to 2-year institution		Indeterminate status**		Total trackable participants
			#	%	#	%	#	%	#	%	#	%	#	%	
MassBay	Year 1	Spring 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Summer 2014	42	45%	10	11%	0	0%	5	5%	6	6%	30	32%	93
	Year 2	Fall 2014	119	34%	40	11%	0	0%	12	3%	23	7%	156	45%	350
		Spring 2015	119	46%	27	10%	0	0%	2	1%	14	5%	97	37%	259
		Summer 2015	15	38%	7	18%	0	0%	4	10%	0	0%	14	35%	40
	Year 3	Fall 2015	86	32%	42	16%	0	0%	15	6%	10	4%	113	42%	266
		Spring 2016	52	28%	26	14%	1	1%	16	9%	8	4%	82	44%	185
		Summer 2016	15	20%	8	11%	0	0%	10	13%	2	3%	41	54%	76
	Year 4	Fall 2016	77	25%	55	18%	1	0%	38	13%	12	4%	119	39%	302
		Spring 2017	55	35%	13	8%	0	0%	27	17%	6	4%	54	35%	155
		Summer 2017	2	5%	5	13%	0	0%	16	40%	1	3%	16	40%	40
	Year 5	Fall 2017	31	12%	42	17%	0	0%	58	23%	12	5%	107	43%	250
		Spring 2018	24	13%	30	17%	0	0%	43	24%	4	2%	80	44%	181
		Summer 2018	2	4%	1	2%	1	2%	30	65%	1	2%	11	24%	46
	Year 6	Fall 2018	6	4%	12	8%	0	0%	80	53%	6	4%	47	31%	151
		Spring 2019	4	3%	14	10%	0	0%	89	65%	1	1%	29	21%	137
		Summer 2019	0	0%	0	0%	0	0%	33	94%	0	0%	2	6%	35
	Year 7	Fall 2019	0	0%	0	0%	0	0%	118	100%	0	0%	0	0%	118
	Massasoit	Year 1	Spring 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Summer 2014			14	31%	5	11%	0	0%	1	2%	1	2%	24	53%	45
Year 2		Fall 2014	112	19%	69	12%	0	0%	31	5%	30	5%	349	59%	591
		Spring 2015	123	25%	28	6%	0	0%	29	6%	18	4%	288	59%	486
		Summer 2015	5	31%	3	19%	0	0%	2	13%	0	0%	6	38%	16
Year 3		Fall 2015	93	21%	38	9%	0	0%	39	9%	11	2%	260	59%	441
		Spring 2016	91	18%	32	6%	0	0%	57	11%	30	6%	302	59%	512
		Summer 2016	12	29%	7	17%	0	0%	3	7%	2	5%	17	41%	41
Year 4		Fall 2016	60	9%	63	10%	1	0%	114	18%	36	6%	373	58%	647
		Spring 2017	38	9%	35	9%	0	0%	77	19%	11	3%	241	60%	402
		Summer 2017	7	9%	8	10%	1	1%	10	12%	0	0%	55	68%	81
Year 5		Fall 2017	21	4%	42	7%	1	0%	165	29%	31	5%	311	54%	571
		Spring 2018	15	5%	17	6%	0	0%	88	32%	7	3%	150	54%	277
		Summer 2018	3	4%	2	3%	1	1%	38	57%	0	0%	23	34%	67
Year 6		Fall 2018	7	1%	19	4%	0	0%	229	48%	9	2%	216	45%	480
		Spring 2019	2	1%	7	3%	0	0%	164	59%	4	1%	101	36%	278
		Summer 2019	0	0%	0	0%	0	0%	15	88%	0	0%	2	12%	17
Year 7		Fall 2019	0	0%	0	0%	0	0%	537	100%	0	0%	0	0%	537

Table 12A: Fall 2019 Progress and Completion Rates for SSA Participants, by Institution and SSA Starting Term*

Institution	SSA Year	Term	Earned degree or certificate		Transferred to 4-year institution		Joined STEM workforce		Retained at original CC in Fall 2019		Transferred to 2-year institution		Indeterminate status**		Total trackable participants
			#	%	#	%	#	%	#	%	#	%	#	%	
Middlesex	Year 1	Spring 2014	72	72%	6	6%	0	0%	2	2%	1	1%	19	19%	100
		Summer 2014	24	59%	3	7%	0	0%	3	7%	1	2%	10	24%	41
	Year 2	Fall 2014	98	66%	14	9%	0	0%	3	2%	1	1%	33	22%	149
		Spring 2015	72	62%	6	5%	0	0%	4	3%	4	3%	30	26%	116
		Summer 2015	62	58%	4	4%	0	0%	4	4%	1	1%	36	34%	107
	Year 3	Fall 2015	69	64%	6	6%	0	0%	9	8%	5	5%	18	17%	107
		Spring 2016	51	60%	7	8%	0	0%	6	7%	1	1%	20	24%	85
		Summer 2016	31	40%	15	19%	0	0%	12	16%	2	3%	17	22%	77
	Year 4	Fall 2016	48	64%	10	13%	1	1%	5	7%	0	0%	11	15%	75
		Spring 2017	219	49%	31	7%	1	0%	63	14%	5	1%	125	28%	444
		Summer 2017	23	31%	8	11%	0	0%	17	23%	1	1%	26	35%	75
	Year 5	Fall 2017	42	48%	3	3%	0	0%	12	14%	2	2%	28	32%	87
		Spring 2018	34	21%	31	19%	0	0%	51	32%	4	2%	41	25%	161
		Summer 2018	5	16%	8	26%	0	0%	14	45%	0	0%	4	13%	31
	Year 6	Fall 2018	22	14%	15	9%	0	0%	76	47%	2	1%	46	29%	161
		Spring 2019	6	5%	10	9%	0	0%	82	71%	0	0%	18	16%	116
		Summer 2019	0	0%	3	9%	0	0%	29	85%	0	0%	2	6%	34
	Year 7	Fall 2019	0	0%	0	0%	0	0%	145	100%	0	0%	0	0%	145
	Mt. Wachusett	Year 1	Spring 2014	35	22%	16	10%	0	0%	7	4%	5	3%	95	60%
Summer 2014			60	52%	15	13%	0	0%	1	1%	4	3%	35	30%	115
Year 2		Fall 2014	13	12%	23	22%	0	0%	15	14%	3	3%	52	49%	106
		Spring 2015	12	17%	6	8%	0	0%	2	3%	1	1%	50	70%	71
		Summer 2015	6	75%	1	13%	0	0%	0	0%	0	0%	1	13%	8
Year 3		Fall 2015	22	16%	16	12%	0	0%	26	19%	4	3%	67	50%	135
		Spring 2016	8	24%	7	21%	0	0%	2	6%	0	0%	16	48%	33
		Summer 2016	17	28%	10	16%	0	0%	5	8%	1	2%	28	46%	61
Year 4		Fall 2016	14	9%	17	11%	0	0%	34	23%	3	2%	81	54%	149
		Spring 2017	5	13%	7	18%	0	0%	9	24%	1	3%	16	42%	38
		Summer 2017	7	11%	11	17%	0	0%	10	16%	0	0%	35	56%	63
Year 5		Fall 2017	8	10%	28	34%	0	0%	15	18%	0	0%	31	38%	82
		Spring 2018	0	0%	10	37%	0	0%	4	15%	0	0%	13	48%	27
		Summer 2018	0	0%	1	2%	0	0%	23	55%	0	0%	18	43%	42
Year 6		Fall 2018	0	0%	11	17%	0	0%	24	38%	0	0%	29	45%	64
		Spring 2019	0	0%	0	0%	0	0%	3	50%	0	0%	3	50%	6
		Summer 2019	0	0%	0	0%	0	0%	36	97%	0	0%	1	3%	37
Year 7		Fall 2019	0	0%	0	0%	0	0%	119	100%	0	0%	0	0%	119

Table 12A: Fall 2019 Progress and Completion Rates for SSA Participants, by Institution and SSA Starting Term*

