

ECAR Study of Faculty and Technology, 2015

Appalachian State University Benchmarking Report

Survey area of interest	Appalachian State	MA public institutions	All IIS institutions
	146	· ·	
Teaching and learning			
Research and scholarship	103	1301	6164
	69.1%	57.3%	51.1%
Total respondent count	149	2269	12070

Full or part time	Appalachian State University	MA public institutions	All US institutions
Full-time faculty member	131	1806	8656
Full-time faculty member	87.9%	79.6%	71.7%
Part time faculty member	18	450	3345
Part-time faculty member	12.1%	19.8%	27.7%
Emeritus faculty member	0	13	69
Emeritus faculty member	0.0%	0.6%	0.6%
Total respondent count	149	2269	12070
(Percentages sum to 100%)	100.0%	100.0%	100.0%

Survey version	Appalachian State University	MA public institutions	All US institutions
Take the shorter (10-minute) version	115	1621	8765
	77.2%	71.4%	72.6%
Take the langer (up to 20 minute) version	34	648	3305
Take the longer (up to 30-minute) version	22.8%	28.6%	27.4%
Total respondent count (Percentages sum to 100%)	149	2269	12070
	100.0%	100.0%	100.0%

1.1. Years of experience		Appalachian State University	MA public institutions	All US institutions
	Mean	13.4	12.3	12.8
Full-time faculty position	SD	9.1	9.9	10.8
	N	135	1983	10046
	Mean	4.8	5.2	6.0
Part-time faculty position	SD	5.9	5.9	6.4
	N	67	1242	7196
	Mean	14.5	13.7	14.2
Any faculty position	SD	9.5	10.0	10.8
	N	148	2260	12035

1.2. Do you work with	Appalachian State		
	l l	1 1	

	University	MA public institutions	All US institutions
Undergraduate students	141	2054	10078
Ondergraduate students	94.6%	91.0%	83.9%
Graduate students	58	825	4881
Graduate students	38.9%	36.5%	40.6%
Professional students	8	156	1541
Professional students	5.4%	6.9%	12.8%
I don't typically work directly with students.	1	18	177
	0.7%	0.8%	1.5%
Total respondent count	149	2258	12019

1.3. Tenure status	Appalachian State University	MA public institutions	All US institutions
Tenured	82	1012	4275
Tenureu	63.1%	56.4%	49.7%
Not tenured, but on a tenure track	29	456	1622
Not tenured, but on a tenure track	22.3%	25.4%	18.9%
Not on a tenure track (ongoing appointment)	12	167	1694
Not on a tenure track (ongoing appointment)	9.2%	9.3%	19.7%
Not on a tenure track (fixed-term appointment)	7	160	1011
Not on a tenure track (fixed-term appointment)	5.4%	8.9%	11.8%
Total respondent count	130	1795	8602
(Percentages sum to 100%)	100.0%	100.0%	100.0%

1.4. Academic rank	Appalachian State University	MA public institutions	All US institutions
Emeritus faculty	0	1	3
Emericae labulty	0.0%	0.1%	0.0%
Professor	40	499	2485
110103301	31.0%	27.8%	28.8%
Associate professor	41	504	2158
Additional profession	31.8%	28.1%	25.0%
Assistant professor	30	507	1994
Assistant professor	23.3%	28.2%	23.1%
Clinical professor	0	8	79
Cililical professor	0.0%	0.4%	0.9%
Instructor	3	108	906
man deter	2.3%	6.0%	10.5%
Senior lecturer	0	0	0
Sellioi lecturei	0.0%	0.0%	0.0%
Qualifying post	0	0	0
Qualifying post	0.0%	0.0%	0.0%
Lecturer	10	130	490
Lecturer	7.8%	7.2%	5.7%
Research associate	0	0	0
Research associate	0.0%	0.0%	0.0%
Passarah mrafassar	0	0	0
Research professor	0.0%	0.0%	0.0%
Other; please specify	5	38	436
Other; please specify	3.9%	2.1%	5.1%
No condemin reals	0	1	64
No academic rank	0.0%	0.1%	0.7%

Total respondent count	129	1796	8615
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.1. Own: Desktop	Appalachian State University	MA public institutions	All US institutions
No, and I don't plan to purchase one	32	590	3018
No, and ruon t plan to purchase one	23.7%	28.3%	27.1%
No but I plan to purchase one	3	27	136
No, but I plan to purchase one	2.2%	1.3%	1.2%
Yes, I currently own one (or more)	100	1468	8002
res, i currently own one (or more)	74.1%	70.4%	71.7%
Total respondent count	135	2085	11156
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.1. Own: Laptop	Appalachian State University	MA public institutions	All US institutions
No, and I don't plan to purchase one	16	195	871
No, and ruon t plan to purchase one	11.2%	8.8%	7.4%
No but I plan to purchase one	2	43	195
No, but I plan to purchase one	1.4%	1.9%	1.7%
Yes, I currently own one (or more)	125	1969	10692
res, i currently own one (or more)	87.4%	89.2%	90.9%
Total respondent count	143	2207	11758
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.1. Own: Tablet	Appalachian State University	MA public institutions	All US institutions
No and I don't plan to purchase one	29	408	2189
No, and I don't plan to purchase one	21.5%	20.1%	20.4%
No but I plan to purchase one	6	111	577
No, but I plan to purchase one	4.4%	5.5%	5.4%
Voc. Lourrently own one (or more)	100	1515	7990
Yes, I currently own one (or more)	74.1%	74.5%	74.3%
Total respondent count	135	2034	10756
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.1. Own: Smartphone	Appalachian State University	MA public institutions	All US institutions
No. of the last of	20	248	1219
No, and I don't plan to purchase one	14.2%	11.5%	10.6%
No. but I plan to purchase one	11	80	315
No, but I plan to purchase one	7.8%	3.7%	2.7%
Voc. Lourrently own one (or more)	110	1820	9950
Yes, I currently own one (or more)	78.0%	84.7%	86.6%
Total respondent count (Percentages sum to 100%)	141	2148	11484
	100.0%	100.0%	100.0%

2.1. Own: Wearable technology	Appalachian State University	MA public institutions	All US institutions
No and I don't alon to assumb and an	21	349	1772
No, and I don't plan to purchase one	72.4%	68.2%	67.6%
No, but I plan to purchase one	3	36	229
No, but I plan to purchase one	10.3%	7.0%	8.7%

Yes, I currently own one (or more)	5	127	620
	17.2%	24.8%	23.7%
Total respondent count	29	512	2621
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.1. Own: Internet-connected gaming device	Appalachian State University	MA public institutions	All US institutions
No. of Helician Committee	24	342	1792
No, and I don't plan to purchase one	88.9%	66.8%	67.9%
No. but I plan to purple and a	0	2	26
No, but I plan to purchase one	0.0%	0.4%	1.0%
Yes, I currently own one (or more)	3	168	823
res, i currently own one (or more)	11.1%	32.8%	31.2%
Total respondent count	27	512	2641
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.2. Required to own or provided with desktop	Appalachian State University	MA public institutions	All US institutions
Book to the control to divide	1	17	169
Required to own by institution	3.1%	2.9%	5.6%
Provided by institution	25	403	1720
Provided by institution	78.1%	68.4%	56.6%
Neither required to own nor provided	6	175	1183
	18.8%	29.7%	38.9%
Total respondent count	32	589	3040

2.2. Required to own or provided with laptop	Appalachian State		
	University	MA public institutions	All US institutions
Required to own by institution	0	9	151
Required to own by institution	0.0%	1.5%	4.9%
Provided by institution	21	348	1474
Provided by institution	65.6%	58.9%	47.7%
Neither required to own nor provided	11	236	1486
	34.4%	39.9%	48.1%
Total respondent count	32	591	3088

2.2. Required to own or provided with tablet	Appalachian State University	MA public institutions	All US institutions
Dominal to any his in attention	0	2	17
Required to own by institution	0.0%	0.4%	0.6%
Provided by institution	14	145	495
	45.2%	26.2%	17.3%
Neither required to own nor provided	17	409	2350
	54.8%	73.8%	82.2%
Total respondent count	31	554	2858

2.2. Required to own or provided with smartphone	Appalachian State University	MA public institutions	All US institutions
Required to own by institution	0	6	41
	0.0%	1.1%	1.5%
Provided by institution	0	2	51
	0.0%	0.4%	1.8%

Neither required to own nor provided	29	517	2698
	100.0%	98.5%	96.7%
Total respondent count	29	525	2789

2.3. Experiences: Classroom-based technology resources	Appalachian State	MA public institutions	All US institutions
	3	52	249
Poor	8.8%	8.1%	7.5%
Fair	3	101	479
Fair	8.8%	15.7%	14.5%
Neutral	2	70	376
Neutrai	5.9%	10.9%	11.4%
Good	19	269	1294
Good	55.9%	41.9%	39.2%
Excellent	5	131	623
Excellent	14.7%	20.4%	18.9%
N/A	2	19	280
IVA	5.9%	3.0%	8.5%
Total respondent count (Percentages sum to 100%)		642	3301
	100.0%	100.0%	100.0%

2.3. Experiences: Laboratory or research-based technology resources	Appalachian State University	MA public institutions	All US institutions
P	2	58	240
Poor	5.7%	9.0%	7.3%
Fair	5	74	291
Fair	14.3%	11.4%	8.8%
Montrel	7	90	414
Neutral	20.0%	13.9%	12.6%
0	11	187	888
Good	31.4%	28.9%	27.0%
Freelland	5	77	423
Excellent	14.3%	11.9%	12.9%
AV/A	5	161	1034
N/A	14.3%	24.9%	31.4%
Total respondent count (Percentages sum to 100%)	35	647	3290
	100.0%	100.0%	100.0%

2.3. Experiences: Online collaborative spaces	Appalachian State University	MA public institutions	All US institutions
Poor	6	51	235
Poor	17.1%	7.9%	7.1%
Fair	5	69	353
Fali	14.3%	10.7%	10.7%
Neutral	4	109	523
neuti ai	11.4%	16.9%	15.9%
Good	11	223	1106
G000	31.4%	34.5%	33.5%
Excellent	5	99	545
Excellent	14.3%	15.3%	16.5%
N/A	4	95	536
N/A	11.4%	14.7%	16.3%

Total respondent count	35	646	3298
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Physical collaborative spaces	Appalachian State		
	University	MA public institutions	All US institutions
Poor	3	59	279
FOOI	8.6%	9.1%	8.5%
Fair	4	100	467
Fall	11.4%	15.5%	14.2%
Neutral	5	106	493
Neutrai	14.3%	16.4%	14.9%
Good	11	208	997
9000	31.4%	32.2%	30.2%
Excellent	6	92	481
Excellent	17.1%	14.2%	14.6%
N/A	6	81	583
N/A	17.1%	12.5%	17.7%
Total respondent count	35	646	3300
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Access to institutional resources while away	Appalachian State University	MA public institutions	All US institutions
	4	46	
Poor	11.4%	7.1%	5.2%
Fair	3	68	350
raii	8.6%	10.5%	10.6%
Neutral -	5	71	373
	14.3%	11.0%	11.3%
Good	18	285	1396
9000	51.4%	44.0%	42.3%
Excellent	5	154	904
Excellent	14.3%	23.8%	27.4%
N/A	0	23	104
N/A	0.0%	3.6%	3.2%
Total respondent count		647	3299
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Ability to get my work done while away	Appalachian State University	MA public institutions	All US institutions
	1	33	133
Poor	2.9%	5.1%	4.0%
Fair	3	74	307
rair	8.6%	11.4%	9.3%
Neutral	4	68	304
ineuti ai	11.4%	10.5%	9.2%
Good	21	258	1366
9000	60.0%	39.8%	41.4%
Excellent	6	196	1121
LAGGIGIT	17.1%	30.2%	34.0%
N/A	0	19	68
IVA	0.0%	2.9%	2.1%
Total respondent count	35	648	3299

(Percentages sum to 100%)	100.0%	100.0%	100.0%
	•	•	
2.3. Experiences: Reliable access to Wi-Fi networks throughout facilities	Appalachian State University	MA public institutions	All US institutions
	0	52	281
Poor	0.0%	8.1%	8.5%
	11	102	490
Fair	31.4%	15.9%	14.9%
	4	58	314
Neutral	11.4%	9.0%	9.5%
	12	246	1136
Good	34.3%	38.3%	34.5%
	7	166	873
Excellent	20.0%	25.8%	26.5%
	1	19	198
N/A	2.9%	3.0%	6.0%
Total respondent count	35	643	3292
(Percentages sum to 100%)		100.0%	100.0%
2.3. Experiences: Communication technologies	Appalachian State		
		MA public institutions	
Poor	0	22	124
	0.0%	3.4%	3.8%
Fair	10	66	293
	28.6%	10.2%	8.9%
Neutral	2	75	374
	5.7%	11.6%	11.4%
Good	18	302	1462
	51.4%	46.9%	44.4%
Excellent	5	168	949
	14.3%	26.1%	28.8%
N/A	0	11	89
	0.0%		2.7%
Total respondent count (Percentages sum to 100%)		644	3291
(Fercentages sum to 100%)	100.0%	100.0%	100.0%
2.3. Experiences: Online or virtual technologies	Appalachian State		
2.3. Experiences. Offine of virtual technologies		MA public institutions	All US institutions
_	6	66	283
Poor	17.1%	10.3%	8.6%
	8	67	388
Fair	22.9%	10.4%	11.8%
	7	139	594
Neutral	20.0%	21.6%	18.0%
	11	218	1109
Good	31.4%	33.9%	33.7%
	2	87	512
Excellent	5.7%	13.5%	15.6%
	1	66	405
N/A	2.9%	10.3%	12.3%
Total respondent count		643	3291
(Percentages sum to 100%)		100.0%	100.0%
		1	1

2.3. Experiences: Remote access to commercial software applications	Appalachian State University	MA public institutions	All US institutions
Pear	3	93	397
Poor	8.6%	14.4%	12.1%
Fair	3	87	350
Fair	8.6%	13.5%	10.6%
Novitral	5	88	420
Neutral	14.3%	13.7%	12.8%
Cook	10	122	602
Good	28.6%	18.9%	18.3%
Evacilent	1	39	267
Excellent	2.9%	6.1%	8.1%
N/A	13	215	1252
N/A	37.1%	33.4%	38.1%
Total respondent count	35	644	3288
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Technology support	Appalachian State University	MA public institutions	All US institutions
Poor	1	45	227
Pool	2.9%	7.0%	6.9%
Fair	1	88	433
Fall	2.9%	13.7%	13.2%
Noutral	3	70	401
Neutral	8.8%	10.9%	12.2%
Good	13	225	1211
9000	38.2%	34.9%	36.8%
Eveellent	16	208	934
Excellent	47.1%	32.3%	28.4%
N/A	0	8	85
N/A	0.0%	1.2%	2.6%
Total respondent count		644	3291
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Professional development around the integrated use of technology in your teaching	Appalachian State University	MA public institutions	All US institutions
Poor	4	68	378
Pool	11.8%	10.6%	11.5%
Fair	4	82	441
Fall	11.8%	12.7%	13.4%
Neutral -	6	118	589
	17.6%	18.3%	17.9%
Good	13	220	1075
9000	38.2%	34.2%	32.7%
Excellent	6	116	515
Excellent	17.6%	18.0%	15.7%
N/A	1	40	291
N/A	2.9%	6.2%	8.8%
Total respondent count	34	644	3289
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Support for making courses accessible to students with disabilities	Appalachian State University	MA public institutions	All US institutions
P	4	50	255
Poor	12.1%	7.8%	7.8%
Fair	4	64	277
Fair	12.1%	10.0%	8.4%
Neutral	1	99	510
	3.0%	15.4%	15.5%
0	5	152	830
Good	15.2%	23.7%	25.2%
Freelland	6	105	508
Excellent	18.2%	16.4%	15.4%
AV/A	13	171	909
N/A	39.4%	26.7%	27.6%
Total respondent count	33	641	3289
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Support for making teaching courses accessible to faculty with disabilities	Appalachian State University	MA public institutions	All US institutions
Poor	0	29	174
Poor	0.0%	4.5%	5.3%
Fair	0	35	143
rall	0.0%	5.4%	4.3%
Neutral	5	100	419
Neutrai	14.7%	15.5%	12.7%
Good	0	68	322
9000	0.0%	10.6%	9.8%
Eveellent	2	42	221
Excellent	5.9%	6.5%	6.7%
N/A	27	370	2011
N/A	79.4%	57.5%	61.1%
Total respondent count	34	644	3290
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Professional development around the integrated use of technology in your research	Appalachian State University	MA public institutions	All US institutions
Poor	4	90	426
Poor	11.8%	14.0%	13.0%
Fair	6	91	405
Fair	17.6%	14.1%	12.3%
No. col	3	112	574
Neutral	8.8%	17.4%	17.5%
Good	8	140	777
9000	23.5%	21.7%	23.6%
Excellent	9	88	366
Excellent	26.5%	13.7%	11.1%
N/A	4	123	741
N/A	11.8%	19.1%	22.5%
Total respondent count	34	644	3289
(Percentages sum to 100%)	100.0%	100.0%	100.0%

	2.3. Experiences: Consultations for using technology in	Appalachian State		
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eaching and research	University	MA public institutions	All US institutions
Page	3	60	329
Poor	8.8%	9.3%	10.0%
Fair	4	70	390
Fair	11.8%	10.9%	11.9%
Mouted	2	90	511
Neutral	5.9%	14.0%	15.5%
Cook	13	210	1001
Good	38.2%	32.6%	30.4%
Firelland	8	160	626
Excellent	23.5%	24.8%	19.0%
N/A	4	55	431
N/A	11.8%	8.5%	13.1%
Total respondent count	34	645	3288
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Specialized teaching software	Appalachian State University	MA public institutions	All US institutions
Poor	2	76	375
Poor	6.1%	12.0%	11.5%
Fair	3	78	421
raii 	9.1%	12.3%	12.9%
Moutral	5	131	631
Neutral	15.2%	20.6%	19.3%
Good	13	146	719
9000	39.4%	23.0%	22.0%
Excellent	2	56	262
Excellen	6.1%	8.8%	8.0%
N/A	8	148	859
IVA	24.2%	23.3%	26.3%
Total respondent count	33	635	3267
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Locally housed high-performance computing/research computing services	Appalachian State University	MA public institutions	All US institutions
Poor	4	97	338
Poor	11.8%	15.0%	10.3%
Fair	0	31	127
Fair	0.0%	4.8%	3.9%
Moutral	2	72	342
Neutral	5.9%	11.2%	10.4%
Cook	1	27	213
Good	2.9%	4.2%	6.5%
Freellent	1	15	131
Excellen	2.9%	2.3%	4.0%
N/A	26	403	2129
N/A	76.5%	62.5%	64.9%
Total respondent count	34	645	3280
(Percentages sum to 100%)	100.0%	100.0%	100.0%

