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January 14, 2004

Board of Education
Littleton Public Schools
5776 South Crocker Street
Littleton, Colorado 80120

Dear Board Members:

As you know from my previous letters, other communications, and frequent comments made at board meetings during the past 15 months, I believe that there still is much room for significant improvement in the LPS plans to increase student learning. My initial critique of those October, 2002 LPS 2002-2005 School Improvement Plans included the following statements:

- Many school plans show cursory analysis of data, unclear problem statements, and little identification of probable (or even possible) causes that would provide confidence in the likely effectiveness of planned activities.
- If the focus is upon CSAP proficiency to retain accreditation for the district and schools, then separate “academic achievement plans” should be developed to get better results for all students without jeopardizing accreditation.
- Many drafts needed clean-up for language mechanics and other careless errors.

The latest objective evidence of changes in the quality and amount of LPS student learning is the November, 2003 ITBS/CogAT results that were made available to me on January 9. The attached 17 pages of information include excerpts from the 40-page 1/14/03 report on “Littleton Public Schools Nov/2002 ITBS/CogAT Results” that you received 12 months ago. I delivered a copy of that 17-page attachment to the office of the Director of Assessment and Evaluation on January 12 for review. I also welcome your questions and/or comments about that draft.

The extensive tabulations of ITBS/CogAT data were selected from Riverside Publishing Service 10 reports (System and Building Frequency Distributions) on the Iowa Tests of Basic Skills and the Cognitive Abilities Test that were administered each November for the past three years for nearly all LPS students in Grades 3, 5, and 7 in the 19 regular elementary and middle schools (both charter schools were not included).

The first page is an overall summary of selected frequency distribution data. That includes data sources, comparisons with Nov/2002 and Nov/2001 ITBS/CogAT results, percentages of students below grade level, and percentages of students at least one year below grade level.

The second page is a tabulation of the Nov/2003 percentages of students below grade level in Grades 3, 5, and 7 for the total district and each school in the eight principal ITBS totals (reading, language, mathematics, core, social studies, science, sources of information, and composite). CogAT composite standard age score (SAS) averages have been included.

Pages 3, 4, and 5 (Grades 3, 5, and 7) have the district frequency distribution averages for those eight principal totals in terms of the ITBS grade equivalent (GE) at selected percentiles (90%, 75%, 50%, 25%, and 10%) for 2003, 2002, and 2001. The CogAT composite standard age score (SAS) averages for those three years have been included. Percentages of students below grade level and percentages of students at least one year below grade level also are tabulated.

At the district level for Grades 3, 5, and 7 there were some significant decreases in the averages for the Grade 7 ITBS grade equivalent (GE) and CogAT standard age scores (SAS). The district composite ITBS percentage totals of students below grade level for Grades 3, 5, and 7 were 19%, 24%, and 27%, respectively. At the building level there were more changes in results associated with differences in grade-level groups in addition to those related to curriculum and instruction. The remaining 12 pages of the attachment are for four middle schools and four low-performing elementary schools. Tabulations for the other 11 elementary schools will be provided next week.

As you know, the Colorado Student Assessment Program (CSAP) focuses on reading, writing, and mathematics (the 3 Rs), whereas ITBS includes those and other subject areas. Also, CSAP requires higher performance to be considered proficient, whereas ITBS is referenced to national norms. The higher-performing schools on CSAP tended to also do well on ITBS, and the lower-performing schools on CSAP also tended to not do as well on ITBS. Some of the diagnostic information from ITBS reports can be very helpful for specifying problems, identifying causes, and aiding selection of effective corrective actions to improve student performance as measured by both ITBS and CSAP. Many LPS officials seem to have made little progress in terms of the “understanding – agreement – commitment” continuum that is vital for significant improvement of student learning, particularly for unfortunate below-grade-level students who need more help.

When I reviewed the LPS ITBS/CogAT data a year ago along with my previous critique of the LPS school improvement plans, I predicted to you that there would be little or no improvement in the subsequent CSAP performance for 2003. All but one of the LPS schools were rated as “Stable” by the 2003 Colorado School Accountability Reports academic improvement ratings. It looks like LPS will have another year of “Stable” performance with little or no improvement.

I am especially interested in measurements of student academic achievement that emphasize continual annual reduction of the percentage of students who are below grade level. Those students clearly have been left behind compared to state and national standards.

Sincerely,



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cc: Supt. Stan Scheer
attachment

**Littleton Public Schools
Nov/2003 ITBS/CogAT Results
Summary of Selected Frequency Distribution Data**

Data sources:

- Iowa Tests of Basic Skills (Form M, Fall 1995 Norms, Test Date 11/03)
- Cognitive Abilities Test (Form 5, Fall 1995 Norms, Test Date 11/03)
- ITBS/CogAT Service 10 reports (System and Building Frequency Distributions)
- Both charter schools (which do ITBS/CogAT testing in the spring) were excluded.
- Nearly all other LPS students in Grades 3, 5, and 7 were tested (976, 1013, and 1099).
- District-level data are on pages 2-5, and building-level data are listed in alphabetical order on pages 2 and 6-39 for the 19 LPS regular elementary and middle schools.

