

V. LITERACY/NUMERACY NUMERATOR

A. Measure	B. Specification	C. Explanation of the Specification
<b>Literacy/ Numeracy Gains Youth (14-21) Numerator</b>	Count of unique RECORDS where <i>YOUTH</i> <sup>1</sup>	Includes Youth Records (those with youth funding who are between 14 and 21 years of age on the Date of First Youth Service)
	<b>and</b> SCHOOL STATUS AT PARTICIPATION >= 3 <b>and</b> BASIC LITERACY SKILLS DEFICIENCY (WIASRD Element 130) = 1)	And the youth is an out-of-school youth who is basic skills deficient as determined by WIASRD 130.  Note: For reporting purposes an out-of-school youth is a youth who is either not attending school or attending post-secondary school and is basic skills deficient as determined by WIASRD Element 130. <i>WIASRD 130 is required for eligibility purposes only.</i>
	<b>and</b> DATE OF FIRST YOUTH SERVICE => <i>LIT-NUM START DATE</i>	The youth first received youth funded services on or after the date when the state first began to report on the literacy-numeracy measure.
	<b>and</b> <i>BASIC SKILLS DEFICIENT</i>	And basic skills deficient <i>as determined by the appropriate pre- and post-tests.</i>  Note: Youth who meet the above criteria and have not received a pre-test are treated as if they are basic skills deficient for the purposes of the literacy/numeracy measure.
	<b>and</b> <i>END OF CURRENT PARTICIPATION YEAR</i> is within the reporting period	And the current participation year is within the reporting period.
	<b>and</b> <i>END OF CURRENT PARTICIPATION YEAR</i> =< <i>END OF PARTICIPATION YEAR#3</i>	And the youth has not been in the program for more than 3 years.

<sup>1</sup> Italicized text refers to constructed variables; these variables are not in the WIASRD. Definitions for these variables are provided at the end of the literacy/numeracy specification.

A. Measure	B. Specification	C. Explanation of the Specification
	<p><b>and</b>            PRE-TEST EDUCATIONAL FUNCTIONING LEVEL is not null</p> <p><b>and</b>            a <i>SUCCESSFUL POST-TEST COMPLETION DATE</i> &gt;=  <i>START OF CURRENT PARTICIPATION YEAR</i>  <b>and</b>  <i>SUCCESSFUL POST-TEST COMPLETION DATE</i> &lt;=  <i>END OF CURRENT PARTICIPATION YEAR</i></p> <p><b>and</b>            (DATE OF EXIT is null  <b>or</b>            DATE OF EXIT &gt; <i>END OF CURRENT PARTICIPATION YEAR</i>  <b>or</b>            (DATE OF EXIT &lt;= <i>END OF PARTICIPATION YEAR#1</i>  <b>and</b>  <i>END OF PARTICIPATION YEAR#1</i> is within the reporting period))  <b>and</b>            (OTHER REASONS FOR EXIT is null  <b>or</b>            OTHER REASONS FOR EXIT = 00  <b>or</b>            OTHER REASONS FOR EXIT = 98)))</p>	<p>There must be a recorded pre-test EFL score for the functional area.</p> <p>And there is a successful post-test completion date within the current participation year.</p> <p>And the participant did not exit, exited after the current participation year, or exited during the youth's first participation year without an exclusion.</p>

**VI. LITERACY/NUMERACY DENOMINATOR**

A. Measure	B. Specification	C. Explanation of the Specification
<b>Literacy/ Numeracy Gains Youth (14-21) Denominator</b>	Count of unique RECORDS where <i>YOUTH</i>	Includes Youth Records (those with youth funding who are between 14 and 21 years of age on the Date of First Youth Service) who are basic skills deficient and out-of-school
	<b>and</b> SCHOOL STATUS AT PARTICIPATION >= 3 <b>and</b> BASIC LITERACY SKILLS DEFICIENCY (WIASRD Element 130) = 1)	And the youth is an out-of-school youth who is basic skills deficient as determined by WIASRD 130.  Note: For reporting purposes and out-of-school youth is a youth who is either not attending school or attending post-secondary school and basic skills deficient as determined by WIASRD Element 130. <i>WIASRD 130 is required for eligibility purposes only.</i>
	<b>and</b> DATE OF FIRST YOUTH SERVICE => <i>LIT-NUM START DATE</i>	The youth first received youth funded services on or after the date when the state first began to report on the literacy-numeracy measure.
	<b>and</b> <i>BASIC SKILLS DEFICIENT</i>	And basic skills deficient as determined by the appropriate pre- and post-tests.  Note: Youth who meet the above criteria and have not received a pre-test are treated as if they are basic skills deficient for the purposes of the literacy/numeracy measure.
	<b>and</b> <i>END OF CURRENT PARTICIPATION YEAR</i> is within the reporting period	And the end of the current participation year is in the report period.  Note: Youth who meet the above criteria and do not pre-test will be in the denominator only on their anniversary date. Youth who do not take a post-test or take a post-test after the anniversary date of any participation year will also be in the denominator only for that participation year on their anniversary date.

