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Iowa Crop Variety Yield Testing Publications Bibliography

By Lorraine J. Pellack, Iowa State University Library

Scope: This list contains Iowa State University Agricultural Experiment Station crop test reports, unpublished technical reports, theses, dissertations, and manuscripts that are known to have been published, along with a selective number of magazine and journal articles that are not readily found using traditional indexes. Most, but not all, are available online OR within the Iowa State University Library collections in Ames, Iowa. This is not a complete list but it is as exhaustive as possible given available collections.

Direct links to individual sections:

Alfalfa	17	Corn	21	Oat	25	Soybean
Barley	18	Cow peas	22	Orchardgrass	26	Sugar beets
Bromegrass	19	Flax	23	Potatoes	27	Triticale
Clover	20	Forage crops	24	Sorghum	28	Wheat

Multi-Crop Reports

Multi-crop reports are mainly results of early field crop experiments in Iowa that were published annually and the list of included crops changed each year; however, also included are other publications that cover more than two crops.

Anonymous. 1904. Field experiments. Iowa Agriculturist 4(4):158-160.

37 The article describes experiments with corn breeding, reducing oat smut (along with a
38 recommended cure – formalin), a variety test with fall wheat, cow pea varieties, and forage
39 experiments including sorghum (3 varieties), millet (5 standard varieties) and grasses (48
40 varieties of native and foreign). For the most part, the information provided was very general,
41 however, it included more detailed information about the cow peas (and lists 8 varieties) being
42 tested to determine what varieties are best adapted to feed and which are of the greatest value
43 as fertilizing agents.

44

45 Atkinson, J. 1900. Field experiments: with oat, barley, wheat, brome grass, rape, sorghum, soy beans,
46 cow peas, and sugar beets. Bull. Iowa Agric. Exp. Stn. (45):216-229.

47 Discusses varieties planted and growing conditions but notes that, even though they were
48 planted in the spring of 1898, results may not be ready for publication for several years.

49

50 Atkinson, J. 1901. Field experiments: Corn, test of varieties, methods of cultivation, selection,
51 shrinkage; oat, barley, spring wheat, speltz, sorghum, rape, kohl rabi, soy beans and sugar beets.
52 Bull. Iowa Agric. Exp. Stn. (55):362-384.

53 This summarizes experiments from the last 2-3 seasons of Experiment Station crops.

54

55 Burnett, L.C. 1931-1941. Small grains – Information from experiments in progress. Leaflet F.C. Iowa
56 Agric. Exp. Stn., Farm Crops Section (1-2, 4, 6-10, 12, 14).

57 These leaflets summarize Iowa Agricultural Experiment Station experiments for varieties of
58 winter wheat, spring wheat, oat, barley, and flax. Includes yield results – some include 5-year
59 summaries. Crops grown mostly in Ames but a few elsewhere in the state, e.g., barley was
60 grown in Ames and Mason City.

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Burnett, L.C. and H.C. Murphy. 1943-1948. Small grains – Information from experiments in progress.

Leaflet F.C. Iowa Agric. Exp. Stn., Farm Crops Section (17-19).

Burnett, L.C. and E.S. Dyas. 1940-1943. Standard community grain trials. Leaflet F.C. Iowa Agric. Exp.

Stn., Farm Crops Section (11, 13, 15-16).

Leaflet F.C. 11 = *Oats and Wheat Trials, 1938 and 1939.*

Leaflet F.C. 13 = *Oats and Wheat Trials, 1938-1939-1940.*

Leaflet F.C. 15 = *Oats and Wheat Trials, 1939-1940-1941.*

Leaflet F.C. 16 = *Oats and Wheat Trials for 1940-1941-1942.* Jan. 1943.

Curtiss, C.F. 1895. Experimental crop notes, 1894. Bull. Iowa Agric. Exp. Stn. (27):113-119.

Covers winter wheat (press drill vs. common grain drill) and root crops for stock.

Curtiss, C.F. 1896. Experimental crop notes, 1895. Bull. Iowa Agric. Exp. Stn. (32):461-469. [The Bulletin

table of contents lists this as “Crop Notes for 1895.”]

Includes winter wheat, oat, and corn. Information varies for each crop but can include number of acres planted, planting and harvesting dates, yields, and varieties.

Curtiss, C.F. 1897. Crop notes, 1896. Bull. Iowa Agric. Exp. Stn. (34):703-713.

Includes winter wheat, corn, potatoes, alfalfa, and oat. Info varies for each crop but can include number of acres planted, planting and harvesting dates, yields, and varieties.

84 Hitchcock, S. 1921. A review of the methods of conducting field plot investigations at a number of
85 typical American experiment stations. M.S. thesis. Iowa State College.
86 This massive tome is divided into 2 parts – each with different pagination. It has sections on
87 experimental methods used at the Iowa Agricultural Experiment Station (Part I, p. 89-90), for
88 small grain breeding (Part I, p. 89-120), corn tests (Part I, p.120-131, 146-147), corn breeding
89 (Part I, p. 131-144), small grain cultural tests (Part I, p.144-145), soil experiments (Part I, p.147-
90 156), Iowa methods compared to other stations (Part I, p. 156-162); and, a detailed field record
91 of the Farm Crops and Soils tests at the Experiment Station Ames Iowa (Part I, p. 256-312). Part
92 II contains a history of the Agricultural Experiment Association and includes a detailed listing of
93 experiments conducted from 1912-1920. Large sections of Part II are devoted to experiments as
94 follows: oat, Part II, p.22-55; winter wheat, Part II, p.56-62; spring wheat, Part II, p.62-65; barley,
95 Part II, p.65-76; corn, Part II, p.76-116, including information on a series of corn adaptation
96 experiments and Part II, p.176-181 and p.192-197, with soybeans; red and sweet clover, Part II,
97 p.117-127, 137-142; alfalfa, Part II, p.123-145; sudan grass, Part II, p.145-154, 157-160; millet,
98 Part II, p.149-154; sorghum, Part II, p.154-160; soybean, Part II, p.160-197.

99

100 Hughes, H.D. 1930. The coming of the legumes. *The Palimpsest* 11(6):292-302.

101 This does not contain any varietal yield data; however, it provides an excellent summary of
102 varieties of red clover, alfalfa, and sweet clover in Iowa from 1880-1930.

103

104 Iowa Agricultural College. 1884. Report of experiments upon the Iowa Agricultural College farm. *In*

105 *Bulletin of the Iowa Agricultural College Devoted to Industrial Sciences*. Cedar Rapids, IA: Daily
106 Republican Printing and Binding

107 Establishment. <http://catalog.hathitrust.org/api/volumes/oclc/63621840.html>

108 Information is provided on all agricultural experiments at the Iowa Agricultural College farm in
109 1882 and 1883. It includes "Report on Grasses" (p. 5-19), alfalfa (p. 12-13), clover (p. 13-15),
110 forage crop varieties and their nutritive compositions and value (p. 18), ensilage, potatoes
111 (includes 64 varieties and yield per acre for each variety in 1882 and 1883, p.40-42), oat
112 (includes 15 varieties and weight per bushel harvested for each variety, p. 42-43), wheat (40
113 varieties were tested in 1883 but hit by hail, p. 43), and sorghum sugar (results of 4 experiments
114 with obtaining syrup, p. 49-51).

115

116 Johnson, I.J. and J.L. Robinson. 1949-1971. Crop varieties recommended for Iowa. Iowa Farm Science.

117 This was a regular series of annual publications in the January or February issue of *Iowa Farm*
118 *Science* each year from 1949 through 1971. The title varies each year as does the authors,
119 although I.J. Johnson is usually the first author. It does not give specific variety yields, only lists
120 varieties of each crop that are recommended. They are careful to say that variety name alone
121 does not guarantee good yields, farmers also need to use good quality certified seed.

122

123 Kent, D.A. 1892. Crop report of the Farm Department. Bull. Iowa Agric. Exp. Stn. (16):303-308.

124 Covers corn, barley, ensilage.

125

126 Knapp, H. 1886. Report of experiments conducted on the college farm. Bull. Iowa Agric. Coll.,

127 Experiments, Dept. Agric. Cedar Rapids, IA: Daily Republican Printing & Binding

128 Establishment. <http://catalog.hathitrust.org/api/volumes/oclc/63621767.html>

129 This provides information on all crop experiments at the Iowa Agricultural College in 1885 and
130 1886. It includes sections on experimental grasses and forages, sorghum (p. 16-17), clover,

131 alfalfa (p. 18-19), oat (11 varieties on pp. 29-34), and potatoes (88 varieties and yields in data
132 chart on pp. 48-58 and attempts to cross potato varieties on pages 62-63).

133

134 Knobbs, W.J. 1922. Cooperative experiments. M.S. thesis. Iowa State College.

135 Provides a history of cooperative tests in Ontario, Canada, Iowa and many U.S. states, along with
136 details of early experiments of the Iowa Agricultural Experiment Association. Also provides
137 comparative data for U.S. and world grain and hay production from 1911-1920. Variety tests for
138 1913-1921 for oat, sorghum, soy beans, hubam clover, corn, winter and spring wheat, barley,
139 alfalfa, and sudan grass.

140

141 Reddy, C.S. and L.C. Burnett. 1936. Flax as an Iowa crop. Bull. Iowa Agric. Exp. Stn. 344.

142 Provides yields and prices for flax, barley, spring wheat, and oat for 1925-1934.

143

144 Roberts, I.P. 1872. Report of the farm superintendent, pp. 64-70. *In* Fourth Biennial Report of the
145 Board of Trustees of the Iowa State Agricultural College and Farm to the Governor of Iowa,
146 December, 1871. Des Moines, IA: G.W. Edwards, State
147 Printer. <https://hdl.handle.net/2027/uiug.30112111885908>

148 This report includes information on 3 acres devoted to crop experiments. These were hardiness
149 tests for specific varieties. Crops included spring and winter wheat, rye, winter oats, potatoes,
150 and barley. It provides information on specific varieties planted and yields for each variety.

151

152 Robinson, J.L. Circa 1929. New crop varieties on Iowa farms. Unpublished manuscript. Iowa Crop
153 Improvement. Assoc. Records. RS 9/9/3, Box 20. Special Collections and Univ. Archives Dept.,
154 Iowa State Univ. Library, Ames.

155 Provides yields and varieties for oat, wheat, barley, corn, sorghum, soybeans, sudan grass,
156 hubam clover, and dalea from 1910-1929.

157

158 Thurman, F. 1940. Field Crop Tests on Iowa Farms. M.S. thesis. Iowa State College, Ames.

159 Thurman covers Iowa Agricultural Experiment Station variety tests for 1916-1938. He chose not
160 to include 1910-1915 due to lack of complete data. Thurman devotes large sections of his thesis
161 to variety tests for: oat, winter wheat, spring wheat, barley, corn, hybrid corn, lojap popcorn,
162 soybean, sorghums, sudan grass, and alfalfa. He also includes hubam clover, dalea, and early
163 Korean lespedeza.

164

165 Wilsie, C.P. 1925-1971. C.P. Wilsie Papers, RS 9/9/56, Special Collections Department, Iowa State
166 University Library.

167 This collection contains raw data and notes from experiments on: alfalfa, 1945-1955; brome
168 grass, 1940-1950; clover and soybean, 1936-1939; hemp, 1943; yields for red clover, biennial
169 white sweet clover, and hubam, 1923-1938; effect of green manure crops on yields of oat
170 grains, 1923-1936; data on dalea; impact of rotations of legumes with corn and oat; research on
171 sorghum, sudan, and millet, 1935-36; Soybean Hay Test, 1935-36; sudan grass, lepezeda, 1935-
172 36; sweet clover, 1937-39. The Soybean-Hay Test folder includes information on vegetable
173 soybean experiments, including canning and includes yields for 12 varieties. The folder also
174 includes manuscripts for the Soybean Variety Tests for 1937.

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Alfalfa

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Brummer, C., et al. 1995-2001. [Year] Iowa alfalfa yield test report. AG-84. Iowa State Univ. Ext., Ames. [1997-2001 have title: The [Year] Iowa Crop Performance Test – Alfalfa.]

Carlson, I.T. 1973-1979. Iowa alfalfa yield test report, [years]. AG-84. Iowa State Univ. Ext., Ames. [Title varies – some have year listed at the front of title and other years at the end of title.]

