

PROGRAM DESCRIPTION

Department of Elementary & Secondary Education

HB Section (s): 2.115

Missouri Assessment Program

Program is found in the following core budget(s): Performance Based Assessment Program

1a. What strategic priority does this program address?

Success-Ready Students & Workplace Development

1b. What does this program do?

The Missouri Assessment Program (MAP) provides information and an accountability measure for district and charter local education agencies (LEA)s that meet state and federal regulations. MAP is made up of a number of tests designed to measure how well students have acquired the skills and knowledge described in Missouri's Learning Standards (MLS). Missouri educators participate in the development and review of MAP tests. The assessments yield information on performance at the student, class, school, district, and state levels. This information is used by educators to point out strengths and weaknesses in relation to the instruction of the MLS and to gauge the overall quality of education throughout Missouri.

The program includes yearly standards-based tests that measure specific skills defined for each grade in the MLS. All students in grades 3-8 in Missouri public and charter schools take the Grade-Level assessment. English language arts (ELA) and Mathematics are administered in grades 3-8. Science is administered in grades 5 and 8. End-of-Course assessments are administered when a student has received instruction on the MLS in a course, regardless of grade level. Four of these tests are required prior to high school graduation: Algebra I, Biology, English II and Government. Optional assessments are available in Algebra II, American History, English I, Geometry, Personal Finance and Physical Science.

Students with the most significant cognitive disabilities who meet DESE-established eligibility criteria as determined by the student's Individualized Education Program (IEP) team take alternate assessments. These assessments measure student progress to the alternate academic learning standards which align to the MLS. These assessments, called MAP-A, are administered in grades 3-8 and 11 in ELA and Mathematics and in grades 5, 8 and 11 in Science.

English learners in grades K-12 take the ACCESS, which assesses students' progress in acquiring academic English in the domains of speaking, listening, reading and writing.

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2a. Provide an activity measure(s) for the program.

Number of students included in the statewide administration of the Missouri Assessment Program.

	FY 2020		FY 2021		FY 2022		FY 2023	FY 2024	FY 2025
	Projected	Actual *	Projected	Actual ^	Projected	Actual	Projected	Projected	Projected
Statewide administration (including scoring)									
Math	495,000	6,664	495,000	448,314	495,000	469,140	500,000	500,000	500,000
Science	209,000	2,517	209,000	195,009	209,000	201,860	211,000	211,000	211,000
English Language Arts	495,000	2,369	495,000	454,407	495,000	465,691	500,000	500,000	500,000
Social Studies	70,500	10,865	70,500	59,822	70,500	66,356	71,000	71,000	71,000
English Language Proficiency	36,500	34,679	36,500	31,916	36,500	35,300	37,250	37,250	37,250
Personal Finance	5,600	1,659	5,600	1,994	5,600	2,351	3,500	3,500	3,500

**In response to the COVID-19 pandemic, MAP Grade-Level and End-of-Course assessments were suspended as of March 19, 2020, just days before the spring test windows opened. Although 4,723 students participated in a partial administration of the MAP-Alternate, the assessments were incomplete and therefore not included here.*

^ In response to post-pandemic impact, the target assessment participation rate in 2021 was set at 85%.

Data obtained from the General Research File(s)

2b. Provide a measure(s) of the program's quality.

Psychometric properties of the assessments

Missouri requires all assessment vendors to provide a technical report that contains an extensive psychometric analysis each year. As a result, these reports are both lengthy and cumbersome. They are archived and made available for reference on the webpages of the Assessment Section of the department's website. Most sections of these technical reports are designed to provide validity and reliability evidence to support the use of test scores. The source of data used for particular analyses is indicated throughout each technical report. Each assessment has its own technical report; however, most are arranged within the same manner for ease of reference. The following is a brief summary of the information:

- concepts of validity and the uses of scores
- test development processes used to create the assessment
- content-related validity of scores
- information on test administration
- scoring of constructed-response, performance event, and writing tasks
- inter-rater reliability studies
- scaling and linking procedures, and other operational data analyses
- results of the operational administrations
- score reports
- standard setting procedures
- reliability and construct-related validity
- statistical and development processes used to assure fairness of the assessment

Data obtained from the Technical Reports

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2c. Provide a measure(s) of the program's impact.

This program allows Missouri compliance with federal Every Student Succeeds Act (ESSA) requirements around testing and reporting of results. The program provides a measure of student progress and performance related to the content in the Missouri Learning Standards. This measure may be used to evaluate the impact of educational programs, to measure progress toward improvement goals, and to inform the Missouri School Improvement Program.