Comparisons with Nov/2002 and Nov/2001 ITBS/CogAT results:

- Data lines have a “Year” right-side identifier on pages 3-5.
- At the district level for Grades 3, 5, and 7 there were very few significant changes in the averages for ITBS grade equivalent (GE) and CogAT standard age scores (SAS) for 2003/2002/2001.
 - Reading totals were 4.14/4.18/4.15, 6.47/6.53/6.47, and 9.12/9.46/9.52.
 - Language totals were 4.13/4.24/4.28, 7.02/7.22/7.26, and 9.45/9.58/9.74.
 - Mathematics totals were 4.00/3.98/3.95, 6.27/6.43/6.35, and 9.02/9.47/9.44.
 - Core totals were 4.05/4.09/4.08, 6.49/6.63/6.60, and 9.17/9.48/9.54.
 - Social studies totals were 4.13/4.08/4.11, 6.67/6.63/6.63, and 8.88/9.33/9.29.
 - Science totals were 4.29/4.37/4.36, 7.07/7.20/7.08, and 9.54/9.96/9.86.
 - Sources of information totals were 4.12/4.11/4.11, 6.78/6.88/6.99, and 9.09/9.56/9.49.
 - Composite ITBS totals were 4.06/4.06/4.07, 6.58/6.68/6.66, and 9.17/9.57/9.56.
 - Composite CogAT totals were 108.7/108.5/108.5, 109.5/109.9/108.8, and 108.8/110.9/111.7.
- At the building level there were more changes in results associated with differences in grade-level groups in addition to those related to curriculum and instruction.

Percentages of students below grade level (%BG):

- The district composite ITBS totals for %BG were 19%, 24%, and 27% for Grades 3, 5, and 7.
- The building-level ranges for %BG were 2-50%, 6-74%, and 19-31% for Grades 3, 5, and 7.
- The district composite CogAT SAS scores were 108.7, 109.5, and 108.8 for Grades 3, 5, and 7.
- The ITBS GE percentages (%BG for GE below 3.2, 5.2, or 7.2) and CogAT SAS scores for the district total and each building are summarized by grade level on page 2; these are stated in more detail (along with % of students with SAS below 100) on pages 3-39.

Percentages of students at least one year below grade level (%1YBG):

- The district composite ITBS totals for %1YBG were 3%, 11%, and 20% (refer to pages 3-5 for GE below 2.3, 4.3, or 6.3) for Grades 3, 5, and 7.
- The building-level ranges for %1YBG were 0-17%, 2-42%, and 12-25% (refer to pages 6-39 for GE below 2.3, 4.3, or 6.3) for Grades 3, 5, and 7.

Please contact Sam Drury (phone 303-795-1535; e-mail samdrury@ix.netcom.com) with your questions and/or comments about this draft.

Littleton Public Schools
Nov/2003 ITBS/CogAT Results
Percentages of Students Below Grade Level

Grade 3		--- % of Students Below Grade Level (ITBS GE 3.2) ---								SAS
Page	School	Read	Lang	Math	Core	SocS	Scie	Info	Comp	Avg
3	District	18	24	21	19	18	20	21	19	108.7
6	Ames	32	36	35	34	31	31	36	32	102.0
8	Centennial	31	48	39	41	30	39	44	41	99.9
10	East	59	53	59	52	46	49	47	50	95.4
13	Field	33	40	45	40	33	38	37	45	100.3
15	Franklin	17	21	19	14	17	16	21	18	113.0
18	Highland	19	28	15	15	22	22	21	18	106.5
20	Hopkins	30	31	21	26	26	34	31	27	101.3
22	Lenski	6	7	5	6	7	8	6	6	116.1
24	Moody	13	28	21	24	20	18	26	21	108.5
27	Peabody	7	20	9	9	7	18	14	9	112.0
30	Runyon	8	7	8	6	7	11	4	5	114.2
32	Sandburg	24	26	21	22	23	20	23	19	107.7
34	Twain	19	22	30	20	10	15	20	18	108.4
36	Whitman	8	14	14	5	8	14	7	5	112.4
38	Wilder	1	9	5	2	2	8	4	2	113.4

Grade 5		--- % of Students Below Grade Level (ITBS GE 5.2) ---								SAS
Page	School	Read	Lang	Math	Core	SocS	Scie	Info	Comp	Avg
4	District	21	24	27	24	21	27	26	24	109.5
7	Ames	26	35	38	30	22	25	25	29	107.3
9	Centennial	33	42	44	38	32	37	46	38	101.4
11	East	64	58	63	68	59	57	64	74	101.1
14	Field	49	40	49	49	40	43	38	46	101.4
16	Franklin	19	10	23	19	13	31	25	22	109.1
19	Highland	24	36	30	30	29	26	26	29	108.2
21	Hopkins	12	19	19	19	17	30	22	20	108.7
23	Lenski	12	20	15	15	13	16	13	15	114.7
25	Moody	24	19	27	25	21	34	22	24	110.4
28	Peabody	28	26	36	29	29	34	30	31	108.1
31	Runyon	9	12	12	8	15	17	24	13	112.9
33	Sandburg	8	12	14	10	5	14	16	11	115.5
35	Twain	15	28	28	25	14	22	27	19	109.3
37	Whitman	18	25	29	23	32	29	28	23	107.2
39	Wilder	5	7	9	6	7	12	13	6	114.3

Grade 7		--- % of Students Below Grade Level (ITBS GE 7.2) ---								SAS
Page	School	Read	Lang	Math	Core	SocS	Scie	Info	Comp	Avg
5	District	24	26	27	25	29	23	31	27	108.8
12	Euclid	24	30	32	29	29	25	37	30	106.7
17	Goddard	29	33	27	28	33	25	36	31	107.0
26	Newton	23	28	27	26	29	27	32	28	109.1
29	Powell	19	17	22	17	26	18	20	19	112.2