Croft, J.C. 1932. Alfalfa varieties and seed sources. M.S. thesis. Iowa State College, Ames, Iowa. Croft tested 7 varieties (in a 3-year experiment) with alfalfa planted on the Iowa Agricultural Experiment Station farm in 1926: Grimm, Baltic, Cossack, Ontario Variegated, South Dakota Turkestan, and common. Croft provides 3-year average yields for common alfalfa varieties and strains. The common strains of Wyoming, Montana, and South Dakota appeared to be the best yielding strains (p. 49). Cossack regularly out-yielded other varieties in this study (p.56). Cossack, Canadian Variegated, Baltic, and Grimm varieties did the best in the three-year yield test (p.57).

Hughes, H.D. 1917. Varieties of alfalfa seed. The Iowa Agriculturist 18(4):163-165. “The Farm Crops section began a series of tests in 1910 to secure some information regarding the relative value of alfalfa seed from various sources and produced under different conditions; also regarding different varieties.” The article provides yield of hay and per cent of winter killing secured from different sources (other U.S. states and also imported). It also shows results of Iowa experiments and provides comparative yielding power and hardiness of Grimm and Baltic alfalfa, and imported and common types. Recommends Grimm for Iowa farmers.

Hughes, H.D. 1930. The coming of the legumes. The Palimpsest 11(6):292-302.

203 This does not contain any varietal yield data; however, it provides an excellent summary of
204 varieties of red clover, alfalfa, and sweet clover in Iowa from 1880-1930.
205

206 Potter, C.P., et al. 1990-1994. [Year] Iowa alfalfa yield test report. AG-84. Iowa State Univ. Ext., Ames.
207 [Title varies: some years do not have the word Iowa in the title.] Reports for 1993-1994 were
208 done on newsprint in a folded page with larger page size and included as an insert in *Iowa Beef*
209 *Today*.
210

211 Roozeboom, K. and I.T. Carlson. 1986-1989. [Year] Iowa alfalfa yield test report [with 1960-8*
212 summary]. AG-84. Iowa State Univ. Ext., Ames.
213

214 Smith, M. and C. Brummer. 2004-2007. [Year] Iowa crop performance test – alfalfa. AG-84. Iowa State
215 Univ. Ext, Ames. [Title varies: Iowa Crop Performance Test – Alfalfa and Other Forages.]
216

217 Sulc, R.M. and I.T. Carlson. 1980-1985. [Year] Iowa alfalfa yield test report [with 1960-8* summary].
218 AG-84-*. Iowa State Univ. Ext., Ames.
219

220 Wilsie, C.P. 1925-1971. C.P. Wilsie Papers, RS 9/9/56, Special Collections Department, Iowa State
221 University Library.
222 Among many other crop experiments, this collection contains raw data and notes from
223 experiments on alfalfa, 1945-1955.
224

225 Wilsie, C.P. 1945. Better alfalfa coming. *Farm Sci. Reporter* 6(3):14-16.

226 Aimed at Iowa farmers, this article discusses alfalfa varieties resistant to wilt. On page 16, Wilsie
227 includes a table showing 8 varieties – “Comparative Yield and Stand Survival of Alfalfa Varieties
228 at Ames, Iowa, 1941-1944, Seeded in 1940.”

229

230 Wilsie, C.P. 1951. Alfalfa varieties for Iowa. Bull. Pop. Ser. 111. Iowa Agric. Exp. Stn., Iowa State Coll.,
231 Ames.

232 Provides descriptions/info for varieties in production in Iowa at the time. Also gives information
233 on 2 trials for 4 crop years, but does not say which YEARS the trials took place. Presumably, the
234 previous 4 years before the publication date.

235

236 Wilsie, C.P. 1954. Better alfalfas available. Iowa Farm Sci. 8(9):7-8.

237 Describes 5 varieties: Ranger, Buffalo, Atlantic, Ladak and Grimm. Also compares Vernal to
238 Ranger. Chart shows average yields for each variety for the 1st and 2nd years and also the 3rd and
239 4th years.

240

241 Wilsie, C.P. and H.D. Gross. 1956. Vernal increases alfalfa possibilities. Iowa Farm Sci. 10(8):17-18.

242 Aimed at Iowa farmers, this article describes the new Vernal alfalfa variety and its benefits. A
243 table on page 18 includes forage yields for Vernal and several standard varieties for 1950-1955
244 and a chart with yields of alfalfa varieties for 2 years when harvested for hay and cut frequently.

245

246 Wilsie, C.P. and H.D. Hughes. 1941. Alfalfa that lives. Farm Sci. Reporter 2(1):14-16.

247 The article is aimed at farmers, and mainly covers efforts at finding winter-hardy, wilt resistant
248 varieties. Page 16 includes a table with “Summary of Hay Yields of Domestic Alfalfa Strains 1927-
249 1940.” This provides average yields for each variety across the U.S. and Canada.

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253 **Barley**

254

255 Anonymous. Barley production in Iowa. 1949. Unpublished manuscript from Farm & Home Week, Iowa
256 State College, Feb. 14-17. Archives – RS 9/9/3, box 20, folder 5, behind Leaflet F.C. (19).

257 Includes copies of Standard Community Grain Trials for Barley in 1946, 1947, and 1948.

258

259 Atkins, R.E., et al. 1964-1966. Iowa barley and flax variety tests [1959-66]. Agron. 656 and AG-7. Iowa
260 State Coll., Agric. Ext. Serv., Ames.

261

262 Atkins, R.E., et al. 1967-1974. Barley and flax variety tests. AG-7. Iowa State Univ. Ext., Ames.

263

264 Atkins, R.E., et al. 1974-1993. Wheat and barley variety tests. AG-6. Iowa State Univ. Ext., Ames.

265

266 Atkins, R.E. and E.S. Dyas. 1952. Iowa barley and flax variety tests, 1948-1952. Agron. 253. Iowa State
267 Coll., Agric. Ext. Serv., Ames.

268

269 Burnett, L.C. 1918. Barley: An early maturing crop for years of feed shortage. Circ. 48. Iowa Agric. Exp.
270 Stn.

271 Summary of variety test of ten varieties from 1913-1917.

272

273 Burnett, L.C. and C.S. Reddy. 1937. Barley in Iowa. Bull. Iowa Agric. Exp. Stn. (367):270-291.
274 Provides data for yields on barley varieties from experiments in 1930-1933.
275
276 Harlan, H.V. 1936. Problems and results in barley breeding. USDA Yearbook 1936:303-346.
277 Iowa research in barley is mentioned on pp. 338-339, 343, 345. It mentions the researchers
278 working in this area are L.C. Burnett and J.B. Wentz. Also has a nice section on methods used in
279 breeding and testing improved varieties on p. 313-315.
280
281 Harlan, H.V., P.R. Cowan and L. Reinbach-Welch. 1935. Yields of barley in the United States and Canada,
282 1927-31. USDA Tech. Bull. 446.
283 Includes information on Iowa barley yields on pp. 13-14, 74 (written by L.C. Burnett).
284
285 Holland, J.B. and R.K. Skrdla. 1995-1996. Iowa oat and barley variety tests. Pm-1645. Iowa State Univ.
286 Ext., Ames.
287
288 Holland, J.B. and R. K. Skrdla. 1997-1998. Iowa crop performance tests – oat and barley [year]. Pm-
289 1645. Iowa State Univ. Ext., Ames.
290
291 Hughes, H.D. and L.C. Burnett. 1928. Barley growing. Circ. 109. Iowa Agric. Exp. Stn., Ames.
292 Includes variety comparisons with annual and average yields from 1913-1923.
293
294 Reddy, C.S. and L.C. Burnett. 1936. Flax as an Iowa crop. Bull. 344. Iowa Agric. Exp. Stn.
295 Provides yields and prices for flax, barley, spring wheat, and oat for 1925-1934.
296

297 Skrdla, R.K. and L. R. Gibson. 2007. Iowa crop performance tests - oat and barley. Pm-1645. Iowa State
298 Univ. Ext., Ames.

299

300 Skrdla, R.K. and J.L. Jannink. 1999-2006. Iowa crop performance tests - oat and barley. Pm-1645. Iowa
301 State Univ. Ext., Ames.

302

303 Wheat, J.G., et al. 1957-1960. Iowa barley and flax variety tests [1953-60]. Agron. 418, 450, 484, 509.
304 Iowa State Coll. Agric. Ext. Serv., Ames.

305

306 Wiebe, G.A., P.R. Cowan and L. Reinbach-Welch. 1940. Yields of barley varieties in the United States
307 and Canada, 1932-36. USDA Tech. Bull. 735.

308 Includes information on Iowa barley yields on pp. 12-13 (written by L.C. Burnett).

309

310 Wiebe, G. A., P.R. Cowan and L. Reinbach-Welch. 1944. Yields of barley varieties in the United States
311 and Canada, 1937-41. USDA Tech. Bull., 881.

312 Includes information on Iowa barley yields on pp. 14 (written by L.C. Burnett).

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316 **Bromegrass & Clover – see [Forage Crops](#)**

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318 **Corn**

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320 Atkinson, J. 1901. Field experiments: Corn, test of varieties, methods of cultivation, selection,
321 shrinkage; oat, barley, spring wheat, speltz, sorghum, rape, kohl rabi, soy beans and sugar beets.
322 Bull. Iowa Agric. Exp. Stn. (55):362-384.
323 Summarizes experiments from the last 2-3 seasons of Experiment Station crops.
324

325 Curtiss, C.F. 1892. Corn growing. Bull. Iowa Agric. Exp. Stn. (16):312-314.
326 Covers 5 varieties of corn grown in 1891. Reports yield results using manured versus unmanured
327 ground.
328

329 Curtiss, C.F. 1892. Corn growing. Bull. Iowa Agric. Exp. Stn. (19):605-609.
330 This was essentially part 2 of the Feb 1892 article. Report of experiments using green manuring,
331 removing tops, tankage fertilizer, deep and shallow cultivation – includes yields.
332

333 Duvick, D.N. 1984. Genetic contributions to yield gains of U.S. hybrid maize, 1930 to 1980, p. 15-47. *In*
334 Fehr, W.R. (Ed.) Genetic contributions to yield grains of five major crop plants. CSSA Spec. Publ.
335 7. Crop Science Society of America, Madison, WI.
336 Experiment results from 47 corn hybrids that were "commercially important in central Iowa at
337 successive intervals from 1934-1978" (p.17).
338

339 Duvick, D. N., J.S.C. Smith, and M. Cooper. 2004. Changes in performance, parentage, and genetic
340 diversity of successful corn hybrids, 1930-2000, p.65-97. *In* C. W. Smith, J. Betran, and E.C.A.
341 Runge (Eds.), Corn: origin, history, technology, and production. John Wiley, Hoboken, NJ.

342 Summarizes Pioneer Hi-bred corn variety experiments in Iowa and includes yields for each
343 variety. See the chapter bibliography for other similar articles by Duvick related to Pioneer Hi-
344 bred corn experiments.

345

346 Foiles, L.E. 1922. A study of strains of corn entered in the Iowa Corn Yield Contest. M.S. thesis. Iowa
347 State College, Ames.

348 Includes a short history of the Iowa Corn Yield Contest (also called the Corn Yield Contest of
349 Iowa), which detailed analysis of corn varieties and yields from the 1920 and 1921 corn yield
350 contest, the first 2 years of the contest. It also provides many details of the planting and
351 harvesting techniques, results of different rates of planting, and correlation of yield to specific
352 kernel characteristics.

353

354 Haber, E.S. 1945. New sweet corn hybrids for canners. Farm Sci. Reporter 6(1):24.

355 Provides three year average yields and cutting percentages for logreen 16, logreen 56, logreen
356 91, Illinois 14 x 13, Illinois 14 x 11, logent 11, logent 27, Silvercross C.G., and Illinois 8 x 6. Does
357 not say which years the crops were harvested.

358

359 Herman, J. Clayton and K. Robert Kern. 1968. Corn growers' evaluation of 1967 Iowa Corn Yield Test
360 Bulletin. II series 64. Iowa State Univ. Ext., Ames.

361

362 Hughes, H.D. and J.L. Robinson. 1929. Relation of certain ear and kernel characters of Reid Yellow Dent
363 corn to yield. Bull. 257. Iowa Agric. Exp. Stn., Ames.

364 Reports on results of a study from corn grown under uniform conditions from 1916-1918. The
365 results of this study were particularly striking in that they definitively proved that corn-show
366 winnings were in no way related to yielding capacity.

367

368 Hughes, H.D., J.L. Robinson and A.A. Bryan. 1929. High yielding strains and varieties of corn for Iowa.
369 Bull. 265. Iowa Agric. Exp. Stn., Ames.

370 This publication summarized the results of the first eight years of corn yield tests and, according
371 to Martin Mosher, provided many details that were not previously available.