Institution	SSA Year	Term	Earned degree or certificate		Transferred to 4-year institution		Joined STEM workforce		Retained at original CC in Fall 2019		Transferred to 2-year institution		Indeterminate status**		Total trackable participants
			#	%	#	%	#	%	#	%	#	%	#	%	
North Shore	Year 1	Spring 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Summer 2014	11	20%	5	9%	0	0%	3	5%	0	0%	36	65%	55
	Year 2	Fall 2014	7	15%	15	32%	0	0%	4	9%	1	2%	20	43%	47
		Spring 2015	9	9%	11	11%	0	0%	4	4%	2	2%	70	73%	96
		Summer 2015	13	22%	6	10%	0	0%	2	3%	2	3%	37	62%	60
	Year 3	Fall 2015	137	52%	26	10%	0	0%	9	3%	7	3%	85	32%	264
		Spring 2016	85	47%	23	13%	0	0%	15	8%	6	3%	53	29%	182
		Summer 2016	15	25%	1	2%	0	0%	9	15%	2	3%	33	55%	60
	Year 4	Fall 2016	51	32%	15	9%	0	0%	20	13%	5	3%	67	42%	158
		Spring 2017	169	36%	49	11%	0	0%	65	14%	8	2%	173	37%	464
		Summer 2017	19	13%	22	15%	0	0%	25	17%	3	2%	76	52%	145
	Year 5	Fall 2017	23	24%	12	13%	0	0%	19	20%	2	2%	38	40%	94
		Spring 2018	41	17%	28	12%	0	0%	68	28%	6	3%	97	40%	240
		Summer 2018	2	2%	7	6%	0	0%	31	28%	0	0%	71	64%	111
	Year 6	Fall 2018	4	9%	6	14%	0	0%	20	45%	1	2%	13	30%	44
		Spring 2019	3	2%	6	3%	0	0%	112	63%	2	1%	56	31%	179
		Summer 2019	0	0%	2	2%	0	0%	34	40%	0	0%	48	57%	84
Year 7	Fall 2019	0	0%	0	0%	0	0%	37	90%	0	0%	4	10%	41	
Northern Essex	Year 1	Spring 2014	2	100%	0	0%	0	0%	0	0%	0	0%	0	0%	2
		Summer 2014	2	14%	2	14%	0	0%	2	14%	1	7%	7	50%	14
	Year 2	Fall 2014	54	23%	23	10%	0	0%	14	6%	18	8%	123	53%	232
		Spring 2015	43	42%	11	11%	0	0%	4	4%	5	5%	39	38%	102
		Summer 2015	37	46%	3	4%	0	0%	3	4%	4	5%	33	41%	80
	Year 3	Fall 2015	42	67%	4	6%	0	0%	1	2%	2	3%	14	22%	63
		Spring 2016	84	44%	17	9%	0	0%	13	7%	3	2%	75	39%	192
		Summer 2016	41	18%	20	9%	1	0%	37	16%	12	5%	119	52%	230
	Year 4	Fall 2016	28	28%	6	6%	0	0%	16	16%	4	4%	45	45%	99
		Spring 2017	50	46%	7	6%	0	0%	15	14%	6	6%	31	28%	109
		Summer 2017	21	24%	5	6%	0	0%	18	21%	3	3%	39	45%	86
	Year 5	Fall 2017	26	21%	10	8%	0	0%	38	30%	9	7%	42	34%	125
		Spring 2018	24	15%	15	9%	0	0%	57	35%	4	2%	61	38%	161
		Summer 2018	10	20%	6	12%	0	0%	19	39%	1	2%	13	27%	49
	Year 6	Fall 2018	14	6%	10	4%	0	0%	124	55%	1	0%	78	34%	227
		Spring 2019	10	6%	3	2%	0	0%	112	65%	3	2%	43	25%	171
		Summer 2019	0	0%	3	12%	0	0%	19	76%	0	0%	3	12%	25
Year 7	Fall 2019	0	0%	0	0%	0	0%	137	100%	0	0%	0	0%	137	

Table 12A: Fall 2019 Progress and Completion Rates for SSA Participants, by Institution and SSA Starting Term*

Institution	SSA Year	Term	Earned degree or certificate		Transferred to 4-year institution		Joined STEM workforce		Retained at original CC in Fall 2019		Transferred to 2-year institution		Indeterminate status**		Total trackable participants	
			#	%	#	%	#	%	#	%	#	%	#	%		
Quinsigamond	Year 1	Spring 2014	25	45%	5	9%	0	0%	0	0%	0	0%	26	46%	56	
		Summer 2014	13	41%	2	6%	0	0%	2	6%	1	3%	14	44%	32	
	Year 2	Fall 2014	163	62%	20	8%	0	0%	14	5%	3	1%	61	23%	261	
		Spring 2015	95	45%	17	8%	0	0%	16	8%	4	2%	81	38%	213	
		Summer 2015	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	
	Year 3	Fall 2015	33	42%	7	9%	0	0%	6	8%	2	3%	31	39%	79	
		Spring 2016	35	63%	7	13%	0	0%	2	4%	0	0%	12	21%	56	
		Summer 2016	48	42%	11	10%	0	0%	11	10%	0	0%	43	38%	113	
	Year 4	Fall 2016	51	31%	24	15%	0	0%	23	14%	6	4%	58	36%	162	
		Spring 2017	89	33%	36	13%	0	0%	46	17%	4	1%	94	35%	269	
		Summer 2017	3	11%	4	14%	0	0%	9	32%	0	0%	12	43%	28	
	Year 5	Fall 2017	39	48%	6	7%	0	0%	14	17%	0	0%	22	27%	81	
		Spring 2018	57	32%	25	14%	0	0%	49	27%	0	0%	49	27%	180	
		Summer 2018	33	10%	24	7%	1	0%	170	49%	4	1%	115	33%	347	
	Year 6	Fall 2018	8	4%	9	4%	0	0%	125	58%	2	1%	72	33%	216	
		Spring 2019	7	3%	9	4%	0	0%	144	69%	3	1%	47	22%	210	
		Summer 2019	0	0%	4	3%	0	0%	112	82%	0	0%	21	15%	137	
	Year 7	Fall 2019	0	0%	0	0%	0	0%	404	99%	0	0%	3	1%	407	
	Roxbury	Year 1	Spring 2014	1	6%	2	12%	0	0%	1	6%	4	24%	9	53%	17
			Summer 2014	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	1
		Year 2	Fall 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
Spring 2015			0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	
Summer 2015			0	0%	2	100%	0	0%	0	0%	0	0%	0	0%	2	
Year 3		Fall 2015	4	13%	5	16%	1	3%	6	19%	2	6%	14	44%	32	
		Spring 2016	138	51%	21	8%	0	0%	26	10%	9	3%	75	28%	269	
		Summer 2016	21	39%	6	11%	1	2%	6	11%	3	6%	17	31%	54	
Year 4		Fall 2016	80	34%	21	9%	0	0%	39	17%	15	6%	80	34%	235	
		Spring 2017	51	38%	12	9%	2	1%	15	11%	11	8%	45	33%	136	
		Summer 2017	2	12%	1	6%	0	0%	2	12%	1	6%	11	65%	17	
Year 5		Fall 2017	23	13%	15	9%	0	0%	45	26%	8	5%	83	48%	174	
		Spring 2018	5	10%	2	4%	0	0%	19	38%	1	2%	23	46%	50	
		Summer 2018	5	16%	1	3%	0	0%	12	38%	1	3%	13	41%	32	
Year 6		Fall 2018	11	4%	12	4%	0	0%	105	39%	15	6%	126	47%	269	
		Spring 2019	5	3%	4	2%	0	0%	92	49%	9	5%	79	42%	189	
		Summer 2019	0	0%	1	3%	0	0%	22	59%	0	0%	14	38%	37	
Year 7		Fall 2019	0	0%	0	0%	0	0%	227	100%	0	0%	0	0%	227	

Table 12A: Fall 2019 Progress and Completion Rates for SSA Participants, by Institution and SSA Starting Term*

