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¹ Urban Middle and High School Students' Reading Attitudes and Beliefs: A Large-Sample Survey ³ Jeff McQuillan¹ ⁴ ¹ Center for Educational Development ⁵ Received: 14 December 2012 Accepted: 4 January 2013 Published: 15 January 2013

7 Abstract

Reading attitudes and beliefs about reading competency are thought to affect reading 8 frequency, and thus exert an indirect influence on reading achievement. This study examines 9 student attitudes and beliefs concerning recreational and academic reading among a large 10 sample (N = 14.315) of urban middle and high school students (grades 7 to 12). Contrary to 11 previous findings on elementary age students, the present study found that positive attitudes 12 toward reading do not appear to decline as students get older, nor does the gap in positive 13 attitudes widen between good and poor readers. Consistent with other research, beliefs about 14 reading competence were stable or rising in high school. Girls were found to have more 15 positive attitudes toward reading than boys, and students with higher self-reported 16 English/reading grades had substantially higher levels of reading motivation and reading 17 self-efficacy. Implications for theories of reading attitude formation, reading self-efficacy, and 18 reading instruction are discussed. 19

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Index terms— competency, attitudes, recreational.

²² 1 Introduction

c Kenna, Kear, and Ellsworth (1995) observe that student attitudes toward reading are important for at least 23 two reasons. First, attitude may influence reading proficiency by affecting the amount of reading students engage 24 in (Greaney & Hegarty, 1987). Students who read more typically read better, a finding that has held true 25 for both first (Anderson, Fielding, & Wilson, 1988) as well as second language (Elley, 1991) readers. Second, 26 attitude is important in understanding students who are proficient readers but choose not to read, sometimes 27 known as aliteracy. Despite the professed importance of attitude in determining reading success, there is little 28 known about how attitudes toward reading change over time and across dimensions for students in middle and 29 secondary school. Large-sample surveys have previously focused on younger students (grades 1-6) (e.g. Mc 30 Kenna, Kear, & Ellsworth, 1995;McKenna, Stratton, Grindler, & Jenkins, 1995) or have not had the benefit 31 of a multi-dimension instrument to measure different types of attitudes displayed by students (e.g. the National 32 Assessment of Educational Progress Author ??NAEP)). This study examines data on reading attitudes and 33 beliefs among a large sample of urban middle and secondary age students, analyzing differences by grade level, 34 gender, and self-reported reading achievement. 35

36 **2** II.

³⁷ 3 Background a) Theoretical Approaches to Reading Attitudes

The development of reading attitudes has received considerable attention at the theoretical level. One of the most comprehensive models is that of Mathewson (1994), whose model of attitude formation consists of three central elements: feelings about reading, readiness to engage in the act of reading, and beliefs about reading. This

3 BACKGROUND A) THEORETICAL APPROACHES TO READING ATTITUDES

tripartite construct of attitude combines three approaches commonly taken toward the definition of attitude in the psychological literature-affective, conative, and cognitive-and has it roots in a longer philosophical tradition.

According to Mathewson, reading attitudes are part of a causal system in which they affect and are affected by

44 a number of variables. Attitude, for example, is influenced by two other factors.

The first is what Mathewson calls "cornerstone concepts," consisting of personal values, goals, and self-concepts. The second factor is labeled "persuasive communications," and consists of both "central route" persuasive messages, such as the teacher telling students that reading will lead to demonstrated benefits, and "peripheral route" persuasive messages, such as an attractive book cover. Central route persuasive messages are thought to be more permanent, since they involve some change in the students' cognitive belief system. In any case, students' reading attitude are a function of both the cornerstone concept and the persuasive messages they encounter, both of which are to some extent under the control of larger school and home environments.

Reading attitude indirectly affects reading behavior by way of one's intention to read. The path between attitude and behavior is not direct, in Mathewson's view, because attitudes are not always able to be operationalized into action. Intention to read is required, which itself may be vague and weak, and therefore unlikely to lead to action, or firm and strong, resulting in the commencement or continuation of the reading act.

You may, for example, be sitting in a waiting room with favorable attitudes toward reading. But you must form, according to Mathewson, an intention to read that particular issue of the news weekly laying on the table in order for actual reading to result.

Influenced by work by Fishbein, Ajzen, and Liska (Ajzen & Fishbein, 1980;Liska, 1984), McKenna (1994)
 proposed an alternative model of reading attitude acquisition to compensate for the weaknesses he perceived in
 Mathewson's formulation.

McKenna argued that a more complete model of attitude formation must show how evaluative beliefs (the cognitive leg of Mathewson's tripartite definition of attitude) affect attitude as a separate construct. In addition, McKenna noted that the Mathewson model does not sufficiently address how attitudes develop over time, nor does it provide sufficient attention to the impact of subjective norms in the decision to read.

In McKenna's model, beliefs about reading are distinct and causally antecedent to reading attitude. Attitude 66 is re-defined without a cognitive component, and instead is considered primarily affective in nature. The model 67 posits two types of beliefs that influence attitude: (a) a reader's beliefs about the outcomes of reading in light 68 of his/her perceived desirability of those outcomes; and (b) beliefs about the expectations of others in view 69 70 of one's own desires to conform to those expectations. (Beliefs about one's ability to perform an action-what Bandura (1977) calls "self-efficacy"-are not an explicit part of Mc Kenna's system (see below)). Another difference 71 in McKenna's model involves the relationship among attitude, intention to read, and reading behavior. Unlike 72 Mathewson's model, the McKenna model claims that the ultimate decision to read is affected directly by attitude, 73 unmediated by intention. Intention to read is still present in McKenna's model, but now appears as a separate, 74 direct influence on reading behavior, in addition to subjective norms. McKenna hypothesizes that these three 75

r6 causal influences on reading behavior-attitude, intention to read, and subjective norms-do not influence each r7 other directly.

How do these reading attitudes develop over time? McKenna's model predicts that a person's belief about 78 the outcomes of reading will be influenced by the two antecedent beliefs noted above (normative beliefs and 79 beliefs about the outcomes of reading), as well as by a third "feedback" loop from the results of specific reading 80 experiences. According to this view, beliefs related to the outcomes of reading (pleasurable, dull, exciting) are 81 formed in reference to competing activities and their subsequent outcomes. Thus, as a child grows older, the 82 possibility of engaging in other, more desirable pastimes may have a negative effect on beliefs about reading, and 83 subsequently on attitude. Similarly, the social norms surrounding reading behavior, influenced by both cultural 84 and gender-related practices, may influence one's attitudes toward reading. 85

Finally, negative experiences while reading will also cause more negative attitudes to develop toward reading, such that poor readers will develop more negative attitudes as a result of their frustration or boredom.