372

373 Iowa Corn and Small Grain Growers Assoc. and Iowa State Coll. Agric. Ext. Serv. 1920-1967. Iowa corn
374 yield test. Iowa Corn and Small Grain Growers' Assoc., Ames.

375

376 Iowa State Univ. and Iowa Crop Improvement Assoc. 2006- . Iowa's official variety trials
377 [Online]. <http://www.croptesting.iastate.edu> (verified 31 Aug 2016).

378 The website does not readily show historical reports – at first glance it looks like only most
379 recent 2 years: however, if you look under either corn or soybeans, in the section on “Reports”
380 it will show reports for 2006-present.

381

382 Iowa State Univ. Coop. Ext. Serv. 1910-1916. Demonstration farm reports. RS 16/3/0/27. Special
383 Collections and Univ. Archives Dept., Iowa State Univ. Library, Ames.

384 The *Demonstration Farm Reports* included: Farmers' Variety Tests, Introduced Variety Tests,
385 Thickness of Planting Tests, and Single Ear Tests. Other tests that were included in later years
386 were: Depth of Planting Tests; Butt, Middle, and Tip Kernel Tests; and, Individual Ear

387 Germination Tests. These demonstrations took place on farms in about a third of Iowa's 99
388 counties and were almost exclusively corn variety tests.
389
390 Iowa State Univ. Coop. Ext. Serv., Iowa Agric. and Home Econ. Exp. Stn., and Iowa Crop Improvement
391 Assoc. 1968-2009. Iowa corn yield test report. Iowa State Univ., Coop. Ext. Serv., Ames.
392
393 Iowa State Univ., Iowa Agric. and Home Econ. Exp. Stn. 1931-ongoing. Research and demonstration
394 farms records. RS 9/2/10. Special Collections and Univ. Archives Dept., Iowa State Univ. Library,
395 Ames.
396 Box 17 has raw data from corn yield studies for 1950-1963 including varieties and yields,
397 variations in growing conditions, soil types, fertilizers, etc.
398
399 Jenkins, M.T. 1936. Corn improvement. USDA Yearbook 1936:455-522.
400 Written by a USDA agronomist who previously worked on corn projects for the Iowa Agricultural
401 Experiment Station. It has a detailed history of hybrid corn and much of the article talks about
402 Iowa experiments and varieties. On p. 500 Iowa Agricultural Experiment Station projects and
403 varieties; p. 507-508 hybrid variety performance results for Iowa.
404
405 Jenkins, M.T., and A.A. Bryan. 1905-1990. Corn breeding investigations: Annual report. Iowa Agric.
406 Exp. Stn. Research Proj. Records. RS 9/2/4. Special Collections and Univ. Archives Dept., Iowa
407 State Univ. Library, Ames.
408 These are available for a smattering of years including 1932-1944, 1946-1947, and 1969-1971.
409 They contain a wealth of raw data and information on the corn variety yield tests conducted in
410 Iowa.

411

412 Kent, D.A. 1892. Crop report of the Farm Department. Bull. Iowa Agric. Exp. Stn. (16):303-308.

413 Covers corn, barley, ensilage.

414

415 Mosher, M.L. 1915. Method of finding for distribution and further development a good type of corn for
416 Clinton County, Iowa, conditions." M.S. thesis. Iowa Agricultural College, DeWitt, Iowa.

417 Includes field test results for 1915. Results find that Reid's Yellow Dent Corn is "generally best."

418

419 Mosher, M.L. 1962. Supplement to the book "Early Iowa corn yield tests and later related programs."
420 Unpublished manuscripts. Special Collections and Univ. Archives Dept., Iowa State Univ. Library,
421 Ames.

422 Contains 4 manuscripts for bulletins that were never published – all were dated August 1912.

423 "Comparative Value of Seed Corn Planted by Different Men."
424 Summary of 71 experiments in 32 Iowa counties from 1904-1922. Mosher was looking
425 at different classes of seeds and their yields, not specific varieties.

426 "Imported and Seed House Seed Corn Compared with Home Grown Seed."
427 Results of 56 experiments in 29 Iowa counties from 1905-1911. Mosher was looking at
428 different classes of seeds and their yields, not specific varieties.

429 "A Study of Single Ears of Seed Corn."
430 Results of 144 tests in 32 Iowa counties from 1906-1911. Moser was looking at
431 techniques to improve yields by selecting the best ears for seed.

432 "Thickness of Planting Corn."
433 "Summary of 127 experiments in 32 Iowa counties during 7 years." No mention of which
434 specific 7 years the tests were conducted. (It would be fair to assume he meant 1905-

435 1911, based on other unpublished manuscripts with the August 1912 date.) The purpose
436 was “to learn and demonstrate the effect which the planting of different numbers of
437 kernels per hill has on the yield and quality of the corn produced.”

438 The volume also contains “Detailed Tables of Data Used in the Book.”

439

440 Robinson, J.L. 1939. The story of hybrid corn. Ext. Circ. 234 (revised). Iowa State Coll. Ext. Serv. Ames.

441 This contains a description of the first corn hybrid varieties and their development process in
442 Iowa. Includes a chart with data comparing open pollinated and hybrid varieties from 1932-1938
443 for 4 sections in Iowa.

444

445 Smith, S., M. Cooper, J. Gogerty, C. Löffler, D. Borcharding, and K. Wright. 2014. Maize, p. 125-172. *In*

446 S. Smith, B. Diers, J. Specht, B. Carver (eds.) Yield Gains in Major U.S. Field Crops, CSSA Spec.

447 Publ. 33. ASA, CSSA, and SSSA, Madison, WI. doi:10.2135/cssaspecpub33.c6

448 This book chapter provides yield information for Pioneer hybrid varieties in Iowa from 1930-
449 2011.

450

451 Speer, R.P. 1889. Experiments with corn. Bull. Iowa Agric. Exp. Stn. (7):247-260.

452 Includes information on average and highest corn yields in Iowa from 1883-1888.

453

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455

456

Flax

457

458 Atkins, R.E., et al. 1964-1966. Iowa barley and flax variety tests [1959-66]. Agron. 656 and AG-7. Iowa
459 State Coll., Agric. Ext. Serv., Ames.
460
461 Atkins, R.E., et al. 1967-1974. Barley and flax variety tests. AG-7. Iowa State Univ. Ext., Ames.
462
463 Atkins, R.E. and E.S. Dyas. 1952. Iowa barley and flax variety tests, 1948-1952. Agron. 253. Iowa State
464 Coll., Agric. Ext. Serv., Ames.
465
466 Burnett, L.C. 1932. Flax – A crop for Iowa. Leaflet F.C. 3. Iowa Agric. Exp. Stn., Field Crops Section.
467 Early version of Leaflet F.C. 5. Covers flax varieties and yields for 1921-1930. This is also a
468 precursor to Bulletin no. 344.
469
470 Burnett, L.C. and C.S. Reddy. 1948. Farming with flax. Iowa Farm Sci. 2(9):3-4.
471 Provides a table showing average yields and increases in yield obtained with New Improved
472 Ceresan with six flax varieties at Ames, Kanawha and Howard County. Article also talks about
473 best practices for higher flax yields in general.
474
475 Burnett, L.C. and I.J. Johnson. 1944. Flax growing in Iowa, p. IV.b.1-IV.b.3. *In* Flax facts: “Encyclopedia
476 of information” on flaxseed production, commerce and trade, recommended varieties, and
477 diseases of flax in the United States. 2nd ed., entirely rev. E. J. Mitchell, Minneapolis, MN.
478 Details on Iowa Agricultural Experiment Station testing in Ames, Kanawa, and Cherokee.
479 Includes yields for varieties from 1931-1943.
480

481 Burnett, L.C. and I.J. Johnson. 1944. History of Flax in Iowa, p. IV.a.1. *In* Flax facts: "Encyclopedia of
482 information" on flaxseed production, commerce and trade, recommended varieties, and
483 diseases of flax in the United States. 2nd ed., entirely rev. E. J. Mitchell, Minneapolis, MN.
484 This is a one page summary and does not provide specific variety information; however, it
485 provides a nice overview of this crop in Iowa before 1944. It was primarily a commercial crop
486 only in northwestern Iowa at the time.

487

488 Comstock, V.E. and J.H. Ford. 1960. Comparison of flax varieties grown in uniform nursery experiments
489 in 1959. [Preliminary progress report.] Beltsville, MD: USDA Agricultural Research Service.
490 This includes agronomic data for 17-21 varieties grown at 36 nurseries in 27 locations in the U.S.
491 and Canada. Covers agronomic, disease, and seed quality data, together with averages for yield
492 of seed, oil content, iodine value, and disease data for longer periods wherever available. Iowa-
493 specific data is provided on page: 6, 22, 28, 30, 38 and 40. Iowa flax nurseries were located in
494 Ames and Sutherland, Iowa.

495

496 Culbertson, J.O. 1952. Comparison of flax varieties grown in uniform nursery experiments in 1951.
497 Beltsville, MD: USDA Agricultural Research Administration.
498 This includes agronomic data for 25 varieties grown at 19 large nursery stations in the U.S. and
499 Canada. It also includes data from 10 varieties grown at 16 small nursery stations. Covers
500 agronomic, disease, and seed quality data, together with averages for yield of seed, oil content,
501 iodine value, and disease data for longer periods wherever available. Iowa-specific data is
502 provided on page: 7, 9, 22-23, 42, 52, 54 and 56. Iowa flax nurseries were located in Ames,
503 Kanawa, and Primghar, Iowa.

504

505 Delate, K., C. Chase and J. Kennicker. 2008. Organic flax production in Iowa. PM 2058. Iowa State Univ.
506 Ext., Ames. (Available online at: <http://www.extension.iastate.edu/Publications/PM2058.pdf> –
507 verified 31 Aug. 2016.)

508 Provides yield results for CDC Bethune, NorLin, and LSD 0.05 varieties from one location in Iowa
509 in 2005.

510

511 Dillman, A.C. and A.H. Moseman. 1945. Comparison of flax varieties grown in cooperative nursery
512 experiments in 1944. 24-CC. Beltsville, MD: USDA Plant Industry Station. [Not intended for
513 publication – limited distribution.]

514 This includes agronomic data for 25 varieties grown at 14 large nursery stations in the U.S. and
515 Canada. It also includes data from 12 varieties grown at 15 small nursery stations. Iowa
516 Agricultural Experiment Station is included in the list of cooperating stations, but there is not
517 any Iowa-specific data provided in this edition. On page 4 is a note that, because of a late
518 spring, nurseries were not planted at Kanawa, Iowa and 3 other locations.

519

520 Reddy, C.S. and L.C. Burnett. 1936. Flax as an Iowa crop. Bull. Iowa Agric. Exp. Stn. 344.

521 Flax acreage peaked in 1902 and 1930 in the U.S. Flax was at its maximum acreage in Iowa in
522 1885, but decreased over time to 1922. It was “well suited for a first crop on new [ground]
523 breaking.” It is “exceeded in value by corn, wheat, oat, and barley, and approximately the same
524 value as rye, rice and sorghums.” Talks about why Iowa stopped growing flax for a while and
525 then encouraged farmers to grow it again due to new developments in wild-resistant varieties.
526 Provides yields and prices for flax, barley, spring wheat, and oat for 1925-1934. Also yields for
527 individual varieties of flax in 1930-32.

528

529 Reddy, C.S., L.C. Burnett and I.J. Johnson. 1944. Seed treatment variety and dosage tests on flax in
530 1947, p. IV.c.1-IV.c.3. *In* Flax facts: “Encyclopedia of information” on flaxseed production,
531 commerce and trade, recommended varieties, and diseases of flax in the United States. 2nd ed.,
532 entirely rev. E. J. Mitchell, Minneapolis, MN.

533 Even though this volume appeared to be published in 1944, this section covers Iowa Agricultural
534 Experiment Station test results for 1945-1947 on flax variety yields from Ceresan-treated seed in
535 Ames and Kanawa.

536

537 Smith, M., M. Wiedenhoef and S. Carlson. 2008. Flax production guidelines for Iowa. PM 2020. Iowa
538 State Univ. Ext., Value Added Agriculture Program, Ames.

539 Provides yield information for 5 varieties of flax from two sites in Iowa in 2005.

540

541 Smith, M., R. Husk and D. Haden. 2004. Planting pattern and cultivar effects on flax yields in
542 Northwestern Iowa. ISRF04-29, 31. Iowa State Univ., Northwest Research Farms and Allee
543 Demonstration Farm. Available

544 at: <http://farms.ag.iastate.edu/sites/default/files/PlantingPatternsFlax.pdf> (verified 31 Aug.