Institution	SSA Year	Term	Earned degree or certificate		Transferred to 4-year institution		Joined STEM workforce		Retained at original CC in Fall 2019		Transferred to 2-year institution		Indeterminate status**		Total trackable participants
			#	%	#	%	#	%	#	%	#	%	#	%	
Springfield Technical	Year 1	Spring 2014	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0
		Summer 2014	18	58%	3	10%	0	0%	0	0%	5	16%	5	16%	31
	Year 2	Fall 2014	9	82%	1	9%	0	0%	0	0%	0	0%	1	9%	11
		Spring 2015	8	80%	0	0%	0	0%	0	0%	1	10%	1	10%	10
		Summer 2015	9	41%	3	14%	0	0%	1	5%	3	14%	6	27%	22
	Year 3	Fall 2015	4	80%	0	0%	0	0%	0	0%	1	20%	0	0%	5
		Spring 2016	4	50%	0	0%	0	0%	0	0%	2	25%	2	25%	8
		Summer 2016	10	26%	2	5%	1	3%	5	13%	3	8%	17	45%	38
	Year 4	Fall 2016	19	66%	1	3%	0	0%	1	3%	0	0%	8	28%	29
		Spring 2017	43	43%	8	8%	3	3%	17	17%	4	4%	26	26%	101
		Summer 2017	8	18%	7	16%	0	0%	14	32%	0	0%	15	34%	44
	Year 5	Fall 2017	2	29%	0	0%	0	0%	0	0%	0	0%	5	71%	7
		Spring 2018	22	28%	8	10%	4	5%	23	29%	5	6%	17	22%	79
		Summer 2018	6	10%	3	5%	0	0%	42	67%	0	0%	12	19%	63
	Year 6	Fall 2018	10	16%	6	10%	1	2%	29	46%	2	3%	15	24%	63
		Spring 2019	22	18%	6	5%	0	0%	74	59%	1	1%	22	18%	125
		Summer 2019	0	0%	1	2%	0	0%	58	89%	2	3%	4	6%	65
	Year 7	Fall 2019	0	0%	0	0%	0	0%	90	100%	0	0%	0	0%	90

*Mutually exclusive outcomes are listed from left to right in order of priority (e.g. "earned degree or certificate" is considered a higher outcome than "transferred to 4-year institution"). Includes only Group 1–3 (Primary) participants with a valid HEIRS ID.

**Indeterminate status indicates students for whom there is no information to indicate that they have achieved one of the other documented outcomes or remain enrolled.

Table 13: Fall to Fall Retention of Full-Time, First-Time Degree Seeking Students (SSA Participants and Community College Students)*			
	Number of full-time, first-time degree seeking students	Retained to following fall at institution	
		#	%
Fall 2014 to Fall 2015			
SSA	625	331	53%
All students	9,745	5,468	56%
Fall 2015 to Fall 2016			
SSA	448	235	52%
All students	8,784	4,931	56%
Fall 2016 to Fall 2017			
SSA	600	316	53%
All students	8,174	4,579	56%
Fall 2017 to Fall 2018			
SSA	547	305	56%
All students	7,931	4,453	56%
Fall 2018 to Fall 2019			
SSA	565	343	61%
All students	7,427	4,200	57%

*SSA Participants include Group 1–3 (Primary) SSA participants with valid HEIRS ID who first participated in SSA as full time, first time degree seeking students and were enrolled in community college in the given fall term (e.g. enrolled in Fall 2014 for "Fall 2014 to Fall 2015" retention).

Table 13A: Fall to Fall Retention of Full Time, First Time Degree Seeking Students (SSA Participants and Community College Students) by Institution*

Institution	Student type	Retained to following fall at institution									
		Fall 2014 to Fall 2015		Fall 2015 to Fall 2016		Fall 2016 to Fall 2017		Fall 2017 to Fall 2018		Fall 2018 to Fall 2019	
		#	%	#	%	#	%	#	%	#	%
Berkshire	SSA	0	0%	0	0%	1	100%	6	50%	1	50%
	All students	111	53%	118	58%	76	56%	81	54%	43	46%
Bristol	SSA	1	33%	2	40%	13	76%	0	0%	1	100%
	All students	695	60%	661	61%	655	60%	552	59%	496	59%
Bunker Hill	SSA	6	55%	7	70%	1	100%	0	0%	0	0%
	All students	682	60%	434	61%	615	64%	620	61%	642	59%
Cape Cod	SSA	29	66%	37	73%	1	100%	27	49%	38	78%
	All students	150	50%	146	49%	103	48%	100	38%	133	59%
Greenfield	SSA	0	0%	0	0%	1	100%	16	76%	39	81%
	All students	90	60%	84	57%	43	47%	43	61%	62	62%
Holyoke	SSA	26	67%	0	0%	0	0%	3	50%	6	75%
	All students	529	58%	476	52%	453	57%	428	57%	380	58%
Mass Bay	SSA	51	59%	48	55%	57	64%	44	52%	21	64%
	All students	257	50%	275	56%	244	54%	241	51%	239	54%
Massasoit	SSA	151	52%	90	58%	168	57%	158	56%	115	54%
	All students	538	55%	492	58%	507	59%	457	60%	390	56%
Middlesex	SSA	15	71%	5	56%	7	100%	3	60%	15	63%
	All students	582	60%	557	60%	460	59%	458	59%	396	57%
Mt. Wachusett	SSA	0	0%	0	0%	1	1%	2	22%	0	0%
	All students	196	48%	182	43%	185	42%	151	55%	175	53%
North Shore	SSA	0	0%	22	65%	14	58%	12	60%	6	86%
	All students	319	53%	331	57%	281	56%	323	60%	296	56%
Northern Essex	SSA	38	58%	6	100%	11	65%	18	72%	36	71%
	All students	336	55%	329	54%	275	54%	276	51%	258	56%
Quinsigamond	SSA	14	64%	15	83%	28	52%	6	100%	30	79%
	All students	420	53%	382	52%	354	50%	352	54%	308	58%
Roxbury	SSA	0	0%	3	60%	9	60%	10	50%	34	40%
	All students	46	37%	32	48%	19	35%	30	36%	56	35%
Springfield Technical	SSA	0	0%	0	0%	4	100%	0	0%	1	50%
	All students	517	60%	432	58%	309	55%	341	53%	326	57%

*SSA Participants include Group 1–3 (Primary) SSA participants with valid HEIRS ID who first participated in SSA as full time, first time degree seeking students and were enrolled in community college in the given fall term (e.g. enrolled in Fall 2014 for "Fall 2014 to Fall 2015" retention).

Table 14: Student Status at Point of Entry to SSA by Year of First Participation*

SSA Year	New to institution										Dual-enrolled**	Continuing		Total		
	First-time freshmen		Transfer		Re-admitted/ re-activated		Non-degree		Seeking another degree			#	%	#	%	
	#	%	#	%	#	%										
Year 1	239	24%	28	3%	41	4%	62	6%	0	0%	202	20%	424	43%	996	100%
Year 2	1,118	24%	177	4%	115	3%	108	2%	5	0%	308	7%	2,761	60%	4,592	100%
Year 3	1,203	25%	243	5%	154	3%	112	2%	2	0%	227	5%	2,920	60%	4,861	100%
Year 4	1,428	25%	323	6%	166	3%	166	3%	2	0%	325	6%	3,259	57%	5,669	100%
Year 5	1,319	25%	322	6%	194	4%	181	3%	8	0%	587	11%	2,669	51%	5,280	100%
Year 6	1,315	27%	403	8%	245	5%	130	3%	5	0%	380	8%	2,469	50%	4,947	100%
Year 7	965	44%	217	10%	88	4%	43	2%	3	0%	95	4%	766	35%	2,177	100%
Total	7,587	27%	1,713	6%	1,003	4%	802	3%	25	0%	2,124	7%	15,268	54%	28,522	100%

*Includes Group 1–3 (Primary) participants with valid HEIRS ID.