All models of attitude formation are predicated upon some definition of the object of the attitudes being 88 examined. The object of reading attitudes is often thought to consist of a hierarchy ranging from general to 89 specific reading interests. In a factor analysis of a reading attitude survey, McKenna and Kear (1990) found that 90 there appear to be two dimensions to reading attitudes among elementary students, one recreational and one 91 academic. McKenna states that it is likely there is also a global attitude toward reading which is correlated with 92 these specific types of reading, since the decline of global attitudes toward reading over time is similar to the 93 decline in the number of reading interests (McKenna, 1986). b) Self-Efficacy, Attitudes, and Reading Motivation 94 Models of reading attitude formation have not typically included any explicit mention of motivation as a separate 95 construct in explaining the decision for students to engage in reading. 96

For Mathewson, "motivation" is defined as a function of intention; to say that a students is "motivated to read" means that he or she "has developed firm intentions to read for a variety of reasons" (Mathewson, 1994 ??Mathewson, p. 1139)). Mc Kenna believes that attitude affects reading decisions directly, without any further mediating variables.

Other theorists, such as Wigfield and Guthrie (1997), have analyzed the cognitive and affective variables involved in reading through traditional and emerging constructs related to motivation (e.g. Csikszentmihalyi, 1990;Deci & Ryan, 1992;Dweck & Leggett, 1988). One variable that forms part of this broader view of motivation

is self-efficacy. Self-efficacy has been defined as "people's judgments of their capacities to organize and execute 104 courses of action required to attain designated types of performances" ??Bandura, 1986, p. 391). Central to 105 this capacity for organization and execution is one's belief in one's ability to perform the task at hand (Bandura, 106 1977). Those with a strong sense of self-efficacy will have positive expectations about their success in performing 107 a task, and therefore will be more likely to choose to engage in it, to persist when difficulties arise, and to be 108 more successful in coping strategies necessary for task completion (Bandura, 1977). Research on self-efficacy has 109 found that it is related to a diverse range of behaviors both in and out of school, affecting one's choice of activities 110 and persistence in task performance (Bandura, 1986;Schunk, 1991). 111

With respect to reading, Wigfield, Guthrie, and other researchers have posited that self-efficacy and attitude 112 are two aspects of a larger, multifaceted G construct of reading motivation, which in turn has a direct influence on 113 one's decision to read (see also Wigfield, 1997;. In this view, Mc Kenna's set of processes for attitude formation 114 becomes a subset of a more comprehensive model in which both affective components (such as attitude) and 115 cognitive components (such beliefs about outcomes, social expectations, and competency) are seen as contributing 116 to motivation and, ultimately, to reading behaviors. Supporting this broader view is research showing that both 117 attitude and self-efficacy have been found to correlate significantly with students' reading behavior ??Mc Kenna, 118 Kear, & Ellsworth, 1995; Wigfield & Guthrie, 1997). As such, it seems reasonable to examine both concepts 119 together when looking at the larger process of what Guthrie and Anderson (1999) call "reading engagement," a 120 complex set of relationships involving motivation, strategies, conceptual understanding, and social interactions. 121

¹²² 4 c) Previous Studies of Reading Attitudes and Behavior

Previous studies of elementary-age children have confirmed McKenna's key predictions regarding reading 123 attitudes. Attitudes toward reading do tend to become more negative over time, from grade 1 through grade 6. 124 McKenna, Kear, and Ellsworth's (1995) study of a national sample of elementary school children from a variety 125 of socio-economic and ethnic/racial backgrounds found that the overall developmental trend in reading attitudes 126 was steadily negative, beginning in grade 2. While the size of the drop from year to year was not large, the 127 cumulative effect was substantial. McKenna, Stratton, Grindler, and Jenkins (1995) noted similarly large drops 128 across grade levels for a sample (N = 1,146) of elementary school children, regardless of the type of instruction 129 they received ("whole language" or "basal"). ??ush and Watkin's (1996) longitudinal survey of 190 children 130 in grades 1 through 4 over a three year interval showed an overall decline on the ERAS as well, confirming 131 cross-sectional evidence found in McKenna's studies. 132

Similar drops were found in studies of elementary-age students by Anderson, Tollefson, and Gilbert (1985),
Barnett and Irwin (1994), Parker and Paradis (1986), and Ross and Fletcher (1989).

Studies among elementary and middle school students also seem to confirm that poor readers have more negative attitudes toward reading, and their attitude toward reading becomes more negative more quickly as they grow older. Greaney and Hegarty's (1987) study of Irish 5 th graders found that reading attitude was correlated significantly with achievement, and similar correlations were noted in Askov and Fischbach's (1973) study of first and third graders (see also Martin, 1984;Swanson, 1982;and Wallbrown, Vance, & Prichard, 1979). McKenna, Kear, and Ellsworth (1995) found further that the gap in recreational reading attitudes between high-and low-achieving students widened over time, although not in academic reading attitudes.

Girls tend to have more positive attitudes toward reading than boys (Stevenson & Newman, 1986), although 142 143 this situation is confounded by the fact that girls tend to be slightly better readers than boys as well. Nevertheless, even after removing the effects of achievement, Askov and Fischbach (1973) found that girls had significantly more 144 positively attitudes toward reading than boys in the early grades. Indeed, almost every study that has measured 145 attitudes and gender has found that girls are more favorably disposed to reading than boys are ?? While the 146 trends predicted by McKenna hold true for students in the elementary grades, it is still unclear whether they 147 are true at the higher grade levels among a large sample of students. Small scale surveys of older students have 148 provided mixed support for some of McKenna's predictions. Anderson, Tollefson, and Gilbert's (1985) survey 149 of gifted students revealed that while there was a drop in positive attitudes toward leisure reading after grade 4 150 on some items of their survey, there was not on others. Ley and Trentham's (1987) survey of nearly 400 gifted 151 students found no drops from grades seven to eight, but Ley, Schaer, and Dismukes' (1994) study of students 152 from a broader range of abilities did report a decline in positive attitudes between grades six and eight, consistent 153 with McKenna's model. Mitchell and Ley (1996) found a small but steady increase in positive attitudes toward 154 reading for students in grades nine through twelve, with grade 12 students having significantly higher scores than 155 their peers in grade 9. It is not known, however, whether this is due to less-motivated students dropping out in 156 the upper grades, leaving a more select sample by grade twelve. 157