	2.3. Experiences: Outsourced high-performance computing (or research computing) systems	Appalachian State University	MA public institutions	All US institutions
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Poor	3	74	285
Poor	8.8%	11.5%	8.7%
Fair	0	24	102
raii	0.0%	3.7%	3.1%
Neutral	4	75	361
Neutrai	11.8%	11.7%	11.0%
Good	0	31	123
G000	0.0%	4.8%	3.8%
Excellent	1	7	60
Excellent	2.9%	1.1%	1.8%
N/A	26	432	2349
N/A	76.5%	67.2%	71.6%
Total respondent count	34	643	3280
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Self-publishing	Appalachian State University	MA public institutions	All US institutions
Pear	4	77	366
Poor	11.8%	12.0%	11.2%
Fair	0	45	183
raii 	0.0%	7.0%	5.6%
Novirol	1	101	443
Neutral	2.9%	15.7%	13.5%
Cood	3	41	230
Good	8.8%	6.4%	7.0%
Freelland	1	10	82
Excellent	2.9%	1.6%	2.5%
N/A	25	369	1975
N/A	73.5%	57.4%	60.2%
Total respondent count	34	643	3279
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: New models for global research collaborations	Appalachian State University	MA public institutions	All US institutions
Page	5	96	395
Poor	14.7%	14.9%	12.1%
Fair	0	41	165
Fair	0.0%	6.4%	5.0%
Moutral	4	95	440
Neutral	11.8%	14.7%	13.4%
Cond	2	30	167
Good	5.9%	4.7%	5.1%
Creations	2	10	57
Excellent	5.9%	1.6%	1.7%
N/A	21	373	2053
N/A	61.8%	57.8%	62.6%
Total respondent count	34	645	3277
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.3. Experiences: Open content	Appalachian State		
	University	MA public institutions	All US institutions
	2	59	278

University					
Poor	5.9%	9.2%	8.5%		
	2	58	221		
Fair	5.9%	9.0%	6.7%		
	4	104	541		
Neutral	11.8%	16.2%	16.5%		
	6	86	434		
Good	17.6%	13.4%	13.2%		
- "	3	14	136		
Excellent	8.8%	2.2%	4.2%		
N/A	17	321	1666		
N/A	50.0%	50.0%	50.9%		
Total respondent count	34	642	3276		
(Percentages sum to 100%)	100.0%	100.0%	100.0%		
2.5. Privacy and security: I take sufficient measures to	Appalachian State	MA muhlin imetitutione	All LIC in atituities a		
keep my research and scholarly data secure.		MA public institutions			
Don't know	4.7%	3.7%	525 4.4%		
	4.7%	3.7%	78		
Strongly disagree	0.7%	0.8%	0.7%		
	6.7%	75	359		
Disagree		3.3%	3.0%		
	4.0%	3.5 %	1968		
Neutral		16.0%	16.4%		
	82	1090	5701		
Agree	55.0%	48.4%	47.6%		
	30	625	3347		
Strongly agree	20.1%	27.8%	27.9%		
Total respondent count	149	2252	11978		
(Percentages sum to 100%)		100.0%	100.0%		
100.0%					
2.5. Privacy and security: I take sufficient measures to keep data about my students secure.	Appalachian State	MA public institutions	All IIS institutions		
Recp data about my students secure.	7	41	274		
Don't know	4.7%	1.8%	2.3%		
	0	11	48		
Strongly disagree	0.0%	0.5%	0.4%		
	4	32	179		
Disagree	2.7%	1.4%	1.5%		
	15	159	899		
Neutral	10.1%	7.0%	7.5%		
	77	1131	5753		
Agree	51.7%	50.0%	47.9%		
Cincumity and	46	890	4868		
Strongly agree	30.9%	39.3%	40.5%		
Total respondent count	149	2264	12021		
(Percentages sum to 100%)	100.0%	100.0%	100.0%		
2.5. Privacy and security: I have confidence in my	Annolookies Otets				
institution's ability to safeguard my personal information.	Appalachian State University	MA public institutions	All US institutions		
	10	99	551		

Don't know			
Don't know	6.8%	4.4%	4.6%
Chronaly diograp	9	151	705
Strongly disagree	6.1%	6.7%	5.9%
Disagree	17	282	1336
Disagree	11.6%	12.5%	11.1%
Noutral	34	478	2682
Neutral	23.1%	21.2%	22.3%
Agree	60	908	4993
Agree	40.8%	40.2%	41.5%
Strongly agree	17	341	1764
Strongly agree	11.6%	15.1%	14.7%
Total respondent count (Percentages sum to 100%)	147	2259	12031
	100.0%	100.0%	100.0%

2.5. Privacy and security: In general, I have confidence in my institution's data privacy practices.	Appalachian State University	MA public institutions	All US institutions
Don't know	9	114	615
Don't know	6.0%	5.0%	5.1%
Strongly disagree	5	117	530
Strongly disagree	3.4%	5.2%	4.4%
Digagrae	13	203	970
Disagree	8.7%	9.0%	8.1%
Neutral	35	453	2440
Neutra	23.5%	20.0%	20.3%
Agree	71	1006	5431
Agree	47.7%	44.5%	45.1%
Strongly agree	16	368	2045
Strongly agree	10.7%	16.3%	17.0%
Total respondent count	149	2261	12031
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.5. Privacy and security: In general, I have confidence in my institution's information security practices.	Appalachian State University	MA public institutions	All US institutions
Don't know	11	104	569
Don't know	7.4%	4.6%	4.7%
Strongly diagram	5	106	501
Strongly disagree	3.4%	4.7%	4.2%
Diogram	9	212	1010
Disagree	6.0%	9.4%	8.4%
Neutral	36	427	2293
Neutrai	24.2%	18.9%	19.1%
Agree	68	1023	5623
Agree	45.6%	45.3%	46.8%
Strongly agree	20	388	2027
Strongly agree	13.4%	17.2%	16.9%
Total respondent count	149	2260	12023
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.5. Privacy and security: I understand relevant university policies about free online data storage.	Appalachian State University	MA public institutions	All US institutions
Don't know	4	77	457

	11.8%	11.9%	13.9%
Ctrangly discares	5	69	334
Strongly disagree	14.7%	10.7%	10.2%
Disagree	7	120	716
Disagree	20.6%	18.6%	21.8%
Nautal	4	110	546
Neutral	11.8%	17.1%	16.6%
Agree	11	195	919
Agree	32.4%	30.2%	28.0%
Strongly agree	3	74	314
Strongly agree	8.8%	11.5%	9.6%
Total respondent count		645	3286
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.5. Privacy and security: I understand relevant university policies and state and federal laws about data protection.		MA public institutions	All US institutions
Don't know	2	24	130
Don't know	6.1%	3.7%	4.0%
Strongly diograps	0	19	92
Strongly disagree	0.0%	3.0%	2.8%
Disagrae	3	43	237
Disagree	9.1%	6.7%	7.2%
Neutral	8	81	412
Neutrai	24.2%	12.6%	12.5%
Agree	13	310	1520
Agree	39.4%	48.1%	46.2%
Strongly agree	7	167	900
Strongly agree	21.2%	25.9%	27.3%
Total respondent count	33	644	3291
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.5. Privacy and security: I have access to all the resources I need to keep my research and scholarly data secure.	Appalachian State University	MA public institutions	All US institutions
Don't know	4	76	504
Don't know	11.8%	11.8%	15.4%
Chromatic discourse	1	30	164
Strongly disagree	2.9%	4.7%	5.0%
Diagram	2	72	307
Disagree	5.9%	11.2%	9.4%
Novirol	12	146	750
Neutral	35.3%	22.7%	22.9%
Agree	12	239	1148
Agree	35.3%	37.2%	35.0%
Ctuon altro anno	3	79	407
Strongly agree	8.8%	12.3%	12.4%
Total respondent count	34	642	3280
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.5. Privacy and security: I have access to all the			
resources I need to keep my personal data and	Appalachian State		
information secure.	University	MA public institutions	All US institutions

Don't know	1	65	387
Don't know	2.9%	10.1%	11.8%
Strongly disagree	2	34	190
Strongly disagree	5.9%	5.3%	5.8%
Disagree	4	69	354
Disagree	11.8%	10.7%	10.8%
Neutral	11	132	734
Neuti di	32.4%	20.5%	22.3%
Agree	14	265	1242
Agree	41.2%	41.2%	37.8%
Strongly agree	2	78	379
Strongly agree	5.9%	12.1%	11.5%
Total respondent count	34	643	3286
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.5. Privacy and security: My institution has mandatory information security training regarding institutional data.	Appalachian State University	MA public institutions	All US institutions
Don't know	15	123	806
Don't know	44.1%	19.1%	24.5%
Strongly diopares	4	64	355
Strongly disagree	11.8%	9.9%	10.8%
Dicagroo	4	72	501
Disagree	11.8%	11.2%	15.3%
Neutral	5	77	388
ineuti ai	14.7%	12.0%	11.8%
Agraa	3	175	794
Agree	8.8%	27.2%	24.2%
Strongly agree	3	133	441
Strongly agree	8.8%	20.7%	13.4%
Total respondent count	34	644	3285
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.5. Privacy and security: My institution offers optional information security training regarding institutional data.	Appalachian State University	MA public institutions	All US institutions
Don't know	17	206	1200
Don't know	50.0%	32.0%	36.6%
Strongly disagree	0	40	226
Strongly disagree	0.0%	6.2%	6.9%
Disagree	2	55	349
Disagree	5.9%	8.6%	10.6%
Neutral	6	91	512
Neutrai	17.6%	14.2%	15.6%
Agree	7	184	739
Agree	20.6%	28.6%	22.5%
Strongly agree	2	67	254
Strongly agree	5.9%	10.4%	7.7%
Total respondent count		643	3280
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.5. Privacy and security: My institution's privacy and	Appalachian State		

security policies impede my productivity.	University	MA public institutions	All US institutions
Don't know	4	34	275
Don't know	12.1%	5.3%	8.4%
Strongly disagree	5	126	659
Strongly disagree	15.2%	19.6%	20.1%
Disagree	10	234	1218
Disagree	30.3%	36.4%	37.1%
Neutral	6	125	622
iveuti di	18.2%	19.4%	19.0%
Agree	7	82	348
Agree	21.2%	12.8%	10.6%
Strangly agrae	1	42	159
Strongly agree	3.0%	6.5%	4.8%
Total respondent count	33	643	3281
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.5. Privacy and security: My institution's intellectual property policies impede my productivity.	Appalachian State University	MA public institutions	All US institutions
Double Income	9	97	487
Don't know	26.5%	15.1%	14.8%
Strongly diagram	2	99	571
Strongly disagree	5.9%	15.4%	17.4%
Diagrae	10	207	1113
Disagree	29.4%	32.3%	33.9%
Neutral	7	157	718
Neutrai	20.6%	24.5%	21.9%
Agree	3	53	270
Agree	8.8%	8.3%	8.2%
Strongly agree	3	28	125
Strongly agree	8.8%	4.4%	3.8%
Total respondent count	34	641	3284
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.6. Using student data to create individualized messages about academic progress, training, and guidance opportunities	Appalachian State University	MA public institutions	All US institutions
Very bad idea	21	269	1398
very bad idea	14.2%	11.9%	11.6%
Bad idea	31	483	2413
Bad idea	20.9%	21.4%	20.1%
Noither good nor had	44	698	3644
Neither good nor bad	29.7%	30.9%	30.3%
Good idea	43	651	3725
Good idea	29.1%	28.8%	31.0%
Vory good idea	9	157	843
Very good idea	6.1%	7.0%	7.0%
Total respondent count	148	2258	12023
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' performance in	Appalachian State		
past courses	University	MA public institutions	All US institutions
Very bad idea	3	52	265
very bad idea			

	8.8%	8.0%	8.1%
P. I.L.	2	71	323
Bad idea	5.9%	11.0%	9.9%
Neither good nor bad	4	118	629
Neither good not bad	11.8%	18.3%	19.2%
Good idea	20	312	1503
Good idea	58.8%	48.3%	45.9%
Very good idea	5	93	555
very good idea	14.7%	14.4%	16.9%
Total respondent count (Percentages sum to 100%)	34	646	3275
	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' performance in current courses	1	MA public institutions	All US institutions
Very had idea	3	46	212
Very bad idea	8.8%	7.1%	6.5%
Bad idea	1	55	267
Bad idea	2.9%	8.5%	8.1%
Neither good nor bad	4	110	495
Neither good not bad	11.8%	17.1%	15.1%
Good idea	22	314	1587
Good Idea	64.7%	48.7%	48.4%
Very good idea	4	120	717
very good idea	11.8%	18.6%	21.9%
Total respondent count	34	645	3278
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' progress toward degree or certificate goal	Appalachian State University	MA public institutions	All US institutions
Very had idea	3	26	131
Very bad idea	8.8%	4.0%	4.0%
Bad idea	0	27	129
Bau idea	0.0%	4.2%	3.9%
Neither good per had	3	76	420
Neither good nor bad	8.8%	11.8%	12.8%
Good idea	20	331	1651
Good idea	58.8%	51.6%	50.4%
Voru good idea	8	182	942
Very good idea	23.5%	28.3%	28.8%
Total respondent count (Percentages sum to 100%)	34	642	3273
	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' performance in individual courses compared to the performance of others	Appalachian State	MA public institutions	All US institutions
Vory had idea	4	90	404
Very bad idea	11.8%	14.0%	12.3%
Bad idea	5	108	517
	14.7%	16.8%	15.8%
Neither good nor bad	8	148	697
Neither good not bad	23.5%	23.0%	21.3%
Good idea	13	221	1215

	38.2%	34.4%	37.1%
Very good idea	4	76	442
	11.8%	11.8%	13.5%
Total respondent count (Percentages sum to 100%)	34	643	3275
	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' activity on a college or university website	Appalachian State University	MA public institutions	All US institutions
Very bad idea	9	119	615
very bau idea	27.3%	18.5%	18.8%
Bad idea	5	123	622
Dau luea	15.2%	19.2%	19.1%
Noither good nor had	7	171	834
Neither good nor bad	21.2%	26.6%	25.5%
Good idea	10	180	945
Good Idea	30.3%	28.0%	28.9%
Vory good idea	2	49	249
Very good idea	6.1%	7.6%	7.6%
Total respondent count	33	642	3265
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' activity in a specific application or service provided by the institution	Appalachian State University	MA public institutions	All US institutions
Very bad idea	7	83	411
very bad idea	20.6%	12.9%	12.6%
Bad idea	4	90	440
Bad idea	11.8%	14.0%	13.5%
Neither good nor bad	10	183	927
Neither good not bad	29.4%	28.4%	28.4%
Good idea	11	237	1165
Good idea	32.4%	36.7%	35.7%
Voru good idea	2	52	319
Very good idea	5.9%	8.1%	9.8%
Total respondent count	34	645	3262
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' campus-based activities logged through student ID/smart cards		MA public institutions	All US institutions
Voru had idea	9	136	674
Very bad idea	26.5%	21.1%	20.6%
Dod idea	7	135	704
Bad idea	20.6%	20.9%	21.5%
NeW constant	7	173	841
Neither good nor bad	20.6%	26.8%	25.7%
Good idea	9	158	828
Good Idea	26.5%	24.5%	25.3%
Voru good idea	2	44	230
Very good idea	5.9%	6.8%	7.0%
Total respondent count (Percentages sum to 100%)		646	3277
	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' campus-based activities logged through smartphones		MA public institutions	All US institutions
Voru had idea	11	182	915
Very bad idea	33.3%	28.4%	27.9%
Bad idea	6	172	820
Dau idea	18.2%	26.8%	25.0%
New years I want a la	7	147	793
Neither good nor bad	21.2%	22.9%	24.2%
Cood idea	8	102	595
Good idea	24.2%	15.9%	18.2%
Vory good idea	1	38	151
Very good idea	3.0%	5.9%	4.6%
Total respondent count	33	641	3274
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' location on campus	Appalachian State University	MA public institutions	All US institutions
Very bad idea	13	247	1163
very bad idea	39.4%	38.4%	35.6%
Bad idea	9	164	898
Bau idea	27.3%	25.5%	27.5%
Neither good nor bad	5	149	708
Neither good not bad	15.2%	23.1%	21.6%
Good idea	4	58	388
Good idea	12.1%	9.0%	11.9%
Vory good idea	2	26	114
Very good idea	6.1%	4.0%	3.5%
Total respondent count (Percentages sum to 100%)	33	644	3271
	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' proximity to a college building, office, or resource	Appalachian State University	MA public institutions	All US institutions
Vow had idea	13	221	1053
Very bad idea	38.2%	34.3%	32.2%
Bad idea	9	170	852
Dad idea	26.5%	26.4%	26.0%
Neither wood was had	7	158	826
Neither good nor bad	20.6%	24.5%	25.2%
Good idea	4	67	423
Good idea	11.8%	10.4%	12.9%
Very good idea	1	29	119
very good idea	2.9%	4.5%	3.6%
Total respondent count		645	3273
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.7. Collecting data from/about students' social-media activities	Appalachian State University	MA public institutions	All US institutions
Very bad idea	13	257	1285
	38.2%	40.0%	39.3%
Pad idea	10	192	999
Bad idea	29.4%	29.9%	30.5%
Neither good nor bad	7	112	580

	20.6%	17.4%	17.7%
Good idea	3	60	311
Good idea	8.8%	9.3%	9.5%
Very good idea	1	22	98
	2.9%	3.4%	3.0%
Total respondent count	34	643	3273
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.8. Combining data about students' school-related activities with their social-media and mobile-device data	Appalachian State University	MA public institutions	All US institutions
Very had idea	34	498	2553
Very bad idea	22.8%	22.1%	21.3%
Bad idea	43	667	3674
Dad Idea	28.9%	29.6%	30.7%
Neither good nor bad	36	555	2891
Neither good not bad	24.2%	24.6%	24.1%
Good idea	31	438	2366
Good idea	20.8%	19.4%	19.7%
Voru good idea	5	97	499
Very good idea	3.4%	4.3%	4.2%
Total respondent count	149	2255	11983
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.9. Online learning helps students learn more effectively	Appalachian State University	MA public institutions	All US institutions
Don't know	0	12	79
Don't know	0.0%	1.9%	2.4%
Strongly diogram	4	117	540
Strongly disagree	11.8%	18.1%	16.4%
Diograph	14	148	779
Disagree	41.2%	22.9%	23.6%
Neutral	8	213	1047
Neuti ai	23.5%	32.9%	31.8%
Agree	4	111	583
Agree	11.8%	17.2%	17.7%
Strongly ogree	4	46	266
Strongly agree	11.8%	7.1%	8.1%
Total respondent count (Percentages sum to 100%)	34	647	3294
	100.0%	100.0%	100.0%

2.9. Online learning will lead to pedagogical breakthroughs	Appalachian State University	MA public institutions	All US institutions
Don't know	0	14	110
Don't know	0.0%	2.2%	3.3%
Strongly disagree	6	98	430
Strongly disagree	17.6%	15.1%	13.1%
Disagree	5	115	609
Disagree	14.7%	17.8%	18.5%
Neutral	13	197	979
Neutrai	38.2%	30.4%	29.7%
Agree	7	149	798
	20.6%	23.0%	24.2%

Strongly agree	3	74	367
	8.8%	11.4%	11.1%
Total respondent count	34	647	3293
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.9. Online learning will make higher education available to more students		MA public institutions	All US institutions
D. W.L.	0	4	29
Don't know	0.0%	0.6%	0.9%
Strongly diseases	4	40	143
Strongly disagree	11.8%	6.2%	4.3%
Disagroo	1	41	233
Disagree	2.9%	6.3%	7.1%
Neutral	8	99	437
Neutrai	23.5%	15.3%	13.3%
Agree	15	307	1579
Agree	44.1%	47.4%	48.0%
Strongly agree	6	156	872
Strongly agree	17.6%	24.1%	26.5%
Total respondent count	34	647	3293
(Percentages sum to 100%)	100.0%	100.0%	100.0%

For question 2.11, respondents ranked up to ten items 1–10, with 1 representing the action done first. The values reported here are the average rank of each item and the number of respondents ranking each item.