A. Measure	B. Specification	C. Explanation of the Specification
	<p><b>and</b>  <i>END OF CURRENT PARTICIPATION YEAR</i> =&lt; <i>END OF PARTICIPATION YEAR#3</i></p> <hr/> <p><b>and</b>            (DATE OF EXIT is null  <b>or</b>            DATE OF EXIT &gt; <i>END OF CURRENT PARTICIPATION YEAR</i>  <b>or</b>            (DATE OF EXIT &lt;= <i>END OF PARTICIPATION YEAR#1</i>  <b>and</b>  <i>END OF PARTICIPATION YEAR#1</i> is within the reporting period))  <b>and</b>            (OTHER REASONS FOR EXIT is null  <b>or</b>            OTHER REASONS FOR EXIT = 00  <b>or</b>            OTHER REASONS FOR EXIT = 98)))</p>	<p>And the youth has not been in the program for more than 3 years.</p> <hr/> <p>And the participant did not exit, exited after the current participation year, or exited during the youth's first participation year without an exclusion.</p> <p>Note: States should include youth who exit without an exclusion during the first participation year in the literacy/numeracy measure. Those youth who exit during the second or third participation years, however, are excluded from the measure for the participation year in which they exit.</p>

## **VII. CONSTRUCTED VARIABLE SPECIFICATIONS**

The following tables provide specifications to calculate the constructed variables used for in literacy/numeracy specifications. These variables include:

1. YOUTH
2. BASIC SKILLS DEFICIENT
3. LIT-NUM START DATE
4. START OF PARTICIPATION YEAR, END OF PARTICIPATION YEAR, and  
CURRENT PARTICIPATION YEAR
5. SUCCESSFUL POST-TEST COMPLETION DATE

A. Constructed variable	B. Specification	C. Explanation of the Specification
<b>1. Youth</b>	Unique RECORDS where DATE OF FIRST YOUTH SERVICE is not null <b>and</b> DATE OF FIRST YOUTH SERVICE – DATE OF BIRTH >= 14 Years <b>and</b> DATE OF FIRST YOUTH SERVICE – DATE OF BIRTH < 22 Years	Youth are WIA participants who receive youth funded services and are 14 years old or older and younger than 22 years old on the date of first youth service.
<b>2. Basic Skills Deficient</b>	((EDUCATIONAL FUNCTIONING LEVEL <= 6 <b>or</b> EDUCATIONAL FUNCTIONING LEVEL 2 <= 6 <b>or</b> EDUCATIONAL FUNCTIONING LEVEL 3 <= 6) <b>or</b> (EDUCATIONAL FUNCTIONING LEVEL is null <b>and</b> EDUCATIONAL FUNCTIONING LEVEL 2 is null <b>and</b> EDUCATIONAL FUNCTIONING LEVEL 3 is null)) <b>and</b> ((DATE ADMINISTERED POST-TEST #1 < <i>START OF CURRENT PARTICIPATION YEAR</i> <b>and</b> EDUCATIONAL FUNCTIONING LEVEL POST-TEST #1 > 0 <b>and</b> EDUCATIONAL FUNCTIONING LEVEL POST-TEST #1 <=6)	Out-of-school youth participants who have not been pre-tested and are basic skills deficient as determined by WIASRD 130 or who have at least 1 pre-test score that is less than or equal to 6 (WIASRD elements 706, 720, and 734) are initially basic skills deficient for the purposes of this measure.  And if post-test #1 was administered prior to the start of the current participation year, the EFL must be 6 or less (participants with EFLs of 7 and 8 are no longer basic skills deficient).