As in the lower grades, girls in secondary schools have been found to have more positive attitudes toward 158 reading than boys did. Longitudinal surveys such as Stevenson and Newman (1986) found that girls continue 159 to express greater enjoyment of reading through high school, a finding replicated in other studies (Anderson, 160 161 Tollefson, & Gilbert, 1985; Mitchell & Ley, 1996; Ley & Trentham, 1987; Kennedy & Halinski, 1975). Smith (1990) 162 found that this gender difference appears to continue through adulthood. Among his sample of 84 adults, women had more positive attitudes toward reading than men did. Martin (1984) provides confirmatory evidence of 163 McKenna's model for junior high students when it comes to attitude and achievement interactions. His study of 164 124 sixth, seventh, and eighth grade students found that attitude was strongly related to achievement: g high-165

achieving students were more likely to have positive attitudes toward reading than their lowachieving peers. No data were reported on changes across grade levels, however. Mitchell and Ley (1996) found that higher achieving students had more positive attitudes, again consistent with other research, although the possible interaction between achievement and grade level was not analyzed. Similar results on the link between achievement and attitudes are reported in studies of high school students by ??ennedy and Halinsky (1975) and Shannon (1980).

¹⁷¹ 5 d) Previous Studies on Reading Self-Efficacy and Behavior

Many similarities with the findings on reading attitudes can be found in the research on self-efficacy and reading, although there are some important differences as well.

Wigfield and Guthrie (1997) surveyed 105 fourth-and fifth-grade children and found that self-efficacy declined 174 as children grew older. When self-efficacy was combined with measures of "curiosity" and "involvement" to form 175 a scale for "intrinsic motivation," Wigfield and Guthrie found that those who scored in the upper third on the 176 intrinsic motivation scale read more and read with greater breadth than those in the bottom two-thirds. Indeed, 177 those who scored high in intrinsic motivation read nearly three times as much as those who scored in the lowest 178 179 third. These results can be seen as complementary to the findings on reading behavior for those with more positive attitudes toward reading-more self-efficacy is related to greater amounts of reading. No measures of 180 reading achievement or self-reported achievement were administered in the Wigfield and Guthrie's study, so we 181 cannot say whether higher achievement levels were correlated with higher levels of self-efficacy. Other studies 182 183 have made such a link, however (see Schunk & Zimmerman, 1997, for a review), including Pintrich and De Groot's (1990) examination of seventh graders' self-efficacy in English class and academic performance, where 184 positive correlations were noted between the two variables. In addition, there is considerable research to suggest 185 that avid readers have higher levels of reading proficiency (Author, 1998;Krashen, 1993), so it appears likely that 186 high-achieving students also have higher levels of selfefficacy than low-achieving students, as has been found in 187 other academic areas and with a broader construct sometimes thought to encompass self-efficacy, "selfconcept" 188 (Bandura, 1977; Wigfield & Karpathian, 1991; Schunk, 1991). Also consistent with previous findings on reading 189 attitude and beliefs, Wigfield and Guthrie found that girls had a higher sense of self-efficacy than did boys. 190 Wentzel (1996) examined the link between selfefficacy and reading, this time in a longitudinal design which 191 followed over 200 middle school children from grade six through grade eight. Wentzel surveyed students at the 192 end of their sixth and eighth grade years, and had available language arts/English class grades for each student. 193 Self-efficacy was significantly correlated with English grades in grades six and eight, confirming that reading 194 achievement is linked to beliefs about reading competence. Gender differences were also noted; girls reported 195 higher levels of self-efficacy than boys, as in Wigfield and Guthrie (1997). Unfortunately, Wentzel does not 196 report longitudinal comparisons of self-efficacy scores between grades six and eight, but such evidence is provided 197 by a largesample study by Marsh, Craven, and Debus (1999), who found that children's assessment of their 198 competency in reading declined steadily from elementary grades to junior high school, as well as by , who noted 199 declines in students' self-concept regarding English from the fall of grade six to the spring of grade seven. 200 Despite some similarities between the findings on reading attitudes and reading self-efficacy, largescale, cross-201 sectional studies of adolescents on the more multi-dimensional construct of self-concept have produced results 202

not entirely consistent with those that might be predicted by models of reading attitude formation. In terms of 203 developmental trends, academic self-concept beliefs have been found to decline in the elementary years, but not 204 necessarily continue to decline as children grow older (Eccles, Midgley, & Adler, 1984; Eccles et al., 1989; Stipek 205 & MacIver, 1989). Some have posited that self-concept takes on a "U" shape in the adolescent years: Student 206 beliefs about their competence in academic subjects may drop in the elementary and junior high grades, only 207 to rebound in the upper grades of high school or in early adulthood (Marsh, 1989). Wigfield and Karpathian 208 (1991) review several studies showing that middle school-age adolescents, for perhaps a variety of reasons related 209 to their physical and emotional transition to adulthood, have lower self-concepts than those students who are 210 older and younger. Other researchers have found that these declines tend to be subject specific. Eccles, Midgley, 211 and Adler (1984), for example, found that while perceived competence in math class decline from grades five 212 through twelve, no such decline was noted for English class. Wigfield and Karpathian also note that there are few 213 documented interactions between grade level and gender in the literature on self-concept, again unlike some of 214 the findings on reading attitudes or what might be predicted by reading attitude formation models (Mc Kenna, 215 Kear, & Ellsworth, 1995). The reversal or stemming of the decline in self-concept among older children and 216 adolescents leads to the speculation that, to the extent that self-efficacy and self-concept beliefs have an influence 217 on attitude formation, reading attitudes may not continue to decline through the high school years, and may 218 even become more positive in the upper grades. Thus, while McKenna's model of attitude formation for reading 219 220 receives some support from previous small-scale studies in terms of gender and achievement at the middle and 221 high school level, there is no large-scale study showing that attitudes toward reading become more negative over 222 time, and little data on the interactions among attitude, time, and achievement in the upper grades. Similarly, 223 more evidence on the role of self-efficacy in reading motivation, how it changes over time, and how it is influenced 224 by achievement and gender differences is needed to confirm previous studies on the nature of selfconcept among adolescent readers. The current study seeks to address these gaps in the literature through the use of a large-scale 225 226 survey among junior and senior high school students in a diverse, urban school district.

²²⁷ 6 III.

²²⁸ 7 Purpose of the Study

The current study seeks to examine how reading attitudes and beliefs change among a large sample of urban middle and high school students. Changes across grade levels, gender, and self-reported English and reading academic performance are analyzed for attitudes toward academic and recreational reading, as well as for beliefs about one's competency as a reader. The specific research questions addressed are: 1. How do attitudes toward and self-efficacy beliefs about reading change over time among junior and senior high school students?

234 2. How does the development of attitudes toward and self-efficacy beliefs about reading interact with gender 235 and self-reported reading achievement among junior and senior high school students?