545 2016.) Report of 2004 experiments on 3 flax varieties – Bethune, Hanley, and Norlin at

546 Sutherland, Iowa.

547

548 Wheat, J.G., et al. 1957-1960. Iowa barley and flax variety tests [1953-60]. Agron. 418, 450, 484, 509.

549 Iowa State Coll. Agric. Ext. Serv., Ames.

550

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552

Forage Crops

553 (Excluding alfalfa, sorghum, and soybean as those have separate sections in this bibliography)

554

555 Barnhart, S.K. and D. Rueber. 2012. Alternative grass variety trial 2010–2012. Iowa State Research

556 Farm Progress Reports. Paper 1958. Available

557 at: http://lib.dr.iastate.edu/farms_reports/1958/ (verified 31 Aug. 2016.)

558 Variety trial for forage grass species for northern Iowa, was initiated in 2010 with a few

559 examples of alternative forage grasses. Tested two intermediate wheatgrass varieties (Rush and

560 Reliant) and two meadow bromegrass varieties (Fleet and Cache).

561

562 Barnhart, S.K. and D. Rueber. 2013. Red clover variety persistence trial. Iowa State Research Farm

563 Progress Reports. Paper 2052. Available

564 at: http://lib.dr.iastate.edu/farms_reports/2052/ (verified 31 Aug. 2016.)

565 Author abstract: In response to questions about the longevity of the forage legume red clover

566 (*Trifolium pretense*) in northwest Iowa, a variety trial was initiated in 2010. Red clover breeders

567 have been selecting for improved plant resistance to the root/crown vascular wilt diseases, as

568 well as northern and southern anthracnose. Several new red clover varieties are being marketed

569 as 3- and 4-year production varieties. [Provides individual and 3-year yields for Common

570 medium red clover, Redland III, Marathon, and FSG9601 from 2011-2013.]

571

572 Barnhart, S.K., M.B. Smidt and D. Rueber. 2013. Alternative grass variety trial. Iowa State Research

573 Farm Progress Reports. Paper 2042. Available

574 at: http://lib.dr.iastate.edu/farms_reports/2042/ (verified 31 Aug. 2016.)

575 Continuation of variety trial for forage grass species for northern Iowa. Tested two intermediate
576 wheatgrass varieties (Rush and Reliant) and two meadow bromegrass varieties (Fleet and
577 Cache).

578

579 Carlson, I.T. and W.F. Wedlin. 1974. Iowa smooth bromegrass performance tests, 1961-72. AG-
580 90. Iowa State Univ. Ext., Ames.

581

582 Carlson, I.T. and W.F. Wedlin. 1975. Iowa orchardgrass performance tests, 1962-74. AG-92. Iowa State
583 Univ. Ext., Ames.

584

585 Dunn, L.E. 1930. Red clover: Sources, varieties and strains. M.S. thesis. Iowa State Coll., Ames.

586 The literature review and bibliography provides information on red clover variety trials in the
587 U.S. and abroad prior to 1930. Reports on results of red clover experiments in Iowa from 1922-
588 1929, compares varieties for yield, winterkill rates, mildew, weeds, disease, and source of seed
589 samples.

590

591 Hechler, W.R. 1917. Sudan grass. Iowa Agriculturist 18(1):17-18.

592 Aimed at farmers. The article encourages farmers to consider it as an "emergency crop" to
593 supplement a shortage of feed. Most of the article compares it to other forage crops, provides
594 positives and negatives for growing it, and gives specific planting and harvesting advice for best
595 results in Iowa fields. "Tests conducted by the Iowa Agricultural Experiment Station during the
596 past three years and the experience of individual farmers show that Sudan grass is a promising
597 forage plant for Iowa."

598

599 Hughes, H.D. 1930. The coming of the legumes. *The Palimpsest* 11(6):292-302.

600 This does not contain any varietal yield data; however, it provides an excellent summary of
601 varieties of red clover, alfalfa, and sweet clover in Iowa from 1880-1930.

602

603 Kalton, R.R. and H.E. Thompson. 1957. Sudangrass...in Iowa. *Iowa Farm Sci.* 11(9):9-10.

604 Aimed at Iowa farmers, this article provides a brief history and description of sudangrass as well
605 as tips on varieties and management. Page 10 has a table showing performance of 7 varieties at
606 Ames, Iowa. Presumably, these are results from 1956 or 1957 crops.

607

608 Scholl, J.M., R.R. Kalton and H.E. Thompson. 1958. Orchardgrass - - Its use on Iowa farms. *Iowa Farm*
609 *Sci.* 12(9):7-8.

610 Aimed at Iowa farmers, this article provides background, uses, and management of
611 orchardgrass. Page 8 has a table comparing orchardgrass and bromegrass grown with alfalfa at
612 three Iowa locations from 1952-1957. It does not provide yield information for specific varieties
613 of orchardgrass but it does list known varieties.

614

615 Wilkins, F.S. and H.D. Hughes. 1932. Agronomic trials with reed canary grass. *J. Amer. Soc. Agron.*
616 24:18-28.

617 According to this article, "selection studies at the Iowa Experiment Station were begun with the
618 progeny from a packet of seed received by the station from an Iowa farmer in 1918." Provides
619 considerable detail on experiments in Iowa. It includes yields of reed canary and six common
620 hay grasses from 1925-1928 (brome, timothy, tall meadow oat, red top, meadow fescue and
621 orchard grass). Seed from the highest yielding strain was distributed to Iowa farmers as Iowa
622 Phalaris in 1930. Information is also provided on Kentucky bluegrass and mixed clovers.

623

624 Wilsie, C.P. 1949. Evaluation of grass-legume associations, with emphasis on the yields of bromegrass
625 varieties. *Agron. J.* 41:412-420.

626 Field experiments with bromegrass in Iowa began in 1937 and this is one of the few places
627 information can be found on yields and the experiments being conducted. Wilsie provides
628 forage yields for 1939-1942 for bromegrass, timothy, and orchardgrass seeded with alfalfa. Also
629 gives a comparison of yields from bromegrass grown alone and with alfalfa in 1944 and 1945 as
630 well as in mixtures with legumes in 1947 and 1948. He also includes information on differences
631 made using two cutting systems and different plot sizes.

632

633 Wilsie, C.P. 1950. Red clover varieties for Iowa. *Iowa Farm Sci.* 5(12):185-187.

634 Describes 7 varieties that have been improved through crop breeding. Includes a table on page
635 186 with red clover strains, the number of trials for each, and their yields from 1938-1950, in
636 trials conducted at the Iowa Agricultural Experiment Station in Ames. Also provides cropping
637 hints.

638

639 Wilsie, C.P. and E.A Hollowell. 1948. Effect of time of cutting red clover on forage yields, seed setting
640 and chemical composition. *Research Bull. Iowa Agric. Exp. Stn.* (357).

641 Forage yields are covered on pages 642-646. Includes yields of mammoth red clover and
642 medium red clover.

643

644 Wilsie, C.P., M.L. Peterson and H.D. Hughes. 1945. Bromegrass in Iowa. *Bull. Pop. Ser.* 75. *Iowa Agric.*
645 *Exp. Stn., Iowa State Coll., Ames.*

646 Includes yields of bromegrass varieties at Ames, Iowa, 1942-1944.

647

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649

650 **Oat**

651

652 Anonymous. 1960. Iowa oat variety trials 1960. Iowa Certified Seed News 14(11):4.

653 Includes a table for "Performance of 16 Oat Varieties Tested 2 or More Years in Iowa During
654 1956-60, Inclusive." For each variety it includes number of years tested, groat percentage, test
655 weight, and yield for each of 4 regions in Iowa and the average yield across all regions. Article
656 mentions that full story and comparison of varieties is available in Agronomy mimeograph
657 bulletin no. 507.

658

659 Anonymous. 1961. Performance of 15 oat varieties tested 2 or more years in Iowa during 1957-61,
660 inclusive. Iowa Certified Seed News 15(11):4.

661 There is no accompanying article, just the table. For each variety it includes number of years
662 tested, groat percentage, test weight, and yield for each of 4 regions in Iowa and the average
663 yield across all regions.

664

665 Anonymous. 1962. Garland – A new oat variety. Iowa Certified Seed News 16(12):4.

666 Includes a table comparing Garland with Bonham, Bonkee, Goodfield, Newton, and Garland in 5
667 Iowa locations in 1962. For each variety, it includes date of heading, weight, lodging score,
668 height, yield in each location and average across all regions.

669

670 Anonymous. 1962. Oat variety trials. Iowa Certified Seed News 16(11):3.

671 Includes a table of 20 oat varieties and their performance at 5 locations in Iowa during 1961 and
672 1962. For each variety, it includes height, lodging score, rust reaction, test weight, and yield for
673 each of 4 regions in Iowa and the average yield across all regions.

674

675 Anonymous. 1963. Oat variety trials summary for 1963. Iowa Certified Seed News 17(11):3-4.

676 Article summarizes the 1963 growing season conditions and includes a table for 2-year
677 comparisons of 21 varieties at 5 locations in Iowa.

678

679 Anonymous. 1964. Oat variety trials. Iowa Certified Seed News 18 (11):4.

680 Provides a short summary of the 1964 tests and includes a table with the performance of 21 oat
681 varieties tested at 5 locations in Iowa during 1963-64.

682

683 Anonymous. 1965. Iowa oat variety performance trials 1965. Iowa Certified Seed News 19(11):4.

684 Provides a summary of 24 oat varieties tested at 4 locations in Iowa during 1964-65.

685

686 Atkins, R.E., H.C. Murphy and E.S. Dyas. 1952. Iowa oat variety tests, 1948-1952. Agron. (251). Iowa
687 State Coll., Agric. Ext. Serv., Ames.

688 Provides information on the performance of 16 oat varieties grown at 11 locations in Iowa, for
689 1-year, 3-year, and 5-year periods. Four pages are devoted to providing short summaries of oat
690 varieties – both those recommended for Iowa and other locations in the U.S.

691

692 Atkins, R.E., K.J. Frey, H.C. Murphy and E.S. Dyas. 1953. Iowa oat variety tests, 1950-1953. Agron. (284).

693 Iowa State Coll., Agric. Ext. Serv., Ames.

694 Provides information on the performance of 12 oat varieties grown in 24 tests in Iowa from
695 1950-1953 and 16 oat varieties grown at 9 locations in Iowa in 1953. Five pages are devoted to
696 providing short summaries of other oat varieties – both those recommended for Iowa and other
697 locations in the U.S.

698

699 Bowman, M.L. and Burnett, L.C. 1908. Oat: Varieties, seed, smut, seed-bed and seeding. Bull. Iowa
700 Agric. Exp. Stn. (96).

701 Great summary and data from Variety Tests during 1898-1907 on 70 varieties.

702

703 Browning, J.A., K.J. Frey and R.L. Grindeland. 1964. Breeding multiline oat varieties for Iowa. Iowa Farm
704 Sci. 18(8):5-8.

705 Aimed at farmers, this includes performance of 12 oat varieties from 4 different “eras” from pre-
706 1945 to 1961.

707

708 Browning, J.A., P. Lawrence, R. Grindeland, K.J. Frey. 1970. Iowa oat test results - - 1969-70. AG-10-0.
709 Iowa State Univ. Ext., Ames.

710

711 Burnett, L.C. 1912. Some data for oat growers. Bull. Iowa Agric. Exp. Stn. (128):89-127.

712 Continuation of information found in *Bulletin* no.96 with four additional years of data. Shows
713 performance of 48 commercial varieties of oat and then compares results of 7 varieties
714 commonly grown in Iowa from 1904-1910.