**Littleton Public Schools
November ITBS/CogAT Results
Grade 3 District Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	4.14	5.69	4.98	4.11	3.30	2.66	18	6	2003
Reading	4.18	5.74	4.84	4.11	3.34	2.79	18	4	2002
Reading	4.15	5.73	4.83	4.09	3.30	2.74	18	4	2001
Language	4.13	6.27	4.98	3.86	3.15	2.37	24	7	2003
Language	4.24	6.36	5.26	4.03	3.24	2.45	21	6	2002
Language	4.28	6.31	5.31	4.09	3.29	2.56	20	4	2001
Mathematics	4.00	5.52	4.70	3.89	3.23	2.60	21	2	2003
Mathematics	3.98	5.54	4.67	3.87	3.21	2.57	22	2	2002
Mathematics	3.95	5.46	4.61	3.77	3.24	2.64	20	2	2001
Core Total	4.05	5.55	4.77	4.00	3.30	2.60	19	5	2003
Core Total	4.09	5.61	4.77	4.04	3.34	2.70	19	3	2002
Core Total	4.08	5.45	4.76	4.08	3.37	2.72	18	2	2001
Social Studies	4.13	5.63	5.06	3.97	3.28	2.70	18	4	2003
Social Studies	4.08	5.62	4.63	3.95	3.27	2.76	18	3	2002
Social Studies	4.11	5.62	4.64	3.99	3.28	2.72	18	3	2001
Science	4.29	6.47	5.17	4.00	3.29	2.54	20	5	2003
Science	4.37	6.51	5.21	4.02	3.26	2.54	22	5	2002
Science	4.36	6.48	5.23	4.05	3.29	2.51	21	6	2001
Sources of Info.	4.12	5.93	4.83	3.94	3.26	2.69	21	5	2003
Sources of Info.	4.11	5.88	4.82	3.96	3.23	2.66	22	4	2002
Sources of Info.	4.11	5.72	4.80	4.04	3.24	2.77	21	4	2001
Composite ITBS	4.06	5.58	4.78	3.99	3.28	2.66	19	3	2003
Composite ITBS	4.06	5.53	4.73	3.97	3.30	2.67	18	2	2002
Composite ITBS	4.07	5.41	4.76	3.97	3.33	2.68	20	2	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	108.7	127.4	118.8	109.7	98.2	88.4	27		2003
Composite CogAT	108.5	127.8	118.4	108.7	98.5	88.8	26		2002
Composite CogAT	108.5	127.0	117.9	109.2	98.7	88.9	26		2001

**Littleton Public Schools
November ITBS/CogAT Results
Grade 5 District Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year	
	Avg	90%	75%	50%	25%	10%				
Reading	6.47	8.52	7.53	6.61	5.39	4.26	21	9	2003	
Reading	6.53	8.49	7.53	6.44	5.52	4.57	16	7	2002	
Reading	6.47	8.53	7.56	6.39	5.41	4.40	19	8	2001	
Language	7.02	10.53	8.66	6.69	5.26	4.02	24	12	2003	
Language	7.22	10.96	8.97	6.83	5.35	4.31	21	9	2002	
Language	7.26	10.26	8.83	6.91	5.43	4.39	19	8	2001	
Mathematics	6.27	8.74	7.51	6.01	4.97	3.97	27	12	2003	
Mathematics	6.43	8.73	7.64	6.34	5.18	4.26	24	9	2002	
Mathematics	6.35	8.60	7.57	6.20	5.16	4.17	21	10	2001	
Core Total	6.49	8.78	7.71	6.36	5.16	4.35	24	9	2003	
Core Total	6.63	8.98	7.73	6.56	5.39	4.52	21	6	2002	
Core Total	6.60	8.84	7.73	6.51	5.25	4.51	21	6	2001	
Social Studies	6.67	9.42	8.18	6.56	5.21	4.09	21	10	2003	
Social Studies	6.63	9.37	8.15	6.23	5.23	4.28	19	9	2002	
Social Studies	6.63	9.37	8.19	6.22	5.21	4.14	21	9	2001	
Science	7.07	10.98	8.73	6.90	5.05	3.63	27	15	2003	
Science	7.20	11.01	9.07	6.93	5.11	3.98	25	13	2002	
Science	7.08	11.00	8.74	6.87	5.08	3.96	26	14	2001	
Sources of Info.	6.78	10.25	8.45	6.47	5.08	3.90	26	13	2003	
Sources of Info.	6.88	10.26	8.46	6.56	5.14	4.27	24	9	2002	
Sources of Info.	6.99	10.31	8.51	6.62	5.15	4.34	23	8	2001	
Composite ITBS	6.58	9.02	7.88	6.51	5.14	4.08	24	11	2003	
Composite ITBS	6.68	9.00	7.88	6.57	5.37	4.39	21	8	2002	
Composite ITBS	6.66	9.02	8.06	6.51	5.22	4.36	22	8	2001	
CogAT Test	SAS Avg	-- SAS at Selected Percentiles ---					%SAS <100			
Composite CogAT	109.5	127.2	118.6	109.1	99.4	91.2	24		2003	
Composite CogAT	109.9	127.1	119.0	110.3	100.8	92.0	21		2002	
Composite CogAT	108.8	125.6	117.8	108.6	99.6	91.3	23		2001	

