

Table 2. Individual Birth-Order Studies, Findings, and Outcomes  
from Ernst and Agnst (1983: 93-189, 243-82), Corrected for  
Errors and Omissions in Reporting

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town- send	Correct Outcome	Remarks, with Error Codes
Abramson 1973	EA 139, 140	Fantasized aggression	122	3	3	A	0	0	CE
Adams 1967	EA 134, 138	Academic motivation	99	0	3	C	2	2	NN-
Adams 1967	EA 182, 183	Popularity	99	0	3	E	0	0	NN-
Adams and Phillips 1972	EA 134, 138	Academic motivation	370	0	3	C	2	2	
Alexander 1966	EA 182, 183	Popularity	1410	2	3	E	-2	99	SP-
Barrett 1975	EA 172	Perception of sex roles (masculinity): self and others' ideals	857	3	0	O	0	1	EA+
Bartelt 1973	EA 095, 096	Self-direction, academic motivation, parent versus peer orientation	258	3	3	C	0	-1	SP, EA+
Bartelt 1973	EA 155, 156	Self-esteem	258	3	3	N	0	0	
Bartelt 1973	EA 093, 095	Parental discipline, perceptions of	258	3	3	U	0	99	CL-
Bartlett & Smith 1966	EA 103, 104	Test Anxiety	31	1	1	N	-2	99	CE-
Bellante 1973	EA 162	Empathy	293	3	3	O	0	0	CE
Biegelsen 1976	EA 146, 148	Interest in social services, cooperative behavior (Sample A)	233	3	0	A	0	0	SP, EA+
Biegelsen 1976	EA 135, 138	Need achievement (intellectual mastery occupations), etc. (Sample A)	350	3	0	C	0	2	SP, EA+
Biegelsen 1976	EA 146, 148	Self control (Sample A)	187	3	0	N	99	0	SP
Biegelsen 1976	EA 095, 096	Parents' occupations, similarity to (Sample A)	389	3	0	O	0	-1	SP, EA+
Biegelsen 1976	EA 146, 148	Interest in social services, cooperative behavior (Sample B)	224	3	0	A	0	1	SP, EA+
Biegelsen 1976	EA 135, 138	Need achievement (intellectual mastery occupations), etc. (Sample B)	346	3	0	C	0	0	SP
Biegelsen 1976	EA 146, 148	Self control (Sample B)	180	3	0	N	99	0	SP
Biegelsen 1976	EA 095, 096	Parents' occupations, similarity to (Sample B)	381	3	0	O	99	1	SP, EA+
Bigner 1974a	EA 097	Power attributions (aggressivity)	578	0	2	A	2	99	SP-
Blustein 1967	EA 134, 138	Academic motivation (effort, based on teachers' ratings)	360	3	0	C	2	2	
Blustein 1967	EA 155, 156	School ability (self-rated)	361	3	0	C	0	99	D-
Blustein 1967	EA 156	School ability (grade point average)	361	3	0	C	0	99	D-
Blustein 1967	EA 125, 126	Conformity	361	3	0	O	2	1	

For a list of codes and abbreviations, see the Appendix.

Table 2. Individual Birth-Order Studies, Findings, and Outcomes from Ernst and Angst (1983: 93-189, 243-82), Corrected for Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town-send	Correct Outcome	Remarks, with Error Codes
Boor 1972	EA 120, 122	Social desirability	116	3	0	A	0	0	
Bragg et al. 1973	EA 098	Persuasive techniques: high versus low power	54	3	1	E	0	1	CE, EA+
Brim 1958	EA 173	Instrumental traits (duplicates Koch)	384	3	3	C	88	99	D-, SP
Brittain 1966	EA 121	Compliance with parents versus peers in a dilemma (conformity vs. defiance)	89	2	0	O	0	0	
Casher 1977	EA 106	Participation in dangerous sports	127	3	3	E	88	2	
Catlin 1972	EA 103, 104	Anxiety about political fears	1776	0	1	N	88	99	CE-
Comeau 1980	EA 151, 153	Creativity	64	3	3	O	-2	-2	
Corsello 1973	EA 093, 095	Awareness of parental authority, guidance, and control	201	0	1	C	2	99	CE-
Corsello 1973	EA 093, 095	Parents, perceived affection and emotional support from	201	0	1	N	0	99	CE-
David 1973	EA 109, 110	Propensity to cheat	79	0	2	C	0	0	
Davie et al. 1972	EA 157, 159	Social adjustment, seen as "conformity to adult standards of behavior" (p. 179)	15468	0	3	O	-2	2	SP
De Avila 1970	EA 132, 137	Need achievement	196	3	0	C	2	0	
De Avila 1970	EA 132, 137	Extraversion: popularity, affiliation needs	196	3	0	E	99	-1	EA+
De Avila 1970	EA 120, 122	Affiliative needs (wanting to be seen with friends: Factor VII)	196	3	0	E	2	99	D-
Dean 1947	EA 167, 170	Worried, dependent (and other traits)	40	3	3	N	2	99	NV-
Dixon 1980	EA 124, 125	Extramarital affairs	419	3	2	O	0	0	CE
Elder 1962a,b	EA 134, 138	Academic motivation: college expectations	7274	3	3	C	2	99	SP-
Elliott & Elliott 1970	EA 135, 138	Academic motivation (educational aspirations)	280	3	3	C	0	0	
Ernst & Angst 1983	EA 260	Agreeableness items, including masculinity	6686	2	3	A	99	1	
Ernst & Angst 1983	EA 251, 257	School achievement	6686	2	3	C	99	0	
Ernst & Angst 1983	EA 277	Extraversion items, including use of tobacco	6686	2	3	E	99	1	
Ernst & Angst 1983	EA 269	Neuroticism items, including use of analgesic drugs	6686	2	3	N	99	-1	