2.11. Tech support or assistance		Appalachian State University	MA public institutions	All US institutions
A alt your friends	Mean	5.1	5.2	5.2
Ask your friends	N	48	749	4053
Ask your family	Mean	5.5	5.4	5.3
Ask your failing	N	46	754	4112
Ack your poors or collegation	Mean	2.7	2.8	2.8
Ask your peers or colleagues	N	116	1749	9116
Ask teaching or research assistants	Mean	6.1	5.7	5.2
Ask leadining of research assistants	N	40	599	3605
Ask your students	Mean	5.8	5.5	5.5
ASK your students	N	49	805	4275
Search Google, YouTube, or another online	Mean	2.6	2.8	2.8
source	N	112	1656	8732
Contact the company or vendor	Mean	5.4	5.5	5.4
Contact the company of vendor	N	38	798	4458
Use the college/university help desk services	Mean	2.6	2.8	2.9
Ose the conege/university help desk services	N	135	1998	10362
Figure it out on your own	Mean Mean	2.5	2.3	2.4
N	123	1918	10115	
Other	Mean	7.9	8.0	8.0
Other	N	22	450	2459

2.12. Help desk services: Walk-in	Appalachian State		
	University	MA public institutions	All US institutions
Service not offered	1	20	237
Service not offered	2.9%	3.1%	7.3%

N/A	9	190	1133
N/A	26.5%	29.7%	34.9%
Poor	1	33	139
F-001	2.9%	5.2%	4.3%
Fair	1	31	161
raii	2.9%	4.9%	5.0%
Neutral	2	58	307
Neutrai	5.9%	9.1%	9.5%
Good	13	171	720
3000	38.2%	26.8%	22.2%
Excellent	7	136	549
Excellent	20.6%	21.3%	16.9%
Total respondent count (Percentages sum to 100%)		639	3246
	100.0%	100.0%	100.0%

2.12. Help desk services: Phone	Appalachian State University	MA public institutions	All US institutions
Service not offered	0	6	47
Service not offered	0.0%	0.9%	1.4%
N/A	1	42	320
IVA	2.9%	6.5%	9.8%
Poor	0	37	190
F001	0.0%	5.7%	5.8%
Fair	1	50	300
raii	2.9%	7.8%	9.2%
Neutral	5	78	325
Neutrai	14.7%	12.1%	9.9%
Good	17	243	1190
9000	50.0%	37.7%	36.3%
Excellent	10	188	906
Excellent	29.4%	29.2%	27.6%
Total respondent count (Percentages sum to 100%)		644	3278
	100.0%	100.0%	100.0%

2.12. Help desk services: E-mail	Appalachian State University	MA public institutions	All US institutions
Service not offered	1	11	64
Service not offered	2.9%	1.7%	2.0%
N/A	2	40	275
IVA	5.9%	6.3%	8.4%
Poor	3	46	219
1 001	8.8%	7.2%	6.7%
Fair	4	66	338
1 dii	11.8%	10.3%	10.3%
Neutral	2	70	363
Neutral	5.9%	11.0%	11.1%
Good	14	261	1294
3000	41.2%	40.9%	39.6%
Excellent	8	144	714
Excellent	23.5%	22.6%	21.9%
Total respondent count		638	3267
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.12. Help desk services: Web form	Appalachian State University	MA public institutions	All US institutions
	1	42	268
Service not offered	3.0%	6.7%	8.3%
N/A	7	181	978
N/A	21.2%	28.8%	30.3%
Poor	1	62	271
Poor	3.0%	9.9%	8.4%
Fair	6	59	270
Fali	18.2%	9.4%	8.4%
Neutral	6	95	495
ineuti ai	18.2%	15.1%	15.3%
Good	6	136	662
G000	18.2%	21.6%	20.5%
Excellent	6	54	287
Excenent	18.2%	8.6%	8.9%
Total respondent count	33	629	3231
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.12. Help desk services: Chat/IM	Appalachian State University	MA public institutions	All US institutions
Service not offered	7	130	704
Service not offered	21.2%	20.7%	21.8%
N/A	15	307	1555
N/A	45.5%	48.8%	48.2%
Poor	0	22	105
P001	0.0%	3.5%	3.3%
Fair	3	20	84
raii	9.1%	3.2%	2.6%
Neutral	5	66	319
Neutrai	15.2%	10.5%	9.9%
Good	2	58	298
G000	6.1%	9.2%	9.2%
Excellent	1	26	158
Excellent	3.0%	4.1%	4.9%
Total respondent count	33	629	3223
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.12. Help desk services: Remote assistance/desktop	Appalachian State		
	University	MA public institutions	All US institutions
Service not offered	2	54	316
Service not offered	6.1%	8.5%	9.8%
N/A	9	189	1101
IVA	27.3%	29.7%	34.0%
Poor	1	27	131
F001	3.0%	4.2%	4.1%
Fair	4	30	164
raii 	12.1%	4.7%	5.1%
Neutral	3	69	317
Neutrai	9.1%	10.8%	9.8%
	9	151	713

Good			
3000	27.3%	23.7%	22.0%
Excellent	5	116	492
	15.2%	18.2%	15.2%
Total respondent count (Percentages sum to 100%)	33	636	3234
	100.0%	100.0%	100.0%

2.12. Help desk services: Self-service FAQ	Appalachian State University	MA public institutions	All US institutions
Service not offered	3	38	254
Service not offered	9.1%	6.0%	7.9%
N/A	1	152	786
IVA	3.0%	24.1%	24.4%
Poor	8	84	410
P001	24.2%	13.3%	12.7%
Fair	5	91	419
raii	15.2%	14.4%	13.0%
Neutral	6	124	607
Neutrai	18.2%	19.6%	18.8%
Good	7	109	589
Good	21.2%	17.2%	18.3%
Excellent	3	34	161
Excellent	9.1%	5.4%	5.0%
Total respondent count	33	632	3226
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.12. Help desk services: Overall	Appalachian State University	MA public institutions	All US institutions
Service not offered	0	4	42
Service not offered	0.0%	0.2%	0.3%
N/A	4	38	312
N/A	2.7%	1.7%	2.6%
Poor	2	98	598
F001	1.4%	4.3%	5.0%
Fair	16	222	1199
raii	10.8%	9.8%	10.0%
Neutral	8	213	1248
Neutral	5.4%	9.4%	10.4%
Good	69	1007	5324
3000	46.6%	44.5%	44.4%
Excellent	49	680	3280
Excellent	33.1%	30.1%	27.3%
Total respondent count (Percentages sum to 100%)	148	2262	12003
	100.0%	100.0%	100.0%

2.13. My institution maintains a highly qualified IT staff.	Appalachian State University	MA public institutions	All US institutions
Don't know	1	29	245
Don't know	2.9%	4.5%	7.5%
Strongly disagree	1	45	207
	2.9%	7.0%	6.3%
Diagram	2	53	303
Disagree			

	5.9%	8.2%	9.2%
Novited	1	112	596
Neutral	2.9%	17.4%	18.2%
Agree	20	285	1335
Agree	58.8%	44.2%	40.7%
Strongly agree	9	121	593
	26.5%	18.8%	18.1%
Total respondent count (Percentages sum to 100%)	34	645	3279
	100.0%	100.0%	100.0%

2.13. My institution facilitates the use of technology in collaboration with academic leadership.	Appalachian State University	MA public institutions	All US institutions
Don't know	0	44	299
Don't know	0.0%	6.9%	9.1%
Strongly disagree	2	57	295
Strongly disagree	5.9%	8.9%	9.0%
Diograph	12	107	523
Disagree	35.3%	16.7%	16.0%
Neutral	6	141	713
Neutrai	17.6%	22.0%	21.8%
Agree	12	237	1169
Agree	35.3%	37.0%	35.7%
Strongly ogree	2	55	271
Strongly agree	5.9%	8.6%	8.3%
Total respondent count	34	641	3270
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.13. My institution funds IT strategically.	Appalachian State University	MA public institutions	All US institutions
Dan't Iman	16	232	1260
Don't know	47.1%	36.1%	38.5%
Ctrongly discourse	4	76	376
Strongly disagree	11.8%	11.8%	11.5%
Disamo	4	99	464
Disagree	11.8%	15.4%	14.2%
Novited	5	107	582
Neutral	14.7%	16.6%	17.8%
A	4	106	462
Agree	11.8%	16.5%	14.1%
Ctuon ally o area	1	23	129
Strongly agree	2.9%	3.6%	3.9%
Total respondent count	34	643	3273
(Percentages sum to 100%)	100.0%	100.0%	100.0%

Appalachian State University	MA public institutions	All US institutions
5	85	525
	13.3%	16.1%
1	44	226
2.9%	6.9%	6.9%
2	105	472
5.9%	16.4%	14.5%
	14.7% 1 2.9%	14.7% 13.3% 14.2% 6.9% 2 105

Novitral	10	168	812
Neutral	29.4%	26.2%	24.9%
Agree	14	196	1013
Agree	41.2%	30.6%	31.0%
Strongly agree	2	43	217
	5.9%	6.7%	6.6%
Total respondent count (Percentages sum to 100%)		641	3265
	100.0%	100.0%	100.0%

2.13. My institution demonstrates the business value of information technology.	Appalachian State University	MA public institutions	All US institutions
Don't know	13	182	987
Don't know	38.2%	28.4%	30.2%
Strongly disagree	1	47	259
Strongly disagree	2.9%	7.3%	7.9%
Disagree	6	116	487
Disagree	17.6%	18.1%	14.9%
Neutral	7	152	719
Neutrai	20.6%	23.7%	22.0%
Agree	6	115	635
Agree	17.6%	17.9%	19.4%
Strongly agree	1	29	179
Strongly agree	2.9%	4.5%	5.5%
Total respondent count (Percentages sum to 100%)		641	3266
	100.0%	100.0%	100.0%

2.13. My institution demonstrates how technology and the IT organization can help the institution achieve its goals.	Appalachian State University	MA public institutions	All US institutions
Don't know	3	92	518
Don't know	8.8%	14.3%	15.9%
Strongly diogram	3	60	328
Strongly disagree	8.8%	9.3%	10.0%
Dicagroo	8	131	619
Disagree	23.5%	20.4%	18.9%
Neutral	8	149	780
Neutrai	23.5%	23.2%	23.9%
Agroo	11	171	840
Agree	32.4%	26.6%	25.7%
Strongly ogree	1	39	182
Strongly agree	2.9%	6.1%	5.6%
Total respondent count	34	642	3267
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.13. My institution increases the IT organization's capacity for managing change.	Appalachian State University	MA public institutions	All US institutions
Don't know	8	160	951
Don't know	23.5%	25.0%	29.1%
Strongly disagree	4	64	328
Strongly disagree	11.8%	10.0%	10.0%
Disagree	4	108	513
	11.8%	16.9%	15.7%

Neutral Neutral	7	139	687
Neutral	20.6%	21.7%	21.0%
Agree	9	138	634
Agree	26.5%	21.6%	19.4%
Strongly agree	2	31	158
	5.9%	4.8%	4.8%
Total respondent count (Percentages sum to 100%)	34	640	3271
	100.0%	100.0%	100.0%

2.13. My institution provides user support for mobile, online education, cloud, and BYOD environments.	Appalachian State University	MA public institutions	All US institutions
Don't know	2	107	648
Don't know	5.9%	16.6%	19.8%
Strongly diagram	5	55	274
Strongly disagree	14.7%	8.6%	8.4%
Diocarco	4	82	495
Disagree	11.8%	12.8%	15.1%
Noutral	11	160	713
Neutral	32.4%	24.9%	21.8%
Agree	11	199	940
Agree	32.4%	30.9%	28.8%
Ctuon altro anno	1	40	198
Strongly agree	2.9%	6.2%	6.1%
Total respondent count	34	643	3268
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.13. My institution is developing mobile, cloud, and digital security policies that work for most	Appalachian State University	MA public institutions	All US institutions
Don't know	12	228	1315
Don't know	35.3%	35.5%	40.1%
Strongly disagree	0	31	206
Strongly disagree	0.0%	4.8%	6.3%
Disagree	7	87	357
Disagree	20.6%	13.5%	10.9%
Neutral	10	135	647
Neutrai	29.4%	21.0%	19.7%
Agree	4	129	602
Agree	11.8%	20.1%	18.4%
Strongly 2groo	1	33	150
Strongly agree	2.9%	5.1%	4.6%
Total respondent count	34	643	3277
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.13. My institution has an agile approach to IT infrastructure that can respond	Appalachian State University	MA public institutions	All US institutions
Don't know	4	131	716
Don't know	11.8%	20.3%	21.9%
Cturan alta dia a anno	8	99	501
Strongly disagree	23.5%	15.3%	15.3%
Diagram	6	139	621
Disagree	17.6%	21.6%	19.0%
	5	120	638

Neutral			
Neutrai	14.7%	18.6%	19.5%
Agree	9	121	627
	26.5%	18.8%	19.2%
Strongly agree	2	35	169
	5.9%	5.4%	5.2%
Total respondent count (Percentages sum to 100%)	34	645	3272
	100.0%	100.0%	100.0%

2.13. My institution facilitates a better understanding of information privacy and security.	Appalachian State University	MA public institutions	All US institutions
Dan't know	5	77	492
Don't know	14.7%	12.0%	15.1%
Caronalis diagram	3	46	258
Strongly disagree	8.8%	7.2%	7.9%
Diograph	9	103	578
Disagree	26.5%	16.0%	17.7%
Neutral	6	178	876
Neutrai	17.6%	27.7%	26.8%
Agroo	10	187	887
Agree	29.4%	29.1%	27.1%
Strongly ogree	1	51	178
Strongly agree	2.9%	7.9%	5.4%
Total respondent count (Percentages sum to 100%)	34	642	3269
	100.0%	100.0%	100.0%

2.13. My institution is committed to supporting accessible or adaptive technologies for students with disabilities.	Appalachian State University	MA public institutions	All US institutions
Don't know	13	186	1068
Don't know	38.2%	28.9%	32.6%
Strongly diograps	2	38	142
Strongly disagree	5.9%	5.9%	4.3%
Disagree	1	36	182
Disagree	2.9%	5.6%	5.6%
	4	112	543
Neutrai	11.8%	17.4%	16.6%
Agroo	12	189	977
Agree	35.3%	29.4%	29.8%
Strongly ogree	2	82	364
Strongly agree	5.9%	12.8%	11.1%
Total respondent count	34	643	3276
(Percentages sum to 100%)	100.0%	100.0%	100.0%

2.13. My institution supports faculty technology needs.	Appalachian State University	MA public institutions	All US institutions
B. W.L.	0	8	67
Don't know	0.0%	1.2%	2.0%
Strongly disagree	3	76	342
	8.8%	11.8%	10.4%
Disagree	6	107	477
	17.6%	16.6%	14.5%
	3	117	686

Neutral			
Neutrai	8.8%	18.2%	20.9%
Agree	19	264	1343
	55.9%	41.0%	40.9%
Strongly agree	3	72	365
	8.8%	11.2%	11.1%
Total respondent count (Percentages sum to 100%)	34	644	3280
	100.0%	100.0%	100.0%

3.1. Agree/disagree: I wish my students were better prepared to use institutionally specific technology.	Appalachian State University	MA public institutions	All US institutions
N/A	7	57	407
N/A	4.8%	2.6%	3.6%
Strongly diogram	6	78	390
Strongly disagree	4.1%	3.5%	3.4%
Disagree	20	333	1734
Disagree	13.8%	15.1%	15.1%
Neutral	46	542	2829
Neutrai	31.7%	24.6%	24.7%
Agroo	54	842	4222
Agree	37.2%	38.2%	36.9%
Chromatic ourse	12	354	1868
Strongly agree	8.3%	16.0%	16.3%
Total respondent count (Percentages sum to 100%)	145	2206	11450
	100.0%	100.0%	100.0%

3.1. Agree/disagree: I wish my students were better prepared to use basic software programs and applications.	Appalachian State University	MA public institutions	All US institutions
N/A	2	43	274
N/A	1.4%	1.9%	2.4%
Strongly diagram	5	111	663
Strongly disagree	3.4%	5.0%	5.8%
Diogram	34	485	2465
Disagree	23.3%	22.0%	21.5%
Novited	43	541	2877
Neutral	29.5%	24.5%	25.1%
Agree	34	671	3422
Agree	23.3%	30.4%	29.9%
Chromatic ourse	28	355	1761
Strongly agree	19.2%	16.1%	15.4%
Total respondent count	146	2206	11462
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.1. Agree/disagree: Most of my students have adequate technology skills for carrying out course activities.		MA public institutions	All US institutions
N/A	0	0	19
IVA	0.0%	0.0%	0.6%
Ctrongly diagram	0	26	142
Strongly disagree	0.0%	4.1%	4.5%
Disagree	4	125	581
	12.1%	19.7%	18.3%
	5	98	526