715

716 Burnett, L.C. 1918. Improving the oat crop. Bull. Iowa Agric. Exp. Stn. (175):149-172.

717 Oat variety yields for 1907-1919 in some cases and 1911-1916 for other varieties. Includes more
718 detail on 10 varieties commonly grown in Iowa from 1907-1916.
719
720 Burnett, L.C. 1928. logold oat. Bull. Iowa Agric. Exp. Stn. (247):185-198.
721 Contains a description and history of logold variety and a comparison with other varieties.
722 Provides data on 4 varieties: Kherson, Iowa No. 103, Iowa No. 105, and lowar as these were
723 planted on the largest numbers of acres in Iowa at the time. It includes data on ripening dates,
724 plant height, straw stiffness, relative yield, bushel weight, seeding rates and method, effect of
725 fertilizer and stem rust resistance.
726
727 Burnett, L.C. and E.S. Dyas. 1940-1943. Standard community grain trials. Leaflet F.C. (11, 13, 15-16).
728 Iowa Agric. Exp. Stn., Farm Crops Section, Ames.
729 Leaflet F.C. 11 = *Oats and Wheat Trials, 1938 and 1939.*
730 Leaflet F.C. 13 = *Oats and Wheat Trials, 1938-1939-1940.*
731 Leaflet F.C. 15 = *Oats and Wheat Trials, 1939-1940-1941.*
732 Leaflet F.C. 16 = *Oats and Wheat Trials for 1940-1941-1942.* Jan. 1943.
733
734 Burnett, L.C., T.R. Stanton, and C.W. Warburton. 1925. Improved oat varieties for the corn belt. USDA
735 Dept. Bull. 1343. Available at: <https://archive.org/details/improvedoatvarie1343burn> (verified
736 31 Aug 2016.)
737 Includes oat variety yields at the Iowa Station for 1910-1923. Specifically focuses on
738 experiments on Iowa farms. Provides in-depth information on Richland, Albion, lowar and
739 logren varieties and compares yields with those from outside Iowa.
740

741 Dyas, E.S., K.J. Frey, and J.G. Wheat. 1958. Oat varieties. Agron. 413 (supplement). Iowa State Coll.,
742 Agric. Ext. Serv., Ames.
743 Provides additional varietal information, mainly for varieties were either not included in outlying
744 trials in 1957 or were only tested for 1 year. Varieties included: Ransom, Putnam, and Fayette.
745 Also includes some yield comparisons with Minhafer, Clintland, and Bonham.
746

747 Elder, C.R. 1947. These 'Clinton-like' oats? Iowa Farm Sci. 1(7):15-16.
748 Provides a table showing 1942-1946 oat varieties and selection comparisons with percentage
749 lodging, test weight, and yield for each variety.
750

751 Frey, K.J., et al. 1961-1983. Iowa oat variety trial summary – [years]. AG-10. Iowa State Univ. Ext.,
752 Ames. [Title varies slightly in some years: *Iowa Oat Test Results, Oat Variety Performance* – Frey
753 is not first author on all of them – but he was the project leader and is either 1st or 2nd author on
754 all these.]
755

756 Frey, K.J. and S.C. Wiggans. 1956. How do test weights affect oat yields? Iowa Farm Sci. 10(9):11-12.
757 Aimed at Iowa farmers, this article describes a series of experiments with seed oats of varying
758 test weights in 1954 and 1955. Varieties tested included Cherokee, Branch, Clinton, and Mo. 0-
759 205. Includes two tables comparing results for each variety including yields and seedling stands.
760

761 Frey, K.J. and T.W. Horner. 1957. New area recommendations for oats. Iowa Farm Sci. 11(11):3-4.
762 Aimed at Iowa farmers, this article describes a new method the Experiment Station will be using
763 in the coming year for oat recommendations - - making specific recommendations for each of
764 four areas of the state. A map is included showing the areas. Page 4 also contains two tables

765 with variety yields from 1952-1956 for the 4 areas of the state along with plant height, lodging,
766 test weight, stem rust and crown rust indicators.

767

768 Frey, K.J., J.A. Browning, and R.L. Grindeland. 1967. A new variety...O'Brien oats. Iowa Farm Sci.
769 21(9):7-8.

770 Aimed at farmers, provides detailed information on the O'Brien variety. Also includes
771 performance of 5 oat varieties in Iowa from 1963-1966: O'Brien, Goodfield, Bonkee, Nodaway,
772 and Burnett.

773

774 Frey, K.J., J.A. Browning and R.L. Grindeland. 1970. New multiline oats. Iowa Farm Sci. 24(8):3-6.

775 Aimed at farmers, this is an extensive article about oats designed to "break the chain of the
776 crown rust disease. It discusses many resistant varieties and Iowa State University research on
777 oats in the 1960's. It compares performance of Multiline E with Bonkee, Clintford and Jaycee in
778 Iowa from 1967-69. Also details several other multiline varieties performance with other oat
779 varieties.

780

781 Frey, K.J., J.A. Browning, J.G. Wheat, R.E. Atkins and E.S. Dyas. 1956. Iowa oat variety trials summary,
782 1952-1956. Agron. 385. Iowa State Coll., Agric. Ext. Serv., Ames.

783 Provides a summary of the 1956 growing season, planting locations for nine oat variety tests,
784 and a chart showing performance of varieties tested 2 or more years during 1952-56. Data
785 provided for each variety include number of years tested, height, lodging, test weight, yield in
786 each location, and average yield across all locations. Details on 7 varieties recommended for
787 Iowa in 1957. Also has a chart of agronomic characters and disease reaction of 22 oat varieties.

788

789 Grindeland, R.L., K.J. Frey, and J.A. Browning. 1967. Oat variety performance - - 1963-67. AG-10-7.
790 Iowa State Univ. Ext., Ames.

791

792 Hughes, H.D. 1945. Oat improvement at the Iowa Station through a 40-year period. Report on
793 Agricultural Research for the Year Ending June 30, 1945 – part 1:27-46.

794 The report summarizes oat production and variety development in Iowa pre-1945, includes
795 considerable details for each oat variety in Iowa. Pages 44-47 provide an extensive list of
796 “Publications on Oats from the Iowa Agricultural Experiment Station” which includes IAES
797 published bulletins, USDA publications, and journal articles from 1889-1945. The report was also
798 reprinted in the 1945 *Iowa Year Book of Agriculture* (p.613-628); however, the Year Book
799 version did not contain the list of publications included in the original Report.

800

801 Hughes, H.D. 1946. The fields of waving grain, p. 45-53. *In A Century of Farming in Iowa, 1846-1946.*
802 Iowa State Coll. Press, Ames, IA.

803 Even though it does not contain data on the variety yields, this book chapter gives an excellent
804 history of the oat variety testing in Iowa, starting with work done by L.C. Burnett in 1906.

805

806 Hughes, H.D. and J.L. Robinson. 1925. Iowa farmers test new oat varieties. [Title page has slightly
807 different title: Trials with new oat varieties conducted by Iowa farmers.] Bull. Iowa Agric. Exp.
808 Stn. (227):314-342.

809 Compares results of varieties developed by Iowa Agricultural Experiment Station with
810 commercial varieties grown in Iowa. Shows variety yields from 1913-1924.

811

812 Iowa Agricultural Experiment Station. Annual Report of Cereal Breeding Projects. Iowa Agricultural Exp.
813 Stn. Research Proj. Records. RS 9/2/4, Boxes 4-6. Special Collections and Univ. Archives Dept.,
814 Iowa State Univ. Library, Ames.

815 These are available for 1941-1951. They contain a wealth of raw data and information on the
816 oat, barley and winter wheat variety yield tests conducted in Iowa. Individual years contain
817 "some" information from small grain community trials. Each report includes a publications list
818 that is cumulative and starts with Experiment Station authored publications on the topic from
819 1930. The bulk of the volumes pertain to oat, but they also include a small number of pages for
820 barley and winter wheat. Winter wheat was only included from 1941-1943. The 1941 report
821 includes 1935-1941 yields. Barley ceased to be included in 1949 when it was renamed as *Annual*
822 *Report of Cereal (Oat) Breeding Projects*. The 1949 report includes information on barley
823 diseases but no variety yields for barley. The 1951 report has a section titled "1951 Iowa Oat
824 Variety Tests" on pages 15-18. These pages give a nice overview of oat yield trials in Iowa. They
825 were a joint effort with the Experiment Station and USDA. It does not say when trials began but
826 the data table covers 1947-1951 and goes on to give detailed summaries of all varieties tested
827 to date in the U.S. and Canada.

828

829 Iowa State University, Cooperative Extension Service. 1910-1916. Demonstration Farm Reports.

830 Most of these cover corn variety tests, but several also include oat variety tests. See no. 45
831 (1914) – Allamakee County (this one covers ONLY oat); no. 56 (1916), Blackhawk County –
832 covered only oat; no. 59 (1916), Hardin County – covered corn and oat; no. 62 (1916), Clinton
833 County – covered corn and oat.

834

835 Knott, O.A., K.J. Frey and J.A. Browning. 1963. New oat varieties for 1964 – Bonkee and Neal. Iowa
836 Farm Sci. 18(1):3-4.
837 Aimed at farmers, this discusses the two varieties mentioned and also includes performance
838 chart for 6 oat varieties in Iowa 1961-62.
839
840 Kuenzel, K. A., et al. 1980-1981. Iowa oat test results [years]. AG-10. Iowa State Univ. Ext., Ames.
841
842 McPerson, J.K., et al. 1984-1986. Iowa oat test results [years]. AG-10. Iowa State Univ. Ext., Ames.
843
844 Moser, H.S., et al. 1987-1993. Iowa oat test results [years]. AG-10. Iowa State Univ. Ext., Ames.
845
846 Murphy, H.C. and L.C. Burnett. n.d. Named bond-hybrid oat varieties developed cooperatively by state
847 experiment stations and the United States Department of Agriculture. P.D.-603. RS 9/9/3, Box
848 20, folder 6. Special Collections and Univ. Archives Dept., Iowa State Univ. Library, Ames.
849 Provides 1943-1947 variety yields.
850
851 Murphy, H.C. and L.C. Burnett. 1943. More oats, fewer acres! Farm Sci. Reporter 4(1):6-7.
852 Aimed at Iowa farmers, this article describes disease-resistant varieties available for planting in
853 1943. Provides a table comparing average yields of varieties and includes information related to
854 the crown rust situation for 1938-1942.
855
856 Murphy, H.C. and L.C. Burnett. 1945. Clinton oats arrive. Farm Sci. Reporter 6(4):3-7.
857 This article is aimed at Iowa farmers, and since this is a new variety of oat, there is a
858 considerable amount of background information on the development and history of Clinton oat.

859 It also includes a chart comparing Clinton oat with Tama, Boone, Marion, Gopher and Richland
860 at Ames and Kanawha, 1939 to 1945.

861

862 Murphy, H.C. and L.C. Burnett. 1949. A new oat – it's Shelby. Iowa Farm Sci. 4(4):51-53.

863 Describes this variety as the highest yielding variety tested in Iowa to-date.

864

865 Murphy, H.C., K.J. Frey, J.A. Browning and R.E. Atkins. 1957. About those new oats: Burnett and
866 Newton. Iowa Farm Sci. 11(12):5-6.

867 Aimed at Iowa farmers, this article describes two new varieties available for planting in 1958. It
868 provides background on the two varieties, characteristics and benefits of each. Tables on page 6
869 compare performance of Burnett and Newton with other oat varieties in Iowa from 1952-1956
870 along with their reactions to common oat diseases.

871

872 Robertson, L. D., et al. 1977-1979. Iowa oat test results [years]. AG-10-9. Iowa State Univ. Agric. Ext.,
873 Ames.

874

875 Segebart, R.L., K.J. Frey, and J.A. Browning. 1975-1976. Iowa oat test results [years]. AG-10-5. Iowa
876 State Univ. Agric. Ext., Ames.

877

878 Smith, R.L., K.J. Frey, J.A. Browning, and H.E. Thompson. 1963. Iowa oat variety trial summary - - 1959-
879 63. Agron. 647. Iowa State Univ. Agric. Ext., Ames.

880 Summarizes the 1963 growing season conditions and includes data on performance of 16

881 varieties tested 2 or more years in 10 locations and also 21 oat varieties tested at 5 locations in

882 Iowa. Data included for each variety: number of years tested, height, straw strength, groat
883 percent, test weight, rust indicators, yield in each of the regions, and state average yields.

884

885 Speer, R.P. 1889. Experiment station wheat and oats in 1889. Bull. Iowa Agric. Exp. Stn. 6:199-203.

886 Includes information on 15 varieties, yields and issues related to rust and soil changes over time.

887

888 Taylor, G.A., K.J. Frey, and J.A. Browning. 1964. Iowa oat variety trials summary, 1960-1964. AG-

889 7. Iowa State Univ. Agric. Ext., Ames.

890

891 Warburton, C.W., L.C. Burnett, and H.H. Love. 1914. Tests of selections from hybrids and commercial
892 varieties of oats. USDA Dept. Bull. 99. Available

893 at: <https://archive.org/details/testsofselection99warb> (verified 31 Aug. 2016.)

894 Information on Iowa tests is on pages 7-11, 24. Includes text about the tests, the Iowa

895 Agricultural Experiment Station, and yield information for 1909-1912.

896

897 Wheat, J.G., K.J. Frey, J.A. Browning, R.E. Atkins, and E.S. Dyas. 1957. Iowa oat variety trials summary,
898 1953-1957. Agron. 413. Iowa State Univ. Agric. Ext., Ames.

