Intel® Teach to the Future Master and Participant Teacher
Essentials Course End of Training Survey Summary
January 15th – Quarter 2, 2005*

This report presents key findings from Master and Participant Teachers' responses to the Intel Teach to the Future Essentials Course End of Training survey from January 15th through the end of Quarter 2, 2005 (June 30). During this period there were 642 Master Teacher (MT) respondents and 4,429 Participant Teacher (PT) respondents to the End of Training survey, representing a response rate of 88% for MTs and 61% for PTs (64% overall response rate). The End of Training survey was administered via the World Wide Web. All Master and Participant Teachers who participated in the program were asked to complete a survey at the end of their training. Participant and Master Teachers also completed application forms, which contained questions about the respondents' teaching experience, and other demographic items.

Key Findings
Subject Demographics
The application asked respondents to report how many years of teaching experience they had. Small percentages of MTs (10.1%) and PTs (13.3%) had less than three years of teaching experience. More Master Teachers than Participant Teachers reported 3-9 years of teaching experience (35.5 % for MTs and 29.0% for PTs), and 10 - 20 years of experience (34.9% for MTs and 28.9% for PTs). However, a higher percentage of Participant Teachers had over twenty years of teaching experience (23.7% for PTs and 19.5% for MTs).

The survey respondents were asked to describe the professional role that they play in their school district. Master Teachers were more likely than Participant Teachers to report having professional roles other than that of classroom teacher. About half of the MTs labeled themselves as classroom teachers (54.4%), and 20.1% described themselves as technology coordinators. The majority of PTs (79.2%) describe themselves as classroom teachers. In terms of subject taught, the largest group of MTs (33.0%) teach General Curriculum classes followed by Computer Science (15.9%). The largest groups of Participant Teachers teach English/Language Arts (36.7%) and Mathematics (31.3%).

End of Training Feedback
High percentages of Intel® Teach to the Future Master and Participant Teachers reported that the training prepared them to integrate technology and project-based lessons into their teaching practices.

- A large majority of both the MTs and PTs reported that the Intel® Teach to the Future training "focused on the integration of technology into the curriculum" to a "great extent" (94.2% of MTs and 91.2% of the PTs).
- Most respondents indicated that the training "provided useful new ideas for teaching strategies to apply with their students" to a "great extent" (84.4% of MTs and 80.9% of PTs).

*Intel Teach to the Future is now referred to as the Intel® Teach Program

- When asked if the Intel® Teach to the Future training "illustrated effective uses of technology with students," 91.0% of the MTs and 84.7% of PTs said it did to a "great extent."
- Additionally, the majority of respondents felt that the training program "provided opportunities to collaborate with other teachers" to a "great extent" (87.2% for MTs and 82.4% for PTs).

Intel® Teach to the Future Master and Participant Teachers gave positive feedback on the usefulness of the components in the training in helping them integrate technology and project-based lessons into their teaching practices.
- More than 85% of all MTs and PTs reported that "creating student multimedia presentations" was "very useful" in helping them learn how to integrate technology into their teaching practices (87.6% for MTs and 85.6% for PTs).
- The majority of both the MTs and PTs reported that "creating student publications" was "very useful" in helping them integrate technology into their teaching practices (86.4% for MTs and 84.4% for PTs).
- "Creating teacher support materials" was considered "very useful" by majorities of both MTs and PTs in preparing them to learn how to integrate technology into their teaching practices (84.7% for MTs and 82.4% for PTs).
- The greatest discrepancy between MTs and PTs was how they responded to the question, "how useful was creating and exploring the uses of Essential Questions and Unit Questions in helping you learn how to integrate technology into your teaching practices?" Of the MTs, 77.4% reported this was, "very useful," in comparison to 60.6% of PTs who reported this was, "very useful."

Neither Master nor Participant Teachers reported facing major obstacles to technology integration. Those obstacles rated most highly were associated generally with infrastructure and time.
- In response to questions about obstacles to the integration of technology, "lack of technology access in my classroom" was rated as the most common "major obstacle" for MTs (26.4%). For PTs, the most common "major obstacle" was "lack of technology access in my school" (33.2%).
- "Lack of planning time" was the second most common obstacle for MTs, with 22.2% indicating this as a "major obstacle", and 34.4% finding it a "moderate obstacle. "Lack of planning time" was also the second most common obstacle for PTs with 25.8% indicating this was a "major obstacle," and 32.5% reporting it as a "moderate obstacle."
- A majority of MTs and PTs felt that "lack of technical support", "lack of instructional support", and "lack of administrative support" were either minor obstacles or not obstacles at all.

