Bioresource Engineering Department Photograph Collection (P 106)

Inventory

NOTE: All negatives and large format color transparencies are stored separately at 2/3/8

(P shelves - Box 1)

1-6 From Harvesting and Farm Seed 1956 annual report:
- 1 Suction harvester for seed showing rotating finger ground scratcher [S-67-7-55]
- 2 Suction harvester in field, showing close-up of vibrating finger agitator [S-73-9-55]
- 3 Suction harvester in field, showing front view of rotating chain agitator [S-74-9-55]
- 4 Suction harvester in field, showing front view of rotating brush agitator [S-76-9-55]
- 5 Commercial electrostatic separator for minerals [S-85-4-56]
- 6 Portable hoist modified to serve as elevator [S-86-4-56]

7-9 Case combine and tractor [from in Small Seed Harvesting 1958 annual report; S-106-7-57, S-107-7-57, S-108-7-57]

10-11 From Small Seed Harvesting & Processing Investigations 1962 annual report:
- 10 First model of mechanical vibrator feeder driven with and electric motor and cam [S-262-11-60]
- 11 Mechanical vibrator feeder [S-280-8-61]

12-15 From Harvesting and Farm Seed 1956 annual report:
- 12 Seed cleaning lab [S-78-4-56]
- 13 High-speed screening device for seed [S-87-4-56]
- 14 Draper seed separator [S-81-4-56]
- 15 Electrostatic seed separator developed by graduate student

16-17 Small seeds researcher conducting field investigations [from Small Seed Harvesting & Processing Investigations 1962 annual report; S-285-9-61]

18 Seed blender [from in Harvesting and Farm Seed 1956 annual report; S-79-4-56]

19-22 From in Small Seed Harvesting & Processing Investigations 1962 annual report:
- 19 Seed separating equipment? [S-155-1-59]
- 20 Small seeds researcher in the field [S-288-9-61]
- 21 Equipment [S-282-8-61]
- 22 Small seeds researcher in the field [S-289-9-61]

23-24 From Small Seed Harvesting 1960 annual report:
- 23 Cutting seed crop with a tractor and attachments [S-208-9-59]
- 24 Combine [S-210-9-59]

25-34 From Small Seed Harvesting 1961 annual report:

25-27 Combining seed crops at Hyslop farm? [S-252-8-60, S-254-8-60, S-249-8-60]
28 Close-up view of a seed combine [S-251-8-60]
29 Researcher in the field [S-257-8-60]
30-34 Equipment [S-271-3-61, S-270-3-61, S-258-10-60, S-230-4-60, S-155-1-59]

35-39 Seed dryer manufactured by Arnold Dryer Company, ca. 1955

40-42 Cattle branding squeeze chute
43-49 Truck loading chute; J. S. Guttridge

50 Case A-6 combine, 1959 [S-210-9-59]
50a Case A-6 combine, 1957 [S-108-7-57]

51-55 From 1951 Fiber Flax Processing Investigations annual report:
51 Harvesting flax (color print)
52 Flax processing, 1946 [FX-323-11-46]
53 Flax processing, 1950 [FX-419-11-50]
54 Loading flax on trailer [FX-422-51]
55 Santiam flax processing plant, Jefferson, Oregon; pilot plant for fiber flax processing research project [FX-415-11-50]

56-61 From report on 3rd National Potato Conference, Grand Forks, ND, March 1951:
56 Flatt 2-row separator
57 Noffsinger 1-row combine
58 Bean 1-row combine
59 Lockwood 1-row combine
60 Advanced bin loader
61 Dahlman 2-row potato combine

62 Harvested flax straw drying in field in wigwams, Benton County flax mill, Sept. 1943 [from 1950 Fiber Flax Processing Investigations annual report; FX-202-9-43]

63 Case Combine, July 1957 [from progress report on A-6 Case combine; S-106-7-57]

64 Flax loader [from 1950 Fiber Flax Processing Investigations annual report]

65-74 Testing the Arnold Portable Dehydrator [from report, summary of Dehydration Tests of Arnold Portable Dehydrator, August 1948]