236

IV.

²³⁷ 8 Method a) Sample

Students for the study were drawn from a large, urban school district located in southern California, grades 238 The cross-sectional data were collected by the district as part of a larger examination of 7 through 12. 239 reading curriculum and achievement, and were provided to the researcher post-hoc for additional analysis. The 240 demographics of the district closely matched those of other major urban centers in the Southwest United States in 241 terms of ethnicity and first language background. The ethnic composition of the district is heavily Latino/Hispanic 242 (over 70%), with large proportion of students coming from families where a language other than English is spoken. 243 This may, of course, influence the results of the study and limit its generalizability to other populations. Of the 244 more than 17,000 students who were administered the questionnaire, 14,315 provided surveys that contained 245 complete data on gender, grade, and all 20 items of the instrument. Table ?? shows the breakdown by gender 246 and grade level for the final sample. There were slightly more girls than boys in the sample, with fewer students 247 at grades 11 and 12 than in the lower grades. The BJP Middle/Secondary Reading Attitude Survey (Baldwin, 248 Johnson, & Peer, 1980) used in this study is a 20 item, 4-node instrument intended for junior and senior high 249 school students. While the instrument is intended to measure reading attitude, current theories on reading 250 attitude formation as well as previous research (McKenna, Kear, & Ellsworth, 1995) suggest that attitudes are 251 multi-dimensional and distinct from beliefs about reading. On the BJP Survey, some items appear to measure 252 some beliefs or self-efficacy, some general attitudes toward reading, and some selfreported grades. No previous 253 research was found on the instrument with a large sample of students (Scott Baldwin, personal communication, 254 ??ecember 15, 1999) to test hypotheses about appropriate scale construction as recommended by Gorsuch (1983). 255 For this reason, an exploratory rather than a confirmatory factor analysis was used to identify possible latent 256 constructs measured by the survey (see Gorsuch, 1983;McDonald, 1985; ??edhazer & Schmelkin, 1991; also, Gene 257 Glass, personal communication, ??anuary 25, 2000). 1 Negatively worded items (Items 1, 2, 5, 6, 9, 10, 13, 14, 258 18, and 19, see Table 2) were recoded to reflect a total score which indicated a positive attitude toward reading 259 and favorable beliefs about reading achievement. 260

²⁶¹ 9 c) Procedure

The BJP Survey was administered to students at all 17 schools in the junior (grades seven and eight) and senior (grades nine through twelve) high school

²⁶⁴ 10 Analysis and Results

²⁶⁵ 11 a) Factor Analysis

The items on the survey were tested to see if any were badly skewed in their distribution; no significant problems 266 were found. Since it was unlikely that the variables were error-free or the variance of all variables could be 267 predicted from the factors, a type of common factor analysis (image analysis) was used for extracting the factors 268 rather than a component method (Gorsuch, 1983). Common factor methods such as image extraction also have 269 the advantage of producing more conservative loadings on the resulting factors than does component analysis. 270 Since it also appeared likely from previous research that factors related to attitudes and beliefs would be correlated 271 with each other, oblique (direct oblimin) transformation with Kaiser Normalization was chosen over an orthogonal 272 rotation (SPSS, 1997). Alternative common factor extractions and oblique transformations were also performed, 273 producing results consistent with those shown here. Results of the factor analysis are shown in Table 2. 274

275 **12** Note

The four factor solution that resulted (using an Eigen value cut-off of 1) produced three factors with loadings above .40 on most items. The items for Factor 1 appear to reflect wide range of general reading attitudes or behaviors indicative of attitude, including both school and recreational aspects.

Items loading on Factor 2 are belief statements that reflect reading self-efficacy (e.g. "I believe I am a poor reader"). Factor 4 had only two items with high loadings, both relating to self-reports of reading achievement in school ("Sometimes I get bad grades in reading and English" and "I almost always get A's. Boldface indicates highest factor loadings (greater than .40). * = Items which were re-coded to reflect affirmative/positive response.

Factor 1 = General Reading Attitude; Factor 2 = Reading Self-Efficacy; Factor 4 = Self-Reported Language 283 Arts Grades. teacher information was collected, although the surveys were coded by school site. This anonymity 284 was thought to increase teacher participation in the project, which was nearly unanimous, as well as decrease 285 the likelihood of socially desirable responses by the students. and B's in reading and English"). No items had 286 a high loading for Factor 3, which, following Gorsuch's (1983) recommendations, was not used in subsequent 287 analysis. Factor scores for the three factors with loadings above .40 (Factors 1, 2, and 4) were computed and 288 used in all further analysis. The three factors were labeled according to the items contained in them that 289 had salient loadings-"General Reading Attitude," "Reading Self-Efficacy," and "Self-Reported English Grades." 290 Correlational analysis (Table 2) found that General Reading Attitudes correlated positively and moderately with 291 Reading Self-Efficacy and with Self-Reported English Grades, as might be expected. Reading Self-Efficacy was 292 strongly correlated to Self-Reported English Grades, which is again an expected finding. In order to determine 293 how reading attitudes and reading self-efficacy differed among self-reported achievement levels, a median split 294 was performed on the Self-Reported English Grades factor, producing two equal groups, "high achievers" and 295 "low achievers." These groups were used in subsequent ANOVA analysis. 296

²⁹⁷ 13 b) General Developmental Trends

Overall developmental trends (by grade) were tested with two separate one-way ANOVAs on the factors scores of General Reading Attitudes and Reading Self-Efficacy by grade. Means for these scores appear in Tables 3 and 4, and are displayed in Figures 1 and 2. The F-tests for both scales were significant (General Reading Attitudes: F(5, 14,315) = 62.73, p <. 001; Reading Self-Efficacy: F(5, 14,315) = 6.73, p <.001).

Post-hoc Scheffe tests were computed to determine if changes across grade levels were statistically significant. 302 General Reading Attitude dropped significantly from grade 7 to 8 (p < .05), but experienced no other significant 303 successive drops across the other four grade levels. Scores for the Reading Self-Efficacy factor were stable from 304 305 grades 7 to 10, then rose significantly in grade 11 (p < .05). No other significant changes were noted. The 306 magnitude of the drop in General Reading Attitudes between grade seven and eight can be expressed in terms of the percentile ranking of eighth grade students on the distribution of seventh grade scores. The average eighth 307 grade student would rank at the 34 th percentile of the seventh grade distribution, indicating a considerable 308 decline. The rise in Reading Self-Efficacy scores between grades ten and eleven was much smaller. Eleventh 309 graders g would rank at the 54 th percentile on the tenth grade distribution of self-efficacy scores. 310

The results in the overall developmental trends indicate some divergence: reading attitude scores declined early but then stabilized, while reading self-efficacy scores were stable and then increased in the upper grades. Trend analysis indicated significant linear components for both General Reading Attitude, F (1, 14,315) = 33.87, and Reading Self-Efficacy, F (1, 14,315) = 20.75. Significant quadratic components were also found for General Reading Attitude, F (1, 14,315) = 213.82, and for Reading Self-Efficacy, F (1, 14,315) = 6.05. These trends are confirmed by the post-hoc Scheffe tests, which, as noted above, found that there were no declines or increases in factor scores after a significant drop from grades 7 to 8.