Overall, the participants in the Intel® Teach to the Future gave highly positive feedback on their training experience.
- The majority of MTs (91.0%) and PTs (86.4%) found their trainers to be "very effective."

- When asked if they would "recommend this training to a friend or colleague" 83.0% of MTs and 76.8% of PTs said "definitely yes."

Summary

Master and Participant Teachers from January 15 through the end of the second quarter of 2005 gave very positive feedback on the quality of their trainers and their training experience. The majority of teachers said the training program focused on practices which were useful, and prepared them to integrate technology into their teaching practices. Most Master and Participant Teachers do not report facing major obstacles to technology integration, and many indicate that they plan to make use of technology and project-based teaching techniques when they return to their classroom.

<u>Intel® 2005 End of Training Survey Responses</u>
<u>January 15th – Quarter 2, 2005</u>

1) To what extent do the following statements describe the Intel® Teach to the Future training in which you participated?

a) <u>Focused on integration of technology into the curriculum</u>

Response	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not at All	0	0.0	4	0.1
Small extent	1	0.2	24	0.5
Moderate extent	36	5.6	362	8.2
Great Extent	604	94.2	4035	91.2
Total	641	100.0	4425	100.0

b) <u>Provided useful new ideas for teaching strategies to apply with your students</u>

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not at All	0	0.0	16	0.4
Small extent	11	1.7	86	1.9
Moderate extent	89	13.9	741	16.7
Great Extent	541	84.4	3582	80.9
Total	641	100.0	4425	100.0

c) <u>Illustrated effective uses of technology with students</u>

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not at All	0	0.0	12	0.3
Small extent	0	0.0	68	1.5
Moderate extent	58	9.0	596	13.5
Great Extent	583	91.0	3748	84.7
Total	533	100.0	4424	100.0

d) <u>Provided opportunities to collaborate with other teachers during training?</u>

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not at All	0	0.0	24	0.5
Small extent	6	0.9	118	2.7
Moderate extent	76	11.9	638	14.4
Great Extent	559	87.2	3645	82.4
Total	641	100.0	4425	100.0

2) How useful were each of the following components of the training in helping you learn how to integrate technology into your teaching practices?

a) Understanding and applying Fair Use and copyright law

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not Useful	2	0.3	21	0.5
Somewhat Useful	19	3.0	264	6.0
Moderately Useful	123	19.2	1122	25.4
Very Useful	498	77.6	3018	68.2
Total	642	100.0	4425	100.0

b) Creating, and exploring the uses of, Essential Questions and Unit Questions

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not Useful	2	0.3	38	0.9
Somewhat Useful	18	2.8	310	7.0
Moderately Useful	124	19.3	1394	31.5
Very Useful	497	77.4	2681	60.6
Total	641	100.0	4423	100.0

c) Discussing and thinking through pedagogical topics

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not Useful	1	0.2	61	1.4
Somewhat Useful	34	5.3	411	9.3
Moderately Useful	171	26.6	1669	37.7
Very Useful	436	67.9	2284	51.6
Total	642	100.0	4425	100.0

d) Locating and evaluating resources for my unit

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not Useful	1	0.2	25	0.6
Somewhat Useful	16	2.5	149	3.4
Moderately Useful	143	22.3	892	20.2
Very Useful	481	75.0	3359	75.9
Total	641	100.0	4425	100.0

e) Creating student multimedia presentations

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not Useful	2	0.0	30	0.7
Somewhat Useful	13	1.7	85	1.9
Moderately Useful	73	10.7	523	11.8
Very Useful	554	87.6	3787	85.6
Total	642	100.0	4425	100.0

f) Creating student publications

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not Useful	2	0.3	34	0.8
Somewhat Useful	12	1.9	95	2.1
Moderately Useful	73	11.4	562	12.7
Very Useful	554	86.4	3732	84.4
Total	641	100.0	4423	100.0

g) Creating teacher support materials

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not Useful	2	0.3	22	0.5
Somewhat Useful	9	1.4	108	2.4
Moderately Useful	87	13.6	648	14.6
Very Useful	554	84.7	3646	82.4
Total	642	100.0	4424	100.0