A. Constructed variable	B. Specification	C. Explanation of the Specification
<b>2. Basic Skills Deficient (continued)</b>	<p><b>or</b>            (DATE ADMINISTERED POST-TEST #1 =&gt; <i>START OF CURRENT PARTICIPATION YEAR</i>)</p> <p><b>or</b>            (DATE ADMINISTERED POST-TEST #1 is null  <b>and</b>            (EDUCATIONAL FUNCTIONING LEVEL &lt;= 6  <b>or</b>            EDUCATIONAL FUNCTIONING LEVEL is null)))</p>	<p>Or post-test #1 was administered after the start of the current participation year or there has been no post-test.</p>
	<p><b>and</b>            ((DATE ADMINISTERED POST-TEST #2 &lt; <i>START OF CURRENT PARTICIPATION YEAR</i>  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL POST-TEST #2 &gt; 0  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL POST-TEST #2 &lt;= 6)</p> <p><b>or</b>            (DATE ADMINISTERED POST-TEST #2 =&gt; <i>START OF CURRENT PARTICIPATION YEAR</i>)</p> <p><b>or</b>            (DATE ADMINISTERED POST-TEST #2 is null  <b>and</b>            (EDUCATIONAL FUNCTIONING LEVEL &lt;= 6  <b>or</b>            EDUCATIONAL FUNCTIONING LEVEL is null)))</p>	<p>Applies the same criteria to post-test 2 that were applied to post-test 1.</p> <p>Note: We do not test post-test #3 to determine basic skills deficiency because youths do not need to be post-tested after their third year in the program.</p>

A. Constructed variable	B. Specification	C. Explanation of the Specification
<p><b>2. Basic Skills Deficient</b> (continued)</p>	<p><b>or</b></p> <p>((DATE ADMINISTERED POST-TEST #4 &lt; START OF CURRENT PARTICIPATION YEAR and EDUCATIONAL FUNCTIONING LEVEL POST-TEST #4 &gt; 0 and EDUCATIONAL FUNCTIONING LEVEL POST-TEST #4 &lt;= 6) or (DATE ADMINISTERED POST-TEST #4 =&gt; START OF CURRENT PARTICIPATION YEAR or (DATE ADMINISTERED POST-TEST #4 is null and EDUCATIONAL FUNCTIONING LEVEL 2 &lt;= 6 and EDUCATIONAL FUNCTIONING LEVEL 2 is not null)))</p> <p><b>and</b></p> <p>((DATE ADMINISTERED POST-TEST #5 &lt; START OF CURRENT PARTICIPATION YEAR and EDUCATIONAL FUNCTIONING LEVEL POST-TEST #5 &gt; 0 and EDUCATIONAL FUNCTIONING LEVEL POST-TEST #5 &lt;= 6) or (DATE ADMINISTERED POST-TEST #5 =&gt; START OF CURRENT PARTICIPATION YEAR or (DATE ADMINISTERED POST-TEST #5 is null and EDUCATIONAL FUNCTIONING LEVEL 2 &lt;= 6 and EDUCATIONAL FUNCTIONING LEVEL 2 is not null)))</p> <p><b>or</b></p> <p>((DATE ADMINISTERED POST-TEST #7 &lt; START OF CURRENT PARTICIPATION YEAR and EDUCATIONAL FUNCTIONING LEVEL POST-TEST #7 &gt; 0 and EDUCATIONAL FUNCTIONING LEVEL POST-TEST #7 &lt;= 6) or (DATE ADMINISTERED POST-TEST #7 =&gt; START OF CURRENT PARTICIPATION YEAR or (DATE ADMINISTERED POST-TEST #7 is null and EDUCATIONAL FUNCTIONING LEVEL 3 &lt;= 6 and EDUCATIONAL FUNCTIONING LEVEL 3 is not null)))</p> <p><b>and</b></p> <p>((DATE ADMINISTERED POST-TEST #8 &lt; START OF CURRENT PARTICIPATION YEAR and EDUCATIONAL FUNCTIONING LEVEL POST-TEST #8 &gt; 0 and EDUCATIONAL FUNCTIONING LEVEL POST-TEST #8 &lt;= 6) or (DATE ADMINISTERED POST-TEST #8 =&gt; START OF CURRENT PARTICIPATION YEAR or (DATE ADMINISTERED POST-TEST #8 is null and EDUCATIONAL FUNCTIONING LEVEL 3 &lt;= 6 and EDUCATIONAL FUNCTIONING LEVEL 3 is not null)))</p>	<p>Applies the same criteria to the 2nd functional area (post-tests 4–5) and 3rd functional area (post-tests 7–8) that are applied to the 1st functional area (post-tests 1–2).</p> <p>Note: We do not test post-tests #6 and #9 to determine basic skills deficiency because youths do not need to be post-tested after their third year in the program.</p>

<b>A. Constructed variable</b>	<b>B. Specification</b>	<b>C. Explanation of the Specification</b>
<b>3. Lit-Num Start Date</b>	If a state implements the literacy/numeracy measure for PY2005, then the LIT-NUM START DATE = 7/1/2005.  If a state implements the literacy/numeracy measure for PY2006, then the LIT-NUM START DATE = 7/1/2006.	For states implementing in PY2005, the LitNum Start Date is 7/1/2005.  For states implementing in PY2006, the LitNum Start Date is 7/1/2006.