Similarly, Reading Self-Efficacy experienced only 1 significant increase, as noted above, from grades 10 to 11, but was otherwise stable.

320 **14** VI.

³²¹ 15 Gender a) General Reading Attitude

Significant main effects for General Reading Attitude were noted for both gender, F (1, 14.315) = 812.39, p <.001 322 and grade level, F (5, 14, 315) = 68.42, p < .001. Interaction terms of grade level and gender were not significant, 323 however (F (5, 14, 315) = 1.42, n.s.). Girls' scores on the General Reading Attitude factor were significantly 324 higher than boys' scores at all grade levels, but, unlike previous studies, the gap did not widen with age (see 325 Figure 3). For girls, both the linear (F (1, 7, 440) = 8.36, p < .01) and quadratic (F (1, 7, 440) = 120.91, p < .001) 326 components were statistically significant. The drop in scores from grade seven to grade eight was statistically 327 significant, followed by no statistically significant changes through grade twelve. Similarly, trend analysis for the 328 boys' scores indicated that both linear (F (1, 6.875) = 47.06, p < .001) and quadratic (F (1, 6.875) = 100.23, 329 p < .001) components were statistically significant. Identical to the pattern found among girls, only the decline 330 from grade seven to eight was statistically significant, with no other significant changes through grade twelve. For 331 both boys and girls, General Reading Attitude scores at grade seven were higher than all other grades. Taking 332 the mean scores across grade levels, the average boy would rank at the 33 rd percentile of the girls' distribution 333 of scores on the General Reading Attitude measure. 334

335 16 G

The established relationship in the research literature between gender and reading achievement favoring girls suggests that girls' more positive attitudes toward reading may be an artifact of their superior reading proficiency. To test this hypothesis, the interaction between gender and Self-Reported English Grades was tested by means of a one-way ANOVA. Unlike the case of previous research on elementary school-age students (McKenna, Kear,

Ellsworth, 1995), the interaction was significant for General Reading Attitude, F (1, 14,315) = 10.01, p < .001,

indicating that the more favorable attitudes held by girls toward reading in this sample were due to in part to their higher self-reported English grades.

A regression analysis of both gender and Self-Reported English Grades on General Reading Attitude factor scores indicated that indeed gender accounted for a significant but relatively small amount of the variance (F Change = 463.24, ? R 2 = .02) in attitude scores after controlling for Self-Reported English Grades (F Change = 5242.90, ? R 2 = .27).

³⁴⁷ 17 b) Reading Self-Efficacy

Significant main effects for both gender, F (1, 14, 315) = 155.06, p <.001, and grade level, F (5, 14, 315) = 5.79, 348 p <.001, were also found for Reading Self-Efficacy. The interaction term of grade level and gender was not 349 significant, F (5, 14,315) = 1.02, n.s. Girls had significantly higher levels of reading self-efficacy overall, and at 350 351 all grade levels, but the gap did not widen over time (see Figure 4). Both the linear (F (1, 7, 440) = 19.18, p < .001) and quadratic (F (1, 7, 440) = 5.02, p < .05) components were statistically significant for girls. Post-hoc 352 353 Scheffe tests indicated that self-efficacy scores among girls increased significantly between grade ten and eleven, and were stable before and after that point. For boys, however, neither the linear nor the quadratic trend analysis 354 indicated any significant changes. There were no successive changes between grade levels at any point. In terms 355 of percentile ranks, the differences between boys and girls, while statistically significant, was small: The average 356 boy would rank at the 51 st percentile of the girls' distribution. The rise in girls' scores from grade ten to eleven 357 was similarly slight. Girls in grade eleven would rank at the 54 th percentile of the girls' tenth grade distribution. 358 As in the case of reading attitudes, the interaction between gender and self-reported grades on self-efficacy was 359 tested to see whether girls' more positive beliefs about their reading competence were due to superior academic 360 performance in reading. 361

The results of a one-way ANOVA indicated that there was no significant interaction, F(1, 14, 315) = .64, n.s.

Unlike the case of reading attitudes, then, the higher levels of reading self-efficacy demonstrated by girls was not an artifact of their self-reported academic performance.

³⁶⁵ 18 Self-Reported Achievement a) General Reading Attitude

The effect of self-reported reading achievement as measured by English grades on general reading attitude was 366 analyzed for both grade level and gender. Descriptive results are reported in Table 3. A significant main effect 367 was found for Self-Reported English Grades (F (1, 14,315) = 2244.63, p < .001), but not for the interaction of 368 English grades with grade level (F (5, 14, 315) = .84, n.s.). While students who reported higher grades in English 369 had more favorable attitudes toward reading than students of lower English grades, this difference did not change 370 across grade levels, as is indicated in Figure ??. Self-reported high performing students had significantly higher 371 scores on the General Reading Attitude scale at all grade levels than students with low Self-Reported English 372 Grades. The size of this difference, as expressed in percentile ranks, was substantial, especially compared to that 373 of gender noted above. Those with high self-reported English grades would rank at the 81 st percentile on the 374 distribution of students with low self-reported grades. As noted above, there was also a significant interaction 375 between achievement and gender, indicating that the advantage girls have over boys in General Reading Attitude 376 is due in part to their higher self-reported academic performance in English class. Figure ?? shows the trends 377 for girls and boys for both high and low self-reported grades in English and reading. The g three-way interaction 378 of achievement, gender, and grade level was not significant (F (5 14,315) = .758, n.s.). Trend analysis on high 379 self-reported achievement scores by grade level indicated significant linear (F (1, 7, 157) = 32.49, p <.001) and 380 quadratic (F (1, 7,157) = 101.07, p <.001) components. Post-hoc Scheffe tests confirmed that there was a 381 significant drop from grade seven to eight, followed by no changes between successive grade levels. Trend analysis 382 for low self-reported reading grades by grade level found, as in the case of high achieving readers, significant linear 383 (F (1, 7, 158) = 32.67, p < .001) and quadratic (F (1, 7, 158) = 97.14, p < .001) components, with a significant 384 drop in scores between the seventh and eighth grade, followed by no other changes across grades nine through 385 twelve. 386

Four separate one-way ANOVAs were run for high-and low-performing students' attitude scores by gender.