Table 2. Individual Birth-Order Studies, Findings, and Outcomes  
from Ernst and Agnst (1983: 93-189, 243-82), Corrected for  
Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town- send	Correct Outcome	Remarks, with Error Codes
Ernst & Angst 1983	EA 279	Openness to Experience items, including use of cannabis	6686	2	3	O	99	1	
Exner & Sutton-Smith 1970	EA 136	Success among Peace Corps volunteers by region	396	3	0	O	99	2	EA+
Eysenck & Cookson 1969, 1970	EA 158, 159	Achievement	4031	3	1	C	99	2	EA+
Eysenck & Cookson 1969, 1970	EA 159, 160	Extraversion	4031	3	2	E	0	0	CE, EA+, SP
Eysenck & Cookson 1969, 1970	EA 158, 159	Neuroticism	4031	3	1	N	0	0	EA+, SP
Falbo & Richman 1979	EA 133, 137	Need achievement	1041	3	1	C	0	0	CE
Farley 1975a	EA 159, 160	Extraversion	141	3	0	E	0	0	
Farley 1975a	EA 158, 159	Neuroticism	141	3	0	N	0	0	
Farley 1978a	EA 151, 153	Scholastic achievement	50	3	0	C	99	0	EA+
Farley 1978a	EA 151, 153	Creativity	50	3	0	O	2	1	
Fox 1976	EA 108, 110	Anxiety, separation	122	0	2	N	2	2	
Frankel 1968	EA 162, 163	Locus of control	113	3	3	C	0	0	CE
Frankel 1968	EA 141, 144	Feelings of subordinate status (power) within family system	113	3	3	N	99	-1	CE, EA+
Frankel 1968	EA 141, 144	Authoritarianism	113	3	3	O	0	99	D-, CE
Frankel 1968	EA 094, 096	Parents, involvement with	113	3	3	O	0	0	
Glass et al. 1974	EA 135, 138	Educational aspirations	2523	3	3	C	0	2	SP
Gormly 1968	EA 171, 172	Femininity	299	2	0	A	0	0	
Hall & Beil-Warner 1977	EA 142, 144	Assertiveness (self-expression scale)	140	2	0	E	2	1	
Hall 1963, Hall & Barger 1964	EA 165, 169	Selfish, narcissistic, complaining behaviors (MMPI)	104	3	3	A	99	0	EA+
Hall 1963, Hall & Barger 1964	EA 142, 144	Organizing activities, etc.	104	3	3	C	99	2	EA+
Hall 1963, Hall & Barger 1964	EA 142, 144	Organizing (and controlling) tendencies: factor analysis	104	3	3	C	2	99	SP-, D-
Hall 1963, Hall & Barger 1964	EA 163, 164	Inner-directedness of strivings: factor analysis	104	3	3	C	2	99	SP-, D-
Hall 1963, Hall & Barger 1964	EA 165, 169	Playing with friends and other traits	104	3	3	E	99	0	EA+, SP
Hall 1963, Hall & Barger 1964	EA 165, 169	Hysteria and other traits (MMPI)	104	3	3	N	99	1	SP, EA+
Hall 1963, Hall & Barger 1964	EA 154, 156	Self-confidence (in dangerous activities): factor analysis	104	3	3	N	2	99	SP-, D-