**All dual-enrolled students, some of whom are continuing and some of whom are new to the institution.

Table 14A: Student Status at Point of Entry to SSA by Year of First Participation and Institution*

Institution	SSA Year	New to institution					Dual-enrolled**	Continuing	Total
		First-time freshmen	Transfer	Re-admitted/ re-activated	Non-degree	Seeking another degree			
Berkshire	Year 1	20	0	1	0	0	0	0	21
	Year 2	30	0	0	0	0	48	10	88
	Year 3	21	1	2	2	0	29	7	62
	Year 4	67	6	7	0	0	23	12	115
	Year 5	93	9	7	3	0	35	65	212
	Year 6	43	8	7	2	0	33	33	126
	Year 7	7	1	0	0	0	0	3	11
Bristol	Year 1	3	0	0	37	0	1	42	83
	Year 2	17	8	2	37	0	2	61	127
	Year 3	23	6	3	47	0	3	123	205
	Year 4	45	4	5	77	0	8	99	238
	Year 5	19	8	6	82	3	4	73	195
	Year 6	6	4	1	6	1	12	64	94
	Year 7	11	4	2	1	0	0	45	63
Bunker Hill	Year 1	3	2	0	0	0	0	53	58
	Year 2	21	12	1	1	0	0	146	181
	Year 3	16	14	1	3	0	0	261	295
	Year 4	10	8	1	12	0	2	185	218
	Year 5	3	8	7	2	0	108	137	265
	Year 6	13	1	0	2	0	12	74	102
	Year 7	2	0	0	0	0	0	21	23
Cape Cod	Year 1	5	0	0	0	0	0	0	5
	Year 2	73	27	31	14	0	13	391	549
	Year 3	90	14	33	21	0	18	345	521
	Year 4	22	8	24	7	0	28	336	425
	Year 5	91	33	28	17	0	24	264	457
	Year 6	119	67	61	42	0	36	256	581
	Year 7	35	27	9	2	0	9	17	99
Greenfield	Year 1	5	1	1	1	0	6	0	14
	Year 2	3	0	3	1	0	7	0	14
	Year 3	5	1	5	0	0	29	22	62
	Year 4	10	1	2	1	0	28	29	71
	Year 5	74	24	24	4	0	68	230	424
	Year 6	88	31	28	12	0	74	118	351
	Year 7	35	14	7	4	0	8	34	102
Holyoke	Year 1	11	3	2	5	0	30	4	55
	Year 2	75	15	11	0	0	6	91	198
	Year 3	23	0	1	0	0	12	16	52
	Year 4	11	3	7	2	0	5	21	49
	Year 5	11	4	8	1	2	19	67	112
	Year 6	17	6	2	3	0	46	62	136
	Year 7	15	2	2	1	0	5	33	58
Mass Bay	Year 1	18	4	1	6	0	2	62	93
	Year 2	137	16	3	10	0	4	479	649
	Year 3	199	16	3	10	0	9	290	527
	Year 4	154	32	14	17	0	11	269	497
	Year 5	180	24	9	23	0	29	212	477
	Year 6	79	30	4	8	0	28	174	323
	Year 7	46	15	3	3	0	10	41	118
Massasoit	Year 1	30	0	0	1	0	11	3	45
	Year 2	394	33	11	14	1	14	626	1,093
	Year 3	389	74	1	14	0	8	508	994
	Year 4	615	85	5	17	2	56	350	1,130
	Year 5	491	66	0	12	1	64	281	915
	Year 6	422	90	0	12	2	2	247	775
	Year 7	368	51	4	17	2	2	93	537

Table 14A: Student Status at Point of Entry to SSA by Year of First Participation and Institution*

Institution	SSA Year	New to institution					Dual-enrolled**	Continuing	Total
		First-time freshmen	Transfer	Re-admitted/re-activated	Non-degree	Seeking another degree			
Middlesex	Year 1	17	4	2	1	0	3	114	141
	Year 2	48	18	4	3	0	8	291	372
	Year 3	16	17	1	1	0	19	215	269
	Year 4	23	27	4	4	0	10	526	594
	Year 5	11	11	1	2	0	74	180	279
	Year 6	40	20	3	3	0	23	222	311
	Year 7	38	17	1	1	0	4	84	145
Mt. Wachusett	Year 1	85	9	8	3	0	117	51	273
	Year 2	102	6	2	1	0	59	15	185
	Year 3	129	9	3	2	0	66	20	229
	Year 4	150	18	1	4	0	61	16	250
	Year 5	33	6	3	1	0	89	19	151
	Year 6	23	0	1	19	0	44	20	107
	Year 7	33	4	1	4	0	36	41	119
North Shore	Year 1	7	0	1	0	0	30	17	55
	Year 2	25	9	2	5	0	141	21	203
	Year 3	67	34	22	2	0	24	357	506
	Year 4	65	48	13	8	0	77	556	767
	Year 5	62	36	7	13	0	65	262	445
	Year 6	28	25	11	1	0	60	182	307
	Year 7	19	5	2	0	0	1	14	41
Northern Essex	Year 1	13	0	1	0	0	0	2	16
	Year 2	121	18	32	8	0	1	234	414
	Year 3	136	45	54	5	0	2	243	485
	Year 4	65	14	31	3	0	4	177	294
	Year 5	51	19	48	4	0	3	210	335
	Year 6	91	26	58	1	0	0	247	423
	Year 7	32	16	27	0	0	14	48	137
Quinsigamond	Year 1	19	2	4	2	0	0	61	88
	Year 2	51	14	13	13	4	5	374	474
	Year 3	42	8	4	4	2	5	183	248
	Year 4	117	25	6	8	0	9	294	459
	Year 5	120	37	17	13	0	3	418	608
	Year 6	84	37	13	6	0	1	422	563
	Year 7	186	28	10	5	0	4	174	407
Roxbury	Year 1	0	0	1	6	0	1	10	18
	Year 2	1	0	0	0	0	0	1	2
	Year 3	19	3	21	1	0	1	310	355
	Year 4	40	34	42	2	0	3	267	388
	Year 5	46	29	26	1	0	2	152	256
	Year 6	222	45	50	2	0	7	169	495
	Year 7	117	26	12	3	0	0	69	227
Springfield Technical	Year 1	3	3	19	0	0	1	5	31
	Year 2	20	1	0	1	0	0	21	43
	Year 3	28	1	0	0	0	2	20	51
	Year 4	34	10	4	4	0	0	122	174
	Year 5	34	8	3	3	2	0	99	149
	Year 6	40	13	6	11	2	2	179	253
	Year 7	21	7	8	2	1	2	49	90

*Includes Group 1-3 (Primary) participants with valid HEIRS ID.

**All dual-enrolled students, some of whom are continuing and some of whom are new to the institution.

Table 15: Number of SSA Participants Earning Degrees and Certificates by Year of First Participation*			
SSA Year	Total trackable SSA participants	Students earning any degree or certificate	Students earning a STEM degree or certificate
Year 1	996	422	269
Year 2	4,592	1,702	924
Year 3	4,861	1,717	996
Year 4	5,669	1,532	948
Year 5	5,280	809	458
Year 6	4,947	254	129
Year 7	2,177	0	0
Total	28,522	6,436	3,724

*Includes Group 1–3 (Primary) participants with valid HEIRS ID. Degrees and certificates are included in counts if earned at any institution after students' first SSA participation.