All results were consistent with those reported on achievement by grade level. Only the drop between grades 388 seven and eight was significant, with significant linear and quadratic components in all four trend analyses. 389 Boys with high self-reported English grades had significantly higher attitude scores at all grade levels than boys 390 with low self-reported achievement. The same was true of the differences between high and low self-reported 391 achievement for girls at all grade levels. Girls of both high and low self-reported achievement had more positive 392 attitudes toward reading than boys of similar achievement levels at all grade levels, reflecting the overall gender 393 394 differences reported above (see Figure ??). Significant main effects on Reading Self-Efficacy scores were found 395 for Self-Reported English grades ((F (1, 14, 315) = 15, 510.011, p < .001), and for the interaction of grade level 396 and achievement (F (5, 14,315) = 4.662, p <.001). Students who reported higher English grades had higher 397 Reading Self-Efficacy scores than students of lower English grades at all Figure ?? : Reading Self-Efficacy by Grade Level and Self-Reported English Grades Trend analysis for self-reported highachieving students indicated 398 a significant linear (F (1, 7,157) = 4.416, p < .05) component, but not a quadratic one (F (1, 7,157) = 1.863, 399 n.s.). Post-hoc Scheffe tests found no successive grade level changes for highachieving readers. Results were just 400

the opposite for low-achieving readers: the linear component was not significant (F (1, 7, 158) = 1.416, n.s.), but the quadratic component was (F (1, 7, 158) = 5.643, p < .05). Post-hoc Scheffe tests found that self-efficacy scores among low-achieving readers in grade nine were significantly higher than those in grade seven; no other significant differences were observed.

Separate one-way ANOVAs for high-and lowproficiency readers for both boys and girls were high-proficiency 405 girls, only the quadratic component was significant. Post-hoc Scheffe test found none of the successive changes 406 in grade level significant for either boys or girls at either high or low levels of high achievement level at any grade 407 level. For lowproficiency students, only the difference in grade eleven was significant, with girls having higher 408 scores than boys. g conducted (see Figure 8). For low-achieving boys, there were no significant components in the 409 trend analyses; for low-proficiency girls, the quadratic component only was significant. For high-proficiency boys, 410 there were again no significant components; for proficiency. No differences were found in Reading Self-Efficacy 411 scores between boys and girls at the grade levels, as seen in Figure ??. These differences were dramatic: the 412 average high-achieving student would rank at the 97 th percentile of the low-achieving students' distribution. 413

There was no significant interaction between grade level and gender for Reading Self-Efficacy, as noted previously. The threeway interaction of achievement, gender, and grade level was not significant (F (5, 14,315)= .758, n.s.).

⁴¹⁷ 19 Summary and Discussion

418 Contrary to the results reported in national and local sample surveys of elementary school students, reading attitudes do not get progressively worse or become more negative in middle and high school, at least among the 419 large sample of urban students surveyed here. The downward trend in reading attitudes documented in previous 420 studies of elementary school students does continues through grade eight, but then a plateau is reached, marking 421 an essentially stable level of attitudes throughout the rest of the secondary school years. These results appear 422 to run counter to McKenna's predication regarding age and attitude formation. Results on the development of 423 self-efficacy over time are roughly the same as those conducted previously on self-concept, with stability across 424 grade levels and a slight increase in the upper grades, particularly among girls, as they move from adolescence 425 to the transition to adulthood. 426

In McKenna's view, children become more negative in their views of both recreational and academic reading as they grow older in part because their beliefs about the outcomes of reading change over time. Greater opportunities in leisure options may lead to a relative devaluing of reading as children progress through school, even among good readers. In addition, the normative beliefs about reading may also change as children move through school. The social context of schooling may promote a more negative view of reading from which students make certain judgments about the value of literacy in general.

Despite the presumably increasing opportunities for students to engage in other leisure pastimes during adolescence and the potentially negative social context surrounding reading, however, students in the current study did not indicate a continued drop over time in reading attitudes after grade eight.

What explains these differing developmental trends among secondary students? Several plausible explanations exist. First, it may be that the particular sample used in the current study, students from a relatively lowachieving, largely Latino/Hispanic urban district, may exhibit patterns of reading attitude and self-efficacy that differ significantly from the population at large.

In McKenna, Kear, and Ellsworth's (1995) national sample of elementary school children, however, differences across ethnic groups were slight (differences in socio-economic status and urban vs. suburban/rural location were not measured), so it is not easy to predict how the current sample would differ from a more representative one. Students in the current sample had markedly lower standardized reading test scores than the average U.S. student, so it may be that this factor alone skewed the results. Yet low performing students in McKenna's studies tended to decline in reading attitude more precipitously than high achieving students, so if this pattern held true for older students, we may expect to see more decline over time, not less.

Second, the difference in instruments used across studies to measure reading attitudes may explain the divergent findings. McKenna's research relies on the Elementary Reading Attitude Survey (ERAS) (McKenna & Kear, 1990), while the current study used the more age-appropriate but not necessarily comparable BJP Survey. Further, the ERAS has two clear sub-scales, one each for recreational and academic reading, while a factor analysis of the BJP Survey produced only one general Disaggregating these dimensions may produce different results from those presented here.

A third possible reason for the rise of scores in the later grades in Reading Self-Efficacy, as well as the small but 453 not significant increase for General Reading Attitudes in grade ten, may have a more straightforward explanation: 454 455 Students with more negative attitudes and a lower sense of self-efficacy may be dropping out altogether after 456 grade ten, thus biasing scores upward in grades eleven and twelve. A closer inspection of Table ?? shows that the 457 number of total students at each grade level does drop dramatically after grade ten. But this explanation falls 458 short when gender differences in drop-outs are accounted for. It appears that boys dropped out in disproportionate numbers to girls in the current sample, and it would be expected that low-achieving boys would be more likely 459 to drop out than highachieving ones. This should raise the scores of the remaining (more highly-achieving) boys. 460

461 Yet this does not take place. It is girls' scores on the selfefficacy measure that increase in grade eleven, not the

462 boys' scores. As such, drop-outs cannot be a major reason for increases in self-efficacy scores and the failure of 463 reading attitudes to continue their decline.