**Littleton Public Schools
November ITBS/CogAT Results
Grade 7 District Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	9.12	12.61	11.46	9.17	7.26	5.67	24	16	2003
Reading	9.46	12.71	11.69	9.54	7.56	5.77	21	14	2002
Reading	9.52	12.86	11.68	9.55	7.61	6.06	19	11	2001
Language	9.45	13.62	12.52	9.47	6.86	4.73	26	19	2003
Language	9.58	13.65	12.63	9.60	7.00	4.97	25	18	2002
Language	9.74	13.72	12.65	9.63	7.36	5.47	23	15	2001
Mathematics	9.02	12.82	11.43	8.89	6.78	5.26	27	18	2003
Mathematics	9.47	13.04	12.01	9.34	7.24	5.69	23	14	2002
Mathematics	9.44	12.98	12.01	9.33	7.34	5.63	22	14	2001
Core Total	9.17	12.85	11.55	9.25	7.12	5.23	25	17	2003
Core Total	9.48	13.02	11.97	9.53	7.39	5.69	22	14	2002
Core Total	9.54	13.01	11.96	9.54	7.49	5.86	20	12	2001
Social Studies	8.88	13.07	11.20	8.97	6.69	4.63	29	23	2003
Social Studies	9.33	13.14	11.91	9.40	7.09	5.36	25	19	2002
Social Studies	9.29	13.10	11.87	9.39	7.11	5.39	24	18	2001
Science	9.54	13.73	12.55	9.76	6.74	4.90	23	19	2003
Science	9.96	13.92	13.17	10.45	7.23	5.30	20	16	2002
Science	9.86	13.87	12.92	9.80	7.25	5.28	20	17	2001
Sources of Info.	9.09	13.24	12.19	9.05	6.40	4.70	31	23	2003
Sources of Info.	9.56	13.54	12.68	9.58	6.83	5.10	27	19	2002
Sources of Info.	9.49	13.35	12.41	9.55	6.77	5.13	28	19	2001
Composite ITBS	9.17	12.99	11.81	9.12	6.96	5.13	27	20	2003
Composite ITBS	9.57	13.27	12.27	9.52	7.29	5.58	23	16	2002
Composite ITBS	9.56	13.17	12.10	9.53	7.36	5.71	23	15	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	108.8	126.7	118.5	109.6	99.0	89.6	25		2003
Composite CogAT	110.9	130.1	121.4	110.6	100.6	91.6	21		2002
Composite CogAT	111.7	128.9	120.8	112.0	102.2	93.3	19		2001

**Littleton Public Schools
November ITBS/CogAT Results
Euclid MS Grade 7 Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	9.12	12.44	10.85	9.17	7.25	5.72	24	15	2003
Reading	9.69	12.72	11.70	10.16	7.78	6.26	20	9	2002
Reading	9.62	12.73	11.73	9.81	7.54	6.06	20	12	2001
Language	9.26	13.69	12.43	9.26	6.33	4.57	30	23	2003
Language	9.55	13.70	12.48	9.33	7.39	5.35	22	16	2002
Language	9.52	13.59	12.37	9.55	7.18	5.31	25	16	2001
Mathematics	8.51	12.40	10.58	8.34	6.47	5.07	32	21	2003
Mathematics	9.08	12.79	11.43	8.75	7.00	5.91	25	13	2002
Mathematics	9.11	12.79	11.01	8.98	7.30	5.62	23	15	2001
Core Total	8.93	12.68	11.26	8.95	6.79	5.20	29	18	2003
Core Total	9.42	12.95	11.52	9.57	7.48	5.96	21	11	2002
Core Total	9.38	12.76	11.58	9.40	7.56	5.94	20	12	2001
Social Studies	8.77	12.73	10.90	8.73	6.70	5.06	29	22	2003
Social Studies	9.53	13.12	12.36	9.43	7.42	5.40	22	16	2002
Science	9.35	13.55	12.51	9.23	6.69	4.89	25	20	2003
Science	9.95	13.89	13.17	10.45	7.22	5.65	21	17	2002
Sources of Info.	8.48	12.85	11.02	8.45	5.73	4.43	37	29	2003
Sources of Info.	9.28	13.40	12.25	9.02	6.80	4.92	28	21	2002
Composite ITBS	8.87	12.79	11.37	8.90	6.43	5.08	30	24	2003
Composite ITBS	9.55	13.03	12.09	9.54	7.39	5.87	22	15	2002
Composite ITBS	9.53	12.89	12.06	9.60	7.44	5.73	21	14	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	106.7	123.7	116.1	107.1	97.8	89.0	29		2003
Composite CogAT	110.2	130.5	119.3	109.7	99.8	93.5	22		2002
Composite CogAT	110.9	127.9	119.3	111.1	102.4	94.2	17		2001

Littleton Public Schools
November ITBS/CogAT Results
Goddard MS Grade 7 Frequency Distributions

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	8.74	12.57	10.81	8.83	6.66	4.96	29	23	2003
Reading	9.18	12.86	11.13	9.16	7.31	5.69	22	16	2002
Reading	9.04	12.40	10.77	8.84	7.26	5.50	23	16	2001
Language	8.96	13.33	12.15	8.98	6.10	4.39	33	25	2003
Language	9.26	13.44	12.50	9.10	6.58	4.73	29	20	2002
Language	9.26	13.44	12.32	9.15	6.60	4.81	29	20	2001
Mathematics	9.12	12.89	11.83	9.15	6.72	5.28	27	18	2003
Mathematics	9.43	12.98	11.85	9.33	7.25	5.64	23	15	2002
Mathematics	9.42	12.94	12.13	9.35	7.05	5.48	26	16	2001
Core Total	8.89	12.73	11.12	9.14	6.49	4.79	28	23	2003
Core Total	9.25	12.92	11.76	9.17	7.14	5.59	25	16	2002
Core Total	9.20	12.72	11.63	9.25	6.83	5.56	27	17	2001
Social Studies	8.53	12.75	10.63	8.68	5.96	4.20	33	29	2003
Social Studies	9.12	13.14	11.89	8.99	6.68	5.37	29	22	2002
Science	9.31	13.44	12.47	9.20	6.72	4.85	25	21	2003
Science	9.63	13.74	12.85	9.76	7.16	5.32	22	17	2002
Sources of Info.	8.83	13.17	11.88	8.96	6.10	4.47	36	26	2003
Sources of Info.	9.45	13.67	12.53	9.36	6.50	5.24	30	21	2002
Composite ITBS	8.88	12.91	11.33	8.97	6.24	4.62	31	25	2003
Composite ITBS	9.32	13.12	12.02	9.28	6.99	5.59	26	18	2002
Composite ITBS	9.17	13.08	11.99	9.07	6.51	5.40	31	23	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	107.0	125.3	117.8	107.7	95.8	86.1	31		2003
Composite CogAT	108.6	128.1	119.6	107.8	98.2	89.1	26		2002
Composite CogAT	109.7	128.3	119.9	109.5	98.5	89.6	26		2001

