



# Electronic Student Record Layout

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## High Schools

**September 2019–August 2020**

This document is designed to assist with the interpretation of electronic student record data reports from the ACT® test. Data is broken down by record position, field length, and field name. Descriptions of field content are also provided.

If you have questions about this information, please contact ACT Customer Care.

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# Important Information

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## Multiple Records

Records for an individual student who tested more than once may be reported with the same test date, but with different test locations (e.g., State, DANTES). National, International, and School are left blank. To differentiate records accurately, always use test location (position 249) in addition to the test date (month and year—positions 233-236).

**NEW!** Indicates a change in **September** 2019.

## Dashes in the Record

Dashes (-) included in the record mean information was not provided or could not be calculated.

## CD-ROM Characteristics

- **Disc type, density, and maximum number of records per disc:** 700 MB; N = 600,000
- **File type:** ASCII line sequential file with a carriage return and line feed at the end of each record.
- **Record length:** 1050 characters (there will be blank positions at the end of the record).
- **Encryption:** WinZip password protected.
- **Alphabetical data:** All in uppercase only.

## New & Updated Content

The following information outlines new and updated content within the record layout. The table below includes the position(s), field name, and a description.

	<b>Position</b>	<b>Field Name</b>	<b>Description</b>
<b>NEW!</b>	87	Gender (Numeric)	<b>Numeric:</b> 4 = Male; 6 = Female; 7 = Another gender, 8 = Prefer not to respond; – (dash) = Blank
<b>NEW!</b>	88	Gender (Alpha)	<b>Alpha:</b> M = Male; F = Female; A = Another gender; P = Prefer not to respond; – (dash) = Blank
<b>NEW!</b>	406	SPS Item 6	This field is now blank.
<b>NEW!</b>	407	SPS Item 7	This field is now blank.







## State Codes (positions 142 – 145)



STATE	NUM	ALPHA
Alabama	01	AL
Alaska	02	AK
Arizona	03	AZ
Arkansas	04	AR
California	05	CA
Colorado	06	CO
Connecticut	07	CT
Delaware	08	DE
D.C.	09	DC
Florida	10	FL
Georgia	11	GA
Hawaii	12	HI
Idaho	13	ID
Illinois	14	IL
Indiana	15	IN
Iowa	16	IA
Kansas	17	KS
Kentucky	18	KY
Louisiana	19	LA
Maine	20	ME
Maryland	21	MD
Massachusetts	22	MA
Michigan	23	MI
Minnesota	24	MN
Mississippi	25	MS
Missouri	26	MO
Montana	27	MT
Nebraska	28	NE
Nevada	29	NV
New Hampshire	30	NH
New Jersey	31	NJ
New Mexico	32	NM
New York	33	NY
North Carolina	34	NC

STATE	NUM	ALPHA
North Dakota	35	ND
Ohio	36	OH
Oklahoma	37	OK
Oregon	38	OR
Pennsylvania	39	PA
Rhode Island	40	RI
South Carolina	41	SC
South Dakota	42	SD
Tennessee	43	TN
Texas	44	TX
Utah	45	UT
Vermont	46	VT
Virginia	47	VA
Washington	48	WA
West Virginia	49	WV
Wisconsin	50	WI
Wyoming	51	WY
Puerto Rico	52	PR
Canada	53	CN
All other	55	FN
Marshall Islands	57	MH
Northern Mariana	58	MP
Micronesia	60	FM
American Samoa	61	AS
Palau	62	PW
Guam	63	GU
Virgin Islands	66	VI
U.S. Military		
Europe	85	AE
Stateside	86	AA
Pacific	87	AP

# Field Descriptions

This section provides descriptions for the fields laid out in the previous section of this document. The position and length columns indicate where the field can be found in the record and how many bytes the field covers. The field name and content columns describe the fields and their contents.