Neutral			
Neutrai	15.2%	15.4%	16.6%
Agree	22	328	1605
	66.7%	51.6%	50.6%
Strongly agree	2	59	302
	6.1%	9.3%	9.5%
Total respondent count (Percentages sum to 100%)	33	636	3175
	100.0%	100.0%	100.0%

3.1. Agree/disagree: Too many of my students look to me or my TAs for technology support to fulfill course requirements.	Appalachian State University	MA public institutions	All US institutions
N/A	2	20	120
N/A	6.1%	3.2%	3.8%
Strongly diopares	2	67	298
Strongly disagree	6.1%	10.6%	9.4%
Dicagroo	12	189	1005
Disagree	36.4%	29.9%	31.7%
Neutral	5	133	614
Neutrai	15.2%	21.0%	19.3%
Agroo	10	165	796
Agree	30.3%	26.1%	25.1%
Strongly agree	2	59	342
Strongly agree	6.1%	9.3%	10.8%
Total respondent count	33	633	3175
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.3. Alerts and notifications: Guidance about courses students might consider taking in the future	Appalachian State University	MA public institutions	All US institutions
Don't know	5	63	341
Don't know	3.5%	2.9%	3.0%
Not at all interested	26	301	1357
Not at all interested	18.1%	13.7%	11.9%
Not your interested	22	418	2095
Not very interested	15.3%	19.1%	18.4%
Madandah intanatah	62	763	3957
Moderately interested	43.1%	34.8%	34.7%
Vomilintonactor	23	474	2624
Very interested	16.0%	21.6%	23.0%
F. daa	6	174	1023
Extremely interested	4.2%	7.9%	9.0%
Total respondent count	144	2193	11397
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.3. Alerts and notifications: Alerts if it appears a student's progress in a course is declining	Appalachian State University	MA public institutions	All US institutions
Don't know	1	39	222
Don't know	0.7%	1.8%	1.9%
Not at all interested	20	185	914
Not at all litterested	13.9%	8.4%	8.0%
Not very interested	24	299	1327
	16.7%	13.6%	11.6%
	58	696	3533

Moderately interested			
Moderately interested	40.3%	31.8%	31.0%
Very interested	35	702	3793
	24.3%	32.0%	33.3%
Extremely interested	6	270	1614
	4.2%	12.3%	14.2%
Total respondent count (Percentages sum to 100%)	144	2191	11403
	100.0%	100.0%	100.0%

3.3. Alerts and notifications: Suggestions for how to improve performance in a course	Appalachian State University	MA public institutions	All US institutions
Dan't know	2	48	236
Don't know	1.4%	2.2%	2.1%
Not at all interested	22	191	924
Not at an interested	15.3%	8.7%	8.1%
Not very interested	19	281	1298
Not very interested	13.2%	12.8%	11.4%
Moderately interested	60	762	3795
Moderately interested	41.7%	34.8%	33.3%
Vary interacted	36	673	3724
Very interested	25.0%	30.7%	32.7%
Evitromoly interacted	5	237	1417
Extremely interested	3.5%	10.8%	12.4%
Total respondent count (Percentages sum to 100%)	144	2192	11394
	100.0%	100.0%	100.0%

3.3. Alerts and notifications: Suggestions about new or different academic resources for your students	Appalachian State University	MA public institutions	All US institutions
Dan't Iman	0	8	69
Don't know	0.0%	1.3%	2.2%
Not at all interested	4	39	181
Not at all interested	12.5%	6.2%	5.7%
Not your interested	4	41	227
Not very interested	12.5%	6.5%	7.2%
Medavataly	7	230	1031
Moderately interested	21.9%	36.5%	32.7%
Very interested	13	214	1127
Very interested	40.6%	33.9%	35.7%
Francisci intercetad	4	99	519
Extremely interested	12.5%	15.7%	16.5%
Total respondent count (Percentages sum to 100%)	32	631	3154
	100.0%	100.0%	100.0%

3.3. Alerts and notifications: Automated tracking of course attendance	Appalachian State University	MA public institutions	All US institutions
Don't know	1	17	112
Don't know	3.1%	2.7%	3.6%
Not at all interested	4	157	719
Not at all interested	12.5%	25.0%	22.8%
Not your interested	7	125	580
Not very interested	21.9%	19.9%	18.4%
Moderately interested	8	136	672
moderatery interested			

	25.0%	21.6%	21.3%
Very interested	8	109	602
	25.0%	17.3%	19.1%
Extremely interested	4	85	467
	12.5%	13.5%	14.8%
Total respondent count (Percentages sum to 100%)	32	629	3152
	100.0%	100.0%	100.0%

3.3. Alerts and notifications: Personalized support and information on your students' progress toward their degree goals	Appalachian State University	MA public institutions	All US institutions
Don't know	1	13	97
Don't know	3.2%	2.1%	3.1%
Not at all interested	2	62	292
Not at all interested	6.5%	9.9%	9.3%
Not your interested	0	63	368
Not very interested	0.0%	10.0%	11.7%
Moderately interested	11	201	1009
Moderately interested	35.5%	32.0%	32.0%
Vorvinterested	15	219	981
Very interested	48.4%	34.8%	31.1%
Extremely interested	2	71	405
Extremely interested	6.5%	11.3%	12.8%
Total respondent count (Percentages sum to 100%)	31	629	3152
	100.0%	100.0%	100.0%

3.3. Alerts and notifications: Personalized quizzes or practice questions oriented to your students	Appalachian State University	MA public institutions	All US institutions
	1	19	114
Don't know	3.1%	3.0%	3.6%
Not at all interested	4	115	488
Not at an interested	12.5%	18.3%	15.5%
Not very interested	9	119	548
Not very interested	28.1%	18.9%	17.4%
Moderately interested	10	168	852
moderatery interested	31.3%	26.7%	27.0%
Very interested	6	155	785
very interested	18.8%	24.6%	24.9%
Extremely interested	2	54	365
Extremely interested	6.3%	8.6%	11.6%
Total respondent count	32	630	3152
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.3. Alerts and notifications: Personalized dashboards that give students real-time feedback about their progress	Appalachian State University	MA public institutions	All US institutions
Don't know	1	18	102
Don't know	3.1%	2.9%	3.2%
Not at all interested	3	76	347
Not at all interested	9.4%	12.1%	11.0%
Not very interested	5	79	368
Not very interested	15.6%	12.6%	11.7%
	10	192	961

Moderately interested			
Moderately interested	31.3%	30.5%	30.5%
Very interested	9	169	903
	28.1%	26.9%	28.6%
Extremely interested	4	95	473
	12.5%	15.1%	15.0%
Total respondent count (Percentages sum to 100%)	32	629	3154
	100.0%	100.0%	100.0%

3.3. Alerts and notifications: Personalized dashboards that give you real-time feedback about students' progress	Appalachian State University	MA public institutions	All US institutions
Don't know	0	18	112
Don't know	0.0%	2.9%	3.6%
Not at all interested	5	84	392
Not at all interested	15.6%	13.3%	12.4%
Not vary interested	5	101	431
Not very interested	15.6%	16.0%	13.7%
Moderately interested	13	192	931
Moderatery interested	40.6%	30.5%	29.5%
Very interested	5	161	874
very interested	15.6%	25.6%	27.7%
Extremely interested	4	74	412
Extremely interested	12.5%	11.7%	13.1%
Total respondent count	32	630	3152
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.4. Online services: Guidance about courses students might consider taking in the future	Appalachian State University	MA public institutions	All US institutions
Convine not provided	13	294	1286
Service not provided	40.6%	46.8%	41.0%
Don't know	8	158	919
Don't know	25.0%	25.2%	29.3%
Not at all useful	2	29	132
Not at all useful	6.3%	4.6%	4.2%
Not your pooled	1	23	154
Not very useful	3.1%	3.7%	4.9%
Moderately useful	5	56	306
Moderatery userui	15.6%	8.9%	9.7%
Very upoful	1	47	240
Very useful	3.1%	7.5%	7.6%
Extramely useful	2	21	103
Extremely useful	6.3%	3.3%	3.3%
Total respondent count	32	628	3140
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.4. Online services: Alerts if it appears a student's progress in a course is declining	Appalachian State University	MA public institutions	All US institutions
Service not provided	12	212	1073
Service not provided	37.5%	34.2%	34.3%
Don't know	8	142	716
	25.0%	22.9%	22.9%
	3	30	124

Not at all useful			
110t at all useral	9.4%	4.8%	4.0%
Not very useful	4	50	226
Not very userur	12.5%	8.1%	7.2%
Moderately useful	2	92	482
	6.3%	14.8%	15.4%
Vorussoful	2	69	334
Very useful	6.3%	11.1%	10.7%
Extremely useful	1	25	175
Extremely useful	3.1%	4.0%	5.6%
Total respondent count (Percentages sum to 100%)	32	620	3130
	100.0%	100.0%	100.0%

3.4. Online services: Suggestions for how to improve performance in a course	Appalachian State University	MA public institutions	All US institutions
Convine not provided	15	275	1260
Service not provided	48.4%	44.2%	40.2%
Don't know	6	145	801
Don't know	19.4%	23.3%	25.6%
Not at all useful	2	25	119
Not at all uselui	6.5%	4.0%	3.8%
Not your pooled	4	39	195
Not very useful	12.9%	6.3%	6.2%
Moderately useful	2	69	373
Moderatery userui	6.5%	11.1%	11.9%
Vorvuceful	1	48	263
Very useful	3.2%	7.7%	8.4%
Extremely useful	1	21	122
Extremely useful	3.2%	3.4%	3.9%
Total respondent count	31	622	3133
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.4. Online services: Suggestions about new or different academic resources for your students		MA public institutions	All US institutions
	10	167	823
Service not provided	31.3%	26.8%	26.3%
Don't know	8	152	852
Don't know	25.0%	24.4%	27.2%
Not at all useful	2	17	80
Not at all useful	6.3%	2.7%	2.6%
Not very useful	1	46	187
Not very userur	3.1%	7.4%	6.0%
Moderately useful	8	130	576
moderately decide	25.0%	20.8%	18.4%
Very useful	2	78	444
very userur	6.3%	12.5%	14.2%
Extremely useful	1	34	168
Extremely userur	3.1%	5.4%	5.4%
Total respondent count		624	3130
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.4. Online services: Automated tracking of your	Appalachian State		ĺ
			1

students' course attendance	University	MA public institutions	All US institutions
Coming not provided	19	358	1598
Service not provided	59.4%	57.3%	50.9%
Don't know	5	112	625
Don't know	15.6%	17.9%	19.9%
Not at all useful	3	36	185
Not at all userul	9.4%	5.8%	5.9%
Not york upoful	1	27	155
Not very useful	3.1%	4.3%	4.9%
Modorately upoful	1	37	246
Moderately useful	3.1%	5.9%	7.8%
Very useful	2	35	207
very userui	6.3%	5.6%	6.6%
Extremely useful	1	20	123
Extremely useful	3.1%	3.2%	3.9%
Total respondent count	32	625	3139
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.4. Online services: Personalized support and information on your students' progress toward their degree goals	Appalachian State University	MA public institutions	All US institutions
Service not provided	7	172	900
Service not provided	21.9%	27.5%	28.7%
Don't know	7	161	905
Don't know	21.9%	25.7%	28.9%
Not stall and I	1	24	113
Not at all useful	3.1%	3.8%	3.6%
Not your youful	3	35	177
Not very useful	9.4%	5.6%	5.7%
Moderately useful	5	109	510
	15.6%	17.4%	16.3%
Very upoful	6	90	367
Very useful	18.8%	14.4%	11.7%
Extremely useful	3	35	160
	9.4%	5.6%	5.1%
Total respondent count (Percentages sum to 100%)	32	626	3132
	100.0%	100.0%	100.0%

3.4. Online services: Personalized quizzes or practice questions oriented to your students	Appalachian State University	MA public institutions	All US institutions
	18	296	1421
Service not provided	56.3%	47.4%	45.4%
Don't know	4	149	778
Don't know	12.5%	23.8%	24.8%
Not at all useful	5	32	157
Not at all useful	15.6%	5.1%	5.0%
Not very useful	2	33	147
Not very userui	6.3%	5.3%	4.7%
Moderately useful	1	57	291
woderatery disertif	3.1%	9.1%	9.3%
Very useful	1	42	226
	3.1%	6.7%	7.2%

	Extremely useful	1	16	112
		3.1%	2.6%	3.6%
	Total respondent count	32	625	3132
	(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.4. Online services: Personalized dashboards that give students real-time feedback about their progress	Appalachian State University	MA public institutions	All US institutions
Coming met manyided	12	246	1105
Service not provided	37.5%	39.5%	35.3%
Don't know	9	157	826
Don't know	28.1%	25.2%	26.4%
Not at all useful	3	23	127
Not at all useful	9.4%	3.7%	4.1%
Not very useful	0	32	151
Not very userur	0.0%	5.1%	4.8%
Moderately useful	4	76	416
	12.5%	12.2%	13.3%
Very useful	4	66	339
very userui	12.5%	10.6%	10.8%
Extremely useful	0	23	165
Extremely userul	0.0%	3.7%	5.3%
Total respondent count (Percentages sum to 100%)	32	623	3129
	100.0%	100.0%	100.0%

3.4. Online services: Personalized dashboards that give you real-time feedback about students' progress	Appalachian State University	MA public institutions	All US institutions
Service not provided	17	261	1205
Service not provided	53.1%	41.9%	38.4%
Dan't know	5	143	747
Don't know	15.6%	23.0%	23.8%
Not at all useful	4	29	136
Not at all uselul	12.5%	4.7%	4.3%
Not very useful	1	41	179
Not very userui	3.1%	6.6%	5.7%
Modoratoly usoful	1	72	398
Moderately useful	3.1%	11.6%	12.7%
Vorvuseful	3	54	316
Very useful	9.4%	8.7%	10.1%
Extremely useful	1	23	156
Extremely userul	3.1%	3.7%	5.0%
Total respondent count	32	623	3137
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Learning management system	Appalachian State University	MA public institutions	All US institutions
N/A	6	70	511
IVA	4.2%	3.2%	4.5%
Strongly disagree -	7	123	688
	4.9%	5.6%	6.1%
Disagroo	15	190	945
Disagree -	10.4%	8.7%	8.3%
	33	512	2682

Neutral			
Neutrai	22.9%	23.5%	23.7%
Agree	60	909	4606
	41.7%	41.7%	40.6%
Strongly agree	23	376	1900
	16.0%	17.2%	16.8%
Total respondent count (Percentages sum to 100%)	144	2180	11332
	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Online collaboration tools	Appalachian State University	MA public institutions	All US institutions
N/A	4	79	530
N/A	2.8%	3.6%	4.7%
Ctrongly diagram	6	123	692
Strongly disagree	4.2%	5.6%	6.1%
Digagrae	11	191	947
Disagree	7.6%	8.8%	8.3%
Moutral	30	497	2631
Neutral	20.8%	22.8%	23.2%
Agree	67	933	4795
Agree	46.5%	42.8%	42.3%
Ctron also o area	26	359	1754
Strongly agree	18.1%	16.5%	15.5%
Total respondent count (Percentages sum to 100%)	144	2182	11349
	100.0%	100.0%	100.0%

3.5. More effective if better skilled: E-portfolios	Appalachian State University	MA public institutions	All US institutions
N/A	14	242	1703
N/A	9.8%	11.1%	15.1%
Strongly diagram	17	244	1185
Strongly disagree	11.9%	11.2%	10.5%
Diograph	25	335	1662
Disagree	17.5%	15.4%	14.7%
Noutral	42	641	3416
Neutral	29.4%	29.5%	30.2%
Agroo	33	553	2588
Agree	23.1%	25.4%	22.9%
Strongly ogree	12	159	746
Strongly agree	8.4%	7.3%	6.6%
Total respondent count (Percentages sum to 100%)	143	2174	11300
	100.0%	100.0%	100.0%

3.5. More effective if better skilled: E-books or e-textbooks	Appalachian State University	MA public institutions	All US institutions
N/A	5	90	598
IVA	3.5%	4.1%	5.3%
Strongly disagree	11	187	950
Strongly disagree	7.6%	8.6%	8.4%
Disagrae	22	284	1370
Disagree	15.3%	13.0%	12.1%
Neutral	44	619	3132

	30.6%	28.4%	27.6%
Agree	48	762	4009
	33.3%	35.0%	35.4%
Strongly agree	14	238	1274
	9.7%	10.9%	11.2%
Total respondent count (Percentages sum to 100%)	144	2180	11333
	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Free, web-based content to supplement course-related materials	Appalachian State University	MA public institutions	All US institutions
N/A	4	75	437
N/A	2.8%	3.4%	3.8%
Ctrongly discourse	9	171	816
Strongly disagree	6.3%	7.8%	7.2%
Diagrae	14	202	972
Disagree	9.7%	9.2%	8.5%
Neutral	37	492	2465
Neutrai	25.7%	22.5%	21.7%
Agree	67	934	4946
Agree	46.5%	42.7%	43.5%
Strongly ogree	13	312	1735
Strongly agree	9.0%	14.3%	15.3%
Total respondent count (Percentages sum to 100%)	144	2186	11371
	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Simulations or educational games	Appalachian State University	MA public institutions	All US institutions
N/A	9	100	669
IVA	6.3%	4.6%	5.9%
Strongly diopares	17	198	1035
Strongly disagree	11.8%	9.1%	9.2%
Disagree	12	208	1173
Disagree	8.3%	9.6%	10.4%
Neutral	40	492	2446
Neutrai	27.8%	22.6%	21.6%
Agree	51	874	4414
Agree	35.4%	40.2%	39.0%
Chromatic ourse	15	301	1568
Strongly agree	10.4%	13.9%	13.9%
Total respondent count	144	2173	11305
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Lecture capture/classroom-based recordings	Appalachian State University	MA public institutions	All US institutions
N/A	7	85	574
IVA	4.9%	3.9%	5.1%
Our and a Processor	9	175	928
Strongly disagree	6.3%	8.0%	8.2%
Diagrae	25	285	1266
Disagree	17.6%	13.1%	11.2%
Neutral	31	519	2650
	21.8%	23.9%	23.3%