Table 2. Individual Birth-Order Studies, Findings, and Outcomes from Ernst and Agnst (1983: 93-189, 243-82), Corrected for Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town-send	Correct Outcome	Remarks, with Error Codes
Hall 1963, Hall & Barger 1964	EA 165, 169	Artistic, curious, effeminate, other traits (MMPI)	104	3	3	O	99	0	EA+
Hall 1963, Hall & Barger 1964	EA 143, 144	Conservatism and resistance to change: factor analysis	104	3	3	O	2	99	D-, SP-
Hall 1963, Hall & Barger 1964	EA 146, 148	Conservatism	104	3	3	O	2	99	D-, SP-
Hall 1963, Hall & Barger 1964	EA 165, 169	"Personality" (sentence completion task)	104	3	3	U	0	99	CL-, D-
Hall 1963, Hall & Barger 1964	EA 165, 169	"Personality" (MMPI)	104	3	3	U	0	99	CL-, D-
Hardy 1972	EA 146, 148	Task oriented (Study 1)	106	0	3	C	2	2	
Harris 1964, Harris & Howard 1968	EA 163, 164	Duty (responsibility)	1200	2	2	C	0	2	CE, SP
Harris 1964, Harris & Howard 1968	EA 163, 164	Independence/maturity	1200	2	2	O	99	1	CE, SP, EA+
Hayden 1973	EA 098	Trait oppositeness among siblings	180	3	3	U	0	99	NT-, SP-
Hess 1971	EA 124, 125	Acceptance of conventional morality	99	3	0	O	2	0	NN-, EA+
Hornbostel & McCall 1980	EA 133, 137	Need achievement (interaction)	120	2	1	C	88	0	SP
Janisch 1973	EA 134, 138	Educational goals and aspirations (Study 1)	100	0	3	C	0	0	CE
Janisch 1973	EA 134, 138	Educational goals and aspirations (Study 2)	100	0	3	C	99	0	CE
Janisch 1973	EA 134, 138	Educational goals and aspirations (Study 3)	100	0	3	C	99	0	CE
Kaltsounis 1978	EA 151, 153	Creativity	36	3	3	O	2	2	
Kaplan 1970	EA 155, 156	Self-esteem (self-derogation)	465	3	3	N	0	0	CE, SP
Keetz 1979	EA 133, 137	Study habits: Need achievement	182	3	3	C	0	0	
Klocklars 1968	EA 166, 169	Concern about status (Study 1)	99	3	0	E	-2	1	NN-, CE
Klocklars 1968	EA 166, 169	Self-understanding (Study 1)	99	3	0	O	99	1	NN-, CE, EA+
Klocklars 1968	EA 147, 149	Leadership, interest in (Study 2)	99	3	0	E	0	0	NN-
Klocklars 1968	EA 166, 169	Concern about status (Study 2)	99	3	0	E	0	99	NN-, CE, D-
Klocklars 1968	EA 166, 169	Self-understanding (Study 2)	99	3	0	O	99	0	NN-, CE, EA+
Koch 1955a-1957	EA 140	Agreeableness: Anger and other traits	384	3	3	A	2	1	EA+

Table 2. Individual Birth-Order Studies, Findings, and Outcomes from Ernst and Agnst (1983: 93-189, 243-82), Corrected for Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town-send	Correct Outcome	Remarks, with Error Codes
Koch 1955a-1957	EA 147, 149	Conscientiousness: Planfulness and other traits	384	3	3	C	2	1	EA+, SP
Koch 1955a-1957	EA 167, 170	Extraversion: Insistence on rights and other traits	384	3	3	E	99	1	EA+
Koch 1955a-1957	EA 154, 156	Neuroticism: Reaction to defeat and other traits	384	3	3	N	99	0	EA+
Koch 1955a-1957	EA 125, 126	Openness to experience: Obedience, curiosity, and other traits	384	3	3	O	0	-1	EA+
Koch 1956b	EA 147, 149	Popularity: Choice of playmates	360	3	3	E	0	99	D-
Koch 1956b	EA 183	Popularity	384	3	3	E	0	99	D-
Koch 1956c	EA 163, 164	Responsibility	384	3	3	C	0	99	D-
Koch 1955a, 1956d	EA 154, 156	Self-confidence and other traits	384	3	3	N	0	99	D-
Koch 1956d	EA 157, 159	Neuroticism (nervous habits)	384	3	3	N	-2	99	D-
Koch 1956d	EA 166, 170	"Personality"	384	3	3	U	88	99	CL-, D-
Koch 1957	EA 103, 104	Anxiety	192	3	3	N	88	99	D-
Koch 1960b	EA 093, 095	Parents, feeling favored by (Study 2)	360	3	3	U	-2	99	NT-
Koch 1960b	EA 097	Bossy behavior (Study 2)	348	3	3	E	2	2	
Krinsky 1963	EA 120, 122	Nurturance (EPPS)	159	1	1	A	0	99	SP-, CE-
Krinsky 1963	EA 150, 152	Autonomy, need for	159	1	1	O	-2	-2	SP-, CE-
Laitman 1975	EA 154, 155	Self-esteem	89	2	0	N	0	0	
Laitman 1975	EA 094, 096	Parents, emotional involvement with	89	2	0	O	2	2	
Lessing & Oberlander 1967a	EA 157, 158	Neuroticism	855	3	3	N	0	0	
Lessing & Oberlander 1972	EA 157, 158	Social adjustment (Study 1)	144	3	2	N	0	0	
Lessing & Oberlander 1972	EA 157, 158	Social adjustment (Study 2: interaction)	238	3	2	N	-2	0	SP, EA+
Leventhal 1970	EA 174	Femininity (CPI) (Study 1)	218	3	0	A	99	0	EA+
Leventhal 1970	EA 141, 144	Interest in stamp and coin collecting, etc. (Study 2)	1352	3	1	C	99	2	EA+
Leventhal 1970	EA 141, 144	Membership in clubs and organizations, etc. (Study 2)	1352	3	1	E	99	1	EA+
Leventhal 1970	EA 141, 144	Aesthetic interests (art, theater, creative writing) (Study 2)	1352	3	1	O	99	-1	EA+
Leventhal 1970	EA 141, 144	Frequency of arguments (Study 3)	341	3	0	A	99	2	EA+