**NOTE:** An arrow (  ) on the left side of the page indicates a change/update to the data, also highlighted in yellow.

Position	Length	Field Name	Field Content
1-2	2	Reporting Year Identifier	19 = 2019-2020
<b>3-162</b>	<b>160</b>	<b>Student Identifying Information</b>	<b>Fields may be blank if data is not available.</b>
3-44	42	Student Name	
3-27	25	Last Name	Special characters are – ‘.
28-43	16	First Name	Special characters are – ‘.
44	1	Middle Initial	
45-84	40	Address	House number/street; PO Box No., etc. Special characters are – ‘. @ # % & ( ) ; ; “ /
85-86	2	Country Code	Two-character alpha abbreviation. Refer to the country code list at <a href="http://www.act.org">www.act.org</a> for response values.
 87	1	Gender (Numeric)	<b>Numeric:</b> 4 = Male; 6 = Female; 7 = Another gender; 8 = Prefer not to respond; – (dash) = Blank
 88	1	Gender (Alpha)	<b>Alpha:</b> M = Male; F = Female; A = Another gender ; P = Prefer not to respond; – (dash) = Blank
89-90	2	Grade Level	07 = 6 <sup>th</sup> or 7 <sup>th</sup> 10 = 10th    13 = H.S. Graduate 08 = 8th            11 = 11th    14 = College Student 09 = 9th            12 = 12th    15 = Other
91-99	9	ACT ID	May not be available for all records. If available, position 91 will have a dash; blank if unavailable.
100	1	Phone Type	1 = Home; 2 = Cell; 3 = Other
101-106	6	Date of Birth	Reported as MMDDYY. Blank if invalid.
107-116	10	Phone Number	3-digit area code, 7-digit phone number.
117-141	25	City	Special characters are – ‘.
142-143	2	State (Numeric)	Lists a 2-digit numeric and 2-character alpha abbreviation.
144-145	2	State (Alpha)	Refer to the state codes list included in this document.
146-154	9	ZIP Code	ZIP (+ 4 if available)
155-162	8	Expanded Date of Birth	Reported as CCYMMDD. Blank if a valid DOB was not provided.
<b>163-178</b>	<b>16</b>	<b>Writing Results</b> – test events before 09/2015	<b>For test events before September 2015.</b> Dashes mean writing test could not be scored, student did not receive an English test score, or student did not take the writing test. See positions 791-805 for new writing scores.
163-164	2	Combined English/ Writing (EW) Score	Range is 01-36. Blank for test events beginning in September 2015.
165-166	2	Writing Subscore (WR)	Range is 02-12. Blank for test events beginning in September 2015.
167-170	4	BLANK	Formerly <i>National Norms for ACT Writing (EW &amp; WR) (Cumulative %)</i> , moved to positions 1002-1007.
171-178	8	Comments on Essay	Dashes for test events beginning September 2015. Two-digit codes for up to 4 comments if student took the writing test. Range for each comment is 01-99.  Text associated with each comment code provided at <a href="http://www.act.org">www.act.org</a> . Comment codes appear from left to right; if fewer than 4 comment codes assigned, unused trailing positions will be blank.