Agree	54	802	4292
	38.0%	36.9%	37.8%
Strongly agree	16	309	1642
	11.3%	14.2%	14.5%
Total respondent count (Percentages sum to 100%)	142	2175	11352
	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Students' tablets during class	Appalachian State University	MA public institutions	All US institutions
N/A	13	139	984
N/A	9.0%	6.4%	8.7%
Strongly disagree	27	302	1458
Strongly disagree	18.8%	13.9%	12.9%
Dicagroo	25	370	1848
Disagree	17.4%	17.0%	16.3%
Neutral	39	526	2834
Neutrai	27.1%	24.1%	25.0%
Agroo	30	673	3359
Agree	20.8%	30.9%	29.6%
Strongly agree	10	169	850
Strongly agree	6.9%	7.8%	7.5%
Total respondent count	144	2179	11333
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Students' smartphones during class	Appalachian State University	MA public institutions	All US institutions
N/A	11	111	859
N/A	7.7%	5.1%	7.6%
Strongly diagram	35	436	2307
Strongly disagree	24.5%	20.0%	20.4%
Diograph	31	438	2161
Disagree	21.7%	20.1%	19.1%
Neutral	36	485	2427
Neutrai	25.2%	22.3%	21.4%
Agree	24	539	2803
Agree	16.8%	24.8%	24.7%
Strongly ogree	6	167	773
Strongly agree	4.2%	7.7%	6.8%
Total respondent count (Percentages sum to 100%)	143	2176	11330
	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Students' laptops during class	Appalachian State University	MA public institutions	All US institutions
N/A	11	121	827
IVA	7.7%	5.6%	7.3%
Strongly disagree	24	269	1353
Strongly disagree	16.8%	12.4%	11.9%
Disagree	22	350	1594
Disagree	15.4%	16.1%	14.1%
Neutral	38	565	2857
Neutrai	26.6%	26.0%	25.2%
	34	674	3682

Agree			
Agree	23.8%	31.0%	32.5%
Strongly agree	14	193	1011
	9.8%	8.9%	8.9%
Total respondent count (Percentages sum to 100%)	143	2172	11324
	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Social media as a teaching and learning tool	Appalachian State University	MA public institutions	All US institutions
N/A	6	84	560
N/A	4.2%	3.9%	4.9%
Ctrongly discourse	25	343	1833
Strongly disagree	17.5%	15.7%	16.2%
Disagrass	28	380	1994
Disagree	19.6%	17.4%	17.6%
Novirol	39	583	3017
Neutral	27.3%	26.8%	26.6%
A	36	618	3095
Agree	25.2%	28.4%	27.3%
Chromatic ourse	9	171	848
Strongly agree	6.3%	7.8%	7.5%
Total respondent count	143	2179	11347
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.5. More effective if better skilled: 3D printers	Appalachian State University	MA public institutions	All US institutions
N/A	10	119	715
N/A	30.3%	18.9%	22.8%
Ctrongly discourse	5	116	604
Strongly disagree	15.2%	18.4%	19.2%
Disagree	5	106	492
Disagree	15.2%	16.8%	15.7%
Neutral	6	164	723
Neutrai	18.2%	26.0%	23.0%
Agraa	2	82	415
Agree	6.1%	13.0%	13.2%
Strongly agree	5	43	193
Strongly agree	15.2%	6.8%	6.1%
Total respondent count (Percentages sum to 100%)		630	3142
	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Nonkeyboard or nonmouse computer interfaces	Appalachian State University	MA public institutions	All US institutions
N/A	6	51	364
IVA	18.8%	8.1%	11.6%
Strongly disagree	5	73	368
Strongly disagree	15.6%	11.6%	11.7%
Disagree	4	108	484
Disagree	12.5%	17.1%	15.4%
Noutral	10	191	940
Neutral	31.3%	30.3%	29.9%
Agree	5	150	744

	15.6%	23.8%	23.6%
Strongly agree	2	57	247
	6.3%	9.0%	7.8%
Total respondent count	32	630	3147
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Software to create videos or multimedia resources	Appalachian State University	MA public institutions	All US institutions
N/A	1	17	169
N/A	3.0%	2.7%	5.4%
Strongly disagree	2	37	207
Strongry disagree	6.1%	5.9%	6.6%
Disagroo	1	64	271
Disagree 	3.0%	10.2%	8.6%
Neutral Neutral	6	124	576
neuti ai	18.2%	19.8%	18.4%
Agree	13	248	1258
Agree	39.4%	39.6%	40.1%
Strongly ogree	10	137	657
Strongly agree	30.3%	21.9%	20.9%
Total respondent count	33	627	3138
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Early-alert systems designed to catch potential academic trouble	Appalachian State University	MA public institutions	All US institutions
N/A	0	28	171
IVA	0.0%	4.5%	5.4%
Strongly disagree	5	56	280
Strongly disagree	15.2%	8.9%	8.9%
Disagree	5	76	379
Disagree	15.2%	12.1%	12.1%
Neutral	6	156	714
Neutrai	18.2%	24.8%	22.7%
Agree	13	237	1167
Agree	39.4%	37.7%	37.2%
Strongly 2groo	4	75	429
Strongly agree	12.1%	11.9%	13.7%
Total respondent count	33	628	3140
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Search tools to find references or other information online for class work	Appalachian State University	MA public institutions	All US institutions
N/A	2	30	167
IN/A	6.1%	4.8%	5.3%
Strongly disagree	1	52	268
Strongly disagree	3.0%	8.3%	8.5%
Disagree	4	68	346
Disagree	12.1%	10.8%	11.0%
Neutral	6	163	707
Neutrai	18.2%	25.9%	22.5%
Agree	10	222	1182
	30.3%	35.3%	37.6%

Strongly agree	10	94	474
	30.3%	14.9%	15.1%
Total respondent count	33	629	3144
(Percentages sum to 100%)	100.0%	100.0%	100.0%

3.5. More effective if better skilled: Blogs or online discussion/collaboration tools related to class work	Appalachian State University	MA public institutions	All US institutions
N/A	1	22	161
N/A	3.0%	3.5%	5.1%
Strongly disagree	1	53	290
Strongly disagree	3.0%	8.4%	9.3%
Disagree	4	89	426
Disagree	12.1%	14.2%	13.6%
Neutral	9	177	852
Neutrai	27.3%	28.2%	27.2%
Agree	12	223	1090
Agree	36.4%	35.5%	34.8%
Strongly ogree	6	64	310
Strongly agree	18.2%	10.2%	9.9%
Total respondent count	33	628	3129
(Percentages sum to 100%)	100.0%	100.0%	100.0%

For question 3.7a, respondents ranked up to three items. The values reported here are the number and percentage of respondents ranking each item.

3.7a. Motivation for integration	Appalachian State University	MA public institutions	All US institutions
More/better technology-oriented professional	24	411	2139
development opportunities	16.1%	18.1%	17.7%
A monetary or other value-oriented incentive	31	398	2057
A monetary of other value-oriented incentive	20.8%	17.5%	17.0%
Tenure decisions and other professional advancement	15	200	953
considerations	10.1%	8.8%	7.9%
Release time to design/redesign my courses	55	834	3628
Release time to design/redesign my courses	36.9%	36.8%	30.1%
Direct assistance from an instructional design expert to	32	541	2811
design/redesign my courses	21.5%	23.8%	23.3%
Direct assistance from IT staff to support the technology	31	541	2906
I choose to implement	20.8%	23.8%	24.1%
A teaching assistant to assist with technology	11	297	1590
implementation	7.4%	13.1%	13.2%
Commontton accommont from manage	7	69	370
Support/encouragement from peers	4.7%	3.0%	3.1%
Working in a faculty cohort or community that is	34	379	1951
adopting the same types of practices	22.8%	16.7%	16.2%
A better understanding of the types of technologies	37	613	3370
relevant to teaching and learning	24.8%	27.0%	27.9%
Confidence that the technology would work the way I	40	643	3609
planned	26.8%	28.3%	29.9%
Increased student expectations of technology	13	165	980
integration	8.7%	7.3%	8.1%
	62	961	5026

Clear indication/evidence that students would benefit			
Olean maioanon/evidence that students would benefit	41.6%	42.4%	41.6%
Other; please specify	3	86	425
	2.0%	3.8%	3.5%
Total respondent count	149	2269	12070

4.1. Course sections in a typical year	Appalachian State University	MA public institutions	All US institutions
4.2	18	247	1878
1–2	12.9%	11.5%	16.8%
3–5	38	655	4058
3-3	27.3%	30.4%	36.2%
6–9	76	1033	3375
0-9	54.7%	47.9%	30.1%
10+	7	220	1889
10+	5.0%	10.2%	16.9%
Total respondent count (Percentages sum to 100%)	139	2155	11200
	100.0%	100.0%	100.0%

4.2. In how many of your courses did you use a blended approach to teaching?	Appalachian State University	MA public institutions	All US institutions
Don't know	2	10	76
Don't know	1.4%	0.5%	0.7%
None	50	850	4972
None	34.7%	38.8%	43.8%
A four	47	545	2512
A few	32.6%	24.9%	22.1%
About half	12	262	1198
About Hall	8.3%	11.9%	10.6%
Nearly all	15	276	1323
Nearly all	10.4%	12.6%	11.7%
All	18	250	1269
All	12.5%	11.4%	11.2%
Total respondent count (Percentages sum to 100%)	144	2193	11350
	100.0%	100.0%	100.0%

4.2. In how many of your courses did you use a completely online learning environment?	Appalachian State University	MA public institutions	All US institutions
Don't know	1	6	45
Don't know	0.7%	0.3%	0.4%
Nama	109	1502	7411
None	75.7%	68.9%	65.4%
A few	19	364	1574
Alew	13.2%	16.7%	13.9%
A h a v é h a l é	7	136	747
About half	4.9%	6.2%	6.6%
Noorby all	2	78	438
Nearly all	1.4%	3.6%	3.9%
All	6	95	1121
All	4.2%	4.4%	9.9%
Total respondent count	144	2181	11336
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.2. In how many of your courses did you use a "flipped" pedagogical model?	Appalachian State University	MA public institutions	All US institutions
Don't language	7	103	558
Don't know	5.0%	4.8%	5.0%
Nama	83	1293	7102
None	58.9%	59.9%	63.3%
A few	24	420	1888
Alew	17.0%	19.5%	16.8%
Ah aut half	14	151	751
About half	9.9%	7.0%	6.7%
No culturally	8	111	539
Nearly all	5.7%	5.1%	4.8%
All	5	81	389
All	3.5%	3.8%	3.5%
Total respondent count (Percentages sum to 100%)	141	2159	11227
	100.0%	100.0%	100.0%

4.4a. Have you taught a MOOC in the past year?	Appalachian State University	MA public institutions	All US institutions
No and House Late Mooding	2	74	404
No, and I don't know what a MOOC is	8.3%	16.8%	19.0%
No. 1. (1. lo. Loco estate MOCO)	22	359	1680
No, but I do know what a MOOC is	91.7%	81.4%	78.9%
Yes	0	8	46
Tes	0.0%	1.8%	2.2%
Total respondent count	24	441	2130
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.4b. Through whom did you teach a MOOC?	Appalachian State University	MA public institutions	All US institutions
Through the institution that asked me to take this	0	3	25
survey	0	42.9%	56.8%
Through another institution	0	3	16
	0	42.9%	36.4%
Through a MOOC provider like Coursera or Udacity	0	1	10
	0	14.3%	22.7%
Total respondent count	0	7	44

4.5a. Have you taken a MOOC in the past year?	Appalachian State University	MA public institutions	All US institutions
No, and I don't know what a MOOC is	2	111	619
No, and I don't know what a wood is	6.1%	17.5%	19.5%
No, but I do know what a MOOC is	26	421	2092
No, but I do know what a wood is	78.8%	66.5%	65.9%
Yes	5	101	462
Tes	15.2%	16.0%	14.6%
Total respondent count (Percentages sum to 100%)	33	633	3173
	100.0%	100.0%	100.0%

4.5b. Through whom did you take a MOOC?	Appalachian State University	MA public institutions	All US institutions
Through the institution that asked me to take this	0	8	27
survey			

	0.0%	7.9%	5.9%
Through another institution	2	45	192
	40.0%	44.6%	41.6%
Through a MOOC provider like Coursera or Udacity	4	55	290
	80.0%	54.5%	62.9%
Total respondent count	5	101	461

4.6. Have you earned a digital badge or other type of digital credential?	Appalachian State University	MA public institutions	All US institutions
Don't know	0	43	241
Don't know	0.0%	6.9%	7.6%
No	25	487	2435
NO	75.8%	77.7%	77.0%
Yes	8	97	487
res	24.2%	15.5%	15.4%
Total respondent count (Percentages sum to 100%)	33	627	3163
	100.0%	100.0%	100.0%

4.7. Opinion of: MOOCs	Appalachian State		
	University	MA public institutions	All US institutions
Don't know	41	612	3389
Don't know	28.9%	28.0%	29.8%
Completely opposed	12	237	948
Completely opposed	8.5%	10.8%	8.3%
Constally opposed but willing to consider	29	384	1756
Generally opposed, but willing to consider	20.4%	17.6%	15.4%
Neutral	38	438	2287
Neutrai	26.8%	20.0%	20.1%
Concrelly supportive but computed elemtical	16	375	2138
Generally supportive, but somewhat skeptical	11.3%	17.2%	18.8%
Completely supportive	6	139	855
Completely supportive	4.2%	6.4%	7.5%
Total respondent count (Percentages sum to 100%)	142	2185	11373
	100.0%	100.0%	100.0%

4.7. Opinion of: Competency-based education	Appalachian State University	MA public institutions	All US institutions
Don't know	47	555	2903
Don't know	32.9%	25.4%	25.5%
2	3	94	379
Completely opposed	2.1%	4.3%	3.3%
Generally opposed, but willing to consider	13	191	761
Generally opposed, but willing to consider	9.1%	8.7%	6.7%
Neutral	25	403	2019
Neutrai	17.5%	18.4%	17.7%
Congrally cupportive but computed ekentical	38	535	2778
Generally supportive, but somewhat skeptical	26.6%	24.5%	24.4%
Completely supportive	17	410	2541
Completely supportive	11.9%	18.7%	22.3%
Total respondent count (Percentages sum to 100%)	143	2188	11381
	100.0%	100.0%	100.0%

4.7. Opinion of: Badges or digital credentials	Appalachian State University	MA public institutions	All US institutions
D. W.L.	59	893	4626
Don't know	41.3%	40.8%	40.7%
Completely appeared	13	115	601
Completely opposed	9.1%	5.3%	5.3%
Generally opposed, but willing to consider	16	200	962
Generally opposed, but willing to consider	11.2%	9.1%	8.5%
Neutral	28	507	2667
Neuti di	19.6%	23.2%	23.4%
Generally supportive, but somewhat skeptical	19	319	1644
Generally supportive, but somewhat skeptical	13.3%	14.6%	14.5%
Completely supportive	8	153	877
Completely supportive	5.6%	7.0%	7.7%
Total respondent count	143	2187	11377
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.7. Opinion of: Gamification	Appalachian State University	MA public institutions	All US institutions
Don't know	53	840	4527
Don't know	37.3%	38.5%	39.8%
Completely opposed	11	168	749
Completely opposed	7.7%	7.7%	6.6%
Generally opposed, but willing to consider	20	266	1241
Generally opposed, but willing to consider	14.1%	12.2%	10.9%
Neutral	29	394	2171
Neuti ai	20.4%	18.0%	19.1%
Generally supportive, but somewhat skeptical	20	337	1723
Generally supportive, but somewhat skeptical	14.1%	15.4%	15.2%
Completely supportive	9	178	956
Completely supportive	6.3%	8.2%	8.4%
Total respondent count	142	2183	11367
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.7. Opinion of: Open educational resources	Appalachian State University	MA public institutions	All US institutions
Danit Image	47	636	3516
Don't know	32.6%	29.1%	30.9%
Completely ennesed	4	40	184
Completely opposed	2.8%	1.8%	1.6%
Generally opposed, but willing to consider	9	116	496
Generally opposed, but willing to consider	6.3%	5.3%	4.4%
Neutral	36	413	2080
Neutrai	25.0%	18.9%	18.3%
Generally supportive, but somewhat skeptical	28	507	2572
Generally supportive, but somewhat skeptical	19.4%	23.2%	22.6%
Completely supportive	20	472	2524
Completely supportive	13.9%	21.6%	22.2%
Total respondent count	144	2184	11372
(Percentages sum to 100%)	100.0%	100.0%	100.0%

	4.8. Classroom technologies: Availability of classrooms	Appalachian State		
- 1			i I	

with multimedia equipment	University	MA public institutions	All US institutions
N/A	5	71	917
N/A -	3.4%	3.2%	8.0%
Vanu discatisfied	7	147	692
Very dissatisfied	4.8%	6.7%	6.0%
Dissatisfied -	16	276	1470
Dissatisfied	11.0%	12.6%	12.8%
Novitral	16	279	1473
Neutral –	11.0%	12.7%	12.9%
Casiasian	75	1003	4873
Satisfied -	51.7%	45.7%	42.6%
Varuantinfied	26	421	2015
Very satisfied	17.9%	19.2%	17.6%
Total respondent count	145	2197	11440
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.8. Classroom technologies: Reliability of equipment available	Appalachian State University	MA public institutions	All US institutions
N/A	3	45	697
N/A	2.1%	2.1%	6.1%
Vow dispatiation	3	172	777
Very dissatisfied	2.1%	7.8%	6.8%
Dissatisfied	25	361	1834
Dissaustied	17.4%	16.4%	16.0%
Neutral	28	374	1941
Neutrai	19.4%	17.0%	17.0%
Satisfied	68	1001	4898
Satisfied	47.2%	45.6%	42.8%
Voru patinfied	17	242	1285
Very satisfied	11.8%	11.0%	11.2%
Total respondent count	144	2195	11432
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.8. Classroom technologies: Refresh/update frequency of equipment	Appalachian State University	MA public institutions	All US institutions
N/A	0	22	294
N/A	0.0%	3.5%	9.3%
Vow dispetiation	4	85	389
Very dissatisfied	12.1%	13.5%	12.3%
Dissatisfied	8	124	600
Dissatistied	24.2%	19.7%	19.0%
Neutral	10	166	754
Neutrai	30.3%	26.3%	23.9%
Satisfied	9	191	901
Satistied	27.3%	30.3%	28.6%
Vowy actionical	2	42	215
Very satisfied	6.1%	6.7%	6.8%
Total respondent count	33	630	3153
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.8. Classroom technologies: Refresh/update frequency	Appalachian State		
of software	University	MA public institutions	All US institutions