h) Creating student web sites

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not Useful	4	0.6	144	3.3
Somewhat Useful	22	3.4	247	5.6
Moderately Useful	102	15.9	842	19.0
Very Useful	513	80.0	3192	72.1
Total	641	100.0	4425	100.0

i) Creating unit plan support materials

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not Useful	2	0.3	27	0.6
Somewhat Useful	13	2.0	143	3.2
Moderately Useful	94	14.6	810	18.3
Very Useful	533	83.0	3444	77.8
Total	642	100.0	4424	100.0

j) Peer-reviewing unit plans

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not Useful	3	0.5	70	1.6
Somewhat Useful	30	4.7	388	8.8
Moderately Useful	171	26.7	1332	30.1
Very Useful	437	68.2	2634	59.5
Total	641	100.0	4424	100.0

k) Creating an implementation plan

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not Useful	5	0.8	62	1.4
Somewhat Useful	41	6.4	302	6.8
Moderately Useful	163	25.4	1174	26.5
Very Useful	433	67.4	2886	65.2
Total	642	100.0	4424	100.0

3) Think about the trainer who led your workshop and his or her leadership of the training as a whole. In your opinion:

a) How successful was he/she at exposing participants to the overall scope and sequence of the curriculum?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all	0	0.0	26	0.6
Somewhat	11	1.7	122	2.8
Adequately	65	10.1	637	14.4
Very	565	88.1	3643	82.3
Total	641	100.0	4428	100.0

b) How successful was he/she at leading participants through the process of creating unit plans?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all	0	0.0	33	0.7
Somewhat	11	1.7	151	3.4
Adequately	88	13.7	650	14.7
Very	542	84.6	3594	81.2
Total	641	100.0	4428	100.0

c) How successful was he/she at engaging the group in discussions of pedagogical and classroom management issues?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all	0	0.0	56	1.3
Somewhat	12	1.9	237	5.4
Adequately	81	12.6	863	19.5
Very	548	85.5	3272	73.9
Total	641	100.0	4428	100.0

d) How well prepared was he/she for each day's activities, on average?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all	0	0.0	20	0.5
Somewhat	2	0.3	97	2.2
Adequately	37	5.8	477	10.8
Very	602	93.9	3844	86.6
Total	641	100.0	4428	100.0

4) Think about the trainer who led your workshop and his or her interactions with individual teachers, including yourself. In your opinion:

a) How responsive was your trainer to teachers' questions about how to use the technology?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all	1	0.2	13	0.3
Somewhat	4	0.6	89	2.0
Adequately	39	6.1	317	7.2
Very	598	93.1	4006	90.5
Total	642	100.0	4425	100.0

b) How skilled was your trainer at helping teachers develop ideas for their unit plan?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all	2	0.03	25	0.6
Somewhat	10	1.6	142	3.2
Adequately	115	17.9	666	15.1
Very	515	80.2	3592	81.2
Total	642	100.0	4425	100.0

c) How effective was your trainer at working with teachers who were having trouble with portions of the curriculum?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all	1	0.2	22	0.5
Somewhat	7	1.1	140	3.2
Adequately	94	14.6	480	10.8
Very	540	84.1	3782	85.5
Total	642	100.0	4424	100.0

d) How skilled was your trainer at helping teachers find resources to use in their unit plan?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all	1	0.2	28	0.6
Somewhat	11	1.7	127	2.9
Adequately	115	17.9	598	13.5
Very	515	80.2	3672	83.0
Total	642	100.0	4425	100.0

5) Overall, how effective was your trainer in facilitating your experience of this training?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all	1	0.2	20	0.5
Somewhat	4	0.6	105	2.4
Adequately	53	8.3	479	10.8
Very	583	91.0	3824	86.4
Total	641	100.0	4428	100.0

6) Would you recommend this training to a friend or a colleague?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Definitely not	1	0.2	24	0.5
Probably not	7	1.1	111	2.5
Probably yes	101	15.8	891	20.1
Definitely yes	532	83.0	3400	76.8
Total	641	100.0	4426	100.0

7) Having completing your training, how well prepared do you feel to do the following activities with your students?

a) Implement methods of teaching that emphasize independent work by students.

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all prepared	1	0.2	15	0.4
Somewhat prepared	11	2.1	230	5.5
Moderately Well	112	21.3	1531	36.4
Very well prepared	402	76.4	2428	57.8
Total	526	100.0	4204	100.0

b) Integrate educational technology into the grade or subject that I teach.