**Littleton Public Schools
November ITBS/CogAT Results
Newton MS Grade 7 Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	9.12	12.58	11.47	9.10	7.30	5.41	23	16	2003
Reading	9.31	12.63	11.71	9.47	7.40	5.49	23	17	2002
Reading	9.46	12.65	11.50	9.43	7.69	6.20	18	10	2001
Language	8.99	13.30	11.71	8.70	6.78	4.73	28	19	2003
Language	9.16	13.56	12.39	9.15	6.43	4.52	30	24	2002
Language	9.30	13.28	12.14	9.13	6.81	5.56	25	17	2001
Mathematics	9.09	13.18	11.43	8.87	6.96	5.21	27	19	2003
Mathematics	9.66	13.21	12.34	10.08	7.33	5.46	23	15	2002
Mathematics	9.47	12.99	12.07	9.69	7.24	5.55	23	15	2001
Core Total	9.04	12.74	11.14	8.93	7.06	5.03	26	17	2003
Core Total	9.34	13.01	12.06	9.42	7.10	5.17	25	16	2002
Core Total	9.35	12.65	11.49	9.51	7.39	5.76	20	12	2001
Social Studies	8.95	13.13	11.21	8.98	6.67	4.61	29	23	2003
Social Studies	9.41	13.47	11.89	9.43	7.11	5.42	25	18	2002
Science	9.26	13.73	12.51	9.15	6.15	4.49	27	23	2003
Science	9.93	14.09	13.23	10.46	7.22	4.91	21	19	2002
Sources of Info.	8.94	13.14	11.90	9.01	5.93	4.52	32	25	2003
Sources of Info.	9.12	13.41	12.30	8.81	6.34	4.70	31	23	2002
Composite ITBS	9.06	12.93	11.75	9.03	6.88	5.03	28	20	2003
Composite ITBS	9.44	13.32	12.24	9.30	7.17	4.96	24	18	2002
Composite ITBS	9.45	12.90	11.90	9.62	7.29	5.55	24	16	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	109.1	127.4	119.1	110.5	99.1	87.8	25		2003
Composite CogAT	110.7	130.6	121.3	110.3	100.3	88.7	21		2002
Composite CogAT	110.7	127.9	119.8	111.0	102.0	92.5	20		2001

Littleton Public Schools
November ITBS/CogAT Results
Powell MS Grade 7 Frequency Distributions

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	9.48	12.74	11.70	9.30	7.60	6.05	19	11	2003
Reading	9.65	12.73	11.91	9.80	7.63	6.05	19	12	2002
Reading	9.85	13.17	12.08	9.82	8.06	6.58	15	8	2001
Language	10.45	13.85	13.03	11.00	8.15	6.25	17	10	2003
Language	10.20	13.84	13.03	10.52	7.68	5.57	20	14	2002
Language	10.67	14.13	13.30	11.44	8.26	6.37	16	9	2001
Mathematics	9.33	12.92	11.64	9.23	7.23	5.60	22	15	2003
Mathematics	9.61	13.19	12.15	9.39	7.48	5.88	20	13	2002
Mathematics	9.69	13.06	12.17	9.62	7.71	6.14	19	11	2001
Core Total	9.74	13.06	12.14	9.84	7.65	6.30	17	9	2003
Core Total	9.83	13.23	12.23	9.80	7.98	6.01	18	12	2002
Core Total	10.08	13.32	12.62	9.92	7.82	6.77	13	6	2001
Social Studies	9.26	13.09	11.86	9.36	7.09	5.68	26	17	2003
Social Studies	9.30	13.46	11.93	9.39	7.11	4.63	25	19	2002
Science	10.16	13.90	13.17	10.49	7.58	5.68	18	14	2003
Science	10.26	14.05	13.19	10.53	7.61	5.66	18	14	2002
Sources of Info.	10.04	13.67	12.78	10.30	7.52	5.68	20	13	2003
Sources of Info.	10.20	13.81	13.02	10.37	7.71	5.73	20	13	2002
Composite ITBS	9.81	13.20	12.39	9.61	7.60	6.02	19	12	2003
Composite ITBS	9.91	13.36	12.51	10.03	7.63	5.99	19	13	2002
Composite ITBS	9.97	13.42	12.58	9.79	7.65	6.22	17	10	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	112.2	129.4	120.4	112.7	103.0	95.4	16		2003
Composite CogAT	113.5	130.6	123.8	113.5	104.0	95.1	15		2002
Composite CogAT	114.6	131.6	124.0	114.1	105.8	97.0	13		2001