N/A	1	31	346
N/A	3.0%	4.9%	11.0%
Very dissatisfied	0	63	280
very dissatisfied	0.0%	10.0%	8.9%
Dissatisfied	4	108	509
Dissatisfied	12.1%	17.1%	16.1%
Neutral	10	157	767
Neutrai	30.3%	24.8%	24.3%
Satisfied	12	215	996
Jansheu	36.4%	34.0%	31.5%
Very satisfied	6	59	261
very satisfied	18.2%	9.3%	8.3%
Total respondent count		633	3159
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.8. Classroom technologies: Technology that supports open learning classrooms	Appalachian State University	MA public institutions	All US institutions
N/A	16	217	1279
N/A	48.5%	34.4%	40.7%
Very dissatisfied	1	69	279
very dissatished	3.0%	10.9%	8.9%
Dissatisfied	3	93	471
Dissatistied	9.1%	14.7%	15.0%
Neutral	6	144	601
ineuti ai	18.2%	22.8%	19.1%
Satisfied	5	86	389
Satistied	15.2%	13.6%	12.4%
Very satisfied	2	22	125
Very Satisfied	6.1%	3.5%	4.0%
Total respondent count	33	631	3144
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.8. Classroom technologies: Variety of equipment available	Appalachian State University	MA public institutions	All US institutions
N/A	2	20	278
N/A	6.1%	3.2%	8.8%
Vory dispetiation	1	62	249
Very dissatisfied	3.0%	9.8%	7.9%
Dissatisfied	4	110	494
Dissatisfied	12.1%	17.5%	15.7%
Novitral	7	150	771
Neutral Neutral	21.2%	23.8%	24.5%
Ontin di	16	229	1097
Satisfied	48.5%	36.3%	34.8%
Variantistiad	3	59	264
Very satisfied	9.1%	9.4%	8.4%
Total respondent count	33	630	3153
(Percentages sum to 100%)		100.0%	100.0%

4.8. Classroom technologies: Variety of software	Appalachian State		
	University	MA public institutions	All US institutions
	0	25	313

N/A			
IVA	0.0%	4.0%	9.9%
Very dissatisfied	0	56	234
very dissatisfied	0.0%	8.9%	7.4%
Dissatisfied	6	103	434
Dissatisileu	18.2%	16.3%	13.8%
Neutral	5	170	825
Neutrai	15.2%	26.9%	26.1%
Satisfied	18	222	1098
Satistieu	54.5%	35.1%	34.8%
Very satisfied	4	56	251
very satisfied	12.1%	8.9%	8.0%
Total respondent count (Percentages sum to 100%)		632	3155
	100.0%	100.0%	100.0%

4.8. Classroom technologies: General ease-of-use of podium systems	Appalachian State University	MA public institutions	All US institutions
N/A	4	152	1372
N/A	2.8%	6.9%	12.0%
Very dissatisfied	4	111	588
very dissatished	2.8%	5.1%	5.1%
Dissatisfied	20	277	1361
Dissatistieu	13.8%	12.6%	11.9%
Neutral	20	348	1887
ineuti ai	13.8%	15.9%	16.5%
Satisfied	75	990	4684
Satistieu	51.7%	45.1%	41.0%
Very satisfied	22	317	1535
very satisfied	15.2%	14.4%	13.4%
Total respondent count (Percentages sum to 100%)	145	2195	11427
	100.0%	100.0%	100.0%

4.8. Classroom technologies: Computers in the podiums		MA public institutions	All US institutions
N/A	2	68	543
N/A	6.1%	10.8%	17.2%
Vory dispetiation	1	50	242
Very dissatisfied	3.0%	7.9%	7.7%
Dissatisfied	3	80	395
Dissatistied	9.1%	12.7%	12.5%
Neutral	7	88	512
Neutrai	21.2%	14.0%	16.2%
Satisfied	16	258	1088
Satistied	48.5%	41.0%	34.5%
Voru potintial	4	86	375
Very satisfied	12.1%	13.7%	11.9%
Total respondent count	33	630	3155
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.8. Classroom technologies: Software on the podium computers	Appalachian State University	MA public institutions	All US institutions
N/A	2	63	555
IN/A			

	6.1%	10.0%	17.6%
Very dissatisfied	0	49	233
very dissatished	0.0%	7.8%	7.4%
Dissatisfied	4	84	387
Dissatished	12.1%	13.3%	12.3%
Neutral	4	136	628
neuti di	12.1%	21.6%	19.9%
Satisfied	18	230	1059
Satistieu	54.5%	36.5%	33.6%
Voru acticfied	5	68	290
Very satisfied	15.2%	10.8%	9.2%
Total respondent count (Percentages sum to 100%)	33	630	3152
	100.0%	100.0%	100.0%

4.8. Classroom technologies: Computer projection	Appalachian State University	MA public institutions	All US institutions
	2	12	230
N/A	6.1%	1.9%	7.3%
Vone disastisfied	2	40	208
Very dissatisfied	6.1%	6.3%	6.6%
Dissatisfied	3	74	377
Dissatistied	9.1%	11.7%	11.9%
Neutral	3	87	453
neutrai	9.1%	13.8%	14.4%
Satisfied	18	306	1394
Satistieu	54.5%	48.6%	44.2%
Very satisfied	5	111	494
very satisfied	15.2%	17.6%	15.7%
Total respondent count (Percentages sum to 100%)	33	630	3156
	100.0%	100.0%	100.0%

4.8. Classroom technologies: Audience response systems	Appalachian State University	MA public institutions	All US institutions
N/A	17	265	1500
N/A	51.5%	42.0%	47.5%
Vow. dispatiation	1	47	217
Very dissatisfied	3.0%	7.4%	6.9%
Dissatisfied	1	72	341
Dissatisfied	3.0%	11.4%	10.8%
Noutral	7	140	608
Neutral	21.2%	22.2%	19.3%
Satisfied	4	80	359
Saustieu	12.1%	12.7%	11.4%
Voru entirities	3	27	130
Very satisfied	9.1%	4.3%	4.1%
Total respondent count	33	631	3155
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.8. Classroom technologies: Wireless access	Appalachian State University	MA public institutions	All US institutions
N/A	0	10	216
IVA	0.0%	1.6%	6.8%

Voru dispetiation	3	45	261
Very dissatisfied	9.1%	7.1%	8.3%
Dissatisfied	4	103	466
Dissalisileu	12.1%	16.3%	14.8%
Neutral	8	96	450
Neutrai	24.2%	15.2%	14.3%
Satisfied	11	252	1209
Satisfied	33.3%	39.9%	38.3%
Very satisfied	7	125	555
very satisfied	21.2%	19.8%	17.6%
Total respondent count (Percentages sum to 100%)	33	631	3157
	100.0%	100.0%	100.0%

4.8. Classroom technologies: Overall satisfaction	Appalachian State		All LIC in atitudians
	University	MA public institutions	All US Institutions
N/A	1	34	549
IVA	0.7%	1.6%	4.8%
Vow dispetiation	2	108	508
Very dissatisfied	1.4%	4.9%	4.5%
Dissatisfied	20	272	1347
Dissausileu	13.9%	12.4%	11.8%
Noutral	22	406	2273
Neutral	15.3%	18.5%	19.9%
Satisfied	79	1112	5385
Sausileu	54.9%	50.8%	47.2%
Vow extinsied	20	258	1343
Very satisfied	13.9%	11.8%	11.8%
Total respondent count	144	2190	11405
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.9a. LMS usage	Appalachian State University	MA public institutions	All US institutions
Liberty and a LMO of all	18	239	1702
I don't use the LMS at all	12.4%	10.8%	14.9%
To push out information	101	1451	6998
To push out information	69.7%	65.8%	61.1%
To promote interaction outside the classroom	82	1139	5042
To promote interaction outside the classicom	56.6%	51.7%	44.0%
To teach partially online courses or programs	30	542	2379
To teach partially offline courses or programs	20.7%	24.6%	20.8%
To teach completely online courses or programs	23	568	3196
To teach completely offline courses of programs	15.9%	25.8%	27.9%
Total respondent count	145	2205	11459

4.9b. How often do you typically use the LMS?	Appalachian State University	MA public institutions	All US institutions
Dai	68	1075	5706
Dai	54.0%	54.9%	58.5%
Week	54	783	3518
vveek	42.9%	40.0%	36.1%
Month	4	65	327
Monthly	3.2%	3.3%	3.4%
	<u> </u>		1

Loss than monthly	0	36	195
Less than monthly	0.0%	1.8%	2.0%
Total respondent count	126	1959	9746
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.9c. What LMS do you typically use?	Appalachian State University	MA public institutions	All US institutions
Blackboard	7	1111	3632
Біаскроаго	5.5%	56.6%	37.3%
D2L	1	256	1169
DZE	0.8%	13.0%	12.0%
Canvas	0	47	1759
Canvas	0.0%	2.4%	18.1%
Jenzabar e-Racer	0	0	8
Jenzabai e-Nacei	0.0%	0.0%	0.1%
Moodle (Moodle Trust)	81	265	663
imoodie (moodie Trust)	63.8%	13.5%	6.8%
Maadlaraama laula	0	1	42
Moodlerooms Joule	0.0%	0.1%	0.4%
Pagragn of allege	0	4	175
Pearson eCollege	0.0%	0.2%	1.8%
Sakai	0	38	317
Sakai	0.0%	1.9%	3.3%
Homegrown/locally developed	5	27	273
Homegrown/locally developed	3.9%	1.4%	2.8%
Other preducts places enesitiv	26	199	1601
Other product; please specify	20.5%	10.1%	16.4%
Don't know	7	15	104
Don't know	5.5%	0.8%	1.1%
Total respondent count	127	1963	9743
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Ease of use in general	Appalachian State University	MA public institutions	All US institutions
N/A	0	11	60
N/A	0.0%	0.6%	0.6%
Vow. dispatiation	5	96	523
Very dissatisfied	4.0%	4.9%	5.4%
Discotleffed	14	278	1430
Dissatisfied	11.1%	14.3%	14.7%
Navinal	22	372	1803
Neutral	17.5%	19.1%	18.6%
Calladia	73	997	4839
Satisfied	57.9%	51.1%	49.9%
Variantiatia	12	196	1051
Very satisfied	9.5%	10.1%	10.8%
Total respondent count	126	1950	9706
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Ease of use from a mobile device	Appalachian State		
	University	MA public institutions	All US institutions
	40	598	3041

l N/A			
IVA	31.7%	30.7%	31.4%
Very dissatisfied	10	221	1155
very dissatisfied	7.9%	11.3%	11.9%
Dissatisfied	22	356	1816
Dissatistieu	17.5%	18.2%	18.7%
Neutral	31	449	2054
Neutrai	24.6%	23.0%	21.2%
Satisfied	20	277	1337
Satistieu	15.9%	14.2%	13.8%
Very satisfied	3	50	292
very saustieu	2.4%	2.6%	3.0%
Total respondent count (Percentages sum to 100%)		1951	9695
	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Engaging in meaningful interactions with students	Appalachian State University	MA public institutions	All US institutions
N/A	24	316	1531
N/A	19.2%	16.2%	15.8%
Very dissatisfied	3	80	434
very dissatistied	2.4%	4.1%	4.5%
Dissatisfied	16	243	1176
Dissatistied	12.8%	12.4%	12.1%
Neutral	32	516	2589
neuti ai	25.6%	26.4%	26.7%
Satisfied	41	673	3245
Satistieu	32.8%	34.4%	33.4%
Voru entirities	9	126	730
Very satisfied	7.2%	6.4%	7.5%
Total respondent count	125	1954	9705
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.9. LMS satisfaction: System availability	Appalachian State University	MA public institutions	All US institutions
N/A	1	6	36
N/A	3.3%	1.0%	1.3%
Vov. dispetiation	1	11	65
Very dissatisfied	3.3%	1.9%	2.4%
Dissatisfied	1	27	159
Dissatistied	3.3%	4.7%	5.8%
Neutral	2	79	460
Neuti ai	6.7%	13.8%	16.7%
Satisfied	15	341	1517
Satistieu	50.0%	59.6%	55.0%
Very entirtied	10	108	522
Very satisfied	33.3%	18.9%	18.9%
Total respondent count	30	572	2759
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.9. LMS satisfaction: System response time		Appalachian State University	MA public institutions	All US institutions
	N/A	0	16	63
	IN/A			

	0.0%	2.8%	2.3%
Very dissatisfied	2	28	151
very dissatistied	6.9%	4.9%	5.5%
Dissatisfied	1	59	330
Dissatistieu	3.4%	10.3%	12.0%
Neutral	4	114	581
Neutrai	13.8%	20.0%	21.0%
Satisfied	16	284	1298
Satistieu	55.2%	49.7%	47.0%
Very satisfied	6	70	338
very satisfied	20.7%	12.3%	12.2%
Total respondent count	29	571	2761
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Initial use training	Appalachian State University	MA public institutions	All US institutions
AV/A	2	56	260
N/A	6.7%	9.8%	9.4%
Vorsi dispetistis d	2	43	240
Very dissatisfied	6.7%	7.5%	8.7%
Dissatisfied	4	81	456
Dissatistied	13.3%	14.2%	16.5%
Neutral	7	145	633
Neutrai	23.3%	25.4%	23.0%
Satisfied	11	190	920
Satistied	36.7%	33.3%	33.4%
Voru patinfied	4	55	249
Very satisfied	13.3%	9.6%	9.0%
Total respondent count (Percentages sum to 100%)	30	570	2758
	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Ongoing training/professional development	Appalachian State University	MA public institutions	All US institutions
N/A	4	68	381
N/A	13.3%	11.9%	13.8%
Vow. dispatiation	1	32	205
Very dissatisfied	3.3%	5.6%	7.4%
Dissatisfied	2	73	424
Dissaustied	6.7%	12.8%	15.4%
Neutral	11	179	775
Neutrai	36.7%	31.3%	28.1%
Satisfied	6	170	779
Satistied	20.0%	29.7%	28.2%
Very satisfied	6	50	196
very satisfied	20.0%	8.7%	7.1%
Total respondent count	30	572	2760
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Posting content	Appalachian State University	MA public institutions	All US institutions
N/A	0	5	25
IVA	0.0%	0.9%	0.9%

Vory discretisfied	0	15	93
Very dissatisfied	0.0%	2.6%	3.4%
Dissatisfied	2	37	217
Dissalisileu	6.7%	6.5%	7.8%
Neutral	1	46	339
	3.3%	8.0%	12.3%
Satisfied	12	319	1478
Salisticu	40.0%	55.7%	53.5%
Very satisfied	15	151	613
very satisfied	50.0%	26.4%	22.2%
Total respondent count (Percentages sum to 100%)		573	2765
	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Managing assignments	Appalachian State University	MA public institutions	All US institutions
	3	42	207
N/A	10.0%	7.3%	7.5%
Vone disastisfied	0	23	122
Very dissatisfied	0.0%	4.0%	4.4%
Dissatisfied	2	58	306
Dissatistied	6.7%	10.1%	11.1%
Neutral	6	97	521
Neutrai	20.0%	17.0%	18.9%
Satisfied	12	275	1242
Satistieu	40.0%	48.1%	45.0%
Voru entistied	7	77	362
Very satisfied	23.3%	13.5%	13.1%
Total respondent count		572	2760
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Monitoring or managing enrollments	Appalachian State University	MA public institutions	All US institutions
N/A	2	72	352
N/A	6.7%	12.6%	12.8%
Von disestistical	1	21	110
Very dissatisfied	3.3%	3.7%	4.0%
Dissettisfied	2	62	277
Dissatisfied	6.7%	10.9%	10.0%
Novited	6	103	583
Neutral	20.0%	18.1%	21.1%
Catiotical	10	248	1151
Satisfied	33.3%	43.5%	41.7%
Vorus estistical	9	64	287
Very satisfied	30.0%	11.2%	10.4%
Total respondent count (Percentages sum to 100%)	30	570	2760
	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Entering student progress information	Appalachian State University	MA public institutions	All US institutions
N/A	1	31	171
IVA	3.3%	5.4%	6.2%
	3	42	196

Very dissatisfied			
very dissuished	10.0%	7.3%	7.1%
Dissatisfied	7	87	402
Dissatisileu	23.3%	15.2%	14.5%
Neutral	3	80	440
	10.0%	13.9%	15.9%
Satisfied	13	259	1183
	43.3%	45.1%	42.7%
Vary entirtied	3	75	378
Very satisfied	10.0%	13.1%	13.6%
Total respondent count (Percentages sum to 100%)	30	574	2770
	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Receiving course assignments reliably	Appalachian State University	MA public institutions	All US institutions
N/A	3	50	260
N/A	10.0%	8.7%	9.4%
Vov. dispetiation	0	15	60
Very dissatisfied	0.0%	2.6%	2.2%
Dissatisfied	1	39	173
Dissatistieu	3.3%	6.8%	6.3%
Neutral	4	69	412
Neutrai	13.3%	12.0%	14.9%
Satisfied	13	307	1370
Satistieu	43.3%	53.6%	49.6%
Vary entirtied	9	93	485
Very satisfied	30.0%	16.2%	17.6%
Total respondent count (Percentages sum to 100%)	30	573	2760
	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Integrating third-party content	Appalachian State	MA public institutions	All IIS institutions
	6	162	
N/A			
	20.0%	28.4%	28.6%
Very dissatisfied	4	42	222
very dissaustied	13.3%	7.4%	8.0%
Dissatisfied	6	74	407
Dissatistied	20.0%	13.0%	14.8%
Novirol	7	132	651
Neutral	23.3%	23.2%	23.6%
Satisfied	6	135	563
Saustieu	20.0%	23.7%	20.4%
Vorus patintinal	1	25	125
Very satisfied	3.3%	4.4%	4.5%
Total respondent count (Percentages sum to 100%)	30	570	2758
	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Integration with other institutional systems		MA public institutions	All US institutions
N/A	1	82	420
N/A	3.3%	14.3%	15.2%
Very dissatisfied	3	49	274
very dissatisfied			

	10.0%	8.6%	9.9%
Dissatisfied	4	88	455
Dissatistied	13.3%	15.4%	16.5%
Neutral	8	130	606
Neutrai	26.7%	22.7%	21.9%
Satisfied	10	181	799
Satisfied	33.3%	31.6%	28.9%
Very satisfied	4	42	208
very satisfied	13.3%	7.3%	7.5%
Total respondent count (Percentages sum to 100%)		572	2762
	100.0%	100.0%	100.0%