75-88 From Agricultural Handbook - Seed Cleaning and Handling, June 1959:
75-86 Seed cleaning and handling equipment
87 Seed warehouse [S-187-5-59]
88 C. M. Volkman & Co. seed store and warehouse [S-184-5-59]

89-94 From 1947 Fiber Flax Processing Investigations annual report:

89 Experimental flax puller equipped with double needle binder and separator stop, July 1946 [FX-288-7-46]
90 Oregon City Foundry new flax puller, 1946 (photo by Leo F. Simon)
91 Flax deseeder binder with separator stop, Mt. Angel Flax Growers Plant, 1946 [FX-304-10-46]
92 Bacteriology lab retting apparatus used in flax retting studies, Oregon State College, 1947 [FX-336-4-17]
93 Galvinometer, thermocouple, and recording thermometers as installed in the Northwest Flax Production Plant during test, July 1946 [FX-278-7-46]
94 Inclined scutcher feed table equipped with conveyors and butters, Washington County Flax Growers Plant, Cornelius, Oregon, Nov. 1946 [FX-320-11-46]

95 Beetling, scutching and hackling flax; from an old engraving [FX-334-3-47]

96 Electric Steam Boiler dairy sterilizer
97 Dairy water heater

98 Irrigation pump, 7 1/2 h.p.
99 Irrigation of clover pasture, Tillamook County
100 Leveling strips for flood irrigation in Clackamas County, Stahely Bros. 20 acres

101 Silage cutter, 4 tons per hr. with 5 h.p. electric motor at Oregon State College Dairy Barn; farm truck at left, 1929

102 Bob Warrens with 10 h.p. irrigation pump & motor
103 Portable irrigation unit for celery irrigation by flooding, C. K. Ogura farm, Marion County, ca. 1935

104 Electric hotbed, ca. 1935

105 Cows in pasture of ladino clover, Stahely Bros.

106 Hay chopping, Oregon State College Dairy Barn, 1929 (photo by Howell's Studio)
107 Automatic feed grinder installation in OAC Poultry Plant, May 1928 (photo by George Kable, Corvallis)

108 Irrigating corn

109 Ensilage cutter with 5 hp GE motor, Robert Clark farm, Salem, Fall 1935 (see P106:115)

110 Turkey poults in electric brooder with C. J. Hurd, Fred Wiese farm, Corvallis, 1930 (photo by F. Earl Price)

111 Preparing strip borders for flood irrigation, Stahely Bros., Clackamas

112 DeLaval cream separator, 1925 (photo by Graves Studio)

113 Wood Bros. electric brooder for turkeys, ca. 1930

114 Electrically operated bull exerciser, with P. M. Brandt and J. J. Van Kleek, OSC campus

115 Ensilage cutter on Robert Clark farm, Fall 1935 (see also P106:109)

116 Sow and piglets

117 Electric pig brooder

118 Leveling strips for flood irrigation, Taylor Guernsey Dairy Farm

119 Strawberry plant - Corvallis variety, ca. 1940
120 Strawberry plant - Ettersburg variety, ca. 1940
121 Preserve cooker on scale, ca. 1940
122 Vacuum pan for cooking preserve
123 Vacuum sealing machine

124 Refractometer for determination of soluble solids

125 Rod type wheel guard and vine lifter with nozzle attachment
126 Solid shield vine parters with rod wheel guards
127 Tractor sprayer showing power take-off and front wheel guards
128 Line shaft on side of tractor also 55 model vine lifters on rear wheel
129 Open framework spring steel vine lifter and wheel guards

130 Crop dusting -- TBM in low flight application showing spray curtain from win tip boom segment
131 Crop dusting -- TBM making spray application for mid-wing boom segment pattern studies
132 Crop dusting -- N3N airplane dust application with extended distribution tubes
133 Air turbulence study equipment on runway
134 Government-owned N3N making flight over water pan and captive balloons in study on air turbulence