Position	Length	Field Name	Field Content
			If student did not take the writing test, all four codes will be dashes.
179-191	13	BLANK	
192-204	13	State-Assigned Student ID Number (13-characters)	If available, reports SASID if Test Location (position 249) = S. SASIDs with less than 13 characters will report with leading zeros. Records with a 10-character number will be left justified with trailing spaces.
<b>205-226</b>	<b>22</b>	<b>High School Information</b>	
205-210	6	High School Code	High school code lists are available from ACT.
211-218	8	High School Grades	Numeric grades based on High School Course/Grade Information (positions 661-683). Provided on 4-point scale with implied decimal and one decimal place for each subject.
211-212	2	<i>English</i>	
213-214	2	<i>Mathematics</i>	
215-216	2	<i>Social Studies</i>	
217-218	2	<i>Natural Sciences</i>	
219	1	BLANK	
220-222	3	High School Average	Numeric average based on High School Course/Grade Information (positions 661-683). Provided on 4-point scale with implied decimal and two decimal places. If blank, field is set to dashes.
223-226	4	Year of HS Graduation	Intended year of high school graduation; reported as CCYY.
<b>227-249</b>	<b>23</b>	<b>ACT Test Information (continued in positions 260-274)</b>	
227-232	6	Expanded Test Date	Month and year; reported as CCYYMM.
233-236	4	Test Date	Month and year; reported as MMYYY.
237-248	12	State Ranks (Cumulative %) – Scale Scores	Range is 001-100. If the score is set to dashes, the rank for that score is also set to dashes. Positions formerly blank.
237-239	3	<i>English</i>	
240-242	3	<i>Mathematics</i>	
243-245	3	<i>Reading</i>	
246-248	3	<i>Science</i>	
249	1	Test Location	<b>S</b> = State <b>D</b> = DANTES (military base) <b>Blank</b> = All other test locations
<b>250-259</b>	<b>10</b>	<b>Postal Code/Province</b>	
250-251	2	Canadian Province	Alberta AB Nunavut NU British Columbia BC Ontario ON Manitoba MB Prince Edward Island PE New Brunswick NB Quebec QC Newfoundland and Labrador NL Saskatchewan SK Northwest Territories NT Yukon YT Nova Scotia NS
252	1	BLANK	
253-259	7	Canadian Postal Code	
<b>260-274</b>	<b>15</b>	<b>ACT Test Information continued</b>	
260	1	Corrected Report Indicator	Field normally blank. R = corrected report due to rescoring by ACT.
261-270	10	Scale Scores	Range is 01-36.
261-262	2	<i>English</i>	A score set to dashes means that test was omitted by the student.
263-264	2	<i>Mathematics</i>	If any score is set to dashes, the Composite score is also set to dashes.
265-266	2	<i>Reading</i>	



Position	Length	Field Name	Field Content
267-268	2	Science	
269-270	2	Composite	
271	1	BLANK	
272-274	3	Sum of Scale Scores	Numeric sum of the 4 scale scores. If any score is set to dashes, the sum is also set to dashes.
275-277	3	State Rank (Cumulative %) – Composite	Range is 001-100. If the score is set to dashes, the rank for that score is also set to dashes. Positions formerly blank.
278	1	BLANK	
<b>279-302</b>	<b>24</b>	<b>Interest Inventory Standard Scores</b>	The standard score (SS) range is 20-80, or set to dashes. Dashes mean there were too few responses for a valid score.
279-280	2	BLANK	
281-282	2	Science & Technology	
283-284	2	BLANK	
285-286	2	Arts	
287-288	2	BLANK	
289-290	2	Social Service	
291-292	2	BLANK	
293-294	2	Administration & Sales	
295-296	2	BLANK	
297-298	2	Business Operations	
299-300	2	BLANK	
301-302	2	Technical	
303-308	6	World-of-Work Map Regions	Map regions are based on the Interest Inventory results. Valid regions are in sets of two or three. Sets of regions both summarize and extend the Interest Inventory results; regions identify groups of occupations that align with the interest inventory results. The range for each region is 01-12. Results may be inconclusive (99) or missing (--).
309-319	11	BLANK	
320-333	14	Scale Subscores – test events before 09/2016	Ranges are 01-18. For test events prior to September 2016, a subscore set to dashes means test was omitted by student.
320-321	2	Usage/Mechanics	
322-323	2	Rhetorical Skills	For test events beginning in September 2016, you will always see dashes because there are no subscores.
324-325	2	Elementary Algebra	
326-327	2	Algebra/Coord Geom	
328-329	2	Plane Geom/Trig	
330-331	2	Soc Studies/Science	
332-333	2	Arts/Literature	
334-336	3	State Rank (Cumulative %) – STEM	Range is 001-100. If the score is set to dashes, the norm for that score is set to dashes. Former location of <i>National Norms for ACT Scale Subscores (Cumulative Percent)</i> . Moved to positions 1008-1028.
337-339	3	State Rank (Cumulative %) – ELA	Range is 001-100. If the score is set to dashes, the norm for that score is set to dashes.
340-368	29	BLANK	
<b>369-380</b>	<b>12</b>	<b>Interest Inventory – US Ranks (Cumulative %)</b>	Range is 01-99. If Interest Inventory scores are set to dashes, the percentile rank is also set to dashes.
369-370	2	Science & Technology	
371-372	2	Arts	
373-374	2	Social Service	
375-376	2	Administration & Sales	
377-378	2	Business Operations	