4.9. LMS satisfaction: Overall satisfaction	Appalachian State University	MA public institutions	All US institutions
	0	9	52
N/A	0.0%	0.5%	0.5%
Var. Paradada	1	62	403
Very dissatisfied	0.8%	3.2%	4.2%
Dissections	14	220	1170
Dissatisfied	11.1%	11.3%	12.1%
Montrel	29	490	2383
Neutral	23.0%	25.1%	24.6%
Catiotical	72	1023	4903
Satisfied	57.1%	52.4%	50.6%
Vowerestisfied	10	149	774
Very satisfied	7.9%	7.6%	8.0%
Total respondent count (Percentages sum to 100%)	126	1953	9685
	100.0%	100.0%	100.0%

4.9e. The LMS is critical to my teaching.	Appalachian State	MA public institutions	All US institutions
	Oniversity	· ·	
Don't know	2	21	109
	1.6%	1.1%	1.1%
Strongly disagree	2	105	563
Strongly disagree	1.6%	5.4%	5.8%
Disagree	16	240	1191
Disagree	12.7%	12.3%	12.3%
Neutral	24	380	1790
Neutrai	19.0%	19.5%	18.4%
Agree	55	703	3372
Agree	43.7%	36.0%	34.8%
Strongly ogree	27	502	2677
Strongly agree	21.4%	25.7%	27.6%
Total respondent count	126	1951	9702
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.9e. The LMS is very useful as a tool to enhance my teaching.	Appalachian State University	MA public institutions	All US institutions
Don't know	2	22	117
	1.6%	1.1%	1.2%
Strongly disagree	1	56	288
	0.8%	2.9%	3.0%

Disagrae	4	113	624
Disagree	3.2%	5.8%	6.4%
Neutral	21	296	1546
Neutrai	16.7%	15.2%	15.9%
Agree	70	962	4649
Agree	55.6%	49.3%	47.9%
Strongly agree	28	504	2481
Strongly agree	22.2%	25.8%	25.6%
Total respondent count (Percentages sum to 100%)		1953	9705
	100.0%	100.0%	100.0%

4.9e. The LMS is very useful as a tool to enhance student learning.	Appalachian State University	MA public institutions	All US institutions
Danie Image	3	31	167
Don't know	2.4%	1.6%	1.7%
Strongly diagram	1	46	270
Strongly disagree	0.8%	2.4%	2.8%
Disagrae	3	111	618
Disagree	2.4%	5.7%	6.4%
Neutral	25	373	1851
Neutrai	19.8%	19.1%	19.1%
Agree	71	934	4488
Agree	56.3%	47.8%	46.3%
Strongly agree	23	457	2307
Strongly agree	18.3%	23.4%	23.8%
Total respondent count	126	1952	9701
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.10. In-class mobile device policy: Smartphone	Appalachian State University	MA public institutions	All US institutions
	47	551	2510
Ban students from using it in class	32.4%	25.2%	22.2%
Discourage students from using it in class	53	627	3073
Discourage students from using it in class	36.6%	28.7%	27.2%
Neither discourage nor encourage its use	35	643	4000
Neither discourage nor encourage its use	24.1%	29.4%	35.4%
Encourage students to use it in class	10	321	1551
Encourage students to use it in class	6.9%	14.7%	13.7%
Require students to use it in class	0	42	161
Require students to use it in class	0.0%	1.9%	1.4%
Total respondent count		2184	11295
(Percentages sum to 100%)	100.0%	100.0%	100.0%

		All US institutions
	224	972
13.8%	10.3%	8.6%
	264	1169
17.2%	12.1%	10.4%
70	1023	5697
48.3%	46.9%	50.5%
28	589	3151
	University 20 13.8% 25 17.2% 70	13.8% 10.3% 25 264 17.2% 12.1% 70 1023 48.3% 46.9%

Encourage students to use it in class			
	19.3%	27.0%	27.9%
Require students to use it in class	2	81	300
	1.4%	3.7%	2.7%
Total respondent count (Percentages sum to 100%)	145	2181	11289
	100.0%	100.0%	100.0%

4.10. In-class mobile device policy: Laptop	Appalachian State		
	University	MA public institutions	All US institutions
Ban students from using it in class	22	194	807
Ban students from using it in class	15.2%	8.9%	7.1%
Discourage students from using it in class	23	249	1047
Discourage students from using it in class	15.9%	11.4%	9.3%
Neither discourage ner encourage its use	63	974	5165
Neither discourage nor encourage its use	43.4%	44.5%	45.7%
Engagrage students to use it in class	33	642	3545
Encourage students to use it in class	22.8%	29.4%	31.3%
Poquire students to use it in class	4	128	746
Require students to use it in class	2.8%	5.9%	6.6%
Total respondent count	145	2187	11310
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.10. In-class mobile device policy: Wearable technologies	Appalachian State University	MA public institutions	All US institutions
Ban students from using it in class	28	352	1702
Dan students from using it in class	19.6%	16.3%	15.2%
Discourage students from using it in class	26	301	1509
Discourage students from using it in class	18.2%	13.9%	13.5%
Neither discourage nor encourage its use	84	1395	7392
Neither discourage nor encourage its use	58.7%	64.5%	66.0%
Encourage students to use it in class	5	110	565
Encourage students to use it in class	3.5%	5.1%	5.0%
Poguiro studente to uso it in elecc	0	6	37
Require students to use it in class	0.0%	0.3%	0.3%
Total respondent count	143	2164	11205
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.11. Use smartphone in class	Appalachian State		All LIC in atitutions
	University	MA public institutions	All US Institutions
Use to take notes	1	79	333
Use to take notes	3.2%	12.7%	10.8%
Use to engage in nonclass activities	16	345	1692
Ose to engage in nonclass activities	51.6%	55.5%	55.1%
Use to make other connections with the learning	4	213	941
material	12.9%	34.2%	30.7%
Use specialized software or Internet for directed	4	97	425
activities	12.9%	15.6%	13.8%
Do not typically use	13	180	915
Do not typically use	41.9%	28.9%	29.8%
Total respondent count	31	622	3070

4.11. Use tablet in class	Appalachian State		
	University	MA public institutions	All US institutions
		T .	

Use to take notes	9	284	1334
OSE to take notes	28.1%	45.6%	43.4%
Use to engage in nonclass activities	13	268	1246
Use to engage in nonclass activities	40.6%	43.0%	40.5%
Use to make other connections with the learning	13	275	1347
material	40.6%	44.1%	43.8%
Use specialized software or Internet for directed	6	152	717
activities	18.8%	24.4%	23.3%
Do not typically use	11	146	785
	34.4%	23.4%	25.5%
Total respondent count	32	623	3076

4.11. Use laptop in class	Appalachian State University	MA public institutions	All US institutions
Hee to take mater	16	374	1776
Use to take notes	48.5%	59.7%	57.4%
Use to engage in nonclass activities	18	282	1370
Use to engage in nonclass activities	54.5%	45.0%	44.3%
Use to make other connections with the learning	18	306	1597
material	54.5%	48.9%	51.6%
Use specialized software or Internet for directed	10	199	1008
activities	30.3%	31.8%	32.6%
Do not typically use	5	94	429
	15.2%	15.0%	13.9%
Total respondent count	33	626	3095

4.12. In-class mobile: The use of mobile devices in-class can enhance learning.		MA public institutions	All US institutions
Don't know	9	77	527
Don't know	6.3%	3.5%	4.6%
Strongly diagram	20	167	820
Strongly disagree	14.0%	7.6%	7.2%
Disamos	16	229	1184
Disagree	11.2%	10.5%	10.4%
Neutral	36	622	3210
Neutrai	25.2%	28.4%	28.3%
A	56	869	4474
Agree	39.2%	39.7%	39.4%
Strongly ogree	6	224	1128
Strongly agree	4.2%	10.2%	9.9%
Total respondent count (Percentages sum to 100%)	143	2188	11343
	100.0%	100.0%	100.0%

4.12. In-class mobile: In-class use of mobile devices is distracting for me.	Appalachian State University	MA public institutions	All US institutions
David Image	4	38	330
Don't know	2.8%	1.7%	2.9%
Strongly disagree	8	163	879
	5.6%	7.4%	7.7%
Disagrae	21	429	2204
Disagree	14.7%	19.5%	19.4%
Neutral	22	471	2557

	15.4%	21.5%	22.5%
Agree	52	663	3403
	36.4%	30.2%	30.0%
Strongly agree	36	431	1981
	25.2%	19.6%	17.4%
Total respondent count (Percentages sum to 100%)	143	2195	11354
	100.0%	100.0%	100.0%

4.12. In-class mobile: In-class use of mobile devices is distracting for the students.	Appalachian State University	MA public institutions	All US institutions
Dan't know	5	48	402
Don't know	3.5%	2.2%	3.5%
Ctrongly discourse	4	107	490
Strongly disagree	2.8%	4.9%	4.3%
Diagrae	13	269	1486
Disagree	9.1%	12.3%	13.1%
Novitral	24	451	2431
Neutral	16.8%	20.5%	21.4%
Agree	53	777	3935
Agree	37.1%	35.4%	34.7%
Strongly ogree	44	543	2604
Strongly agree	30.8%	24.7%	22.9%
Total respondent count	143	2195	11348
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.12. In-class mobile: I am concerned about the security/privacy problems of mobile technology.	Appalachian State University	MA public institutions	All US institutions
Don't know	14	113	572
Don't know	9.9%	5.2%	5.0%
Strongly diogram	4	158	768
Strongly disagree	2.8%	7.2%	6.8%
Dicagroo	27	479	2388
Disagree	19.0%	21.9%	21.0%
Neutral	36	588	3258
Neutrai	25.4%	26.9%	28.7%
Agroo	45	658	3295
Agree	31.7%	30.1%	29.0%
Chromatic agree	16	192	1068
Strongly agree	11.3%	8.8%	9.4%
Total respondent count (Percentages sum to 100%)	142	2188	11349
	100.0%	100.0%	100.0%

4.12. In-class mobile: I'd like to have more training around effectively incorporating mobile devices into my courses.	Appalachian State University	MA public institutions	All US institutions
Don't know	5	48	371
Don't know	3.5%	2.2%	3.3%
Strongly disagree	19	219	1104
Strongly disagree	13.3%	10.0%	9.7%
Disagree	31	366	1737
Disagree	21.7%	16.7%	15.3%
Neutral	34	481	2677
Neutrai			

	23.8%	21.9%	23.6%
Agree	44	797	4082
	30.8%	36.3%	36.0%
Strongly agree	10	282	1377
	7.0%	12.9%	12.1%
Total respondent count (Percentages sum to 100%)	143	2193	11348
	100.0%	100.0%	100.0%

4.12. In-class mobile: I create assignments that take advantage of student access to mobile technologies.	Appalachian State University	MA public institutions	All US institutions
Don't know	6	56	431
Don't know	4.2%	2.6%	3.8%
Strongly diagram	31	372	1903
Strongly disagree	21.8%	17.0%	16.8%
Diograph	38	631	3092
Disagree	26.8%	28.9%	27.3%
Noutral	31	414	2466
Neutral	21.8%	18.9%	21.8%
Agroo	29	553	2699
Agree	20.4%	25.3%	23.8%
Strongly agree	7	160	742
Strongly agree	4.9%	7.3%	6.5%
Total respondent count	142	2186	11333
(Percentages sum to 100%)	100.0%	100.0%	100.0%

4.12. In-class mobile: My institution makes mobile learning a priority.	Appalachian State University	MA public institutions	All US institutions
Don't know	29	378	2195
Don't know	20.4%	17.3%	19.4%
Strongly diogram	23	315	1461
Strongly disagree	16.2%	14.4%	12.9%
Disagree	43	661	3087
Disagree	30.3%	30.2%	27.2%
Neutral	39	627	3302
Neutrai	27.5%	28.6%	29.1%
Agroo	4	169	1030
Agree	2.8%	7.7%	9.1%
Strongly ogree	4	39	256
Strongly agree	2.8%	1.8%	2.3%
Total respondent count (Percentages sum to 100%)	142	2189	11331
	100.0%	100.0%	100.0%

5.1. Research: I receive adequate and appropriate support from IT staff to conduct my research.	Appalachian State University	MA public institutions	All US institutions
Don't know	2	56	244
Don't know	2.0%	4.4%	4.0%
Strongly diagram	7	141	622
Strongly disagree	7.0%	11.0%	10.2%
Diagram	13	178	825
Disagree	13.0%	13.9%	13.6%
Neutral	24	306	1363
	24.0%	23.9%	22.5%

Amrao	36	388	1946
Agree	36.0%	30.3%	32.1%
Strongly agree	8	86	467
Strongly agree	8.0%	6.7%	7.7%
Not applicable to my research	10	126	602
	10.0%	9.8%	9.9%
Total respondent count (Percentages sum to 100%)	100	1281	6069
	100.0%	100.0%	100.0%

5.1. Research: I have access to IT staff with specialized knowledge about RC in support of my academic discipline.	Appalachian State University	MA public institutions	All US institutions
Don't know	6	126	491
Don't know	6.1%	9.8%	8.1%
Strongly diogram	13	231	857
Strongly disagree	13.1%	18.0%	14.1%
Disagrap	24	251	1095
Disagree	24.2%	19.6%	18.1%
Neutral	15	213	1026
Neutrai	15.2%	16.6%	16.9%
Agree	23	266	1508
Agree	23.2%	20.8%	24.9%
Strongly agree	9	77	451
Strongly agree	9.1%	6.0%	7.4%
Not applicable to my research	9	117	634
Not applicable to my research	9.1%	9.1%	10.5%
Total respondent count	99	1281	6062
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.1. Research: I have access to the specialized software/applications I need to conduct my research.	Appalachian State University	MA public institutions	All US institutions
Don't know	1	54	249
Don't know	1.0%	4.2%	4.1%
Strongly disagree	4	139	523
Strongly disagree	4.0%	10.8%	8.6%
Dicagroo	15	209	847
Disagree	15.0%	16.3%	14.0%
Neutral	20	231	1065
Neutrai	20.0%	18.0%	17.6%
Agraa	47	452	2294
Agree	47.0%	35.3%	37.8%
Strongly agree	7	97	531
Strongly agree	7.0%	7.6%	8.8%
Not applicable to my research	6	100	558
Not applicable to my research	6.0%	7.8%	9.2%
Total respondent count	100	1282	6067
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.1. Research: I receive adequate support for federally funded IT and cyberinfrastructure resources.	Appalachian State University	MA public institutions	All US institutions
Don't know	7	86	379
Don't know	25.9%	20.7%	20.6%
	1		

Ctromalis diagram	0	44	177
Strongly disagree	0.0%	10.6%	9.6%
Disagree	0	37	136
Disagree	0.0%	8.9%	7.4%
Neutral	1	36	159
neuti ai	3.7%	8.7%	8.7%
Agree	3	18	80
Agree	11.1%	4.3%	4.4%
Strongly agree	0	4	14
Subligity agree	0.0%	1.0%	0.8%
Not applicable to my research	16	190	891
Not applicable to my research	59.3%	45.8%	48.5%
Total respondent count (Percentages sum to 100%)		415	1836
	100.0%	100.0%	100.0%

5.1. Research: My institution makes electronic laboratory notebooks available to those whose projects require them.	Appalachian State University	MA public institutions	All US institutions
Don't know	13	177	762
Don't know	48.1%	42.7%	41.5%
Strongly disagree	2	45	165
Strongly disagree	7.4%	10.8%	9.0%
Disagrae	0	32	118
Disagree	0.0%	7.7%	6.4%
Neutral	1	22	94
Neutrai	3.7%	5.3%	5.1%
Agree	1	12	53
Agree	3.7%	2.9%	2.9%
Strongly agree	0	4	18
Strongly agree	0.0%	1.0%	1.0%
Not applicable to my research	10	123	627
Not applicable to my research	37.0%	29.6%	34.1%
Total respondent count	27	415	1837
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.1. Research: I receive timely support from IT staff to conduct my research.	Appalachian State University	MA public institutions	All US institutions
Danie Image	1	30	143
Don't know	3.7%	7.2%	7.8%
Strongly diagram	1	49	217
Strongly disagree	3.7%	11.8%	11.8%
Disagree	3	42	200
Disagree	11.1%	10.1%	10.9%
Neutral	3	93	349
Neuti ai	11.1%	22.5%	19.0%
Agree	12	109	493
Agree	44.4%	26.3%	26.8%
Strongly agree	4	34	143
Strongly agree	14.8%	8.2%	7.8%
Not applicable to my research	3	57	293
NOT applicable to my research	11.1%	13.8%	15.9%
Total respondent count	27	414	1838

(Percentages sum to 100%	100.0%	100.0%	100.0%
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5.1. Research: My institution ensures that faculty doing research are provided ongoing tech support	Appalachian State University	MA public institutions	All US institutions
Don't know	3	81	406
Don't know	11.1%	19.5%	22.1%
Strongly disagroo	1	76	304
Strongly disagree	3.7%	18.3%	16.6%
Disagrae	9	82	305
Disagree	33.3%	19.8%	16.6%
Neutral	6	75	288
i veuti ai	22.2%	18.1%	15.7%
Agree	4	58	267
Agree	14.8%	14.0%	14.5%
Strongly agree	2	10	45
Strongly agree	7.4%	2.4%	2.5%
Not applicable to my recease	2	33	221
Not applicable to my research	7.4%	8.0%	12.0%
Total respondent count	27	415	1836
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.1. Research: My institution provides effective software to support grant applications and management.	Appalachian State University	MA public institutions	All US institutions
Don't know	3	101	408
Don't know	11.1%	24.3%	22.2%
Strongly disagree	4	68	258
Strongly disagree	14.8%	16.4%	14.1%
Disagrae	1	52	251
Disagree	3.7%	12.5%	13.7%
Neutral	10	72	288
Neutrai	37.0%	17.3%	15.7%
Agree	6	58	301
Agree	22.2%	14.0%	16.4%
Strongly agree	0	12	53
Strongly agree	0.0%	2.9%	2.9%
Not applicable to my research	3	52	275
Not applicable to my research	11.1%	12.5%	15.0%
Total respondent count (Percentages sum to 100%)	27	415	1834
	100.0%	100.0%	100.0%

5.1. Research: My institution's text-analysis capabilities are adequate.	Appalachian State University	MA public institutions	All US institutions
Don't know	7	141	644
Don't know	25.9%	33.8%	35.1%
Strongly diogram	3	49	167
Strongly disagree	11.1%	11.8%	9.1%
Disagree	3	47	171
Disagree	11.1%	11.3%	9.3%
Neutral	4	46	199
Neutrai	14.8%	11.0%	10.9%
Agree	1	18	97
Agree	3.7%	4.3%	5.3%