899 Similar to Agron. 385, but includes performance of 13 oat varieties for 2 or more years in Iowa
900 from 1953-57. Eight varieties were eligible for certification in Iowa – details are provided on
901 each variety. Includes chart of agronomic characters and disease reaction of varieties.

902

903 Wheat, J.G., K.J. Frey, J.A. Browning, R.E. Atkins, and E.S. Dyas. 1958. Iowa oat variety trials summary,

904 1954-1958. Agron. 449. Iowa State Univ. Agric. Ext., Ames.

905 Yield trials at 10 locations in Iowa (in 4 regions). Data for each variety includes disease reaction,
906 lodging, height, test weight, and yield. Summarizes the 1958 growing season conditions, and
907 provides details on 10 varieties eligible for certification.

908

909 Wheat, J.G., K.J. Frey, J.A. Browning, R.E. Atkins, and H.E. Thompson. 1959. Iowa oat variety trials
910 summary, 1955-1959. Agron. 478. Iowa State Univ. Agric. Ext., Ames.

911 Yield trials for 11 locations in Iowa (in 4 regions. Summarizes the 1959 growing season
912 conditions and includes data on performance of 16 varieties tested 2 or more years. Data
913 included for each variety: number of years tested, height, straw strength, groat percent, test
914 weight, yield in each of the regions, and state average yields. Includes a chart of agronomic
915 characters and disease reactions of oat varieties.

916

917 Wheat, J.G., K.J. Frey, J.A. Browning, R.E. Atkins, and H.E. Thompson. 1960. Iowa oat variety trial
918 summary - - 1956-60. Agron. 507. Iowa State Univ. Agric. Ext., Ames.

919 Yield trials for 11 locations in Iowa (in 4 regions). Summarizes the 1960 growing season
920 conditions and includes data on performance of 16 varieties tested 2 or more years. Data
921 included for each variety: number of years tested, height, straw strength, groat percent, test
922 weight, yield in each of the regions, and state average yields.

923

924 Wilson, J., C.F. Curtiss and D.A. Kent. 1891. Best varieties of oats. Bull. Iowa Agric. Exp. Stn. (15):292-
925 294.

926 Crops from 1891, 11 varieties and includes date of sowing, seed per acre, weight of seed, date of
927 harvesting, yield per acre and weight per bushel.

928

929 Young, C., K.J. Frey, and R.K. Skrdla. 1982-1983. Iowa Oat Test Results [years]. AG-10. Iowa State Univ.
930 Agric. Ext., Ames.

931

932 [\[Return to TOP\]](#)

933

934 **Orchardgrass** – see [Forage Crops](#)

935

936 **Potatoes**

937

938 Curtiss, C.F. 1892. Varieties of potatoes. Bull. Iowa Agric. Exp. Stn. (16):309-311.

939 Covers about 2 dozen varieties, a yields table, including time of ripening and characteristics for
940 1891 crop.

941

942 Greene, L. and T.J. Maney. 1914. Better methods of potato production for Iowa. Bull. Iowa Agric. Exp.
943 Stn. (147):61-81.

944 Provides results of three years' investigations (1910-1912) on early and late varieties grown in
945 Iowa. Experiments include 12 varieties. Reports on results of spraying experiments, variety tests,
946 selection of best hills as a means of increasing yield, and planting dates as they influence yield.
947 Pages 70-76 cover Potato Variety Tests. The Bulletin also covers spraying tests and the influence
948 of seed selection and planting dates on yields.

949

950 Speer, R.P. 1891. Experimenting with potatoes in 1889-1890. Bull. Iowa Agric. Exp. Stn. (12):507-518.

951 Includes info on varieties, characteristics and yields of each.

952

953 Weigle J.L. and R.E. Kowalski. 1967. CHIEFTAIN...a new red-skinned potato. Iowa Farm Sci. 22(6):12-13.

954 Provides information from 11 locations in the 1964 North Central Regional Trials. Multi-state

955 comparison of Norgold Russet, Norland, Chieftain, and Red Pontiac varieties.

956

957 [\[Return to TOP\]](#)

958

959 Sorghum

960

961 Atkins, R.E., et al. 1966-1971. Grain sorghum performance. AG-16. Iowa State Univ. Agric. Ext., Ames.

962

963 Atkins, R.E., et al. 1972-1987. Grain Sorghum Performance Tests. AG-16. Iowa State Univ. Agric. Ext.,

964 Ames.

965

966 Atkins, R.E., V.H. Reich, J.J. Kern, and C.D. Hutchcroft. 1966. Iowa grain sorghum performance tests,

967 1963-65. AG-16-5. Iowa State Univ. Agric. Ext., Ames.

968

969 Campbell, A., R.E. Lawson, R.E. Atkins, and R.E. Secrist. 1989. Grain sorghum performance tests - -

970 1987-89. AG-16-9. Iowa State Univ. Agric. Ext., Ames.

971

972 Fernandez, M.S. 2009-2016. Sorghum biomass yield trial for biofuel production in Iowa. Iowa State

973 Research Farm Prog. Rep. Available at: http://lib.dr.iastate.edu/farms_reports/ (verified 31

974 Aug. 2016.)

975 These are annual reports describing progress with a sweet sorghum breeding program. It is
976 located in Ames, IA, with winter nursery activities in Puerto Rico and three testing locations in
977 Iowa. Experimental hybrids are evaluated every year using an experimental forage chopper
978 purchased and adapted by the Department of Agronomy and Agricultural engineers at ISU.

979

980 Kalton, R.R., D.B. Grissom and E.S. Dyas. 1956. Grain sorghum: A coming crop in Iowa? Iowa Farm Sci.
981 10(8):11-14.

982 Aimed at Iowa farmers, this article gives a good overview of grain sorghum and sorghum culture.
983 It includes a list of varieties along with descriptions of each. Two tables are included that
984 provide test yields of grain sorghum in 1955.

985

986 Patrick, G.E. 1889. Sorghum. Bull. Iowa Agric. Exp. Stn. (5).

987 First report of sorghum being grown at the Iowa Agricultural Experiment Station during 1888
988 season. Describes the production process to create sorghum syrup. Includes info on varieties
989 and yields. Aiming at the improvement of sorghum as a sugar bearer.

990

991 Patrick, G.E. 1890. Sorghum. Bull. Iowa Agric. Exp. Stn. (8):327-336.

992 Info from 1889 season. Results include comparisons with the 1888 season and other varieties
993 supplied by the USDA for testing.

994

995 Patrick, G.E. 1891. Sorghum. Bull. Iowa Agric. Exp. Stn. (12):530-533.

996 Work began in Bulletins 5 & 8 continued in 1890. Also mentions (on p. 530) that "The season of
997 1890, notoriously an unfavorable one for corn, was likewise in this locality a most trying one for
998 sorghum." Compares variety results with those of same variety (Early Amber) in Minnesota.

999

1000 Wilsie, C.P., E.S. Dyas, and C.Y. Cannon. 1941. Sorghum: Sweet varieties prove superior to grain types
1001 for fodder and silage. Farm Sci. Reporter 2(2):14-16.

1002 This article is aimed at Iowa farmers, but includes a list of recommended varieties along with
1003 descriptions of each variety. Tables include data from sorghum variety trials in Ames in 1940 and
1004 a summary of reports from 17 counties' demonstration plots in 1940.

1005

1006 [\[Return to TOP\]](#)

1007

1008 Soybean

1009

1010 Anonymous. 1961. Soybean variety trials. Iowa Certified Seed News 15(1):4.

1011 This has a very short article and a table for Soybean Variety Comparisons in Iowa for 1956-60.

1012 For each variety, it includes maturity date, height, lodging score, yield and chemical composition
1013 (percent protein and percent oil).

1014

1015 Anonymous. 1962. Soybean variety comparisons in Iowa for 1957-61. Iowa Certified Seed News
1016 16(2):4.

1017 This is simply a table, there is no accompanying article. For each variety, it includes maturity
1018 date, height, lodging score, yield and chemical composition (percent protein and percent oil).

1019

1020 Anonymous. 1963. Bonkee and Neal for 1964. Iowa Certified Seed News 17(7):1-3.

1021 Feature article with considerable detail on the genetics of each variety and name origins. It also
1022 includes a table showing the performance of Bonkee and Neal with other oat varieties grown in

1023 Iowa, 1961-62 (Cherokee, Nodaway, Burnett and Goodfield). The table came from the Iowa Oat
1024 Variety Trials in 1961 and 1962.
1025
1026 Anonymous. 1963. More soybean varieties. Iowa Certified Seed News 17(5):3.
1027 Discusses Lindarin 63, Harosoy 63 and Hawkeye 63 – and compares them with their “regular”
1028 counterparts (Lindarin, Harosoy and Hawkeye). Provides comparisons based on three years,
1029 1960-62 with data from four locations. For each variety, it includes yield, maturity, lodging,
1030 height, and seed size.
1031
1032 Anonymous. 1963. Soybean variety trials. Iowa Certified Seed News 17(1):4.
1033 Includes a table showing soybean variety comparisons in Iowa for 1958-1962. For each variety, it
1034 includes maturity date, height, lodging score, yield and chemical composition (percent protein
1035 and percent oil). Mentions that extensive results are available in Agronomy publication no. 591,
1036 authored by C.R. Weber.
1037
1038 Anonymous. 1964. Soybean variety trials. Iowa Certified Seed News 18(1):4.
1039 Includes a table of soybean variety comparisons in Iowa for 1959-63. The complete report is
1040 available in Agronomy 653, written by C.R. Weber.
1041
1042 Bahrenfus, J.B., et al. 1975-1976. Iowa soybean yield test report, [year]. AG-18. Iowa State Univ. Agric.
1043 Ext., Ames.
1044
1045 Bahrenfus, J.B., et al. 1977-1978. [Year] Iowa soybean yield test report. AG-18. Iowa State Univ. Agric.
1046 Ext., Ames.

1047

1048 Clark, R.C., et al. 1969-1970. [Year] Iowa soybean yield test report. AG-18. Iowa State Univ. Agric. Ext.,
1049 Ames.

1050

1051 Clark, R.C., W.R. Fehr, D.L. Gedge, and D.R. Ivers. 1971. Iowa soybean yield test report, 1971. AG-18-
1052 1. Iowa State Univ. Agric. Ext., Ames.

1053

1054 Clark, R.C., W.R. Fehr, J.C. Thorn, L.T. Empig, D.T. Burmood, and D.R. Ivers. 1968. Soybean variety trial
1055 summary – 1968. AG-18-8. Iowa State Univ. Agric. Ext., Ames.

1056

1057 Fehr, W.R. 1967. A new corn belt soybean...it's high yielding...it's early...it's Corsoy. Iowa Farm Sci.
1058 22(5):8-9.

1059 Aimed at farmers, compares the performance of Corsoy with Hark, Amsoy, Hawkeye, Harosoy
1060 63 and Lindarin 63 from 1962-1966.

1061

1062 Fehr, W.R., and R.C. Clark. 1968. New soybean variety - - Calland - - for southern Iowa. Iowa Farm Sci.
1063 23(5):7-8.

1064 Aimed at farmers, this provides details of the new variety and compares its performance with
1065 Wayne and Shelby varieties from 1966-67 in Iowa.

1066

1067 Fehr, W.R., and R.C. Clark. 1969. A new high protein soybean variety. Iowa Farm Sci. 23(12):3-5.
1068 Aimed at farmers, this article provides detailed information on the Provar variety. Includes
1069 performance comparisons with Amsoy, Corsoy and Hawkeye for 1965-1967 in Iowa.

1070

1071 Fehr, W.R., and R.C. Clark. 1969. Rampage: New soybean variety from Iowa. Iowa Farm Sci. 24(5-6):10-
1072 11.
1073 Aimed at farmers, provides information on development and characteristics of Rampage.
1074 Includes comparison information for Rampage, Hark, Wirth and Chippewa 64 in Iowa from 1965-
1075 67 and elsewhere in the U.S. and Canada for 1966-68.
1076
1077 Fehr, W.R., and R.C. Clark. 1969. Wirth: New soybean variety for northern Iowa. Iowa Farm Sci. 24(5-
1078 6):9-10.
1079 Aimed at farmers, provides information on the development of Wirth. Includes comparison of
1080 Wirth with Hark, Rampage, and Chippewa 64 in northern Iowa from 1965-67.
1081
1082 Fehr, W.R., R.C. Clark, J.C. Thorn, and L.T. Empig. 1968. Soybean variety trial summary – 1967. AG-18-
1083 7. Iowa State Univ. Agric. Ext., Ames.
1084
1085 Freed, J.C., et al. 1972-1974. Iowa soybean yield test report, [year]. AG-18. Iowa State Univ. Agric. Ext.,
1086 Ames.
1087
1088 Gogerty, J.K., W.R. Fehr, J.B. Bahrenfus, and W.F. Cady. 1979-1980. [Year] Iowa soybean yield test
1089 report. AG-18. Iowa State Univ. Agric. Ext., Ames.
1090
1091 Henson, P.R. 1928. Yield studies of seventy-five hybrid strains of soybeans. M.S. thesis. Iowa State
1092 College, Ames.