Table 2. Individual Birth-Order Studies, Findings, and Outcomes from Ernst and Agnst (1983: 93-189, 243-82), Corrected for Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town-send	Correct Outcome	Remarks, with Error Codes
Leventhal 1970	EA 141, 144	Extraversion (various life-data traits) (Study 3)	341	3	0	E	99	2	EA+
Leventhal 1970	EA 141, 144	Neuroticism and Anxiety (Study 3a)	145	3	0	N	99	0	EA+, D-
Leventhal 1970	2A 141, 144	Social conventionality: proper roles for women, etc. (Study 3)	341	3	0	O	99	0	EA+
Leventhal 1970	EA 141, 144	Dominance (CPI) (Study 3b)	196	3	0	E	0	99	D-
Leventhal 1970	EA 141, 174	Femininity (MMPI) (Study 4)	644	3	0	A	99	1	EA+
Leventhal 1970	EA 141, 144	Extraversion: dominance (MMPI) (Study 4)	644	3	0	E	99	0	EA+
Leventhal 1970	EA 141, 144	Neuroticism: various traits (MMPI) (Study 4)	644	3	0	N	99	0	EA+
Leventhal 1970	EA 141, 144	Openness to experience: originality, ethnocentrism (MMPI) (Study 4)	644	3	0	O	99	0	EA+
MacDonald 1970 [1969b]	EA 115, 117	Affiliation under stressful conditions (Study 2, various subsamples)	116	3	1	N	99	0	CE
MacDonald 1971	EA 119, 122	Social desirability (Study 3)	472	3	1	A	0	0	
MacDonald 1971	EA 123	Responsibility, social related findings (Study 3)	476	3	1	C	99	2	
MacDonald 1971	EA 119, 122	Social desirability (Study 4)	339	3	1	A	0	0	
MacDonald 1971	EA 119, 122	Rigidity (Study 4)	786	3	0	O	99	1	EA+
MacFarlane et al. 1954	EA 160	Neuroticism: various traits	87	0	1	N	-2	99	SP-, CE-
Macbeth 1975	EA 166, 170	Agreeableness (relevant MMPI, CPI, and CCPI scales) (Study 1)	716	3	0	A	99	0	EA+
Macbeth 1975	EA 166, 170	Conscientious (various scales) (Study 1)	716	3	0	C	99	2	EA+
Macbeth 1975	EA 133, 138	Conscientiousness (need achievement and other traits) (Study 1)	716	3	0	C	0	99	EA+, D-
Macbeth 1975	EA 166, 170	Extraversion (affiliation and other traits) (Study 1)	716	3	0	E	99	-1	EA+
Macbeth 1975	EA 119, 122	Extraversion (affiliation and other traits) (Study 1)	716	3	0	E	0	99	D-

Table 2. Individual Birth-Order Studies, Findings, and Outcomes from Ernst and Agnst (1983: 93-189, 243-82), Corrected for Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town-send	Correct Outcome	Remarks, with Error Codes
Macbeth 1975	EA 146, 148	Leading others, interest in (Study 1)	716	3	0	E	0	99	D-
Macbeth 1975	EA 158, 159	Neuroticism (various traits) (Study 1)	716	3	0	N	-2	0	EA+
Macbeth 1975	EA 120, 122	Dependency (Study 1)	716	3	0	N	0	99	D-
Macbeth 1975	EA 120, 122	Openness to experience, conformity, and related traits (Study 1)	716	3	0	O	99	0	EA+
Macbeth 1975	EA 143, 145	Openness to experience (political conservatism) (Study 1)	716	3	0	O	0	99	D-
Macbeth 1975	EA 147, 148	Values (Allport Study of Values) (Study 1)	716	3	0	O	0	99	D-
Macbeth 1975	EA 150, 152	Attitudes toward figure complexity (Study 1)	716	3	0	O	0	99	D-
Macbeth 1975	EA 166, 170	"Personality" (relevant MMPI, CPI, and CCPI scales) (Study 1)	716	3	0	U	0	99	CL-
Macbeth 1975	EA 166, 170	Agreeableness (relevant MMPI scales) (Study 2)	265	3	0	A	99	0	EA+
Macbeth 1975	EA 133, 138	Conscientiousness (need achievement and other traits) (Study 2)	265	3	0	C	0	0	EA+
Macbeth 1975	EA 119, 122	Extraversion (affiliation and other traits) (Study 2)	265	3	0	E	0	0	EA+
Macbeth 1975	EA 146, 148	Leading others, interest in (Study 2)	265	3	0	E	0	99	D-
Macbeth 1975	EA 158, 159	Neuroticism (various traits) (Study 2)	265	3	0	N	0	0	EA+
Macbeth 1975	EA 120, 122	Dependency (Study 2)	265	3	0	N	0	99	D-
Macbeth 1975	EA 143, 145	Openness to experience, political conservatism, and related traits (Study 2)	265	3	0	O	0	0	EA+
Macbeth 1975	EA 147, 148	Values (Allport Study of Values) (Study 2)	265	3	0	O	0	99	D-
Macbeth 1975	EA 150, 152	Attitudes toward figure complexity (Study 2)	265	3	0	O	0	99	D-
Macbeth 1975	EA 166, 170	"Personality" (relevant MMPI, etc. scales) (Study 2)	265	3	0	U	0	99	CL-
Marjoribanks 1979	EA 142, 144	Tender-mindedness	280	3	3	A	99	2	EA+
Marjoribanks 1979	EA 142, 144	Dogmatism	280	3	3	O	0	0	
Masterson 1971	EA 120, 122	Social desirability	155	3	0	A	2	0	SP
McAllister et al. 1974	EA 124, 125	Preferred number of offspring (interpreted as responsibility)	635	3	0	C	0	0	