Data obtained from the General Research File(s)

2d. Provide a measure(s) of the program's efficiency.

Reliability of scoring methodologies based on inter-rater agreements.

An important contributor to the technical quality of assessment is the extent to which independent raters assign the same or similar scores to a given test item. Inter-rater reliability provides a measure of agreement among independent raters.

The agreement between scores is reviewed for inter-rater reliability and means used to assure accurate scoring of assessment items. The statistics for the inter-rater reliability were calculated for all items requiring human reader scoring in Grade-Level and End-of-Course assessments. To determine the reliability of scoring, the percentage of exact agreement and adjacent agreement between two scores was examined (minimum expected perfect agreement is 80.0%).

Subject	FY 2020		FY 2021		FY 2022		FY 2023	FY 2024	FY 2025
	Projected	Actual	Projected	Actual	Projected	Actual	Projected	Projected	Projected
	Inter-Rater Agreement (Perfect Score Agreement)								
Mathematics	80.5%	91%	80%	97%	80%	95%	80%	80%	80%
English Language Arts	85.6%	99%	85%	84%	85%	84%	85%	85%	85%
Science	90.9%	99%	85%	95%	85%	92%	85%	85%	85%

Data obtained from the scoring reports

Cost per test administered in the Missouri Assessment Program.

Cost	FY 2020		FY 2021		FY 2022		FY 2023	FY 2024	FY 2025
	Projected	Actual	Projected	Actual	Projected	Actual	Projected	Projected	Projected
Cost	\$15.85	N/A	\$15.85	\$17.27	\$15.85	\$17.52	\$17.50	\$18.00	\$18.00

Data obtained from the scoring reports

Note: This cost does not factor in the ACT administration.

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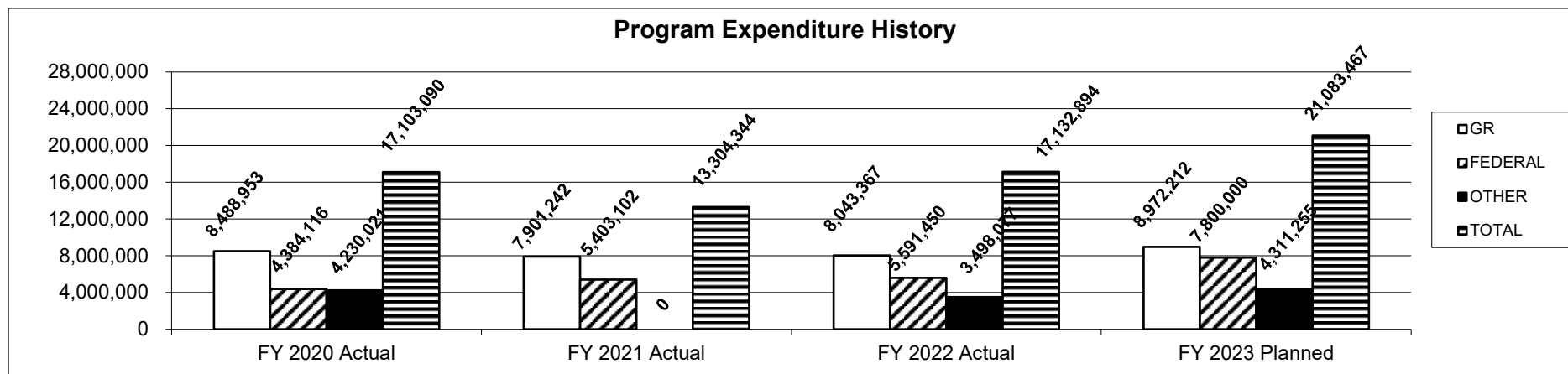
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3. Provide actual expenditures for the prior three fiscal years and planned expenditures for the current fiscal year. (Note: Amounts do not include fringe benefit costs.)



4. What are the sources of the "Other " funds?

Lottery Funds (0291-1289)

5. What is the authorization for this program, i.e., federal or state statute, etc.? (Include the federal program number, if applicable.)

Section 160.514 RSMo; Every Student Succeeds Act (Title I, Part B) -- CFDA #84.369A

6. Are there federal matching requirements? If yes, please explain.

No

7. Is this a federally mandated program? If yes, please explain.

ESSA requires states to assess all students annually in reading/English language arts and in mathematics at grades 3, 4, 5, 6, 7, and 8 and once at a high-school grade. Science testing was required beginning with the 2007-2008 school year for one grade each at elementary, middle, and high school. Missouri assesses science in grades 5 and 8, and Biology (EOC). The federal legislation requires state assessments to measure student achievement relative to the state's content standards.