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all prepared	0	0.0	15	0.4
Somewhat prepared	12	2.3	201	4.8
Moderately Well	77	14.6	1241	29.5
Very well prepared	437	83.1	2747	65.3
Total	526	100.0	4204	100.0

c) Support my students in using technology in their schoolwork.

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all prepared	1	0.2	15	0.4
Somewhat prepared	7	1.3	239	5.7
Moderately Well	76	14.4	1314	31.3
Very well prepared	442	84.0	2636	62.7
Total	526	100.0	4204	100.0

d) Evaluate technology-based work my students produce.

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Not at all prepared	1	0.2	14	0.3
Somewhat prepared	10	1.9	204	4.9
Moderately Well	102	19.4	1284	30.5
Very well prepared	413	78.5	2702	64.3
Total	526	100.0	4204	100.0

e) Align my teaching and assessment with state learning standards.

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not at all prepared	1	0.2	18	0.4
Somewhat prepared	7	1.3	189	4.5
Moderately Well	89	16.9	1205	28.7
Very well prepared	429	81.6	2790	66.4
Total	526	100.0	4202	100.0

8) How much of an obstacle to the integration of technology into your teaching is each of the following?

a) Lack of technology access in my school

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not an obstacle	163	31.0	876	20.9
Small obstacle	136	25.9	788	18.8
Moderate obstacle	149	28.3	1143	27.2
Major obstacle	78	14.8	1394	33.2
Total	526	100.0	4201	100.0

b) Lack of technology access in my classroom

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not an obstacle	143	27.2	1308	31.1
Small obstacle	103	19.6	1031	24.5
Moderate obstacle	141	26.8	1288	30.6
Major obstacle	139	26.4	576	13.7
Total	526	100.0	4203	100.0

c) Lack of planning time

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not an obstacle	78	14.8	642	15.3
Small obstacle	150	28.5	1110	26.4
Moderate obstacle	181	34.4	1365	32.5
Major obstacle	117	22.2	1085	25.8
Total	526	100.0	4202	100.0

d) Lack of flexible classroom time

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not an obstacle	113	21.5	748	17.8
Small obstacle	166	31.6	1158	27.6
Moderate obstacle	159	30.2	1363	32.4
Major obstacle	88	16.7	932	22.2
Total	526	100.0	4201	100.0

e) Lack of administrative support

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not an obstacle	268	51.0	2363	56.2
Small obstacle	117	22.2	1057	25.2
Moderate obstacle	90	17.1	558	13.3
Major obstacle	51	9.7	224	5.3
Total	526	100.0	4202	100.0

f) Lack of technical support

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not an obstacle	180	34.2	1680	40.0
Small obstacle	169	32.1	1301	31.0
Moderate obstacle	104	19.8	839	20.0
Major obstacle	73	13.9	382	9.1
Total	526	100.0	4202	100.0

g) Lack of instructional support

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Not an obstacle	229	43.5	1801	42.9
Small obstacle	177	33.7	1395	33.2
Moderate obstacle	88	16.7	794	18.9
Major obstacle	32	6.1	213	5.1
Total	526	100.0	4203	100.0

9) Will the ideas and skills you learned from the Intel® Teach to the Future training help you successfully integrate technology into your students' activities?

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Definitely not	2	0.4	20	0.5
Probably not	3	0.6	105	2.4
Probably yes	71	13.5	1218	27.5
Definitely yes	451	85.6	2861	64.6
Total	527	100.0	4429	100.0

10) During a typical workweek of teaching a class, in how many class meeting times did your student do each of the following (# of times):

Responses	Master Teachers		Participant Teachers	
	N	Mean	N	Mean
Use computers to learn about subject matter	527	6.7	4199	3.7
Use computers to practice and master skills	527	5.8	4197	3.9
Engage in independent research using the computer	527	5.3	4195	2.9
Work collaboratively with other students in the same classroom on the classroom	527	4.8	4196	2.9
Produce multimedia products, Web pages, or video reports/projects	527	3.9	4195	1.5
Correspond with experts, authors, or students from other schools via email or the Internet	527	1.7	4192	1.0
Review and revise their own work	527	5.1	4195	2.8

11) Please select the term that best describes your level of experience integrating technology into your teaching BEFORE the training.