Table 2. Individual Birth-Order Studies, Findings, and Outcomes from Ernst and Agnst (1983: 93-189, 243-82), Corrected for Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town-send	Correct Outcome	Remarks, with Error Codes
McArthur 1956	EA 167, 170	Agreeableness (various traits) (Study 1)	330	3	3	A	99	0	EA+
McArthur 1956	EA 167, 170	Conscientiousness (various traits) (Study 1)	330	3	3	C	99	2	EA+
McArthur 1956	EA 167, 170	Extraversion (various traits) (Study 1)	330	3	3	E	2	1	EA+
McArthur 1956	EA 167, 170	Neuroticism (various traits) (Study 1)	330	3	3	N	99	1	EA+
McArthur 1956	EA 167, 170	Openness to experience (various traits) (Study 1)	330	3	3	O	99	1	EA+
McCormick & Baer 1975	EA 159, 160	Extraversion (interaction)	120	3	0	E	2	0	
McCormick & Baer 1975	EA 158, 159	Neuroticism	120	3	0	N	99	0	CE+
Mealiea & Farley 1973	EA 103, 105	Fears (Wolpe's Fear Survey)	148	3	0	N	2	1	
Mendelsohn, Linden, Gruen, & Curran 1974	EA 178, 180	Complementarity in dating	128	3	3	U	88	99	NT-
Miller & Maruyama 1976	EA 181, 183	Social skills (not being demanding)	1347	3	3	A	99	1	EA+
Miller & Maruyama 1976	EA 181, 183	Achievement motivation	1347	3	3	C	99	0	EA+
Miller & Maruyama 1976	EA 181, 183	Popularity (play, seating, and work partners)	1347	3	3	E	2	2	
Miller & Maruyama 1976	EA 182, 183	Social skills	1347	3	3	E	2	99	D-
Miller & Maruyama 1976	EA 103, 104	Anxiety (and other traits)	1347	3	3	N	0	99	CE, D-
Miller & Maruyama 1976	EA 155, 183	Neuroticism: jealousy, self-esteem, anxiety	1347	3	3	N	99	1	EA+, CE+
Miller & Maruyama 1976	EA 114, 183	Conformity: Susceptibility to peer pressure	1347	3	3	O	99	0	EA+, CE+
Mukherjee 1968	EA 134, 138	Need achievement	472	0	3	C	88	0	
Munz et al. 1968	EA 133, 137	Need achievement	360	3	0	C	0	0	
Murray 1971	EA 182, 183	Popularity	709	3	3	E	0	0	
Neetz 1974	EA 147, 149	"Leadership": responsibility and initiative (Study 1)	99	2	2	C	99	-1	NN-, CE
Neetz 1974	EA 147, 149	"Leadership": responsibility and initiative (Study 2)	99	2	2	C	0	-1	NN-, CE



Table 2. Individual Birth-Order Studies, Findings, and Outcomes from Ernst and Agnst (1983: 93-189, 243-82), Corrected for Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town-send	Correct Outcome	Remarks, with Error Codes
Neetz 1974	EA 147, 149	"Leadership": responsibility and initiative (Study 3)	99	2	2	C	99	1	NN-, CE
Newbert 1969	EA 167, 170	Egotistical and attention-getting	120	3	3	A	99	2	EA+
Newbert 1969	EA 167, 170	Conscientiousness: Dependable	120	3	3	C	99	-1	EA+
Newbert 1969	EA 167, 170	Extraversion: Zestful, demanding, given to action	120	3	3	E	99	1	EA+
Newbert 1969	EA 167, 170	Maladjustment and jealousy	120	3	3	N	99	1	EA+
Newbert 1969	EA 167, 170	Favorableness of birth-order position (peer relations): parents' views	120	3	3	U	0	99	NT-
Newbert 1969	EA 167, 170	"Personality"	120	3	3	U	88	99	CL-
Nisbett 1968	EA 106	Participation in dangerous sports (Study 1)	2263	3	0	E	2	2	
Nisbett 1968	EA 106	Participation in dangerous sports (Study 2)	428	3	0	E	2	0	SP
Oberlander et al. 1970	EA 146, 148	Group activities, valuing	258	1	3	E	2	1	EA+
Oberlander et al. 1971	EA 146, 148	Interest in social welfare, society	258	1	3	A	2	1	EA+
Oberlander et al. 1971	EA 146, 148	Wanting to meet famous educators, writers, scientists	299	1	3	C	99	2	EA+
Oberlander et al. 1971	EA 146, 148	Unconventional responses to a questionnaire about interests	258	1	3	O	99	2	EA+
Owyang 1971	EA 139, 140	Aggression, etc.	82	3	0	A	99	-1	CE+
Owyang 1971	EA 120, 122	Social desirability	82	3	0	A	0	99	D-
Owyang 1971	EA 158, 159	Neuroticism	82	3	0	N	2	2	
Palmer 1966	EA 094, 96	Parents, perceived similarity with	55	1	3	O	2	2	
Price 1969	EA 168, 170	Agreeableness (various traits)	618	3	3	A	99	0	EA+
Price 1969	EA 168, 170	Conscientiousness (various traits)	618	3	3	C	99	2	EA+
Price 1969	EA 168, 170	Extraversion (various traits)	618	3	3	E	-2	2	EA+
Price 1969	EA 168, 170	Neuroticism (various traits)	618	3	3	N	99	1	EA+
Price 1969	EA 168, 170	Openness (various traits)	618	3	3	O	99	2	EA+
Purpura 1971	EA 094, 96	Education: Intention of going to college	311	1	3	C	99	2	EA+

