## STUDENT SCORE DISTRIBUTIONS

## Introduction

The May 2013 College Board AP Exams were taken by 2,218,578 students from 18,920 secondary schools. College and high school teachers, called Readers, who are familiar with college-level course demands, scored the free-response sections from the 3,938,100 examinations taken. Computers at ETS ${ }^{\circledR}$ scored the multiple-choice sections.

The Chief Readers, relying on their subject-matter expertise, statistical equating data, data from comparability studies, and historical trends, determine the score-setting thresholds for the 5 -point AP score scale: $5=$ extremely well qualified, $4=$ well qualified, 3 = qualified, 2 = possibly qualified, $1=$ no recommendation. Listed below are the Chief Readers who directed the scoring of the free-response sections of the May 2013 exams.

## Summary Table of Students' Scores

The scores earned on the May 2013 AP Examinations are summarized in the form of score distributions shown in the table on the next two pages. For each exam, the table provides the number and percentages of students receiving each score, the total number of students, and the mean and standard deviation of scores.

## Additional information

Released exam questions, scoring guidelines, and sample student responses for the free-response sections of AP Exams are available at AP Central ${ }^{\circledR}$ (apcentral.collegeboard.com). Entire released exams, with multiple-choice answer keys are available for purchase at store.collegeboard.com.

## CHIEF READERS

Art History
Biology
Calculus
Chemistry
Chinese Language
Computer Science
Economics - Micro
Economics - Macro
English Lang. \& Comp.
English Lit. \& Comp.
Environmental Science
European History
French Language
German Language
Government \& Politics: Comparative
Government \& Politics: United States
Human Geography
Italian Language
Japanese Language
Latin
Music
Physics
Psychology
Spanish Language
Spanish Literature
Statistics
Studio Art
United States History
World History

Bob Nauman
Domenic Castignetti
Stephen Kokoska
Larry Funck
Telee Richard Chi
Elizabeth Johnson
David Anderson
Arthur Raymond
Mary Trachsel
Warren Carson
Arthur Samel
Jeffrey Hamilton
Pascal Ifri
Johanna Watzinger-Tharp
Glenn Hastedt
James Riddlesperger
David Lanegran
Giuseppe Cavatorta
Sufumi So
Robert Cape
Teresa Shelton Reed
Jiang Yu
Elizabeth Hammer
Gustavo Fares
Hazel Gold
Allan Rossman
Herb Weaver
Ernie Freeberg
Dean Ferguson

University of Colorado - Boulder
Loyola University of Chicago
Bloomsburg University
Wheaton College
University of Utah
Xavier University
Centre College
Muhlenberg College
University of Iowa
University of South Carolina - Upstate
Bowling Green State University
Baylor University
Washington University
University of Utah
James Madison University
Texas Christian University
Macalester College
University of Arizona
George Mason University
Austin College
University of Tulsa
Fitchburg State University
Xavier University of Louisiana
Lawrence University
Emory University
Cal Poly - San Luis Obispo
Georgia Gwinnett College
University of Tennessee
Texas A \& M University

# STUDENT SCORE DISTRIBUTIONS* <br> AP Exams - May 2013 



* This table reflects $3,938,100$ AP Exams taken by $2,218,578$ students from 18,92 C secondary schools.
** Standard students generally receive most of their foreign language training in U.S. schools. They did not indicate on their answer sheet that they regularly speak or hear the foreign language of the exam, or that they have lived for one month or more in a country where the language is spoken