Finally, it may be that students have, in effect, "bottomed out" in terms of their reading attitudes by eighth grade, with no further decline likely or possible. McKenna's model could be developmentally correct up through middle school, after which there is no further room for students to decline, despite increased opportunities and changes in their social milieu. It should be noted that the failure of scores to decline was not due to any obvious floor effects on the attitude measure itself with the current sample, however. The means raw score for the twelve items that loaded most heavily on the General Reading Attitudes factors was 30.5 (SD = 7.2) out of a possible 48 (range: 12-48), with no pronounced skew in the distribution.

With the exception of the drop in reading attitudes between grades seven and eight, then, the current study found similar trends for both attitudes and self-efficacy.

The stabilization of reading attitudes scores in the upper grades is consistent with what has been found previously in research on academic self-concept among adolescents. Indeed, the developmental pattern for both self-efficacy and reading attitudes is nearly identical for both younger and older students: declines in elementary and middle school, followed by stable or rising scores in high school. This suggests that the two constructs may be linked.

Researchers of self-concept have attempted to explain these patterns by examining how students define the 478 domains of their ability and the criteria they use to judge competence. Studies of young children has found, 479 480 for example, that they tend to see academic ability as undifferentiated and related strongly to social behavior, 481 work habits, and conduct rather than any external or comparative measures of academic performance (Stipek & Tannatt, 1984; Stipek & MacIver, 1989). Young children believe that effort and practice alone are sufficient to 482 increase ability. This often results in what we may term a "Lake Wobegon Effect," where, as in the humorist 483 Garrison Keillor's fictional small town, "all the children are above average." Stipek (1981) and Stipek and Tannatt 484 (1984) noted, for example, that that nearly all of the kindergarten and first grade children they interviewed 485 thought that they were "smart." 486

As children move through school, however, they begin to differentiate aspects of academic ability, and assess 487 those abilities based upon external information, such as their own and their peers' academic performance as 488 measured by grades, tests, and the like (Marsh, 1989;Stipek & MacIver, 1989). As such, originally high, perhaps 489 inflated, self-concepts decline, accelerated by the social and maturational changes that are part of adolescence, 490 where perceptions of ability reach a low point. Another possible source for this decline in self-concept and beliefs 491 about competency relates to the classroom environment students experience as they move through school. As 492 children grow older, teachers tend to place greater emphasis on competitions and comparisons among students. 493 As Wigfield (2000) notes, this pressure "may lead children to focus too much on how their skills compare to those 494 of others," which in turn can "deflate many children's competence beliefs" (p. 144). 495

As students then make the transition from adolescence to adulthood in the upper grades of high school, the potentially negative social influences felt in the junior high years appear to lessen, resulting in a more positive (and perhaps realistic) view of ability in reading, math, and other areas. Studies measuring the development of general self-esteem have found steady, significant increases from high school through early adulthood (O' ??alley & Bachman, 1983).

If this general account of how self-concept develops among children and adolescents is correct, and, as 501 hypothesized above, attitudes toward reading are linked to one's perceived reading ability, then the results 502 of the current study complement previous results on reading attitude among elementary age students, providing 503 a more nuanced portrayal of attitude development. This would also call for a modification of McKenna's model 504 for attitude formation, such that, along with beliefs about the outcomes of reading and the expectations of 505 others, beliefs about self-efficacy also influence reading attitudes. McKenna's model already incorporates a g 506 "feedback" loop, with prior reading successes or failures having a direct influence on reading attitude. In light 507 of current evidence, this loop may need to be modified such that, rather than exert a direct effect on attitude, 508 prior experiences affect beliefs about competence, which in turn influence reading attitude. Consistent with the 509 broader theory of self-concept formation, children's actual reading experiences increasingly become the basis for 510 judgment of reading competence as they grows older, and that this (increasingly negative) belief about efficacy 511 in turn influences attitude through middle school and early adolescence. These perceptions of ability become 512 more realistic as students move through high school, resulting in a stabilization of attitudes. In this modified 513 McKenna model, the role of increased opportunities to participate in activities other than reading is less influential 514 on reading attitudes than self-efficacy beliefs. 515

Unlike in previous studies among elementary students, there was a significant interaction between gender and achievement for the reading attitudes measure. The superiority of girls over boys in reading attitude was in part due to their higher self-reported reading grades. A regression analysis confirmed that achievement appears to be a much more powerful predictor of reading attitudes than gender for secondary students. This interaction was not found for the self-efficacy measure, however, indicating that the higher sense of self-efficacy for girls in reading was not merely due to higher levels of achievement. It is not clear why this interaction, found among younger students on reading attitude measures, should not be present here.

Another difference between the current findings and previous work was in the interaction between grade level and achievement for reading attitudes. In McKenna, Kear, and Ellsworth's national survey, the gap in reading

attitudes between high and low proficiency readers grew wider as students got older, a gap thought to constitute 525 another form of the "Matthew's effect" (Stanovich, 1986) for reading ("the rich getting richer"). Low-achieving 526 students in the elementary grades become progressively worse than their high achieving counterparts. The current 527 study failed to replicate this finding for either reading attitudes or self-efficacy. The gap between high and low 528 achieving students on these variables did not increase during the six years of secondary school. Again, this may 529 be due to one of the reasons proposed above for the differences in overall developmental trends (i.e. sample, 530 instrumentation, floor/ceiling effects), or due to differences in how adolescents progress in reading attitudes and 531 beliefs over time versus younger children. Similar to the current study, did not find a significant interaction 532 among sixth-and seventh-grader students for ability, time, and English academic self-concept. 533

Some findings of the current study do confirm previous research on reading attitudes and selfefficacy. Gender 534 differences found in McKenna's surveys and others were also noted among the current sample of secondary 535 students, with girls demonstrating more positive attitudes toward reading and a greater sense of reading self-536 efficacy than boys at all grade levels. The current findings are also consistent with other studies on reading 537 self-efficacy and self-concept and gender (Marsh, 1989;. In addition, students who reported a high level of 538 reading achievement had significantly more positive attitudes and greater sense of selfefficacy in reading than 539 those with lower levels of selfreported proficiency, consistent with McKenna's findings and studies of self-concept 540 of ability in English class. These differences between high-and low-achievement levels were large for both General 541 Reading Attitudes and Reading Self-Efficacy. 542