**Littleton Public Schools
November ITBS/CogAT Results
Ames ES Grade 3 Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year	
	Avg	90%	75%	50%	25%	10%				
Reading	3.52	4.80	4.29	3.52	2.93	1.65	32	15	2003	
Reading	4.18	5.49	4.99	4.08	3.45	2.47	14	5	2002	
Reading	3.93	5.69	4.45	3.90	3.20	2.53	19	4	2001	
Language	3.34	4.51	4.21	3.31	2.38	1.60	36	16	2003	
Language	4.02	6.33	4.75	3.72	2.95	2.11	26	10	2002	
Language	3.64	5.39	4.15	3.43	2.85	2.40	29	3	2001	
Mathematics	3.44	4.75	3.93	3.43	2.64	2.25	35	8	2003	
Mathematics	3.90	5.34	4.49	3.90	3.04	2.36	26	4	2002	
Mathematics	3.81	5.29	4.49	3.65	3.00	2.41	30	3	2001	
Core Total	3.41	4.66	4.03	3.56	2.81	1.88	34	15	2003	
Core Total	3.99	5.70	4.68	3.98	3.14	2.36	23	6	2002	
Core Total	3.76	5.17	4.25	3.60	2.90	2.57	25	3	2001	
Social Studies	3.45	4.40	4.00	3.50	2.83	2.30	31	9	2003	
Social Studies	3.91	5.13	4.40	3.90	3.23	2.43	17	3	2002	
Science	3.68	5.20	4.58	3.52	2.90	2.35	31	7	2003	
Science	4.31	6.01	5.23	4.01	3.20	2.49	21	4	2002	
Sources of Info.	3.38	4.30	3.84	3.40	2.88	2.18	36	11	2003	
Sources of Info.	3.90	5.63	4.65	3.69	3.08	2.17	26	11	2002	
Composite ITBS	3.42	4.46	3.88	3.56	2.96	2.05	32	13	2003	
Composite ITBS	3.94	5.35	4.48	3.96	3.23	2.39	23	4	2002	
Composite ITBS	3.83	5.00	4.31	3.82	3.01	2.68	25	1	2001	
CogAT Test	SAS Avg	-- SAS at Selected Percentiles ---					%SAS <100			
Composite CogAT	102.0	119.8	113.8	103.0	91.3	78.2	46		2003	
Composite CogAT	108.5	127.9	118.0	108.5	96.5	89.1	27		2002	
Composite CogAT	106.8	126.1	115.8	106.2	95.3	88.9	32		2001	

**Littleton Public Schools
November ITBS/CogAT Results
Ames ES Grade 5 Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	6.25	8.59	7.43	6.13	5.06	3.72	26	17	2003
Reading	5.96	7.31	6.64	5.78	5.19	4.58	20	1	2002
Reading	6.37	8.29	7.43	6.15	5.23	4.62	19	4	2001
Language	6.44	9.62	8.19	6.08	4.46	3.48	35	16	2003
Language	6.92	10.10	8.53	6.58	5.28	4.38	23	3	2002
Language	7.24	9.62	8.48	7.25	5.68	4.36	15	8	2001
Mathematics	5.67	8.82	6.53	5.43	4.58	3.48	38	22	2003
Mathematics	5.81	7.70	6.51	5.60	4.86	4.29	34	6	2002
Mathematics	5.88	7.93	7.20	5.55	4.50	3.91	36	15	2001
Core Total	6.01	8.54	6.91	5.90	4.58	3.78	30	17	2003
Core Total	6.10	7.73	7.13	5.83	5.18	4.60	20	3	2002
Core Total	6.38	8.58	7.66	6.38	5.20	4.51	23	4	2001
Social Studies	6.61	9.44	8.59	5.99	5.19	4.28	22	8	2003
Social Studies	6.27	8.60	7.33	6.00	4.98	4.11	27	9	2002
Science	7.25	11.02	9.58	7.37	4.88	3.27	25	16	2003
Science	6.63	9.60	7.73	6.12	4.91	4.19	30	11	2002
Sources of Info.	6.92	10.34	8.78	6.88	5.08	3.57	25	16	2003
Sources of Info.	6.53	8.90	7.84	5.97	5.09	4.30	26	8	2002
Composite ITBS	6.38	9.12	7.69	6.20	4.83	3.78	29	16	2003
Composite ITBS	6.20	7.80	7.31	5.93	5.11	4.50	24	6	2002
Composite ITBS	6.47	8.59	7.53	6.35	5.38	4.51	19	7	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	107.3	122.3	116.0	108.0	97.0	88.1	28		2003
Composite CogAT	106.9	123.3	113.3	105.8	98.6	94.0	28		2002
Composite CogAT	105.9	118.5	111.4	106.6	99.1	91.6	25		2001

Littleton Public Schools
November ITBS/CogAT Results
Centennial ES Grade 3 Frequency Distributions

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	3.48	4.70	4.21	3.63	2.73	1.80	31	21	2003
Reading	3.34	4.50	3.95	3.22	2.60	2.00	46	13	2002
Reading	3.61	4.99	4.35	3.48	3.02	2.47	31	5	2001
Language	3.26	5.04	4.00	3.10	2.13	1.59	48	24	2003
Language	2.93	4.05	3.55	2.85	2.30	1.68	54	23	2002
Language	3.43	4.73	4.15	3.18	2.75	2.07	44	11	2001
Mathematics	3.32	4.61	3.73	3.30	2.60	2.27	39	6	2003
Mathematics	3.10	4.05	3.50	3.20	2.48	2.15	47	11	2002
Mathematics	3.34	4.31	3.72	3.24	2.82	2.46	38	1	2001
Core Total	3.35	4.69	4.17	3.38	2.56	1.93	41	20	2003
Core Total	3.10	4.16	3.52	3.07	2.48	2.07	52	12	2002
Core Total	3.43	4.53	3.75	3.32	2.85	2.27	34	9	2001
Social Studies	3.55	5.09	4.01	3.40	2.91	2.37	30	7	2003
Social Studies	3.29	4.61	3.64	3.23	2.63	2.16	43	11	2002
Science	3.56	4.94	4.03	3.46	2.88	2.47	39	7	2003
Science	3.30	4.65	3.97	3.14	2.66	2.02	48	15	2002
Sources of Info.	3.41	4.51	3.84	3.30	2.78	2.10	44	10	2003
Sources of Info.	3.21	4.45	3.83	3.14	2.56	2.16	47	11	2002
Composite ITBS	3.39	4.42	4.04	3.33	2.66	2.21	41	9	2003
Composite ITBS	3.15	4.21	3.68	3.16	2.57	2.25	48	8	2002
Composite ITBS	3.45	4.53	3.85	3.31	2.83	2.37	30	3	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	99.9	119.4	109.6	100.7	90.9	83.6	48		2003
Composite CogAT	95.3	111.0	103.0	94.2	87.5	80.5	58		2002
Composite CogAT	99.2	115.4	109.6	98.3	89.4	81.6	52		2001