Table 2. Individual Birth-Order Studies, Findings, and Outcomes  
from Ernst and Agnst (1983: 93-189, 243-82), Corrected for  
Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town- send	Correct Outcome	Remarks, with Error Codes
Purpura 1971	EA 154, 156	Self-esteem	311	1	3	N	99	0	CE+
Purpura 1971	EA 094, 96	Parents, identification with	311	1	3	O	2	2	
Purpura 1971	EA 112, 114	Conformity to group pressure	311	1	3	O	2	99	D-
Rhine 1968	EA 112, 114	Conformity to group pressure in an achievement situation	64	2	3	C	99	0	CE, EA+
Rhine 1968	EA 112, 114	Conformity to group pressure in a nonachievement situation	64	2	3	O	99	2	CE, EA+
Rhine 1974	EA 112, 114	Conformity to group pressure in an achievement situation	128	2	3	C	99	0	CE
Rhine 1974	EA 112, 114	Conformity to group pressure in a nonachievement situation	128	2	3	O	2	1	CE
Robertson 1971	EA 103, 104	Anxiety	297	1	3	N	-2	-1	
Robertson 1971	EA 158, 159	Neuroticism	297	1	3	N	0	99	D-
Robertson 1971	EA 160	Extraversion	297	1	3	E	-2	1	
Roodin et al. 1978	EA 130, 131	Volunteering for a psychology experiment	270	3	0	A	0	1	EA+
Roodin et al. 1978	EA 130, 131	Thrill seeking	286	3	0	E	99	0	EA+
Roodin et al. 1978	EA 130, 131	Autonomy (EPPS)	286	3	0	O	99	0	EA+
Rosen 1961	EA 133, 137	Need achievement (Study 1)	335	3	3	C	0	0	
Rosen 1961	EA 133, 137	Need achievement (Study 2)	389	3	3	C	0	0	
Rosen 1964	EA 095, 096	Parental values, similarity to	110	3	3	O	0	0	
Rosenberg & Sutton-Smith 1964	EA 104, 174	Masculinity	134	3	1	A	99	0	EA+
Rosenberg & Sutton-Smith 1964	EA 139, 140	Impulsivity	134	3	1	E	99	-1	EA+
Rosenberg & Sutton-Smith 1964	EA 139, 140	Impulsivity	134	3	1	E	0	99	D-, EA+
Rosenberg & Sutton-Smith 1964	EA 103, 104	Anxiety	134	3	1	N	0	1	EA+
Rosenberg 1965	EA 154, 156	Self-esteem	3967	0	1	N	0	99	CE-
Rosenbluh & Haarman 1970	EA 134, 138	Academic motivation (educational goals)	199	0	1	C	0	99	CE-
Sampson & Hancock 1967	EA 132, 137	Need achievement	251	3	1	C	2	2	
Sampson & Hancock 1967	EA 120, 122	Affiliation needs	251	3	1	E	0	0	
Sampson & Hancock 1967	EA 104	Anxiety	251	3	1	N	99	0	