1093 Tests from strains crossed and grown at the variety test plots at Iowa State College in 1922. This
1094 thesis provides yield information for 1926 and 1927 yields, the 2 year average yield, and the
1095 rank within the cross. Hybrid strain yields were compared with Manchu variety yields.

1096

1097 Hughes, H.D. 1941/42. Soybeans through 30 years at the Iowa station. Report on Agricultural Research
1098 (Iowa Agric. Exp. Stn.), 1941/42, pt. 1:19-26.

1099 This was a special report providing a history of soybean experiments in Iowa, 1910-1940. It
1100 does not contain details on specific variety yields; however, it does provide information on
1101 which varieties were recommended in specific time periods. It also lists the individual
1102 researchers and key Iowa State College publications that were published during this time period.

1103

1104 Hughes, H.D., and C.R. Weber. 1943. What about soybeans in 1943? Farm Sci. Reporter 4(1):3-5.

1105 Provides a table comparing soybean variety yields in northern and central Iowa from 1939-1942.

1106 Also contains a good description of how varieties differ and contains information on best
1107 practices for a good crop.

1108

1109 Hughes, H.D., and F.S. Wilkins. 1925. Soybeans for Iowa. Bull. Iowa Agric. Exp. Stn. (228).

1110 Nice 1-page summary with facts about soybeans on page 346. "Soybeans have been under
1111 continuous observation and test at the Iowa station since 1910" (p. 347). Touted as a "safe and
1112 dependable crop." Provides varieties and yields for 1915-1924. Says that 157 varieties of
1113 soybean have been under observation in Ames fields. Very comprehensive, detailed information
1114 on varieties and cultural methods.

1115

1116 Iowa Agricultural Experiment Station. Soybean investigations: Annual report. Iowa Agric. Exp. Stn.
1117 Research Proj. Records. RS 9/2/4, Box 10. Special Collections and Univ. Archives Dept., Iowa
1118 State Univ. Library, Ames.
1119 These are available for a smattering of years including 1937, 1939-1941, 1944-1946. They
1120 contain a wealth of raw data and information on the soybean variety yield tests conducted in
1121 Iowa. The gap in years may be due to lack of staffing. They were authored by Martin G. Weiss
1122 from 1937-1940 and he was called to active duty in the Army on Jan. 3, 1942, so the 1941 report
1123 (written in early 1942) was compiled by Charles Weber. The 1944 and 1945 reports were
1124 compiled by Robert R. Kalton and then the 1946 report was again authored by Charles Weber
1125 when he returned from military leave on July 1, 1946.

1126
1127 Iowa Soybean Association and Iowa Soybean Promotion Board. 1989 and 1992. Soybeans, Iowa's
1128 premier crop: A handbook of soy information. 2 vols. West Des Moines, IA.
1129 Volume I is a 70 page quick visual at-a-glance collection of soybean statistics for Iowa and the
1130 U.S. Iowa statistics include individual county-level production and yields. It also has a wealth of
1131 information on uses (both industrial and food), prices, supply and demand. While it does not
1132 provide variety yield information specifically, it includes summary information of soybean
1133 research results from Iowa State University projects and information on other research
1134 programs funded in Iowa from 1968-1988. Volume II is a 20 page statistical update, including
1135 information related to the Soybean Promotion and Research Checkoff (SPARC) program that
1136 started in 1991.

1137
1138 Iowa Soybean Promotion Board. 2000. The yields project: A reference guide for maximizing yield.
1139 Urbandale, IA: The Board.

1140 Presents findings about factors that limit soybean yields, compiled by researchers from six
1141 universities in five states; funded by the Soybean Research and Development Council. Includes
1142 varieties under investigation, their yields (where available at publication time) and contact
1143 information for the principal investigator for each project.

1144

1145 Iowa State University and Iowa Crop Improvement Association. 2006-present. Iowa's official variety
1146 trials [online]. Available at: <http://www.croptesting.iastate.edu> (verified 31 Aug. 2016.)

1147 At first glance, it looks like the website only provides the most recent 2 years; however, if you
1148 look under either corn or soybean, in the Reports section it will show earlier reports.

1149

1150 Kalton, R.R. 1946. Iowa soybean variety tests, 1939-1945. Agron. 41. Iowa State Univ. Agric. Ext.,
1151 Ames.

1152

1153 Kowalski, R.E. and C.R. Weber. 1967. Soybean varieties: Their development and worth. Iowa Farm Sci.
1154 22(2):40-42.

1155 This summarizes soybean variety development in Iowa up to 1967. It includes discussion of
1156 Amsoy, Hark, and Hawkeye. Focuses on varieties developed in Iowa. Shows differences in yields
1157 from 1930-39 and 1957-66 in Iowa versus the U.S. as a whole.

1158

1159 Mason, H.L., et al. 1981-1985. [Year] Iowa soybean yield test report. AG-18. Iowa State Univ. Agric.
1160 Ext., Ames.

1161

1162 Mighell, A., H.D. Hughes, and F.S. Wilkins. 1934. Soybeans in Iowa farming. Bull. Iowa Agric. Exp. Stn.
1163 (309).

1164 Good history/summary of soybean as concentrate, as hay, and as an emergency crop. Gives best
1165 practices for planting and recommends 5 varieties for Iowa. Provides variety yields starting on
1166 page 161. Recommends looking at *Bulletin* no. 228 for more details on early years of testing.

1167

1168 Rouse, J. 2005-2010. [Year] Iowa crop performance test – soybeans. AG-18. Iowa State Univ. Agric.
1169 Ext., Ames.

1170

1171 Tylka, G.L., et al. 1997-present. Evaluation of soybean varieties resistant to soybean cyst nematode in
1172 Iowa [online]. IPM 52. Iowa State Univ. Ext., Ames. Available at: <http://www.isuscnetrials.info>
1173 (verified 31 Aug. 2016.)

1174 Also known as Iowa State University SCN-resistant soybean variety trials. This is an annual
1175 publication summarizing the results of 9 field experiments located throughout Iowa. Roundup
1176 Ready and non-Roundup Ready varieties are evaluated in northern and central districts. Only
1177 Roundup Ready varieties are included in southern district tests.

1178

1179 Voss, B.K., et al. 1986-1996. [Year] Iowa soybean yield test report. AG-18. Iowa State Univ. Agric. Ext.,
1180 Ames.

1181 Agronomic characters evaluated were yield, estimated processed value per acre, maturity,
1182 height, lodging, emergence score, chlorosis score, and phytophthora. Also evaluated were
1183 protein and oil content as well as hilum, flower and pubescence colors.

1184

1185 Voss, B.K., et al. 1997-2004. [Year] Iowa crop performance test – soybeans. AG-18. Iowa State Univ.
1186 Agric. Ext., Ames.

1187

1188 Voss, B.K. and C.R. Hurburgh Jr. 1994. 1993 Iowa specialty soybean test report. AG 141-3. Iowa State
1189 Univ. Agric. Ext., Ames. Also issued as an insert in the Feb. 1994 issue of Iowa Soybean Review.
1190 Tests were co-sponsored by the Iowa Soybean Promotion Board. They were conducted in 9
1191 locations in Iowa (3 each in Northern, Central, and Southern districts). Agronomic characters
1192 evaluated were yield, maturity, height, lodging, emergence score, chlorosis score, and
1193 phytophthora. Also evaluated were protein and oil content, seed size, lipoxygenase enzyme
1194 activity and hilum color.
1195
1196 Voss, B.K. and J.M. Schlafke. 1995-1996. [Year] Iowa gold specialty soybean test report. AG 141-4 and
1197 AG 141-5. Iowa State Univ. Agric. Ext., Ames. Also issued as an insert in the Feb. 1995 and 1996
1198 issues of Iowa Soybean Review.
1199 Same tests as mentioned for the 1993 specialty soybean test (see entry above).
1200
1201 Weber, C.R. 1944. More, better soybeans. Farm Sci. Reporter 5(1):3-6.
1202 This was aimed at Iowa farmers and focuses on a new variety, Lincoln. Weber is careful to
1203 explain this is not a hybrid, discusses ways to increase yields and the best cultural practices.
1204 Tables on page 6 include a comparison of Lincoln with standard varieties in Iowa from 1940-
1205 1943 and also a comparison of early soybean varieties in Northern Iowa from 1939-1943.
1206
1207 Weber, C.R. 1949. Iowa Soybean Variety Tests, 1943-1948. RSLM 195. Iowa Agric. Exp. Stn. and Iowa
1208 State Coll. Agric. Ext. Serv., Ames.
1209
1210 Weber, C.R. 1956. 2 new and better vegetable soybeans. Iowa Farm Sci. 10(9):13-14.

1211 Aimed at Iowa farmers, this article describes two new varieties, Kim and Kanrich. Weber
1212 provides a table comparing these new varieties with three other varieties from 1951-1955. Data
1213 includes yield, height, shattering percentage, seeds per pound, maturity date, lodging score and
1214 palatability evaluation.

1215

1216 Weber, C.R. 1956. Chippewa - - A new soybean for northern Iowa. Iowa Farm Sci. 10(8):19-20.

1217 Aimed at Iowa farmers, this article provides background information on this new variety,
1218 characteristics and culture. A map showing this variety was really suited to northern counties in
1219 Iowa and only a small sliver of the northern part of the state. A table shows "Record of
1220 Chippewa and Other Varieties in Regional Tests" with combined results from Canada, Indiana,
1221 Illinois, Iowa, Minnesota, Ohio, Pennsylvania, South Dakota and Wisconsin from 1949-1954.

1222

1223 Weber, C.R. 1958. A new soybean – it's FORD! Iowa Farm Sci. 13(5):3-4.

1224 Includes results from Iowa tests from 1951-1957 for Adams, Clark, Ford, and Lincoln varieties.

1225

1226 Weber, C.R. 1965-1966. Iowa soybean variety trial summary, [years]. AG-18. Iowa State Univ. Agric.
1227 Ext., Ames.

1228

1229 Weber, C.R. 1966. A new soybean...Amsoy. Iowa Farm Sci. 20(8):5-6.

1230 Aimed at farmers, this provides detailed information on Amsoy development. It also includes
1231 performance chart for Amsoy, Harosoy, Hawkeye and Ford varieties in Iowa from 1961-65.

1232

1233 Weber, C.R. 1967. Soybean Variety Performance – 1962-66. AG-18. Iowa State Univ. Agric. Ext., Ames.

1234

1235 Weber, C.R. and M.G. Weiss. 1948. Adams – a new soybean. Iowa Farm Sci. 3(5):3-5.
1236 Provides a table showing 5 soybean varieties and yields for 1944-1947 in three regions of Iowa.
1237 Varieties included are: Adams, Lincoln, Illini, Dunfield, and Chief. The article discusses the
1238 development of the Adams variety and ways in which it is “slightly superior” to the Lincoln
1239 variety.

1240

1241 Weber, C.R. and R.R. Kalton. 1947. Iowa Soybean Variety Tests, 1939-1946. Agron. 59. Iowa State
1242 Univ. Agric. Ext., Ames.

1243

1244 Weiss, M.G., C.R. Weber, and R.R. Kalton. 1947. The new Hawkeye soybean. Iowa Farm Sci. 2(5):3-8.
1245 Results of new variety testing, Hawkeye, from 1943-1946 at five locations in northern and
1246 central Iowa. In summary: It matures a week earlier than Lincoln, but is equal to Lincoln in yield
1247 and oil. It matures as early as Richland, stands up as erect, and is suited to the same areas, but
1248 grows 4-5 inches taller and produces 6 more bushels per acre. It also includes comparisons with
1249 Earlyana, Mukden, Dunfield, and Illini varieties.