Position	Length	Field Name	Field Content
379-380	2	Technical	
381-390	10	Local ID Number	School-assigned ID number (used at state's discretion).
391-400	10	BLANK	
<b>401-550</b>	<b>150</b>	<b>Student Profile Section (SPS) – items 1-135*</b>	Refer to the <i>Student Information Booklet</i> at <a href="http://www.act.org">www.act.org</a> for SPS items and response values. Exceptions include 1=Y, 2=N. *For SPS item 62, refer to positions 606-607. *For SPS items 64 a-d, refer to positions 601-604.
551-600	50	BLANK	
601-604	4	Language	SPS items 64 a-d
605	1	EOS Release	1=Y, 2=N
606-607	2	Religious Affiliation	SPS item 62
608-630	23	BLANK	
<b>631-690</b>	<b>60</b>	<b>High School Courses /Grade Information</b>	<b>Blank if no response or more than one response from student.</b>
631-660	30	Courses Taken or Planned	1 = Taken 2 = Plan to take before graduation 3 = Not taken and do not plan to take
661-690	30	Grades Earned	4 = A    3 = B    2 = C    1 = D    0 = F
691-700	10	State-Assigned Student ID Number (10-characters)	Reports SASID if Test Location (position 249) = S, if available, and if SASID is 10-characters or less. If less than 10-characters, will have leading zeros.
701-724	24	College Choices	Up to 6 ACT college codes in order of preference as provided by the student. College codes can be viewed at <a href="http://www.act.org">www.act.org</a> .
725-782	58	BLANK	Positions 773-782 formerly displayed <i>National Norms for ACT Scale Scores (Cumulative Percent)</i> . Moved to positions 1029-1043.
783	1	Ranks Type	0 = ACT-Tested Ranks
784-790	7	BLANK	
<b>791-805</b>	<b>15</b>	<b>Writing Results</b> – test events beginning 09/2015	For test events beginning September 2015. Scores set to dashes mean the writing test could not be scored. Blank if the student did not take the writing test.
791-792	2	Writing Subject Score (1-36)	For test events beginning in September 2015 and prior to September 2016 (blank for test events beginning in September 2016). Range is 01-36. Score of (--) means writing test could not be scored; student did not take the writing test if blank.
793-795	3	US Rank (Cumulative %) – Writing Subject Score	Range is 001-100. If the score is set to dashes, the rank for that score is also set to dashes. Based on recent high school students who took the writing test. Positions formerly blank.
796-803	8	Writing Domain Scores	Range is 02-12.
796-797	2	<i>Ideas &amp; Analysis</i>	
798-799	2	<i>Development &amp; Support</i>	
800-801	2	<i>Organization</i>	
802-803	2	<i>Language Use &amp; Conventions</i>	
804-805	2	Writing Subject Score (2-12)	For test events beginning in September 2016. Range is 02-12. Score of (--) means writing test could not be scored; student did not take the writing test if blank.
<b>806-821</b>	<b>16</b>	<b>Additional Scores &amp; Indicators</b>	For test events beginning in September 2015.
806-807	2	ELA Score (English Language Arts)	Range is 01-36. If the score is set to dashes, student did not receive a score on English, reading, or writing tests.
808-810	3	US Rank (Cumulative %)	Range is 001-100. If the score is set to dashes, the rank for that score is also set to dashes.

