

Tables Supporting Items A.13 and A.14 of the Scanlan’s Rule Page of jpscanlan.com

Tables A and B tables below are referred to in Sections A.13 and A.14 of the [Scanlan’s Rule](#) page of jpscanlan.com. They are based on somewhat more precise values than those underlying [Table 1](#) of [BSPS 2006](#). Table A illustrates the relationship between the phi coefficient and the absolute difference between rates. All values between rows defined by AG failure rates of .45 and .35 are included in order to show the coincidence of the maximum value of the absolute difference with the maximum value of the phi coefficient. Table B illustrates the relationship between the Cohen Kappa and the absolute difference. The two values always match.

Table A Comparison of Phi Coefficients with Absolute Differences between Rates Based on Table 1 of BSPS 2006 (b0301 e)

BSPS Codes	AGF	DGF	Phi Coefficient	AbsDf
A 99	0.98983	0.9976	0.049159500265162	0.07770
B 97	0.96995	0.99134	0.077629768652572	0.02139
C 95	0.9495	0.98382	0.095586731541225	0.03432
D 90	0.89973	0.96246	0.123829159778717	0.06273
E 80	0.79955	0.90988	0.156546214686188	0.11033
F 70	0.69847	0.84614	0.176072329025851	0.14767
G 60	0.59871	0.77337	0.188170518162557	0.17466
H 50	0.5	0.68794	0.191349754830729	0.18794
	0.44038	0.63308	0.193222054255466	0.1927
	0.42857	0.62172	0.193394710565108	0.19315
	0.42074	0.6141	0.193477459601434	0.19336
	0.41293	0.60257	0.189662784610584	0.18964
I 40	0.40129	0.59484	0.193551449405778	0.19355
	0.38974	0.58317	0.193501015142494	0.19343
	0.37828	0.57143	0.193394710565108	0.19315
	0.36692	0.55962	0.193222054255466	0.1927
	0.35942	0.54776	0.189156607014741	0.18834
J 30	0.30153	0.49202	0.194684048954229	0.19049
K 20	0.20045	0.36692	0.184644244387388	0.16647
L 10	0.10027	0.21769	0.160560115610652	0.11742
M 5	0.0505	0.12714	0.134700133666854	0.07664
N 3	0.03005	0.08379	0.115974084616169	0.05374
O 1	0.01017	0.03438	0.082025252772428	0.02421

Table B Comparison of Cohen Kappa Values with Absolute Differences between Rates Based on Table 1 of BPS 2006 (b0301 d 1)

BSPS Codes	Cohen Kappa	AbsDf
A 99	0.00777	0.00777
B 97	0.02139	0.02139
C 95	0.03432	0.03432
D 90	0.06273	0.06273
E 80	0.11033	0.11033
F 70	0.14767	0.14767
G 60	0.17466	0.17466
H 50	0.18794	0.18794
I 40	0.19355	0.19355
J 30	0.19049	0.19049
K 20	0.16647	0.16647
L 10	0.11742	0.11742
M 5	0.07664	0.07664
N 3	0.05374	0.05374
O 1	0.02421	0.02421

b0301 e SHOW PHI COEFFICIENTS FOR BPS 2006

BSPS Codes	PHI	AD
A 99	4.91595002651619E-02	7.770000000000005E-03
B 97	7.76297686525716E-02	0.02139
C 95	9.55867315412249E-02	0.03432
D 90	0.123829159778717	0.06273
E 80	0.156546214686188	0.11033
F 70	0.176072329025851	0.14767
G 60	0.188170518162557	0.17466
H 50	0.191349754830729	0.18794
I 40	0.193551449405778	0.19355
J 30	0.194684048954229	0.19049
K 20	0.184644244387388	0.16647
L 10	0.160560115610652	0.11742
M 5	0.134700133666854	0.07664
N 3	0.115974084616169	0.05374
O 1	8.20252527724266E-02	0.02421