543 There are a variety of approaches to studying reading attitudes and self-efficacy.

544 20 G

If the results of the present study hold true across a more representative sample of secondary students, then the 545 stabilization of reading attitudes and beliefs about reading competence among adolescents may be considered 546 good news, if these variables are indeed strong influences on reading motivation and behavior. Given that many 547 readers fail to develop their reading proficiency beyond that obtained by the end of elementary school (Francis et 548 al., 1994), however, there is still a need for encouraging changes in the positive direction, and not be content with 549 mere stability. Guthrie and his colleagues (Guthrie et al., 1996;Guthrie & Anderson, 1999) have proposed that 550 "concept-oriented" reading instruction holds the promise of deepening students' engagement with reading and 551 reversing the decline of reading motivation as students move through school. Other intervention programs that 552 stress pleasure reading also appear to be effective in promoting more positive attitudes toward reading, especially 553 among students in urban schools like those surveyed in this study (Author, 1998; ??uthor et al., in press;Pilgreen, 554 2000). Reading motivation among adolescents may also be a function of access to appropriate reading resources 555 ??Worthy, Morman, & Turner, 1999). This problem is particularly acute for students in lowincome school 556 districts such as the one surveyed here, where the type and variety of reading materials are indeed extremely 557 limited (Allington et al., 1995; Author, 1998; ?? uthor et al., in press). 558

well. Several variables not included in the current study, including ethnicity, socio-economic status, and
instructional approach, may have important influences in how reading attitudes and beliefs develop over time.
Future study of these issues should attempt to take these factors into account in coming to a more complete
picture of how attitudes and self-efficacy change over time among secondary school readers.



Figure 1: Year 2013 Urban

562

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district by their individual classroom teachers in October of 1998. English language learners received additional assistance and clarification from their teachers for items on the survey that presented difficulty. Students filled out the surveys anonymously, and indicated only their grade level and gender. No individual classroom or V.

Grade 7 8 9 10 11 12 Total

						g
						(
n	Bo∲∕s	Girls	%	Total	% 17.4	Journal
$1,\!255$	50.4	$1,\!237$	49.6	$2,\!492$	18.4	of Human
$1,\!284$	48.7	n	51.3	n	18.2	Social
$1,\!273$	48.9	$1,\!353$	51.1	$2,\!637$	17.7	Science
$1,\!205$	47.5	1,328	52.5	$2,\!601$	14.9	
991	46.5	$1,\!331$	53.5	2,536	13.4	
867	45.2	$1,\!128$	54.8	$2,\!129$	100	
$6,\!875$	48.0	$1,\!053$	52.0	$1,\!920$		
		$7,\!440$		$14,\!315$		
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Year 2013 2 20 2 35 Volume XIII Issue VII Version I D D D D)

Figure 2:

$\mathbf{2}$

Survey

			Facto	or loadi	ng
Item		1	2	3	4
12. I like to take library books how	me.		02	21	01
7. I enjoy going to the library for	books.		01	22	02
3. Reading is one of my hobbies.			.08	08	.01
5. Reading is almost always boring	g.*		.34	.13	.04
2. Reading is a waste of time. ^{$*$}			01	.15	04
11. I would like to belong to a boo	ok club.		06	20	01
20. I like to read before I go to be	d.		.05	08	.03
18. Reading gets boring after above	it ten minutes.*		.39	.13	.05
17. I like to have time to read in a	elass.		.01	02	.07
1. Library books are dull.*			02	.03	.01
13. Teachers want me to read too	much.*		.01	.14	.04
9. I don't have enough time to rea	d books.*		.01	.06	08
15. Books can help us to understa	nd other people.		01	.03	.05
14. You can't learn much from rea	ding.*		.14	.17	.04
10. I believe that I am a poor read	der.*			.05	.02
4. I believe that I am a better rea	der than most other students				
in my grade.					
6. Sometimes I think kids younger	than I am read better than				
I do.*					
19. Sometimes I get bad grades in	reading and English. [*]				
16. I almost always get A's and B	's in reading and English.				
Factor Correlations					
Factor 1					
Factor 2		.35) —		
Factor 3		.01	.17		
Factor4		.37	'.73	.09	
	Figure 3: Table 2 :				
X7 1 X711 1 X711 X7 · ·					
volume AIII Issue VII Version I	.00 .70 .70 .67 .62 .61 .60	F 1	10	00	00
DDDD)G(Global Journal	.58.57.37.22.020701.05	.51 .	49!	08	.08
of Human Social Science	.53 .43 .42 .02	.01 .0	04 .0	17.02	.02
		.56		06	.58

.57

Figure 4:

3

Urban Middle and High School Students' Reading Attitudes and Beliefs: A Large-Sample Survey

Grade 7 Gender Level and Gender Self-Reported English Grades High Low .471 (.90) -.227 (.84) .758 (Boy Girl

	Total	.629	096
8 9 10	Boy	(.85) $.057$ $(.91)$ $.39$	(.83)548
	Girl	(.82) .248 (.87) .04	7 (.81)277
	Total	(.86) .435 $(.81)$.27	4 (.77)424
	Boy	(.85) .072	(.80)519
	Girl		(.77)252
	Total		(.75)399
	Boy		(.77)582
	Girl	(.86) .441 $(.82)$	(.80)259
			(.78)
	Total	.288	431
		(.85)	(.81)
11	Boy	.029	494
		(.82)	(.79)
	Girl	.473	242
		(.77)	(.71)
	Total	.294	377
		(.82)	(.76)

Figure 5: Table 3 :

 $\mathbf{4}$

Year 2013					
Volume	Grade 7 8	Gender	High $.552$ $(.47)$	Self-Reported	All Achievement
XIII		Boy	.599 $(.49)$ $.578$	English Grades Low	Groups 085 (.79)
Issue		Girl	(.48) $.536$ $(.47)$	604 (.60)603	.064 $(.79)$ 011
VII		Total	.529	(.55)604 $(.58)$	(.79)090 $(.78)$
Version		Boy		547 (.62) 553	.027
IDDD		Girl			
D) G					
((.47)	(.54)	(.74)
Global	9 10 11	Boy	.553 $(.48)$ $.548$	524 (.55) 492	094 (.75) .066
Journal		Girl	(.48) $.551$ $(.48)$	(.54)510 $(.55)$	(.73)013 $(.74)$
of		Total	.584 (.49) .563	598 (.63)563	094 (.82) .051
Human		Boy	(.48) $.572$ $(.49)$	(.56)582 $(.60)$	(.77)018 $(.79)$
Social		Girl	.589(.49).618	583 (.61)508	042 (.81) .161
Science		Total			
		Boy			
		Girl		(
			(.48)	(.52)	(.75)
		Total	.606	548	.067
		-	(.48)	(.57)	(.78)
	12	Boy	.567	570	047
		~	(.51)	(.59)	(.79)
		Girl	.587	542	.150
			(.50)	(.49)	(.74)
		Total	.579	558	.061
			(.50)	(.55)	(.77)

Urban Middle and High School Students' Reading Attitudes and Beliefs: A Large-Sample Survey

Figure 6: Table 4 :

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