**Table 15A: Number of SSA Students Earning Degrees and Certificates,
by Institution and Year of First Participation***

Institution	SSA Year	Total trackable SSA participants	Number of students who earned degrees or certificates	Number of students who earned STEM degrees or certificates
Berkshire	Year 1	21	7	3
	Year 2	88	31	15
	Year 3	62	11	8
	Year 4	115	13	11
	Year 5	212	31	19
	Year 6	126	8	4
	Year 7	11	0	0
Bristol	Year 1	83	45	34
	Year 2	127	62	48
	Year 3	205	80	54
	Year 4	238	45	27
	Year 5	195	30	16
	Year 6	94	14	8
	Year 7	63	0	0
Bunker Hill	Year 1	58	18	7
	Year 2	181	41	26
	Year 3	295	111	86
	Year 4	218	60	48
	Year 5	265	13	10
	Year 6	102	0	0
	Year 7	23	0	0
Cape Cod	Year 1	5	4	3
	Year 2	549	289	114
	Year 3	521	225	71
	Year 4	425	147	48
	Year 5	457	118	61
	Year 6	581	52	17
	Year 7	99	0	0
Greenfield	Year 1	14	6	4
	Year 2	14	3	1
	Year 3	62	25	14
	Year 4	71	22	17
	Year 5	424	81	21
	Year 6	351	25	8
	Year 7	102	0	0

**Table 15A: Number of SSA Students Earning Degrees and Certificates,
by Institution and Year of First Participation***

Institution	SSA Year	Total trackable SSA participants	Number of students who earned degrees or certificates	Number of students who earned STEM degrees or certificates
Holyoke	Year 1	55	21	8
	Year 2	198	73	13
	Year 3	52	17	6
	Year 4	49	6	3
	Year 5	112	33	15
	Year 6	136	14	6
	Year 7	58	0	0
Mass Bay	Year 1	93	42	26
	Year 2	649	253	156
	Year 3	527	153	95
	Year 4	497	134	74
	Year 5	477	57	36
	Year 6	323	10	9
	Year 7	118	0	0
Massasoit	Year 1	45	14	6
	Year 2	1,093	240	65
	Year 3	994	196	72
	Year 4	1,130	105	35
	Year 5	915	39	18
	Year 6	775	9	4
	Year 7	537	0	0
Middlesex	Year 1	141	97	77
	Year 2	372	232	164
	Year 3	269	151	109
	Year 4	594	290	207
	Year 5	279	81	49
	Year 6	311	28	19
	Year 7	145	0	0
Mt. Wachusett	Year 1	273	95	65
	Year 2	185	31	13
	Year 3	229	47	26
	Year 4	250	26	11
	Year 5	151	8	3
	Year 6	107	0	0
	Year 7	119	0	0

Table 15A: Number of SSA Students Earning Degrees and Certificates, by Institution and Year of First Participation*				
Institution	SSA Year	Total trackable SSA participants	Number of students who earned degrees or certificates	Number of students who earned STEM degrees or certificates
North Shore	Year 1	55	11	4
	Year 2	203	29	12
	Year 3	506	237	149
	Year 4	767	239	138
	Year 5	445	66	45
	Year 6	307	7	2
	Year 7	41	0	0
Northern Essex	Year 1	16	4	3
	Year 2	414	134	96
	Year 3	485	167	106
	Year 4	294	99	84
	Year 5	335	60	53
	Year 6	423	24	23
	Year 7	137	0	0
Quinsigamond	Year 1	88	39	18
	Year 2	474	258	180
	Year 3	248	116	80
	Year 4	459	143	115
	Year 5	608	129	84
	Year 6	563	15	8
	Year 7	407	0	0
Roxbury	Year 1	18	1	0
	Year 2	2	0	0
	Year 3	355	163	107
	Year 4	388	133	80
	Year 5	256	33	11
	Year 6	495	16	3
	Year 7	227	0	0
Springfield Technical	Year 1	31	18	11
	Year 2	43	26	21
	Year 3	51	18	13
	Year 4	174	70	50
	Year 5	149	30	17
	Year 6	253	32	18
	Year 7	90	0	0

*Includes Group 1–3 (Primary) participants with valid HEIRS ID. Degrees and certificates are included in counts if earned at any institution after students' first SSA participation.

Table 16: Annual Number of STEM Degrees and Certificates Earned by All Community College Students*						
Institution	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Berkshire	185	234	220	217	241	249
Bristol	551	549	582	681	636	615
Bunker Hill	726	801	874	897	891	998
Cape Cod	365	279	330	295	334	302
Greenfield	169	167	182	214	167	224
Holyoke	367	364	383	467	469	459
Mass Bay	475	471	437	504	511	548
Massasoit	511	464	443	580	562	517
Middlesex	594	693	682	737	764	782
MWCC	475	525	471	459	478	504
North Shore	597	611	614	600	666	608
Northern Essex	705	656	625	633	601	607
QCC	622	642	759	770	922	877
Roxbury	188	183	213	235	239	211
Springfield Technical	708	734	648	695	707	694
Total (all sites)	7,238	7,373	7,463	7,984	8,188	8,195

*Includes all STEM degrees and certificates awarded at any institution after students' initial enrollment at the given community college (for students' first HEIRS record only). Degrees and certificates are not limited to one per student.

Table 16A: Annual Number of Degrees and Certificates (Both STEM and Non-STEM) Earned by All Community College Students*						
Institution	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Berkshire	488	526	514	530	571	564
Bristol	2,040	2,270	2,275	2,485	2,454	2,332
Bunker Hill	1,894	2,052	2,315	2,541	2,460	2,643
Cape Cod	856	796	966	861	963	947
Greenfield	494	556	529	602	483	580
Holyoke	1,463	1,472	1,564	1,571	1,607	1,581
Mass Bay	947	988	1,018	1,218	1,209	1,222
Massasoit	1,458	1,422	1,426	1,679	1,651	1,641
Middlesex	1,783	2,048	2,145	2,129	2,193	2,241
MWCC	953	1,042	996	1,003	1,059	1,159
North Shore	1,536	1,564	1,735	1,651	1,766	1,663
Northern Essex	1,435	1,494	1,445	1,498	1,450	1,489
QCC	1,586	1,655	1,935	1,971	2,261	2,213
Roxbury	386	409	414	487	455	456
Springfield Technical	1,284	1,350	1,325	1,395	1,410	1,438
Total (all sites)	18,603	19,644	20,602	21,621	21,992	22,169

*Includes all degrees and certificates awarded at any institution after students' initial enrollment at the given community college (for students' first HEIRS record only). Degrees and certificates are not limited to one per student.

Table 16B: Annual Percentages of Degrees and Certificates Earned by All Community College Students in STEM Fields*						
Institution	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Berkshire	38%	44%	43%	41%	42%	44%
Bristol	27%	24%	26%	27%	26%	26%
Bunker Hill	38%	39%	38%	35%	36%	38%
Cape Cod	43%	35%	34%	34%	35%	32%
Greenfield	34%	30%	34%	36%	35%	39%
Holyoke	25%	25%	24%	30%	29%	29%
Mass Bay	50%	48%	43%	41%	42%	45%
Massasoit	35%	33%	31%	35%	34%	32%
Middlesex	33%	34%	32%	35%	35%	35%
MWCC	50%	50%	47%	46%	45%	43%
North Shore	39%	39%	35%	36%	38%	37%
Northern Essex	49%	44%	43%	42%	41%	41%
QCC	39%	39%	39%	39%	41%	40%
Roxbury	49%	45%	51%	48%	53%	46%
Springfield Technical	55%	54%	49%	50%	50%	48%
All sites	39%	38%	36%	37%	37%	37%

*Includes all STEM degrees and certificates awarded at any institution after students' initial enrollment at the given community college (for students' first HEIRS record only). Degrees and certificates are not limited to one per student.