Table 2. Individual Birth-Order Studies, Findings, and Outcomes from Ernst and Agnst (1983: 93-189, 243-82), Corrected for Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town-send	Correct Outcome	Remarks, with Error Codes
Sampson & Hancock 1967	EA 150, 152	Autonomy (EPPS)	251	3	1	O	0	-1	SP
Sampson & Hancock 1967	EA 112, 114	Conformity to group pressure	251	2	1	O	2	99	D-
Sampson 1962	EA 103, 104	Anxiety	265	0	0	N	0	99	SP-, CE-
Schachter 1976	EA 098	Sibling dissimilarity	383	3	3	U	88	99	NT-
Schacter et al. 1978	EA 098	Sibling dissimilarity	325	3	3	U	88	99	NT-
Schaller 1972	EA 093, 095	Parental authority and control, awareness of	820	3	0	O	2	2	
Schettino and Borden 1976	EA 128	Aggressivity	1507	3	0	A	99	0	EA+
Schettino and Borden 1976	EA 128	Nervousness and vulnerability	1507	3	0	N	0	0	
Schmuck 1963	EA 121	Compliance (conformity) or defiance	36	3	0	O	0	0	
Schooler 1972a,b,c	EA 119	Trustfulness, self-oriented values, concern about pleasure for self	3101	3	3	A	99	0	EA+
Schooler 1972a,b,c	EA 119	College attendance	3101	3	3	C	99	0	EA+
Schooler 1972a,b,c	EA 119	Anxiety	3101	3	3	N	99	0	EA+
Schooler 1972a,b,c	EA 119	Field dependence	3101	3	3	O	0	0	
Schwartz 1976	EA 147, 148	Postconventional moral judgment and values	100	3	3	O	0	2	CE, SP, EA+
Sears 1957	EA 107	Aggressivity toward neighborhood children	379	2	1	A	99	2	EA+
Sears 1957	EA 107	Conscientiousness	379	2	0	C	99	2	EA+
Sears 1957	EA 107	Admitting more readily to faults	379	2	1	U	2	99	CL-, CE
Sears 1970	EA 171, 172	Masculinity (sex roles)	159	2	0	A	0	0	
Sears 1970	EA 107, 156	Self-criticism	159	2	0	N	99	-1	CE+
Sears 1970	EA 107, 156	Self-conceptions (self-esteem)	159	2	0	N	-2	99	CE, D-
Sells & Roff 1963	EA 181, 182	Popularity	1013	0	0	E	88	99	SP-, CE-
Sellwood 1975	EA 151, 153	Creativity	124	3	3	O	0	0	
Singer 1971	EA 093, 095	Affectionate behavior with parents	3705	3	3	E	0	99	SP-, EA+
Singer 1971	EA 094, 096	Parents, orientation towards	3705	3	3	O	2	2	SP
Singer 1971	EA 094, 096	Parents, identification with	1662	3	3	O	0	99	SP-, D-
Smith 1971	EA 094, 95	Parental authority, acceptance of (Study 1)	785	3	3	O	2	1	SP
Smith 1971	EA 094, 95	Parental authority, acceptance of (Study 2)	630	3	3	O	99	0	
Solomon 1977	EA 121, 123	Anxiety and Dependence	396	2	0	N	88	1	EA+

Table 2. Individual Birth-Order Studies, Findings, and Outcomes  
from Ernst and Agnst (1983: 93-189, 243-82), Corrected for  
Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town- send	Correct Outcome	Remarks, with Error Codes
Staffieri & Basset 1970	EA 161	Empathy: interpreting moods in facial expressions	228	2	0	O	0	0	
Stenger 1975	EA 166, 169	Expression, social	240	3	2	E	99	2	
Stenger 1975	EA 166, 169	Defensiveness	240	3	2	N	99	2	
Stenger 1975	EA 166, 169	Social nonconformity	240	3	2	O	99	0	EA+
Stenger 1975	EA 142, 148	Work values: choice of college major	240	3	2	U	0	99	NT-, CE
Stenger 1975	EA 146, 148	Work values: concern about extra benefits	240	3	2	U	0	99	NT-, CE
Stenger 1975	EA 166, 169	"Personality"	240	3	2	U	88	99	CL-
Stenning 1968	EA 133, 137	Need achievement: U. S. Sample (Study 1)	99	0	2	C	88	0	NN-
Stenning 1968	EA 121	Affiliative needs	99	0	2	E	0	0	NN-
Stenning 1968	EA 133, 137	Need achievement: Mexican sample (Study 2)	99	0	2	C	0	0	NN-
Stenning 1968	EA 121	Affiliative needs	99	0	2	E	99	0	NN-
Stewart 1967	EA 165, 169	Love	100	2	2	A	99	0	CE, EA+
Stewart 1967	EA 165, 169	Dominance	100	2	2	E	99	0	CE, EA+
Stewart 1967	EA 150, 152	Attitudes toward figure complexity and other tests	100	2	2	O	0	2	CE, EA+
Stewart 1967	EA 119	Field dependence	100	2	2	O	2	99	CE, D-
Stewart 1967	EA 165, 169	"Personality"	100	2	2	U	0	99	CL-, CE
Stokes & Johnson 1977	EA 124, 125	Preferred number of offspring (interpreted as responsibility)	4504	3	1	C	0	0	CE
Stroup & Jamison 1965	EA 165, 169	"Personality"	1560	0	0	U	0	99	CL-, SP-, CE-
Struempfer 1973	EA 135, 138	Need achievement	318	3	3	C	0	0	
Sutton-Smith & Rosenberg 1970:101-2	EA 094, 096	Aggression (Study 1)	40	3	3	A	99	2	EA+
Sutton-Smith & Rosenberg 1970:101-2	EA 094, 096	Parents, involvement with (Study 1)	40	3	3	O	0	2	SP, EA+
Sutton-Smith & Rosenberg 1970:111	EA 161	Empathy (Study 2)	120	3	0	O	0	1	EA+
Sutton-Smith & Rosenberg 1970:113	EA 140, 165	Aggression (Study 3)	80	3	0	A	0	99	SP-
Sutton-Smith & Rosenberg 1970:113	EA 094, 096	Perceived similarity to adults (Study 3)	80	3	0	O	2	2	
Sutton-Smith & Rosenberg 1970:113	EA 165, 169	"Personality" (Study 3)	80	3	0	U	0	99	CL-, SP-
Sutton-Smith & Rosenberg 1970:121	EA 161	Acting interests (empathy) (Study 6)	70	3	0	O	99	2	EA+
Sutton-Smith & Rosenberg 1970:44	EA 097	Bossy and dominant behavior (Study 7)	95	1	2	E	2	2	