Position	Length	Field Name	Field Content
		– ELA	Based on recent high school students who took the English, reading, and writing tests.
811-812	2	BLANK	
813-814	2	STEM Score (Science, Technology, Engineering, and Math)	Range is 01-36. If the score is set to dashes, student did not receive a score on the mathematics or the science tests.
815-817	3	US Rank (Cumulative %) – STEM	Range is 001-100. If the score is set to dashes, the rank for that score is also set to dashes. Based on recent high school students who took the mathematics and science tests.
818-819	2	BLANK	
820	1	Understanding Complex Text Indicator (UCTI)	0 = Below proficient      2 = Above proficient 1 = Proficient              (-) = Unable to calculate
821	1	Progress Toward Career Readiness Indicator (PTCRI)	Based on Composite score, provides an estimate of students' likely performance on ACT® WorkKeys® National Career Readiness Certificate® (NCRC®).  0 = Unlikely to obtain an NCRC 1 = Likely to obtain a Bronze level NCRC 2 = Likely to obtain a Silver level NCRC 3 = Likely to obtain a Gold level NCRC 4 = Likely to obtain a Platinum level NCRC (New Value) (-) = Unable to calculate (Student does not have a Composite score)

## 822-1001      180 Reporting Categories

<b>822-851</b>	<b>30</b>	<b>English</b>	<b>Blank if reporting categories are not available.</b>
822-831	10	Production of Writing	
822-823	2	<i>Points Earned</i>	<i>Range is 00-99. If test was not attempted, field will be set to dashes.</i>
824-825	2	<i>Points Possible</i>	<i>Range is 01-99.</i>
826-828	3	<i>% Correct</i>	<i>Range is 000-100. If test was not attempted, field will be set to dashes.</i>
829-831	3	<i>Readiness Range Lower Bound</i>	<i>Range is 000-100.</i>
832-841	10	Knowledge of Language	
832-833	2	<i>Points Earned</i>	<i>Range is 00-99. If test was not attempted, field will be set to dashes.</i>
834-835	2	<i>Points Possible</i>	<i>Range is 01-99.</i>
836-838	3	<i>% Correct</i>	<i>Range is 000-100. If test was not attempted, field will be set to dashes.</i>
839-841	3	<i>Readiness Range Lower Bound</i>	<i>Range is 000-100.</i>
842-851	10	Conventions of Standard English	
842-843	2	<i>Points Earned</i>	<i>Range is 00-99. If test was not attempted, field will be set to dashes.</i>
844-845	2	<i>Points Possible</i>	<i>Range is 01-99.</i>
846-848	3	<i>% Correct</i>	<i>Range is 000-100. If test was not attempted, field will be set to dashes.</i>
849-851	3	<i>Readiness Range Lower Bound</i>	<i>Range is 000-100.</i>
<b>852-931</b>	<b>80</b>	<b>Mathematics</b>	<b>Blank if reporting categories are not available.</b>
852-861	10	Preparing for Higher Math	
852-853	2	<i>Points Earned</i>	<i>Range is 00-99. If test was not attempted, field will be set to dashes.</i>
854-855	2	<i>Points Possible</i>	<i>Range is 01-99.</i>

<b>Position</b>	<b>Length</b>	<b>Field Name</b>	<b>Field Content</b>
856-858	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
859-861	3	Readiness Range Lower Bound	Range is 000-100.
862-871	10	Number & Quantity	
862-863	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.
864-865	2	Points Possible	Range is 01-99.
866-868	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
869-871	3	Readiness Range Lower Bound	Range is 000-100.
872-881	10	Algebra	
872-873	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.
874-875	2	Points Possible	Range is 01-99.
876-878	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
879-881	3	Readiness Range Lower Bound	Range is 000-100.
882-891	10	Functions	
882-883	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.
884-885	2	Points Possible	Range is 01-99.
886-888	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
889-891	3	Readiness Range Lower Bound	Range is 000-100
892-901	10	Geometry	
892-893	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.
894-895	2	Points Possible	Range is 01-99.
896-898	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
899-901	3	Readiness Range Lower Bound	Range is 000-100.
902-911	10	Statistics & Probability	
902-903	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.
904-905	2	Points Possible	Range is 01-99.
906-908	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
909-911	3	Readiness Range Lower Bound	Range is 000-100.
912-921	10	Integrating Essential Skills	
912-913	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.
914-915	2	Points Possible	Range is 01-99.
916-918	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
919-921	3	Readiness Range Lower Bound	Range is 000-100.
922-931	10	Modeling	
922-923	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.