**Table 17: Students Achieving Positive Outcomes 1 to 5 Years After Entry
SSA Participants vs. Non-SSA, by Subgroup†**

(Sub)group	1 year after entry				2 years after entry				3 years after entry			
	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval
		SSA	Non-SSA			SSA	Non-SSA			SSA	Non-SSA	
All students	1.71***	67%	57%	[1.44, 2.02]	1.76***	58%	45%	[1.49, 2.08]	1.52**	52%	41%	[1.19, 1.95]
STEM at entry	1.72***	68%	56%	[1.50, 1.96]	1.81***	59%	45%	[1.53, 2.15]	1.56**	53%	41%	[1.20, 2.04]
Not STEM at entry	1.71***	67%	57%	[1.30, 2.25]	1.73***	56%	46%	[1.41, 2.11]	1.48**	51%	42%	[1.11, 1.96]
College math ready	1.79***	77%	67%	[1.54, 2.08]	1.99***	70%	56%	[1.51, 2.61]	1.69**	63%	54%	[1.14, 2.51]
Not college math ready	1.67***	63%	54%	[1.36, 2.04]	1.65***	52%	42%	[1.43, 1.91]	1.45**	47%	38%	[1.16, 1.80]
SSA Aid	1.64***	70%	57%	[1.38, 1.95]	1.94***	62%	46%	[1.56, 2.41]	1.86***	59%	41%	[1.47, 2.36]
SSA Extra Support	1.80***	69%	57%	[1.44, 2.26]	1.90***	60%	45%	[1.50, 2.41]	1.81***	55%	41%	[1.41, 2.31]
SSA Counseling	1.96***	71%	57%	[1.72, 2.22]	2.01***	63%	45%	[1.65, 2.46]	1.69***	57%	41%	[1.28, 2.25]
Black	1.89***	64%	54%	[1.46, 2.44]	2.24***	60%	43%	[1.53, 3.28]	2.14**	57%	38%	[1.28, 3.56]
Asian	1.13	69%	63%	[0.90, 1.41]	Insufficient Sample				Insufficient Sample			
Latinx	1.58***	61%	51%	[1.34, 1.86]	1.67***	51%	38%	[1.35, 2.07]	1.40	44%	34%	[0.96, 2.04]
White	1.67***	71%	60%	[1.33, 2.11]	1.75***	61%	49%	[1.34, 2.29]	1.47**	54%	45%	[1.17, 1.86]
Men	1.72***	66%	54%	[1.44, 2.05]	1.86***	57%	42%	[1.52, 2.27]	1.59**	50%	38%	[1.13, 2.23]
Women	1.69***	69%	59%	[1.35, 2.13]	1.66***	59%	48%	[1.33, 2.08]	1.45***	54%	44%	[1.21, 1.73]

†First-time students, registered at their institutions in a fall term, and enrolled either full or part time. SSA participants include those who first participated in SSA in summer or fall. Positive outcome includes retained, completed, transferred to 4-year, or joined the STEM workforce. Statistically significant results from quasi-experimental modeling are indicated with asterisks (*p < .05, **p < .01, ***p < .001).

Table 17: Students Achieving Positive Outcomes 1 to 5 Years After Entry SSA Participants vs. Non-SSA, by Subgroup†								
(Sub)group	4 years after entry				5 years after entry			
	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval
		SSA	Non-SSA			SSA	Non-SSA	
All students	1.49**	52%	41%	[1.14, 1.93]	1.57***	54%	41%	[1.24, 1.98]
STEM at entry	1.64**	54%	40%	[1.16, 2.33]	2.00***	60%	41%	[1.55, 2.60]
Not STEM at entry	1.36*	49%	41%	[1.05, 1.76]	1.19	47%	41%	[0.86, 1.63]
College math ready	1.72**	65%	54%	[1.21, 2.46]	2.23***	68%	54%	[1.61, 3.11]
Not college math ready	1.42**	46%	37%	[1.14, 1.78]	1.45***	48%	38%	[1.23, 1.72]
SSA Aid	1.98***	58%	41%	[1.37, 2.87]	1.91**	60%	41%	[1.30, 2.79]
SSA Extra Support	1.67***	53%	41%	[1.26, 2.22]	1.65**	53%	41%	[1.24, 2.19]
SSA Counseling	1.63**	55%	41%	[1.17, 2.26]	1.62*	57%	41%	[1.10, 2.39]
Black	Insufficient Sample				Insufficient Sample			
Asian	Insufficient Sample				Insufficient Sample			
Latinx	1.23	39%	34%	[0.88, 1.73]	1.33	41%	34%	[0.89, 1.99]
White	1.54*	57%	45%	[1.11, 2.13]	1.69**	60%	46%	[1.25, 2.27]
Men	1.62*	50%	37%	[1.09, 2.41]	1.97***	53%	37%	[1.48, 2.62]
Women	1.36**	54%	44%	[1.12, 1.65]	1.22	54%	45%	[0.96, 1.56]

†First-time students, registered at their institutions in a fall term, and enrolled either full or part time. SSA participants include those who first participated in SSA in summer or fall. Positive outcome includes retained, completed, transferred to 4-year, or joined the STEM workforce. Statistically significant results from quasi-experimental modeling are indicated with asterisks (*p < .05, **p < .01, ***p < .001).

**Table 17A: Students Achieving Positive Outcomes 1 to 5 Years After Entry
SSA Participants vs. Non-SSA, by Institution†**

(Sub)group	1 year after entry				2 years after entry				3 years after entry			
	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval
		SSA	Non-SSA			SSA	Non-SSA			SSA	Non-SSA	
All institutions	1.71***	67%	57%	[1.44, 2.02]	1.76***	58%	45%	[1.49, 2.08]	1.52**	52%	41%	[1.19, 1.95]
Berkshire	1.28	64%	56%	[0.93, 1.77]	1.50*	58%	46%	[1.04, 2.17]	1.58	52%	43%	[0.90, 2.78]
Bristol	1.89**	70%	59%	[1.19, 2.99]	2.04**	61%	46%	[1.29, 3.23]	3.09***	64%	41%	[1.76, 5.40]
Bunker Hill	1.43	72%	61%	[0.75, 2.70]	1.37	62%	50%	[0.75, 2.48]	1.87	63%	45%	[0.95, 3.65]
Cape Cod	2.68***	73%	48%	[2.05, 3.49]	2.95***	65%	37%	[2.19, 3.97]	2.54***	59%	34%	[1.75, 3.68]
Greenfield	3.25***	83%	56%	[2.00, 5.27]	1.97*	64%	43%	[1.10, 3.53]	Insufficient Sample			
Holyoke	1.54*	62%	56%	[1.07, 2.21]	1.94**	53%	44%	[1.33, 2.83]	1.62*	46%	40%	[1.07, 2.48]
Massasoit	1.06	57%	59%	[0.94, 1.19]	0.97	45%	49%	[0.85, 1.11]	0.91	38%	45%	[0.78, 1.07]
MassBay	1.35**	64%	56%	[1.13, 1.62]	1.52***	56%	45%	[1.26, 1.84]	1.20	50%	44%	[0.96, 1.51]
Middlesex	1.78**	76%	59%	[1.15, 2.75]	2.71***	74%	47%	[1.61, 4.55]	3.54***	77%	43%	[1.97, 6.37]
Mount Wachusett	2.51***	78%	56%	[1.93, 3.27]	1.49**	58%	46%	[1.17, 1.90]	1.01	44%	41%	[0.79, 1.31]
North Shore	1.38	65%	58%	[0.99, 1.93]	1.58*	57%	46%	[1.12, 2.24]	2.52***	63%	41%	[1.67, 3.80]
Northern Essex	1.47**	61%	52%	[1.18, 1.84]	1.60***	50%	40%	[1.26, 2.03]	1.36*	43%	38%	[1.04, 1.78]
Quinsigamond	1.57***	69%	56%	[1.24, 2.00]	1.97***	63%	46%	[1.44, 2.69]	1.98***	60%	42%	[1.43, 2.74]
Roxbury	1.89***	52%	39%	[1.37, 2.61]	3.22***	54%	30%	[1.95, 5.33]	3.22**	49%	29%	[1.60, 6.48]
Springfield Technical	1.80**	74%	58%	[1.16, 2.79]	1.45	60%	44%	[0.88, 2.39]	1.45	57%	40%	[0.78, 2.71]

†First-time students, registered at their institutions in a fall term, and enrolled either full or part time. SSA participants include those who first participated in SSA in summer or fall. Positive outcome includes retained, completed, transferred to 4-year, or joined the STEM workforce. Statistically significant results from quasi-experimental modeling are indicated with asterisks (*p < .05, **p < .01, ***p < .001).