<b>A. Constructed variable</b>	<b>B. Specification</b>	<b>C. Explanation of the Specification</b>
--------------------------------	-------------------------	--

A. Constructed variable	B. Specification	C. Explanation of the Specification
<p><b>4. Current Participation Year</b></p>	<p>Year #1:            Start of Participation Year#1 = Date of First Youth Service            End of Participation Year#1 = Date of First Youth Service + 1 Year            Year #2:            Start of Participation Year#2 = Date of First Youth Service + 1 Year + 1 Day            End of Participation Year#2 = Date of First Youth Service + 2 Years</p> <p>Year #3:            Start of Participation Year#3 = Date of First Youth Service + 2 Years + 1 Day            End of Participation Year#3 = Date of First Youth Service + 3 Years</p> <p>If END OF PARTICIPATION YEAR #1 &gt;= start of the reporting period  <b>and</b>            END OF PARTICIPATION YEAR #1 &lt;= end of the reporting period            Then set START OF CURRENT PARTICIPATION YEAR = START OF PARTICIPATION YEAR #1  <b>and</b>            END OF CURRENT PARTICIPATION YEAR = END OF PARTICIPATION YEAR #1</p> <p>If END OF PARTICIPATION YEAR #2 &gt;= start of the reporting period  <b>and</b>            END OF PARTICIPATION YEAR #2 &lt;= end of the reporting period            Then set START OF CURRENT PARTICIPATION YEAR = START OF PARTICIPATION YEAR #2  <b>and</b>            END OF CURRENT PARTICIPATION YEAR = END OF PARTICIPATION YEAR #2</p> <p>If END OF PARTICIPATION YEAR #3 &gt;= start of the reporting period  <b>and</b>            END OF PARTICIPATION YEAR #3 &lt;= end of the reporting period            Then set START OF CURRENT PARTICIPATION YEAR = START OF PARTICIPATION YEAR #3  <b>and</b>            END OF CURRENT PARTICIPATION YEAR = END OF PARTICIPATION YEAR #3</p> <p>Else Null</p>	<p>Literacy/Numeracy results for each participant are calculated based on the Date of First Youth Service and each subsequent anniversary of that date. The Current Participation Year establishes the one-year period for which results are currently being calculated for each participant based on the reporting periods specified in the participant cohort table. <b><i>The Current Participation Year is the last full year based on the Date of First Youth Service and the anniversary of the Date of First Youth Service during which the youth was a participant.</i></b></p> <p>Note: Youth are included in the measure only through the end of their third participation year.</p>

A. Constructed variable	B. Specification	C. Explanation of the Specification
<b>5. Successful Post-Test Completion Date</b>	Set SUCCESSFUL POST-TEST COMPLETION DATE = DATE ADMINISTERED POST-TEST (YEAR #1)	Set successful post-test completion date equal to the date administered post-test (Year#1)
	<b>where</b> EDUCATIONAL FUNCTIONING LEVEL (YEAR #1) minus EDUCATIONAL FUNCTIONING LEVEL > 0	Where the Educational Functional Level (EFL) for the first post-test is greater than the pre-test
	<b>And</b> EDUCATIONAL FUNCTIONING LEVEL =< 6	And the youth was basic skills deficient in the first functional area.
	<b>and</b> (DATE OF EXIT is null <b>or</b> DATE OF EXIT => DATE ADMINISTERED POST-TEST (YEAR #1))	And there is no exit date or the exit date is after the first post-test
	<b>and</b> DATE ADMINISTERED POST-TEST (YEAR #1) => DATE OF FIRST YOUTH SERVICE <b>and</b> DATE ADMINISTERED POST-TEST (YEAR #1) =< END OF PARTICIPATION YEAR#1	And the post-test is within the first year that the youth is in the program.
	<b>and</b> END OF PARTICIPATION YEAR #1 >= start of the report period <b>And</b> END OF PARTICIPATION YEAR #1 =< end of the report period	And the end of the first participation year is within the report period