Table 2. Individual Birth-Order Studies, Findings, and Outcomes from Ernst and Agnst (1983: 93-189, 243-82), Corrected for Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town-send	Correct Outcome	Remarks, with Error Codes
Sutton-Smith & Rosenberg 1970:49-53	EA 097	Aggression (Study 9)	140	3	0	A	88	99	SP-, CE+
Sutton-Smith et al. 1964	EA 145, 148	Interest in teaching	137	3	2	C	0	99	SP-, CE
Swanson et al. 1972	EA 158, 159	Neuroticism	704	2	0	N	0	0	
Tomeh 1970	EA 094, 096	Time spent visiting friends, etc.	300	2	3	E	99	0	EA+, SP, CE
Tomeh 1970	EA 094, 096	Frequency of visiting friends	300	0	3	E	2	99	EA+, D-
Tomeh 1969, 1971, 1972	EA 094, 096	Dependence on parents (for advice, etc.)	401	1	3	O	0	2	EA+, SP
Turner 1962	EA 135, 138	Educational and vocational goals	2175	3	3	C	0	0	
Vaughn 1975	EA 166, 170	Adjustment	102	2	0	N	-2	-1	SP
Verger 1968	EA 098	Sibling dissimilarity	210	3	3	U	88	99	NT-
Vuyk 1959	EA 167, 170	Extraversion	125	3	3	E	-2	99	SP-
Vuyk 1959	EA 167	Being easygoing	125	3	3	N	99	2	SP
Vuyk 1961, 1963	EA 167, 170	Violent tempered	868	3	3	A	99	-2	EA+
Vuyk 1961, 1963	EA 167, 170	Responsibility, dependability, and other traits	868	3	3	C	2	2	EA+
Vuyk 1961, 1963	EA 167, 170	Quiet, cheerful, lively, playful, and other traits	868	3	3	E	99	2	EA+
Vuyk 1961, 1963	EA 167, 170	Anxious, nervous, Temperamental, and other traits	868	3	3	N	99	2	EA+
Vuyk 1961, 1963	EA 167, 170	Interests, similarity to parents, and other traits	868	3	3	O	99	2	EA+
Vuyk 1963 [1961]	EA 167, 170	Serious, sober, popular with peers, and other traits	520	3	3	E	0	99	EA+, D-
Ward, Castro, & Wilcox 1974	EA 177, 180	Complementarity of birth orders in marriage (Study 1)	154	1	3	U	88	99	NT-
Ward, Castro, & Wilcox 1974	EA 177, 180	Responsibility (return of survey), desired family size, family size (Study 1)	146	1	2	C	99	1	EA+
Ward, Castro, & Wilcox 1974	EA 177, 180	Conventionality: age of marriage (Study 1)	146	1	2	O	99	0	EA+
Ward, Castro, & Wilcox 1974	EA 177, 180	Responsibility (return of questionnaire), family size (Study 2)	146	1	2	C	99	2	EA+

Table 2. Individual Birth-Order Studies, Findings, and Outcomes  
from Ernst and Agnst (1983: 93-189, 243-82), Corrected for  
Errors and Omissions in Reporting (Cont.)

Authors	Pages in EA	Finding(s)	N	SS	SES	Big Five	Town- send	Correct Outcome	Remarks, with Error Codes
Ward, Castro, & Wilcox 1974	EA 177, 180	Conventionality: age of marriage of spouse (Study 2)	146	1	2	O	99	0	EA+
Waters & Kirk 1967	EA 120, 122	Affiliative needs	564	3	0	E	0	0	
Watkins & Astilla 1980	EA 154, 155	Self-esteem	204	3	0	N	0	0	
Wiedl 1977	EA 150, 152	Attitudes toward figure complexity	97	3	0	O	0	0	
Wilks 1979	EA 151, 153	Creativity	68	3	2	O	0	0	CE
Yando et al. 1975	EA 109, 111	Wariness toward an experimenter (nonsupport condition)	144	3	1	N	99	1	CE, EA+
Yando et al. 1975	EA 109, 111	Susceptibility to reinforcement with and without encouragement	96	3	1	O	0	1	CE, EA+, SP
Yang & Liang 1973 [1967]	EA 133, 137	Need achievement (Study 2)	128	0	3	C	0	0	