<b>Position</b>	<b>Length</b>	<b>Field Name</b>	<b>Field Content</b>
924-925	2	Points Possible	Range is 01-99.
926-928	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
929-931	3	Readiness Range Lower Bound	Range is 000-100.
932-941	10	BLANK	
<b>942-971</b>	<b>30</b>	<b>Reading</b>	<b>Blank if reporting categories are not available.</b>
942-951	10	Key Ideas & Details	
942-943	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.
944-945	2	Points Possible	Range is 01-99.
946-948	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
949-951	3	Readiness Range Lower Bound	Range is 000-100.
952-961	10	Craft & Structure	
952-953	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.
954-955	2	Points Possible	Range is 01-99.
956-958	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
959-961	3	Readiness Range Lower Bound	Range is 000-100.
962-971	10	Integration of Knowledge & Ideas	
962-963	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.
964-965	2	Points Possible	Range is 01-99.
966-968	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
969-971	3	Readiness Range Lower Bound	Range is 000-100.
<b>972-1001</b>	<b>30</b>	<b>Science</b>	<b>Blank if reporting categories are not available.</b>
972-981	10	Interpretation of Data	
972-973	2	Points Earned	Range is 00-99. If test was not attempted, field will be set to dashes.
974-975	2	Points Possible	Range is 01-99.
976-978	3	% Correct	Range is 000-100. If test was not attempted, field will be set to dashes.
979-981	3	Readiness Range Lower Bound	Range is 000-100.
982-991	10	Scientific Investigation	
982-983	2	Points Earned	Range is 00-99. If the test was not attempted, the field will be set to dashes.
984-985	2	Points Possible	Range is 01-99.
986-988	3	% Correct	Range is 000-100. If the test was not attempted, the field will be set to dashes.
989-991	3	Readiness Range Lower Bound	Range is 000-100.
992-1001	10	Evaluation of Models, Inferences & Experimental Results	
992-993	2	Points Earned	Range is 00-99. If the test was not attempted, the field will be set to dashes.
994-995	2	Points Possible	Range is 01-99.
996-998	3	% Correct	Range is 000-100. If the test was not attempted, the field will be set to dashes.

<b>Position</b>	<b>Length</b>	<b>Field Name</b>	<b>Field Content</b>
999-1001	3	Readiness Range Lower Bound	Range is 000-100.
<b>1002-1046</b>	<b>45</b>	<b>US Ranks (Cumulative %)</b>	Expanded from 2 bytes to 3 bytes; ranges are 001-100. If the score is set to dashes, the rank will be set to dashes. Based on recent high school graduates who tested in grades 10-12.
1002-1007	6	US Ranks (Cumulative %) – Writing (EW & WR) – test events before 9/2015	Moved from positions 167-170. Blank for test events beginning in September 2015.
1008-1028	21	US Ranks (Cumulative %) – Scale Subscores – test events before 9/2016	Moved from positions 334-347. Dashes for test events beginning in September 2016.
1008-1010	3	Usage/Mechanics	
1011-1013	3	Rhetorical Skills	
1014-1016	3	Elementary Algebra	
1017-1019	3	Algebra/Coord Geom	
1020-1022	3	Plane Geom/Trig	
1023-1025	3	Soc Studies/Science	
1026-1028	3	Arts/Literature	
1029-1043	15	US Ranks (Cumulative %) – Scale Scores	Moved from positions 773-782.
1029-1031	3	English	
1032-1034	3	Mathematics	
1035-1037	3	Reading	
1038-1040	3	Science	
1041-1043	3	Composite	
1044-1046	3	State Rank (Cumulative %) – Writing	Range is 001-100. If the score is set to dashes, or the rank is not available, then the state rank is also set to dashes.
1047-1050	4	BLANK	