Littleton Public Schools
November ITBS/CogAT Results
Centennial ES Grade 5 Frequency Distributions

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	5.89	7.68	6.88	5.83	4.97	4.02	33	10	2003
Reading	5.77	7.74	6.71	5.83	4.61	3.66	30	17	2002
Reading	5.37	7.14	6.40	5.60	4.10	3.31	37	25	2001
Language	5.84	9.49	6.60	5.65	4.33	3.48	42	21	2003
Language	5.68	8.54	6.63	5.41	3.76	3.25	40	26	2002
Language	5.69	8.43	7.05	5.42	4.40	3.33	40	19	2001
Mathematics	5.47	7.48	6.51	5.40	4.53	3.94	44	14	2003
Mathematics	5.30	6.70	6.23	5.20	4.38	3.71	47	22	2002
Mathematics	5.30	7.23	6.38	5.32	4.28	3.17	44	23	2001
Core Total	5.61	8.19	6.20	5.50	4.52	4.23	38	9	2003
Core Total	5.49	7.45	6.34	5.43	4.39	3.51	40	20	2002
Core Total	5.36	7.38	6.58	5.28	4.55	3.37	44	19	2001
Social Studies	5.79	7.63	7.02	5.60	4.49	3.54	32	17	2003
Social Studies	5.57	8.18	6.62	5.40	4.26	3.32	36	22	2002
Science	5.98	9.08	7.69	5.71	4.04	3.04	37	27	2003
Science	5.99	8.70	7.43	5.44	4.18	3.29	42	26	2002
Sources of Info.	5.77	8.78	7.38	5.20	4.28	3.67	46	22	2003
Sources of Info.	5.68	7.95	6.45	5.38	4.60	3.70	42	17	2002
Composite ITBS	5.61	8.17	6.33	5.52	4.38	3.90	38	18	2003
Composite ITBS	5.52	7.40	6.70	5.50	4.40	3.70	41	22	2002
Composite ITBS	5.34	7.34	6.25	5.15	4.30	3.37	47	23	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	101.4	116.9	110.8	100.0	93.0	86.1	47		2003
Composite CogAT	101.3	118.7	109.4	100.4	93.1	87.9	43		2002
Composite CogAT	100.6	116.9	110.2	101.5	91.8	84.6	44		2001

**Littleton Public Schools
November ITBS/CogAT Results
East ES Grade 3 Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	2.90	4.24	3.54	2.90	1.98	1.63	59	32	2003
Reading	3.24	4.44	3.91	3.33	2.43	1.86	40	18	2002
Reading	3.10	4.34	3.67	2.99	2.66	1.91	60	20	2001
Language	3.14	4.72	3.69	3.00	2.31	1.92	53	15	2003
Language	3.46	5.25	4.30	3.15	2.48	1.95	48	18	2002
Language	3.50	4.83	3.88	3.32	2.73	1.87	35	13	2001
Mathematics	3.05	4.19	3.63	2.90	2.53	2.18	59	11	2003
Mathematics	3.42	4.55	4.28	3.38	2.64	2.32	34	2	2002
Mathematics	3.34	4.74	3.63	3.09	2.53	2.26	51	6	2001
Core Total	3.01	4.14	3.59	3.08	2.36	2.07	52	20	2003
Core Total	3.35	4.60	3.73	3.33	2.70	2.05	35	15	2002
Core Total	3.30	4.44	3.73	3.13	2.58	2.19	48	11	2001
Social Studies	3.08	3.98	3.43	3.25	2.58	2.02	46	13	2003
Social Studies	3.32	4.21	3.96	3.30	2.84	2.21	34	10	2002
Science	3.17	4.34	3.80	3.20	2.23	1.96	49	22	2003
Science	3.40	4.65	4.01	3.33	2.48	2.02	39	18	2002
Sources of Info.	3.09	3.83	3.59	3.05	2.66	2.07	47	18	2003
Sources of Info.	3.45	4.54	3.88	3.48	2.78	2.41	44	5	2002
Composite ITBS	3.03	3.94	3.54	3.00	2.41	2.17	50	12	2003
Composite ITBS	3.35	4.50	3.83	3.35	2.70	2.20	38	8	2002
Composite ITBS	3.20	4.44	3.73	2.84	2.43	2.21	52	10	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	95.4	114.1	105.9	98.7	85.3	76.2	53		2003
Composite CogAT	100.5	121.0	111.6	103.0	84.1	79.6	39		2002
Composite CogAT	97.3	118.3	107.0	95.5	84.0	77.7	60		2001

**Littleton Public Schools
November ITBS/CogAT Results
East ES Grade 5 Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	4.72	7.32	5.73	4.50	3.33	2.32	64	42	2003
Reading	5.27	7.31	6.23	5.15	4.10	3.33	49	25	2002
Reading	4.96	6.80	5.86	5.03	4.04	3.30	54	28	2001
Language	5.15	7.72	6.03	4.68	3.78	2.59	58	35	2003
Language	5.60	8.76	6.20	5.25	4.42	3.64	46	14	2002
Language	5.55	8.67	6.40	5.28	4.35	3.57	44	21	2001
Mathematics	4.83	6.99	5.90	4.35	3.62	3.31	63	42	2003
Mathematics	4.95	6.47	5.48	4.70	4.10	3.31	59	25	2002
Mathematics	5.11	7.13	5.90	4.65	4.17	3.80	60	27	2001
Core Total	4.86	7.32	5.35	4.50	3.85	3.38	68	35	2003
Core Total	5.18	7.47	5.63	4.83	4.43	3.78	62	17	2002
Core Total	5.18	7.04	6.20	4.77	4.28	3.89	58	21	2001
Social Studies	5.17	8.57	6.19	4.78	4.06	2.82	59	28	2003
Social Studies	5.32	8.57	5.83	4.97	4.30	3.03	54	22	2002
Science	5.39	9.58	6.14	4.93	3.98	2.84	57	34	2003
Science	5.57	7.71	6.53	5.00	4.47	3.63	54	18	2002
Sources of Info.	5.02	7.82	5.63	4.40	3.79	3.11	64	42	2003
Sources of Info.	5.50	7.47	6.53	5.25	4.30	3.54	45	22	2002
Composite ITBS	4.96	7.69	5.55	4.32	4.02	3.31	74	42	2003
Composite ITBS	5.22	7.47	6.00	4.90	4.23	3.73	57	22	2002
Composite ITBS	5.22	7.11	6.43	5.07	4.21	3.77	52	25	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100	Year	
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	101.1	123.8	114.3	97.0	89.8	79.2	55	2003	
Composite CogAT	101.4	117.7	110.3	101.5	93.8	88.3	42	2002	
Composite CogAT	100.4	116.0	108.6	99.0	91.8	87.0	50	2001	