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1254 **Sugar Beets**

1255

1256 Curtiss, C.F. and J. Atkinson. 1897. Sugar beet growing in Iowa, 1897. Bull. Iowa Agric. Exp. Stn. (37).
1257 Mentions that sugar beet experiments have been carried out at the Iowa station since 1891.
1258 Reports on the results of seed sent out to each county with instructions for growing and then

1259 analyzed the samples of harvested crops sent back to the station. Results are given for each
1260 county. Six varieties of sugar beets were grown on Experiment Station land on six different plots
1261 with varying conditions. For each variety, provides sugar percent and purity percent. The
1262 remainder of the Bulletin details best production practices and plans for the 1898 crop.

1263

1264 Lawson, V. 2008. Sugar beet demonstration. Iowa State Research Farm Progress Reports. Paper 545.

1265 Available at: http://lib.dr.iastate.edu/farms_reports/545 (verified 31 Aug. 2016.)

1266

1267 Lawson, V. 2009. Sugar beet demonstration plantings. Iowa State Research Farm Progress Reports.

1268 Paper 378. Available: http://lib.dr.iastate.edu/farms_reports/378 (verified 31 Aug. 2016.)

1269 Both of these publications report results of experiments with 5 varieties of sugar beets at two
1270 ISU Research and Demonstration Farms in Southeast Iowa. The end goal being to determine if
1271 sugar beets could be grown in this area of Iowa with good yields for use in biofuels production.

1272

1273 Patrick, G.E. 1890. Sugar beets. Bull. Iowa Agric. Exp. Stn. (8):321-326.

1274 Crops grown in 1888-1889, 4 varieties, methods and resulting yields – comparing with those
1275 grown in Kansas and Illinois.

1276

1277 Patrick, G.E. 1895. Sugar beets in Iowa, 1893. Bull. Iowa Agric. Exp. Stn. (28):180-198.

1278 Summarizes, and compares results of, the work of the past 4 seasons, 1891-1894.

1279

1280 Patrick, G.E., and E.N. Eaton. 1891. Sugar beets. Bull. Iowa Agric. Exp. Stn. (12):519-529.

1281 Includes information on 2 varieties planted by the Iowa Agricultural Experiment Station in 1890
1282 and many others supplied by farmers from around Iowa. Also includes an analysis of Nebraska
1283 sugar beets in 1890. Provides suggestions for farmers for best results in future.

1284

1285 Patrick, G.E. and O.H. Pagelson. 1894. Sugar beets in Iowa, 1893. Bull. Iowa Agric. Exp. Stn. (23):925-
1286 939.

1287 Results from Iowa farmers who volunteered to use seed from Germany. Results were “distinctly
1288 better than those of 1892” even with the disadvantage of being planted a month later than
1289 usual due to late arriving seed shipments from Germany. Includes varieties, date of planting,
1290 weights, sugar percent, who grown by and what county.

1291

1292 Patrick, G.E., W.H. Heilman, and E.N. Eaton. 1893. Sugar beets in Iowa, 1892. Bull. Iowa Agric. Exp. Stn.
1293 (20):690-705.

1294 Includes analysis of beets sent in by farmers as well as those grown on station grounds. Ends
1295 with a nice comparison chart of results by variety, including averages. Cautions that samples
1296 were too small to allow conclusions of “considerable size.” Appended are results from USDA
1297 Bulletin no. 33 (by Dr. Wiley), reporting on Iowa beets of 1891.

1298

1299 Wilson, J., C.F. Curtiss, D.A. Kent, and G.E. Patrick. 1891. Sugar Beet Growing. Bull. Iowa Agric. Exp. Stn.
1300 (15):199-205.

1301 Grew beets under 12 different conditions and reported out results: date of planting, variety, soil
1302 conditions, yield, number of beets in sample, weight, percent of sugar in beets, and purity of
1303 juice.

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1307

Wheat and Triticale

1308

1309 Atkins, R.E., et al. 1948-1965. Iowa winter and spring wheat variety tests [years]. Agron. no. 224, 252,

1310 286, 313, 353, 386, 417, 451, 483, 508, 561. Iowa State Univ. Agric. Ext., Ames.

1311 These were annual reports which each covered the preceding 5-years. Results from 9

1312 experiment station farms – 4 north, 3 central, and 2 south – with 10 varieties grown. Each

1313 variety was replicated 3 or 4 times at each location. Provides yearly yield data plus 3 and 5 year

1314 averages for ripening date, height, lodging, test weight and winter survival. Four pages are

1315 devoted to providing short summaries of wheat varieties – both those recommended for Iowa

1316 and other locations in the U.S.

1317

1318 Atkins, R.E., et al. 1966-1973. Iowa winter and spring wheat variety tests [years]. AG-6. Iowa State

1319 Univ. Agric. Ext., Ames. [Title varies: Wheat variety performance, Wheat variety performance

1320 tests]

1321 Results from 5 experiment station farms – 2 north, 2 south, and 1 central (Ames) – with 10

1322 varieties grown 1960-65. Includes information for each variety on ripening date, plant height,

1323 lodging, winter survival, test weight, and yield. Provides multiple year averages for each of these

1324 things. Also includes agronomic characters and disease reaction of varieties.

1325

1326 Atkins, R.E., et al. 1974-1987. Wheat and barley variety tests – [years]. AG-6. Iowa State Univ. Agric.

1327 Ext., Ames.

1328

1329 Atkinson, J. 1900. Winter wheat. Bull. Iowa Agric. Exp. Stn. (51):24-30.

1330 "Yield per acre throughout the state...has been larger from the winter than the spring wheat

1331 crop." Shows data for 1885-1900 and is clearly trying to encourage farmers to grow more winter

1332 wheat. Presents results from 19 varieties planted in Sept. 1899 from seed "procured from

1333 surrounding states and Canada" to show that they are tough enough to survive Iowa winters.

1334

1335 Burnett, L.C. 1912. Winter wheat growing in Iowa. Bull. Iowa Agric. Exp. Stn. (133)

1336 Gives an early history of winter wheat in Iowa, including a large section on Turkish wheat. Also

1337 provides experiment information and yields for 10 varieties of winter wheat and average yield of

1338 varieties of both winter and spring wheat for 1906-1910 in 6 counties in Iowa.

1339

1340 Burnett, L.C. and E.S. Dyas. 1940-1943. Standard community grain trials. Leaflet F.C. (11, 13, 15-16).

1341 Iowa Agric. Exp. Stn., Farm Crops Section.

1342 Leaflet F.C. 11 = *Oats and Wheat Trials, 1938 and 1939.*

1343 Leaflet F.C. 13 = *Oats and Wheat Trials, 1938-1939-1940.*

1344 Leaflet F.C. 15 = *Oats and Wheat Trials, 1939-1940-1941.*

1345 Leaflet F.C. 16 = *Oats and Wheat Trials for 1940-1941-1942.* Jan. 1943.

1346

1347 Clark, J.A., J.H. Martin, K.S. Quisenberry, J.H. Hooker, C.E. Leighty, and C.N. Dubois. 1929. Distribution

1348 of the classes and varieties of wheat in the United States. USDA Dept. Bull. 1498:1-68. Available

1349 at: <https://archive.org/details/distributionofcl1498clar> (verified 31 Aug. 2016.)

1350 Information on Iowa wheat varieties and acreage, 1919 and 1924 are on pp. 9-10.

1351

1352 Curtiss, C.F. 1895. Experimental crop notes, 1894. Bull. Iowa Agric. Exp. Stn. (27):113-119.

1353 Covers winter wheat (press drill vs. common grain drill) and root crops for stock.

1354

1355 Gibson, L., A.J. Schwarte, D. Sundberg, and D.L. Karlen. 2005. Planting date effects on winter triticale

1356 grain yield. Iowa State Research Farm Progress Reports. Paper 1083. Available

1357 at: http://lib.dr.iastate.edu/farms_reports/1083 (verified 31 Aug. 2016.)

1358 Gives a good introduction to triticale and comparison with wheat. Reports on multidisciplinary,

1359 multisite research project on triticale starting in 2001. This research has included variety trials,

1360 management research, cropping system evaluations, soil quality assessments, and livestock

1361 feeding trials. Provides results of trials with 4 varieties from 2001-2005.

1362

1363 Gibson, L., J.L. Jannink, and M.S. Honeyman. 2007. Assessment of triticale varieties for swine feeding

1364 performance, late planting. Leopold Center Completed Grant Reports. Paper 282. Available

1365 at: http://lib.dr.iastate.edu/leopold_grantreports/282/ (verified 31 Aug. 2016.)

1366 Summarizes results of research on Trimark 37812 and NE426GT, two high-yielding grain triticale

1367 varieties. Refers researchers to the full data reported in 7 other publications.

1368

1369 Holland, J.B. and R.K. Skrdla. 1995-1996. Iowa winter wheat variety tests – [years]. AG-6. Iowa State

1370 Univ. Agric. Ext., Ames.

1371

1372 Holland, J.B. and R.K. Skrdla. 1997-1998. Iowa crop performance test--wheat – [years]. AG-6. Iowa

1373 State Univ. Agric. Ext., Ames.

1374

1375 Patrick, G.A. 2008. 2008 Wheat and triticale variety tests. Iowa State Research Farm Progress Reports.

1376 Iowa State Univ. Ext., Ames. A summary is available online

1377 at: http://lib.dr.iastate.edu/farms_reports/612. Full-text available in Iowa State Univ., Library
1378 Archives as part of the Northwest Research Farm and Allee Demonstration Farm reports.
1379 Thirty three varieties were included in the 2008 winter wheat and triticale variety test at
1380 Sutherland. Each variety was sown in three different plots to average the effects of soil
1381 variability. The varieties were planted September 28, 2007 at a rate of 1½ bushels/acre. The
1382 plots were harvested on July 22, 2008.

1383

1384 Reitz, L.P. and S.C. Salmon. 1959. Hard red winter wheat improvement in the plains: A 20-year
1385 summary. USDA Tech Bull. (1192). Available
1386 at: <https://catalog.hathitrust.org/Record/009790832> (verified 3 October 2016.)

1387 This is an excellent listing of data on red winter wheat varieties from experiment station
1388 research throughout the Great Plains. Experiments taking place at Ames, Iowa are included in
1389 the data provided.

1390

1391 Reitz, L.P. and L.W. Briggie. 1960. Distribution of the varieties and classes of wheat in the United States
1392 in 1959. USDA Stat. Bull. (272). Available at: <https://catalog.hathitrust.org/Record/007135075>
1393 (verified 3 October 2016.)

1394 This provides tables and figures showing locations in the U.S. that were growing each variety of
1395 wheat in 1959. It also shows historical figures for percentage of the total wheat acreage
1396 occupied by each variety from 1919-1959 and actual acreage figures for 1954 and 1959. Iowa
1397 wheat variety data is located on pages 14, 24-25, 68-69, 79. Table 1 is in alphabetical order by
1398 U.S. State and Table 2 is in order by variety name.

1399

1400 Skrdla, R.K., et al. 2002-2007. Iowa Crop Performance Test—Winter Wheat and Winter Triticale [years].
1401 AG-6. Iowa State Univ. Agric. Ext., Ames.
1402 In 2004 and 2005 – 13 varieties of triticale and 21 varieties of wheat; 2006 – 13 triticale and 19
1403 wheat varieties.
1404
1405 Skrdla, R.K., and J.L. Jannink. 1999-2001. Iowa Crop Performance Test—Winter Wheat, [years]. AG-
1406 6. Iowa State Univ. Agric. Ext., Ames.
1407
1408 Skrdla, R.K. and K.J. Frey. 1989-1994. Wheat and Barley Variety Tests – [years]. AG-6. Iowa State Univ.
1409 Agric. Ext., Ames.
1410
1411 Speer, R.P. 1889. Experiment station wheat and oats in 1889. Bull. Iowa Agric. Exp. Stn. (6):199-203.
1412 Includes information on varieties, yields and issues related to rust and soil changes over time.
1413
1414 Wheat, J.G., et al. 1957-1959. Iowa winter and spring wheat variety tests, [years]. Agron. (417, 451,
1415 483) . Iowa State Univ. Agric. Ext., Ames.
1416
1417 Wilson, J., C.F. Curtiss, and D.A. Kent. 1891. Winter wheat. Bull. Iowa Agric. Exp. Stn. (15):289-291.
1418 Includes crops from 1891, 14 varieties, date harvested, yields, and characteristics of heads.
1419
1420 Wilson, J., and C.F. Curtiss. 1892. Winter wheat. Bull. Iowa Agric. Exp. Stn. (19):613.
1421 Single page report of experiment with varieties of winter wheat planted in September 1891 (late
1422 due to fall drought). No detail on yields for each variety – only gives variety yield ranges. “Yield

1423 of above varieties in 1891 ranged from 8 to 40 and 1/3 bushels per acre, mostly of good

1424 quality.”

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