Table 17A: Students Achieving Positive Outcomes 1 to 5 Years After Entry SSA Participants vs. Non-SSA, by Institution†								
(Sub)group	4 years after entry				5 years after entry			
	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval
		SSA	Non-SSA			SSA	Non-SSA	
All institutions	1.49**	52%	41%	[1.14, 1.93]	1.57***	54%	41%	[1.24, 1.98]
Berkshire	1.80	48%	41%	[0.90, 3.63]	Insufficient Sample			
Bristol	Insufficient Sample				Insufficient Sample			
Bunker Hill	1.36	52%	44%	[0.68, 2.71]	Insufficient Sample			
Cape Cod	2.90***	63%	35%	[1.92, 4.36]	3.01***	65%	37%	[1.63, 5.57]
Greenfield	Insufficient Sample				Insufficient Sample			
Holyoke	1.64*	42%	40%	[1.02, 2.64]	1.69	44%	41%	[0.98, 2.90]
Massasoit	0.88	37%	45%	[0.72, 1.08]	0.82	39%	46%	[0.63, 1.08]
MassBay	1.28	50%	44%	[0.96, 1.71]	1.71**	55%	41%	[1.14, 2.55]
Middlesex	4.76***	80%	41%	[2.38, 9.52]	6.85***	88%	43%	[2.32, 20.21]
Mount Wachusett	1.08	46%	41%	[0.78, 1.50]	1.36	50%	41%	[0.85, 2.18]
North Shore	2.03**	57%	41%	[1.24, 3.30]	Insufficient Sample			
Northern Essex	1.25	38%	37%	[0.86, 1.84]	1.31	40%	39%	[0.86, 2.01]
Quinsigamond	1.73*	57%	41%	[1.10, 2.70]	2.24*	65%	41%	[1.21, 4.15]
Roxbury	Insufficient Sample				Insufficient Sample			
Springfield Technical	Insufficient Sample				Insufficient Sample			

†First-time students, registered at their institutions in a fall term, and enrolled either full or part time. SSA participants include those who first participated in SSA in summer or fall. Positive outcome includes retained, completed, transferred to 4-year, or joined the STEM workforce. Statistically significant results from quasi-experimental modeling are indicated with asterisks (*p < .05, **p < .01, ***p < .001).

**Table 18: Students Earning STEM Degrees or Certificates 2 to 5 Years After Entry
SSA Participants vs. Non-SSA, by Subgroup†**

(Sub)group	2 years after entry				3 years after entry				4 years after entry				5 years after entry			
	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval
		SSA	Non-SSA			SSA	Non-SSA			SSA	Non-SSA			SSA	Non-SSA	
All students	1.04	4%	2%	[0.67, 1.61]	1.29	10%	5%	[0.89, 1.85]	1.25	14%	7%	[0.82, 1.91]	1.22	17%	9%	[0.79, 1.90]
STEM at entry	1.11	7%	7%	[0.70, 1.75]	1.37	17%	14%	[0.92, 2.04]	1.32	23%	20%	[0.88, 2.00]	1.40	26%	23%	[0.92, 2.13]
Not STEM at entry	1.58	1%	0%	[0.38, 6.62]	1.46	1%	1%	[0.60, 3.58]	1.43	3%	3%	[0.59, 3.46]	0.85	5%	4%	[0.28, 2.53]
College math ready	1.81**	7%	3%	[1.19, 2.73]	1.80*	14%	6%	[1.10, 2.93]	2.03**	19%	10%	[1.21, 3.42]	1.95*	29%	14%	[1.16, 3.28]
Not college math ready	0.49	3%	2%	[0.18, 1.33]	1.02	8%	4%	[0.58, 1.81]	0.96	12%	6%	[0.54, 1.73]	0.84	11%	7%	[0.52, 1.36]
SSA Aid	1.15	6%	2%	[0.79, 1.69]	1.47*	16%	5%	[1.03, 2.09]	1.67	20%	7%	[0.97, 2.88]	1.28	22%	9%	[0.78, 2.08]
SSA Extra Support	1.05	4%	2%	[0.56, 1.98]	1.48	12%	5%	[0.93, 2.36]	1.41	14%	7%	[0.86, 2.30]	1.27	15%	9%	[0.77, 2.09]
SSA Counseling	1.34	6%	2%	[0.90, 2.01]	1.57*	14%	5%	[1.05, 2.33]	1.56	18%	7%	[0.93, 2.60]	1.45	21%	9%	[0.78, 2.71]
Black	1.83	4%	2%	[0.66, 5.08]	1.92*	11%	3%	[1.14, 3.24]	Insufficient Sample				Insufficient Sample			
Asian	Insufficient Sample				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Latinx	1.02	3%	1%	[0.58, 1.78]	1.30	8%	4%	[0.63, 2.64]	1.08	9%	5%	[0.47, 2.49]	Insufficient Sample			
White	0.91	4%	3%	[0.51, 1.63]	1.07	11%	5%	[0.77, 1.49]	1.05	14%	8%	[0.69, 1.62]	0.91	15%	10%	[0.53, 1.56]
Men	1.07	5%	3%	[0.53, 2.16]	1.24	11%	5%	[0.70, 2.19]	1.41	16%	7%	[0.79, 2.53]	1.76	18%	8%	[0.93, 3.35]
Women	1.10	3%	2%	[0.71, 1.71]	1.43	9%	4%	[0.92, 2.22]	1.05	12%	7%	[0.73, 1.53]	0.86	14%	9%	[0.60, 1.23]

†First-time students, registered at their institutions in a fall term, and enrolled full time. SSA participants include those who first participated in SSA in summer or fall. Statistically significant results from quasi-experimental modeling are indicated with asterisks (*p < .05, **p < .01, ***p < .001).

**Table 18A: Students Earning STEM Degrees or Certificates 2 to 5 Years After Entry
SSA Participants vs. Non-SSA, by Institution†**

(Sub)group	2 years after entry				3 years after entry				4 years after entry				5 years after entry			
	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval
		SSA	Non-SSA			SSA	Non-SSA			SSA	Non-SSA			SSA	Non-SSA	
All institutions	1.04	4%	2%	[0.67, 1.61]	1.29	10%	5%	[0.89, 1.85]	1.25	14%	7%	[0.82, 1.91]	1.22	17%	9%	[0.79, 1.90]
Berkshire	3.07*	6%	2%	[1.10, 8.62]	1.97	17%	5%	[0.74, 5.24]	2.46	21%	8%	[0.81, 7.52]	Insufficient Sample			
Bristol	0.91	2%	1%	[0.13, 6.48]	3.36*	15%	3%	[1.27, 8.94]	Insufficient Sample				Insufficient Sample			
Bunker Hill	1.82	8%	2%	[0.51, 6.52]	1.02	9%	5%	[0.27, 3.81]	Insufficient Sample				Insufficient Sample			
Cape Cod	DID NOT CONVERGE				2.79	5%	1%	[0.82, 9.49]	2.14	8%	1%	[0.67, 6.82]	3.23	13%	3%	[0.92, 11.30]
Greenfield	2.17	5%	1%	[0.35, 13.35]	Insufficient Sample				Insufficient Sample				Insufficient Sample			
Holyoke	1.50	3%	1%	[0.35, 6.53]	1.62	6%	5%	[0.51, 5.15]	1.23	6%	7%	[0.32, 4.75]	0.93	5%	9%	[0.18, 4.77]
Massasoit	1.17	1%	2%	[0.58, 2.37]	1.15	3%	5%	[0.67, 1.97]	1.16	4%	7%	[0.67, 2.01]	1.32	6%	9%	[0.71, 2.45]
MassBay	0.43**	3%	5%	[0.23, 0.78]	0.70	10%	9%	[0.44, 1.12]	0.84	12%	10%	[0.49, 1.44]	0.90	15%	10%	[0.45, 1.79]
Middlesex	3.18*	9%	1%	[1.18, 8.59]	6.55***	23%	2%	[3.13, 13.74]	6.75***	33%	4%	[3.23, 14.10]	5.12***	50%	7%	[2.06, 12.73]
Mount Wachusett	0.97	3%	3%	[0.43, 2.16]	0.79	7%	7%	[0.43, 1.44]	0.72	10%	11%	[0.37, 1.37]	0.61	15%	15%	[0.28, 1.33]
North Shore	3.41**	8%	2%	[1.37, 8.48]	2.21	11%	4%	[0.91, 5.34]	1.75	16%	5%	[0.84, 3.66]	Insufficient Sample			
Northern Essex	2.33*	4%	1%	[1.04, 5.21]	2.15*	11%	3%	[1.17, 3.95]	2.11	15%	7%	[0.84, 5.29]	1.27	15%	9%	[0.54, 3.02]
Quinsigamond	1.19	6%	3%	[0.54, 2.65]	2.07*	12%	4%	[1.04, 4.10]	2.80**	23%	6%	[1.33, 5.87]	2.26	29%	9%	[0.97, 5.26]
Roxbury	DROPPED SSA PT				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Springfield Technical	0.81	9%	6%	[0.33, 1.96]	1.07	24%	12%	[0.51, 2.25]	Insufficient Sample				Insufficient Sample			

†First-time students, registered at their institutions in a fall term, and enrolled full time. SSA participants include those who first participated in SSA in summer or fall. Statistically significant results from quasi-experimental modeling are indicated with asterisks (*p < .05, **p < .01, ***p < .001).

