

TABLE 4
2X2 DIAGNOSTIC ACCURACY FOR SCHOOL ACCOUNTABILITY: NCLB (AND CALIFORNIA API)

| | Good Real Performance (Good Real Improvement) | Poor Real Performance (No Real Improvement) |
|------------------------|--|--|
| Meet AYP (Award) | TRUE POSITIVE <i>a</i> | FALSE POSITIVE <i>b</i> |
| Fail AYP (No Award) | FALSE NEGATIVE <i>c</i> | TRUE NEGATIVE <i>d</i> |

TABLE 9
PROBABILITY CALCULATION FOR NCLB 99% CONFIDENCE INTERVAL: SCHOOLS WITH THREE NONOVERLAPPING SUBGROUPS

| | School with 125 students; 75 Caucasian, 25 Hispanic, 25 African-American | School with 500 students; 300 Caucasian, 100 Hispanic, 100 African-American |
|--------------------------------|--|---|
| English/Lang Arts AMO = .65 | .000037 (47, 11, 11) | .0000196 (192, 54, 54) |
| Mathematics AMO = .57 | .0000068 (42, 8, 8) | .0000098 (169, 45, 45) |

Entries are:

Probability true proficiency meets performance goal, the AMO
(number Caucasian, Hispanic, African-American observed proficient)