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Never Used Before with Students	13	2.0	474	10.7
Novice User	75	11.7	1238	28.0
Intermediate User	172	26.8	1643	37.1
Advanced User	155	24.2	647	14.6
Expert User	226	35.3	202	4.6
Total	641	100.0	4429	100.0

Questions Asked Only of Master Teachers

12) How well prepared do you feel to present this workshop to the teachers at your LEA?

Responses	N	%
Unprepared	1	0.2
Somewhat prepared	50	7.8
Adequately prepared	302	47.0
Well Prepared	289	45.0
Total	642	100.0

13) What aspect of the training was the most helpful in preparing you to lead this training yourself?

a) Observing my senior trainer's own techniques for guiding us through the training.

Responses	N	%
Not Helpful	6	0.9
Somewhat Helpful	144	22.4
Very Helpful	492	76.6
Total	642	100.0

b) Tips on leading the training provided by my senior trainer.

Responses	N	%
Not Helpful	3	0.5
Somewhat Helpful	110	17.1
Very Helpful	529	82.4
Total	642	100.0

c) The notes on leading the training included in each module.

Responses	N	%
Not Helpful	3	0.5
Somewhat Helpful	109	17.0
Very Helpful	530	82.6
Total	642	100.0

d) Reviewing the Master Teacher resources in the curriculum binder and CD-ROM.

Responses	N	%
Not Helpful	3	0.5
Somewhat Helpful	52	8.1
Very Helpful	587	91.4
Total	642	100.0

e) Talking with other Master Teachers about the curriculum.

Responses	N	%
Not Helpful	20	3.1
Somewhat Helpful	200	31.2
Very Helpful	422	65.7
Total	642	100.0

f) The process of creating a unit portfolio myself.

Responses	N	%
Not Helpful	5	0.8
Somewhat Helpful	64	10.0
Very Helpful	573	89.3
Total	642	100.0

14) About how much of your work time do you spend leading in-service training for your colleagues in your **current** professional life?

Responses	N	%
0-5%	251	39.1
6-25%	180	28.0
26-50%	80	12.5
51-75%	73	11.4
76-100%	58	9.0
Total	642	100.0

15)   How many years of teaching experience do you have?

	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Less than 3	53	10.1	590	13.3
3 to 9	187	35.5	1284	29.0
10 to 20	184	34.9	1279	28.9
Over 20	103	19.5	1051	23.7
Total	527	100.0	4429	100.0

16) Which of the following best describes the professional role you play in your school
    district?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Classroom teacher	349	54.4	3507	79.2
Enrichment/Resource teacher	45	7.0	358	8.1
Technology coordinator	129	20.1	171	3.9
Other professional staff	87	13.6	106	2.4
Administrator	16	2.5	71	1.6
Other	15	2.3	215	4.9
Total	641	100.0	4428	100.0

17)   What grade level(s) are you teaching this year?

	Master Teachers		Participant Teachers	
Responses	N	Percentage	N	Percentage
Elementary K-3	189	29.4	1603	36.2
Elementary 4-5	181	28.2	1071	24.2
Middle 6-8	172	26.8	1271	28.7
High 9-12	185	28.8	1131	25.5
Total	*	**	*	**

 *Total exceeds sample size because respondents could select more than one category.

**Totals exceed 100% because respondents could select more than one category.

18) What subject(s) are you teaching this year?

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
Arts	13	2.0	336	7.6
Bilingual	28	4.4	221	5.0
Computer Science	102	15.9	278	6.3
Eng/Lang Arts	93	14.5	1626	36.7
Family/Consumer Science	1	0.2	78	1.8
Foreign Language	8	1.2	118	2.7
Gen Curriculum	212	33.0	1174	26.5
Gifted	23	3.6	247	5.6
Mathematics	66	10.3	1385	31.3
Music	4	0.6	173	3.9
Physical Education	4	0.6	221	5.0
Religion	1	0.2	20	0.5
Science	78	12.1	1295	29.2
Social Studies	51	7.9	1232	27.3
Special Education	30	4.7	574	13.0
Voc Training	24	3.7	245	5.5
Total	*	**	*	**

*Total N exceeds sample size because respondents could select more than one category.
**Totals exceed 100% because respondents could select more than one category.

19) Percent of students in school eligible for free/reduced-price lunch

Responses	Master Teachers		Participant Teachers	
	N	Percentage	N	Percentage
0-25%	173	28.6	1168	26.4
26-50%	134	22.1	1243	28.1
51-75%	102	16.9	1024	23.2
76-100%	196	32.4	988	22.3
Total	605	100.0	4423	100.0