**Littleton Public Schools
November ITBS/CogAT Results
Field ES Grade 3 Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	3.58	4.96	4.29	3.54	2.96	2.14	33	11	2003
Reading	3.35	4.49	3.92	3.22	2.74	2.17	44	10	2002
Reading	3.51	5.15	4.11	3.26	2.73	2.30	40	7	2001
Language	3.51	4.98	4.37	3.40	2.54	1.91	40	13	2003
Language	3.89	5.63	4.83	3.68	2.54	2.27	35	9	2002
Language	3.99	5.97	5.15	3.55	2.78	2.30	35	6	2001
Mathematics	3.44	4.86	4.03	3.33	2.69	2.31	45	4	2003
Mathematics	3.30	4.51	3.89	3.37	2.54	2.27	43	9	2002
Mathematics	3.47	4.76	4.20	3.35	2.70	2.34	38	5	2001
Core Total	3.48	4.78	4.23	3.33	2.79	2.21	40	10	2003
Core Total	3.47	4.79	4.16	3.43	2.64	2.27	35	8	2002
Core Total	3.61	4.97	4.45	3.55	2.63	2.43	38	2	2001
Social Studies	3.48	4.64	4.04	3.36	2.88	2.25	33	9	2003
Social Studies	3.33	4.61	3.77	3.19	2.77	2.39	40	6	2002
Science	3.72	5.95	4.58	3.48	2.54	2.20	38	10	2003
Science	3.54	5.48	3.96	3.33	2.88	2.19	39	10	2002
Sources of Info.	3.55	5.03	4.08	3.32	2.89	2.47	37	5	2003
Sources of Info.	3.45	4.53	4.00	3.33	2.76	2.46	40	6	2002
Composite ITBS	3.47	4.88	4.27	3.27	2.86	2.30	45	8	2003
Composite ITBS	3.39	4.44	4.00	3.23	2.70	2.46	40	2	2002
Composite ITBS	3.49	4.88	4.35	3.32	2.60	2.37	42	1	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	100.3	115.2	109.0	99.5	91.3	84.8	48		2003
Composite CogAT	98.3	115.5	106.3	97.9	89.9	82.1	56		2002
Composite CogAT	98.0	114.1	107.5	98.0	87.0	81.3	52		2001

**Littleton Public Schools
November ITBS/CogAT Results
Field ES Grade 5 Frequency Distributions**

ITBS Test	GE	--- GE at Selected Percentiles ----					%BG	%1YBG	Year
	Avg	90%	75%	50%	25%	10%			
Reading	5.27	7.49	6.34	5.20	3.98	3.18	49	30	2003
Reading	5.87	7.88	6.91	5.88	4.64	3.64	29	14	2002
Reading	6.01	8.00	7.27	6.15	4.63	3.88	33	11	2001
Language	6.11	10.07	7.60	5.60	4.38	3.39	40	21	2003
Language	7.13	11.49	8.70	7.00	5.27	3.73	23	12	2002
Language	6.95	10.30	8.23	6.60	5.30	4.45	18	4	2001
Mathematics	5.59	7.96	6.74	5.30	4.21	3.70	49	25	2003
Mathematics	5.60	7.92	6.46	5.53	4.34	3.64	40	22	2002
Mathematics	6.06	8.35	7.23	5.85	4.68	3.95	35	17	2001
Core Total	5.59	8.31	6.75	5.20	4.37	3.53	49	22	2003
Core Total	6.08	8.79	7.03	6.27	4.73	3.61	30	14	2002
Core Total	6.24	8.60	7.43	6.45	4.79	4.25	33	8	2001
Social Studies	5.74	8.86	7.56	5.42	4.09	3.47	40	26	2003
Social Studies	5.96	8.87	7.57	5.60	4.76	3.33	29	16	2002
Science	5.80	9.06	7.38	5.43	4.01	3.00	43	31	2003
Science	6.02	9.62	7.43	5.70	4.03	2.84	37	27	2002
Sources of Info.	6.18	9.66	7.71	5.60	4.23	3.65	38	24	2003
Sources of Info.	6.19	8.79	7.38	5.90	4.68	3.81	38	14	2002
Composite ITBS	5.67	8.18	7.18	5.60	4.18	3.64	46	26	2003
Composite ITBS	5.99	8.44	7.25	6.05	4.45	3.76	34	21	2002
Composite ITBS	6.12	8.59	7.70	6.00	4.50	4.00	36	15	2001
CogAT Test	SAS	-- SAS at Selected Percentiles ---					%SAS <100		Year
	Avg	90%	75%	50%	25%	10%			
Composite CogAT	101.4	117.2	110.4	103.0	91.6	86.4	46		2003
Composite CogAT	102.6	119.7	111.5	103.8	94.2	83.3	32		2002
Composite CogAT	104.2	120.9	111.4	103.7	97.1	88.4	28		2001