A. Constructed variable	B. Specification	C. Explanation of the Specification
	<p><b>or</b></p> <p>Set SUCCESSFUL POST-TEST COMPLETION DATE = DATE ADMINISTERED POST-TEST (YEAR #2)</p> <p><b>where</b></p> <p>(EDUCATIONAL FUNCTIONING LEVEL (YEAR #2) minus EDUCATIONAL FUNCTIONING LEVEL (YEAR #1) &gt; 0</p> <p><b>and</b></p> <p>EDUCATIONAL FUNCTIONING LEVEL(YEAR #1) is not null</p> <p><b>and</b></p> <p>EDUCATIONAL FUNCTIONING LEVEL(YEAR #1) =&lt; 6)</p> <p><b>or</b></p> <p>(EDUCATIONAL FUNCTIONING LEVEL(YEAR #1) is null</p> <p><b>and</b></p> <p>EDUCATIONAL FUNCTIONING LEVEL is not null</p> <p><b>and</b></p> <p>EDUCATIONAL FUNCTIONING LEVEL (YEAR #2) minus EDUCATIONAL FUNCTIONING LEVEL &gt; 0</p> <p><b>and</b></p> <p>EDUCATIONAL FUNCTIONING LEVEL =&lt; 6)</p> <p><b>and</b></p> <p>(DATE OF EXIT is null</p> <p><b>or</b></p> <p>DATE OF EXIT &gt; END OF PARTICIPATION YEAR#2)</p> <p><b>and</b></p> <p>(DATE ADMINISTERED POST-TEST (YEAR #2) &gt;= START OF PARTICIPATION YEAR#2</p> <p><b>and</b></p> <p>(DATE ADMINISTERED POST-TEST (YEAR #2) =&lt; END OF PARTICIPATION YEAR#2</p> <p><b>and</b></p> <p>END OF PARTICIPATION YEAR#2 &gt;= start of the report period</p> <p><b>and</b></p> <p>END OF PARTICIPATION YEAR#2 =&lt; end of the report period</p>	<p>Or set successful post-test completion date equal to the date administered post-test (Year #2) if:</p> <p>a. the second post-test is greater than the first post-test</p> <p>b. or if there is no post-test (year #1), post-test (year #2) is greater than the pre-test</p> <p>c. and the youth has not exited or exited after the end of the second participation year</p> <p>d. and took the second post-test during the second participation year.</p>

A. Constructed variable	B. Specification	C. Explanation of the Specification
	<p><b>or</b></p> <p>Set SUCCESSFUL POST-TEST COMPLETION DATE = DATE ADMINISTERED POST-TEST (YEAR #3)  <b>where</b>            ((EDUCATIONAL FUNCTIONING LEVEL (YEAR #3) minus EDUCATIONAL FUNCTIONING LEVEL(YEAR #2) &gt; 0  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL(YEAR #2) is not null  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL(YEAR #2) =&lt; 6)  <b>or</b>            (EDUCATIONAL FUNCTIONING LEVEL(YEAR #2) is null  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL(YEAR #1) is not null  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL (YEAR #3) minus EDUCATIONAL FUNCTIONING LEVEL (YEAR #1) &gt; 0  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL(YEAR #1) =&lt; 6)  <b>or</b>            (EDUCATIONAL FUNCTIONING LEVEL(YEAR #2) is null  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL(YEAR #1) is null  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL is not null  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL (YEAR #3) minus EDUCATIONAL FUNCTIONING LEVEL &gt; 0  <b>and</b>            EDUCATIONAL FUNCTIONING LEVEL =&lt; 6))  <b>and</b>            (DATE OF EXIT is null  <b>or</b>            DATE OF EXIT =&gt; END OF PARTICIPATION YEARS#3  <b>and</b>            (DATE ADMINISTERED POST-TEST (YEAR #3) &gt;= START OF PARTICIPATION YEAR#3  <b>and</b>            DATE ADMINISTERED POST-TEST (YEAR #3) =&lt; END OF PARTICIPATION YEAR#3  <i>(continued on next page)</i></p>	<p>Or set successful test completion date equal to the date administered post-test (Year #3) if:</p> <ul style="list-style-type: none"> <li>a. the third post-test is greater than the second post-test</li> <li>b. or if there is no post-test (year #2), post-test (year #3) is greater than the post-test (year #1)</li> <li>c. or if there are no post-tests (years #2 and #1), post-test (year #3) is greater than the pre-test</li> <li>d. and the youth has not exited or exited after the end of the third participation year</li> <li>e. and took the third post-test during the third participation year.</li> </ul>

A. Constructed variable	B. Specification	C. Explanation of the Specification
	<p><i>(continued)</i> <b>and</b> END OF PARTICIPATION YEAR#3 &gt;= start of the report period <b>and</b> END OF PARTICIPATION YEAR#3 &lt;= end of the report period</p>	
	<p>(If the SUCCESSFUL POST-TEST COMPLETION DATE is still null after reviewing the first functional area, repeat the procedure for functional areas 2 and 3 to determine if there are successes for the report period.)</p>	<p>Repeat the prior steps for the two other functional areas.</p>