Strongly agree	0	5	18
Strongly agree	0.0%	1.2%	1.0%
Not applicable to my research	9	111	538
	33.3%	26.6%	29.3%
Total respondent count (Percentages sum to 100%)		417	1834
	100.0%	100.0%	100.0%

5.1. Research: My institution provides adequate resources to support cross-institutional research collaborations.	Appalachian State University	MA public institutions	All US institutions
Don't know	10	120	545
Don't know	37.0%	28.8%	29.7%
Strongly disagree	2	51	198
Strongly disagree	7.4%	12.3%	10.8%
Diogram	2	46	171
Disagree	7.4%	11.1%	9.3%
Neutral	2	43	206
Neutrai	7.4%	10.3%	11.2%
A	2	41	188
Agree	7.4%	9.9%	10.3%
Strongly ograc	1	9	42
Strongly agree	3.7%	2.2%	2.3%
Not emplicable to my recover	8	106	484
Not applicable to my research	29.6%	25.5%	26.4%
Total respondent count	27	416	1834
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.1. Research: In general, I am satisfied with my institution's support for my research needs.	Appalachian State University	MA public institutions	All US institutions
Don't know	3	42	200
Don't know	3.1%	3.3%	3.3%
Strongly disagree	9	183	686
Strongly disagree	9.2%	14.3%	11.3%
Disagree	14	222	1022
Disagree	14.3%	17.3%	16.9%
Neutral	32	339	1448
Neutrai	32.7%	26.5%	23.9%
Agree	31	373	2009
Agree	31.6%	29.1%	33.2%
Strongly agree	8	77	394
Strongly agree	8.2%	6.0%	6.5%
Not applicable to my research	1	44	295
Not applicable to my research	1.0%	3.4%	4.9%
Total respondent count	98	1280	6054
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.2. Do you conduct research you consider to be data- intensive research?	Appalachian State University	MA public institutions	All US institutions
No	55	811	3873
140	53.9%	62.6%	63.2%
Voc	47	484	2260
Yes	46.1%	37.4%	36.8%

Total respondent count	102	1295	6133
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.3. How much data per year do you generate?	Appalachian State		
	University	MA public institutions	All US institutions
Don't know	1	33	140
Don't know	7.7%	26.0%	24.6%
44 torobyto (TP)	7	61	230
< 1 terabyte (TB)	53.8%	48.0%	40.5%
1–10 TB	5	26	146
1-10 16	38.5%	20.5%	25.7%
>10-100 TB	0	5	45
J10-100 1B	0.0%	3.9%	7.9%
A00 TP 4 notobyte (PP)	0	1	6
>100 TB-1 petabyte (PB)	0.0%	0.8%	1.1%
> 1 PB	0	1	1
> 1 PB	0.0%	0.8%	0.2%
Total respondent count	13	127	568
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.4. Data: I have adequate network bandwidth available to conduct my research activities.	Appalachian State University	MA public institutions	All US institutions
Don't know	2	21	106
Don't know	4.3%	4.4%	4.8%
Strongly diopares	2	21	135
Strongly disagree	4.3%	4.4%	6.1%
Diograph	6	66	234
Disagree	12.8%	14.0%	10.6%
Neutral	7	80	334
Neutrai	14.9%	16.9%	15.1%
Agroo	22	205	1032
Agree	46.8%	43.3%	46.5%
Strongly ogree	7	54	268
Strongly agree	14.9%	11.4%	12.1%
Net applicable to my recease	1	26	108
Not applicable to my research	2.1%	5.5%	4.9%
Total respondent count	47	473	2217
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.4. Data: I have adequate data storage for my research initiatives.	Appalachian State University	MA public institutions	All US institutions
Don't know	3	16	71
Don't know	6.5%	3.4%	3.2%
Strongly disagree	2	44	229
Strongly disagree	4.3%	9.3%	10.3%
Disagree	9	76	311
Disagree	19.6%	16.1%	14.0%
Neutral	8	63	264
Neutrai	17.4%	13.3%	11.9%
Agree	17	200	1003
Agree	37.0%	42.3%	45.2%
	6	58	283

Strongly agree			
Strongly agree	13.0%	12.3%	12.8%
Not applicable to my research	1	16	58
	2.2%	3.4%	2.6%
Total respondent count (Percentages sum to 100%)	46	473	2219
	100.0%	100.0%	100.0%

5.4. Data: Most of my research data are stored in a cloud-based/virtual environment.	Appalachian State University	MA public institutions	All US institutions
Don't know	1	12	65
Don't know	2.1%	2.5%	2.9%
Strongly disagree	10	108	531
Strongly disagree	21.3%	22.9%	24.1%
Disagrap	13	125	650
Disagree	27.7%	26.5%	29.5%
Neutral	4	58	212
Neutrai	8.5%	12.3%	9.6%
Agraa	10	105	460
Agree	21.3%	22.2%	20.8%
Strongly agree	3	29	157
Strongly agree	6.4%	6.1%	7.1%
Not applicable to my recease	6	35	132
Not applicable to my research	12.8%	7.4%	6.0%
Total respondent count	47	472	2207
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.4. Data: IT professionals are proactive rather than reactive in responding to my research computing needs.	Appalachian State University	MA public institutions	All US institutions
Don't know	7	43	156
Don't know	14.9%	9.1%	7.0%
Strongly disagrae	5	94	476
Strongly disagree	10.6%	19.8%	21.5%
Disagree	10	119	535
Disagree	21.3%	25.1%	24.1%
Neutral	11	102	467
Neutrai	23.4%	21.5%	21.1%
Agree	9	49	277
Agree	19.1%	10.3%	12.5%
Strongly agree	2	19	88
Strongly agree	4.3%	4.0%	4.0%
Not applicable to my recease	3	48	218
Not applicable to my research	6.4%	10.1%	9.8%
Total respondent count	47	474	2217
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.4. Data: The wait time for research computing consultation assistance is too long.	Appalachian State University	MA public institutions	All US institutions
Don't know	12	77	348
	25.5%	16.3%	15.7%
Strongly disagree	3	27	129
Strongly disagree	6.4%	5.7%	5.8%
Diocarco	6	56	337
Disagree			

	12.8%	11.9%	15.2%
	12	122	557
Neutral	25.5%	25.8%	25.2%
Agree	4	71	303
Agree	8.5%	15.0%	13.7%
24	0	16	108
Strongly agree	0.0%	3.4%	4.9%
Not applicable to my receased	10	103	428
Not applicable to my research	21.3%	21.8%	19.4%
Total respondent count (Percentages sum to 100%)	47	472	2210
	100.0%	100.0%	100.0%

5.4. Data: Communication between my research team and IT professionals regarding RC needs is adequate and appropriate.	Appalachian State University	MA public institutions	All US institutions
Don't know	0	9	35
Don't know	0.0%	7.2%	6.3%
Strongly disagree	2	24	99
Strongly disagree	15.4%	19.2%	17.8%
Diograph	4	19	101
Disagree	30.8%	15.2%	18.2%
Neutral	2	28	119
Neutrai	15.4%	22.4%	21.4%
Agree	5	28	119
Agree	38.5%	22.4%	21.4%
Strongly ogree	0	4	25
Strongly agree	0.0%	3.2%	4.5%
Net englischle to my recessely	0	13	57
Not applicable to my research	0.0%	10.4%	10.3%
Total respondent count	13	125	555
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.4. Data: IT professionals play an integral part in providing research computing services for me/my research team.	Appalachian State University	MA public institutions	All US institutions
Don't know	1	7	33
Don't know	7.7%	5.6%	6.0%
Strongly disagree	3	31	168
Strongly disagree	23.1%	24.8%	30.5%
Disagree	2	32	112
Disagree	15.4%	25.6%	20.3%
Neutral	2	14	78
neutrai	15.4%	11.2%	14.2%
Agree	3	16	64
Agree	23.1%	12.8%	11.6%
Strongly agree	1	4	37
Strongly agree	7.7%	3.2%	6.7%
Not applicable to my research	1	21	59
Not applicable to my research	7.7%	16.8%	10.7%
Total respondent count	13	125	551
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.4. Data: I have enough computational resources at my disposal to conduct my research.		MA public institutions	All US institutions
Don't know	0	1	24
Don't know	0.0%	0.8%	4.3%
Strongly diagram	2	22	80
Strongly disagree	15.4%	17.7%	14.5%
Disagrao	1	23	93
Disagree	7.7%	18.5%	16.8%
Neutral	4	25	104
neuti ai	30.8%	20.2%	18.8%
Λατοο	4	36	182
Agree	30.8%	29.0%	32.9%
Strongly ogree	2	9	47
Strongly agree	15.4%	7.3%	8.5%
Not applicable to my receased	0	8	23
Not applicable to my research	0.0%	6.5%	4.2%
Total respondent count	13	124	553
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.4. Data: I have enough data storage resources at my disposal to conduct my research.	Appalachian State University	MA public institutions	All US institutions
Don't know	1	8	30
Don't know	7.7%	6.5%	5.4%
Strongly disagree	2	18	90
Strongly disagree	15.4%	14.5%	16.3%
Disagrap	4	21	87
Disagree	30.8%	16.9%	15.7%
Neutral	2	19	77
Neutrai	15.4%	15.3%	13.9%
Agree	2	39	191
Agree	15.4%	31.5%	34.5%
Strongly ogree	2	14	61
Strongly agree	15.4%	11.3%	11.0%
Not applicable to my research	0	5	17
Not applicable to my research	0.0%	4.0%	3.1%
Total respondent count (Percentages sum to 100%)	13	124	553
	100.0%	100.0%	100.0%

5.4. Data: I have enough visualization resources at my disposal to conduct my research.	Appalachian State University	MA public institutions	All US institutions
Don't know	0	11	77
Don't know	0.0%	8.9%	14.0%
Strongly disagree	1	20	98
Strongly disagree	7.7%	16.1%	17.8%
Disagree	3	22	90
Disagree	23.1%	17.7%	16.3%
Neutral	3	18	80
Neutrai	23.1%	14.5%	14.5%
Agree	2	20	91
Agree	15.4%	16.1%	16.5%
Strongly agree	0	5	20
Strongly agree	0.0%	4.0%	3.6%

Not applicable to my research	4	28	95
Not applicable to my research	30.8%	22.6%	17.2%
Total respondent count	13	124	551
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.4. Data: My institution provides adequate resources for data backup/restore in the event of loss or corruption.	Appalachian State University	MA public institutions	All US institutions
Don't know	0	16	82
Don't know	0.0%	12.9%	14.8%
Strongly diagram	2	24	140
Strongly disagree	15.4%	19.4%	25.3%
Disagroo	4	26	97
Disagree	30.8%	21.0%	17.5%
Neutral	2	19	67
Neutrai	15.4%	15.3%	12.1%
Agree	2	24	114
Agree	15.4%	19.4%	20.6%
Strongly ogree	2	6	30
Strongly agree	15.4%	4.8%	5.4%
Not applicable to my receased	1	9	24
Not applicable to my research	7.7%	7.3%	4.3%
Total respondent count	13	124	554
(Percentages sum to 100%)	100.0%	100.0%	100.0%

5.4. Data: Overall, I have the IT cyberinfrastructure resources and support I need to effectively pursue my research.	Appalachian State University	MA public institutions	All US institutions
Don't know	1	7	40
Don't know	7.7%	5.6%	7.3%
Strongly diagram	1	24	109
Strongly disagree	7.7%	19.4%	19.8%
Disamos	3	28	103
Disagree	23.1%	22.6%	18.7%
Moutral	4	28	116
Neutral	30.8%	22.6%	21.1%
A	2	21	125
Agree	15.4%	16.9%	22.7%
Chromatic anno	2	7	30
Strongly agree	15.4%	5.6%	5.5%
Not applicable to my receive	0	9	27
Not applicable to my research	0.0%	7.3%	4.9%
Total respondent count	13	124	550
(Percentages sum to 100%)		100.0%	100.0%

5.4. Data: I am generally satisfied with the provision of research computing technologies at my institution.	Appalachian State University	MA public institutions	All US institutions
Danie I	2	13	69
Don't know	4.3%	2.7%	3.1%
Strongly disagree	2	57	279
Strongly disagree	4.3%	12.1%	12.6%
Disagree	9	93	391
Disagree	19.1%	19.7%	17.7%

Montrel	16	132	541
Neutral L	34.0%	27.9%	24.5%
Agree	14	139	729
Agree	29.8%	29.4%	33.0%
Strongly agree	4	28	137
Strongly agree	8.5%	5.9%	6.2%
Not applicable to my research	0	11	66
Not applicable to my research	0.0%	2.3%	3.0%
Total respondent count (Percentages sum to 100%)	47	473	2212
	100.0%	100.0%	100.0%

For the next set of questions, respondents were asked to rate themselves on a scale of 0–100.

6.1a. Disposition towards IT		Appalachian State University	MA public institutions	All US institutions
	Mean	71.5	71.3	71.9
Reluctant vs. Enthusiast	SD	24.5	23.1	22.6
	N	136	2084	11139
	Mean	60.5	61.5	61.4
Late adopter vs. Early adopter	SD	26.8	25.7	25.6
	N	133	2028	10882
	Mean	62.2	63.7	63.9
Technophobe vs. Technophile	SD	26.2	23.9	24.0
	N	136	1982	10440
	Mean	59.1	60.5	61.0
Skeptic vs. Cheerleader	SD	25.2	24.3	24.0
	N	129	1983	10508
	Mean	66.0	65.5	64.8
By-the-book vs. Experimenter	SD	20.8	22.3	22.4
	N	130	2005	10686
	Mean	64.9	64.6	65.0
Critic vs. Supporter	SD	24.6	24.0	23.5
	N	130	1992	10572
	Mean	56.1	56.8	56.3
Conservative vs. Radical	SD	17.9	20.4	20.2
	N	121	1860	9855

			All US institutions
Mean	64.7	64.7	65.7
SD	20.0	20.7	20.7
N	134	2032	10869
Mean	63.9	63.3	64.1
SD	20.5	20.6	20.7
N	130	1982	10601
Mean	63.3	63.4	63.9
SD	19.5	20.9	21.2
N	125	1953	10433
Mean	67.3	67.0	67.6
SD	24.0	23.4	23.3
N	134	2018	10722
	SD N Mean SD N Mean SD N Mean	Mean 64.7 SD 20.0 N 134 Mean 63.9 SD 20.5 N 130 Mean 63.3 SD 19.5 N 125 Mean 67.3 SD 24.0	SD 20.0 20.7 N 134 2032 Mean 63.9 63.3 SD 20.5 20.6 N 130 1982 Mean 63.3 63.4 SD 19.5 20.9 N 125 1953 Mean 67.3 67.0 SD 24.0 23.4

	Mean	73.4	73.2	73.4
Useless vs. Useful	SD	20.5	21.9	21.6
	N	130	2010	10762
Distraction vs. Enhancement	Mean	66.1	66.3	67.1
	SD	22.6	23.7	23.4
	N	125	1964	10568

6.1c. Usage of IT		Appalachian State University	MA public institutions	All US institutions
	Mean	78.5	76.6	77.1
Never connected vs. Always connected	SD	21.5	22.0	21.9
	N	134	2093	11238
	Mean	70.5	69.7	70.5
Peripheral vs. Central	SD	22.2	21.9	21.8
	N	130	2001	10647
	Mean	67.3	67.6	68.1
Old media vs. New media	SD	20.8	21.2	21.2
	N	125	1979	10627
	Mean	76.7	76.6	77.0
Infrequent vs. Frequent	SD	22.1	22.0	21.8
	N	134	2050	11042

6.2. Gender	Appalachian State University	MA public institutions	All US institutions
Male	65	952	5357
Male	43.6%	42.5%	44.9%
Female	78	1205	6224
remale	52.3%	53.7%	52.2%
Other	0	5	20
Other	0.0%	0.2%	0.2%
Prefer not to answer	6	80	326
Freier not to answer	4.0%	3.6%	2.7%
Total respondent count		2242	11927
(Percentages sum to 100%)	100.0%	100.0%	100.0%

6.3. Age	Appalachian State University	MA public institutions	All US institutions
Prefer not to answer	15	163	759
	10.3%	7.3%	6.4%
Under 50	61	1034	5286
	42.1%	46.6%	44.8%
50 or older	69	1022	5767
	47.6%	46.1%	48.8%
Total respondent count (Percentages sum to 100%)	145	2219	11812
	100.0%	100.0%	100.0%

6.4. Faculty load area	Appalachian State University	MA public institutions	All US institutions
Agriculture and natural resources	3	43	396
	2.1%	1.9%	3.3%
Biological/life sciences	9	151	1029
	6.2%	6.8%	8.6%

Business, management, marketing	12	221	1117
	8.2%	9.9%	9.4%
Communications/journalism	15	114	561
	10.3%	5.1%	4.7%
Computer and information sciences	6	89	654
	4.1%	4.0%	5.5%
Education, including physical education -	25	337	1419
	17.1%	15.1%	11.9%
Engineering and architecture	3	77	674
	2.1%	3.5%	5.7%
Fine and performing arts	10	153	742
rine and performing arts	6.8%	6.9%	6.2%
Health sciences, including professional programs	14	265	1664
ricalti sciences, including professional programs	9.6%	11.9%	14.0%
Humanities	24	330	1604
	16.4%	14.8%	13.5%
Liberal arts/general studies	14	197	1053
	9.6%	8.8%	8.8%
Manufacturing, construction, repair, or transportation	1	12	80
mandiacturing, construction, repair, or transportation	0.7%	0.5%	0.7%
Physical sciences, including mathematical sciences	18	228	1210
r nysical sciences, moldaing mathematical sciences	12.3%	10.2%	10.2%
Public administration, legal, social, and protective	6	34	214
services	4.1%	1.5%	1.8%
Social sciences	28	375	1759
Social Sciences	19.2%	16.8%	14.8%
Other	13	169	1068
Other	8.9%	7.6%	9.0%
Total respondent count	146	2226	11907

6.5. Ethnicity	Appalachian State University	MA public institutions	All US institutions
White	126	1651	9254
	85.1%	74.6%	78.6%
Black/African American	2	59	382
	1.4%	2.7%	3.2%
Hispanic/Latino	2	148	536
	1.4%	6.7%	4.6%
American Indian/Native/Alaskan	0	25	134
	0.0%	1.1%	1.1%
Asian/Pacific Islander	1	143	616
	0.7%	6.5%	5.2%
Other	0	35	189
	0.0%	1.6%	1.6%
Prefer not to answer	17	211	989
	11.5%	9.5%	8.4%
Total respondent count	148	2214	11773