**Table 19: Students Achieving Positive Outcomes 1 to 5 Years After Entry
Summer SSA Participants vs. Non-SSA, by Institution†**

(Sub)group	1 year after entry				2 years after entry				3 years after entry			
	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval
		SSA	Non-SSA			SSA	Non-SSA			SSA	Non-SSA	
All institutions	1.52***	67%	57%	[1.30, 1.77]	1.89***	61%	45%	[1.57, 2.27]	1.67***	54%	41%	[1.35, 2.05]
Berkshire	1.29	64%	56%	[0.92, 1.80]	1.52*	57%	46%	[1.03, 2.25]	1.55	52%	43%	[0.88, 2.75]
Bristol	2.21*	71%	59%	[1.20, 4.06]	1.96*	56%	46%	[1.07, 3.60]	Insufficient Sample			
Bunker Hill	Insufficient Sample				Insufficient Sample				Insufficient Sample			
Cape Cod	6.82***	82%	48%	[3.17, 14.68]	6.68***	75%	37%	[3.11, 14.34]	Insufficient Sample			
Greenfield	Insufficient Sample				Insufficient Sample				Insufficient Sample			
Holyoke	2.11*	68%	56%	[1.17, 3.80]	3.90***	68%	44%	[2.11, 7.23]	1.60	49%	40%	[0.79, 3.22]
Massasoit	1.40	67%	59%	[0.81, 2.42]	1.60	63%	49%	[0.92, 2.80]	1.88*	61%	45%	[1.01, 3.50]
MassBay	1.59*	67%	56%	[1.02, 2.46]	1.58	57%	45%	[0.98, 2.55]	1.05	46%	44%	[0.59, 1.88]
Middlesex	3.16**	81%	59%	[1.54, 6.46]	4.96***	79%	47%	[2.38, 10.33]	5.04***	77%	43%	[2.34, 10.89]
Mount Wachusett	1.06	68%	56%	[0.63, 1.78]	1.29	63%	46%	[0.73, 2.29]	1.87	65%	41%	[0.96, 3.66]
North Shore	1.20	59%	58%	[0.64, 2.26]	1.25	47%	46%	[0.61, 2.56]	Insufficient Sample			
Northern Essex	1.33	60%	52%	[0.94, 1.87]	1.76**	54%	40%	[1.24, 2.49]	1.46	45%	38%	[0.99, 2.15]
Quinsigamond	1.40	66%	56%	[0.95, 2.08]	Insufficient Sample				Insufficient Sample			
Roxbury	Insufficient Sample				Insufficient Sample				Insufficient Sample			
Springfield Technical	1.61*	73%	58%	[1.01, 2.58]	1.57	63%	44%	[0.92, 2.68]	1.55	60%	40%	[0.79, 3.06]

†First-time students, registered at their institutions in a fall term, and enrolled either full or part time. SSA participants include those who first participated in SSA in summer. Positive outcome includes retained, completed, transferred to 4-year, or joined the STEM workforce. Statistically significant results from quasi-experimental modeling are indicated with asterisks (*p < .05, **p < .01, ***p < .001).

Table 19: Students Achieving Positive Outcomes 1 to 5 Years After Entry Summer SSA Participants vs. Non-SSA, by Institution†								
(Sub)group	4 years after entry				5 years after entry			
	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval
		SSA	Non-SSA			SSA	Non-SSA	
All institutions	2.09***	59%	41%	[1.39, 3.15]	2.19**	64%	41%	[1.26, 3.80]
Berkshire	Insufficient Sample				Insufficient Sample			
Bristol	Insufficient Sample				Insufficient Sample			
Bunker Hill	Insufficient Sample				Insufficient Sample			
Cape Cod	Insufficient Sample				Insufficient Sample			
Greenfield	Insufficient Sample				Insufficient Sample			
Holyoke	Insufficient Sample				Insufficient Sample			
Massasoit	Insufficient Sample				Insufficient Sample			
MassBay	Insufficient Sample				Insufficient Sample			
Middlesex	Insufficient Sample				Insufficient Sample			
Mount Wachusett	Insufficient Sample				Insufficient Sample			
North Shore	Insufficient Sample				Insufficient Sample			
Northern Essex	Insufficient Sample				Insufficient Sample			
Quinsigamond	Insufficient Sample				Insufficient Sample			
Roxbury	Insufficient Sample				Insufficient Sample			
Springfield Technical	Insufficient Sample				Insufficient Sample			

†First-time students, registered at their institutions in a fall term, and enrolled either full or part time. SSA participants include those who first participated in SSA in summer. Positive outcome includes retained, completed, transferred to 4-year, or joined the STEM workforce. Statistically significant results from quasi-experimental modeling are indicated with asterisks (*p < .05, **p < .01, ***p < .001).

**Table 20: Students Earning STEM Degrees or Certificates 2 to 5 Years After Entry
Summer SSA Participants vs. Non-SSA, by Institution†**

(Sub)group	2 years after entry				3 years after entry				4 years after entry				5 years after entry			
	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval	Odds ratio	Unweighted % achieved		95% confidence interval
		SSA	Non-SSA			SSA	Non-SSA			SSA	Non-SSA			SSA	Non-SSA	
All institutions	1.46	7%	2%	[0.91, 2.36]	1.62*	16%	5%	[1.04, 2.51]	1.81	25%	7%	[1.00, 3.28]	1.33	28%	9%	[0.73, 2.42]
Berkshire	3.17*	5%	2%	[1.07, 9.41]	1.75	16%	5%	[0.65, 4.77]	Insufficient Sample				Insufficient Sample			
Bristol	Insufficient Sample				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Bunker Hill	Insufficient Sample				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Cape Cod	DID NOT CONVERGE				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Greenfield	Insufficient Sample				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Holyoke	Insufficient Sample				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Massasoit	DID NOT CONVERGE				15.61***	11%	5%	[3.35, 72.76]	Insufficient Sample				Insufficient Sample			
MassBay	0.39	4%	5%	[0.10, 1.61]	0.86	16%	9%	[0.33, 2.20]	Insufficient Sample				Insufficient Sample			
Middlesex	Insufficient Sample				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Mount Wachusett	1.85	12%	3%	[0.67, 5.10]	2.11	28%	7%	[0.90, 4.93]	Insufficient Sample				Insufficient Sample			
North Shore	Insufficient Sample				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Northern Essex	2.09	3%	1%	[0.57, 7.60]	1.46	7%	3%	[0.56, 3.84]	Insufficient Sample				Insufficient Sample			
Quinsigamond	Insufficient Sample				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Roxbury	Insufficient Sample				Insufficient Sample				Insufficient Sample				Insufficient Sample			
Springfield Technical	0.84	10%	6%	[0.34, 2.07]	0.87	22%	12%	[0.38, 1.97]	Insufficient Sample				Insufficient Sample			

†First-time students, registered at their institutions in a fall term, and enrolled full time. SSA participants include those who first participated in SSA in summer. Statistically significant results from quasi-experimental modeling are indicated with asterisks (*p < .05, **p < .01, ***p < .001).