## STUDENT SCORE DISTRIBUTIONS* AP Exams - May 2013 (continued)

| Exam Score | Japanese Language <br> (Total Group) |  | Japanese Language (Standard Group)** |  | Latin |  | Music Theory |  | Music Theory Subscor | Aural | Music Theory Subsc | naural |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | N | \% At | N | \% At | N | \% At | N | \% At | N | \% At | N | \% At |
| 5 | 995 | 44.5 | 214 | 18.3 | 939 | 14.1 | 3,427 | 18.8 | 3,378 | 18.6 | 3,412 | 18.8 |
| 4 | 237 | 10.6 | 136 | 11.6 | 1,395 | 20.9 | 3,024 | 16.6 | 2,937 | 16.1 | 2,834 | 15.6 |
| 3 | 477 | 21.4 | 360 | 30.8 | 2,108 | 31.6 | 4,655 | 25.6 | 4,964 | 27.3 | 4,639 | 25.5 |
| 2 | 165 | 7.4 | 140 | 12.0 | 1,524 | 22.9 | 4,555 | 25.0 | 4,265 | 23.4 | 4,677 | 25.7 |
| 1 | 360 | 16.1 | 319 | 27.3 | 701 | 10.5 | 2,531 | 13.9 | 2,648 | 14.6 | 2,630 | 14.5 |
| Number of Students | 2,234 |  | 1,169 |  | 6,667 |  | 18,192 |  | 18,192 |  | 18,192 |  |
| 3 or Higher / \% | 1,709 | 76.5 | 710 | 60.7 | 4,442 | 66.6 | 11,106 | 61.0 | 11,279 | 62.0 | 10,885 | 59.8 |
| Mean Score | 3.60 |  | 2.82 |  | 3.05 |  | 3.01 |  | 3.01 |  | 2.98 |  |
| Standard Deviation | 1.50 |  | 1.42 |  | 1.19 |  | 1.31 |  | 1.31 |  | 1.32 |  |
| Exam Score | Physics B |  | Physics C E\&M |  | Physics C Mechanics |  | Psychology |  | Spanish Language (Total Group) |  | Spanish Language <br> (Standard Group)** |  |
|  | N | \% At | N | \% At | N | \% At | N | \% At | N | \% At | N | \% At |
| 5 | 14,804 | 16.6 | 6,136 | 31.7 | 12,206 | 28.5 | 50,740 | 21.2 | 33,897 | 25.1 | 6,222 | 13.5 |
| 4 | 17,746 | 19.9 | 4,661 | 24.1 | 11,131 | 26.0 | 63,471 | 26.6 | 34,641 | 25.6 | 9,906 | 21.5 |
| 3 | 23,341 | 26.1 | 2,655 | 13.7 | 8,640 | 20.2 | 46,651 | 19.5 | 26,768 | 19.8 | 9,764 | 21.2 |
| 2 | 14,525 | 16.3 | 3,687 | 19.0 | 6,087 | 14.2 | 30,976 | 13.0 | 22,001 | 16.3 | 9,680 | 21.0 |
| 1 | 18,847 | 21.1 | 2,241 | 11.6 | 4,794 | 11.2 | 47,124 | 19.7 | 17,952 | 13.3 | 10,573 | 22.9 |
| Number of Students | 89,263 |  | 19,380 |  | 42,858 |  | 238,962 |  | 135,259 |  | 46,145 |  |
| 3 or Higher / \% | 55,891 | 62.6 | 13,452 | 69.4 | 31,977 | 74.6 | 160,862 | 67.3 | 95,306 | 70.5 | 25,892 | 56.1 |
| Mean Score | 2.95 |  | 3.45 |  | 3.46 |  | 3.17 |  | 3.33 |  | 2.82 |  |
| Standard Deviation | 1.37 |  | 1.40 |  | 1.33 |  | 1.42 |  | 1.36 |  | 1.36 |  |
| Exam Score | Spanish Literature <br> (Total Group) |  | Statistics |  | Studio Art Drawing |  | Studio Art 2-D Design | esign |  | Studio Art 3-D Design | United State | story |
|  | N | \% At | N | \% At | N | \% At | N | \% At | N | \% At | N | \% At |
| 5 | 2,020 | 10.8 | 21,622 | 12.8 | 2,543 | 15.3 | 3,346 | 13.4 | 453 | 10.9 | 47,098 | 10.6 |
| 4 | 5,293 | 28.2 | 34,460 | 20.3 | 3,388 | 20.4 | 7,797 | 31.3 | 808 | 19.4 | 95,413 | 21.5 |
| 3 | 7,067 | 37.6 | 42,020 | 24.8 | 7,093 | 42.7 | 8,583 | 34.4 | 1,565 | 37.6 | 95,660 | 21.6 |
| 2 | 3,422 | 18.2 | 31,813 | 18.8 | 3,131 | 18.9 | 4,420 | 17.7 | 1,095 | 26.3 | 119,665 | 27.0 |
| 1 | 983 | 5.2 | 39,593 | 23.4 | 442 | 2.7 | 782 | 3.1 | 246 | 5.9 | 85,054 | 19.2 |
| Number of Students | 18,785 |  | 169,508 |  | 16,597 |  | 24,928 |  | 4,167 |  | 442,890 |  |
| 3 or Higher / \% | 14,380 | 76.6 | 98,102 | 57.9 | 13,024 | 78.5 | 19,726 | 79.1 | 2,826 | 67.8 | 238,171 | 53.8 |
| Mean Score | 3.21 |  | 2.80 |  | 3.27 |  | 3.34 |  | 3.03 |  | 2.77 |  |
| Standard Deviation | 1.03 |  | 1.34 |  | 1.02 |  | 1.02 |  | 1.06 |  | 1.28 |  |
| Exam Score | World History |  |  |  |  |  |  |  |  |  |  |  |
|  | N | \% At |  |  |  |  |  |  |  |  |  |  |
| 5 | 13,481 | 5.9 |  |  |  |  |  |  |  |  |  |  |
| 4 | 31,419 | 13.7 |  |  |  |  |  |  |  |  |  |  |
| 3 | 67,584 | 29.4 |  |  |  |  |  |  |  |  |  |  |
| 2 | 69,590 | 30.2 |  |  |  |  |  |  |  |  |  |  |
| 1 | 48,033 | 20.9 |  |  |  |  |  |  |  |  |  |  |
| Number of Students | 230,107 |  |  |  |  |  |  |  |  |  |  |  |
| 3 or Higher / \% | 112,484 | 48.9 |  |  |  |  |  |  |  |  |  |  |
| Mean Score | 2.53 |  |  |  |  |  |  |  |  |  |  |  |
| Standard Deviation | 1.14 |  |  |  |  |  |  |  |  |  |  |  |

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