135 12-foot spray boom mounted on rear of tractor; parallel piped boom adjustment
136 Rear view of duster with semi-circular hooded boom during heptachlor dust application
137 Front view of hood boom duster during application of heptachlor dust on clover plots
138 Rear view of dust distributors showing take-off to distributor tubes and hydraulic gate opener
139 Front view of airplane showing dust tubes extended
140 Air scoop to airplane dust distributor showing throat divisions
141 Top view of fluted rotor for metering dust and showing porous air tubes mounted

142 Ground duster metering gate & shut-off
143 Dust metering gate used with tractor mounted duster
144 Crop dusting -- Government-owned N3N showing dust and spray installation

145-147 [no images with these numbers]

148 First model of mechanical filbert harvester, Agricultural Experiment Station, 1943

149 Commercial inclined draper, 1959 [S-196-5-59]

150-153 Illustrations from Rudinsky's paper on Balsam Wooly Aphid.

154 Square and round minors tested in tension
155 Round minor set in grips ready for testing
156 Grips for square minors designed after those in TM-112
157 Grips for round minor specially designed for the side study
158 Standard jig for making the tension parallel to grain minors (similar to TM-112)
159 New air-operated jig for making tension minors

160 Six 2"x4" douglas fir, dimension showing tension failure and plywood plates on ends
161-162 Close-up photos of 2"x4"s showing failure
163 Douglas-fir, Oregon white oak and grass vegetation types on the McDonald Forest; soil on the grass in foreground is a Cove clay
164 Non-forested opening on the McDonald Forest bordered by Oregon white oaks and mixed Douglas-fir/white oak types; soil is Climax clay
165 Cut-over Douglas-fir stand in McDonald Forest with thick ground cover of grass, bracken fern and blackberry; soil is Aiken clay loam

166 Agriculture fair, 1922 (4x5 copy negative only)

167-249 Harvesting equipment and laboratory analysis of grass & cover crop seed:
- 167 [S-82-4-56]
- 168 [S-83-4-56]
- 169 Researchers in seed cleaning lab [S-78-4-56; see also P 106:12]
- 170 Draper seed separator in seed cleaning lab [S-81-4-56; see also P 106:14]
- 171 Seed blender [S-79-4-56; see also P 106:18]
- 172 Electrostatic separator for minerals [S-85-4-56; see also P106:5]
- 173 [S-84-4-56]
- 174a High-speed screening device for seed [S-87-4-56; see also P 106:13]
- 174b Mist-O-Matic [S-88-4-56]
- 175 [S-89-4-56]
- 176 Case tractor pulling thresher [S-10-7-53]
- 177 Tractor pulling thresher [S-13-7-53]
- 178 Massey-Harris combine [S-14-7-53]
- 179 Massey-Harris thresher [S-1-7-53]

180 John Deere thresher [S-4-7-53]
181 Thresher [S-6-7-53]
182 Farmall tractor pulling Case thresher [S-55-8-54]
183 Tractor pulling Dearborn combine [S-12-7-53]
184 Oliver combine [S-8-7-53]
185 Massey-Harris thresher [S-15-8-53]
186 Thresher [S-16-8-53]
187 John Deere tractor pulling Case thresher [S-17-9-53]
188 Tractor pulling combine [S-18-9-53]
189 Tractor pulling combine [S-19-9-53]
190 Top view of experimental field reclaimer for shattered seed [S-71-7-55]
191 Experimental Field reclaimer for shattered seed with brush cover in place [S-66-7-55; used in 1955 Seed Harvesting Investigations annual report]
192 Suction harvester for seed showing rotating finger ground scratcher [S-68-7-55]
193a Suction harvester with rotating brush agitator in crimson clover field, front view [S-76-9-55; see also P 106:4]
193b Suction harvester in crimson clover field, showing front view of rotating chain agitator [S-74-9-55; see also P 106:3]
194 Suction harvester in crimson clover field, showing close-up of vibrating finger agitator [S-73-9-55; see also P 106:2]
195 Remodeled suction harvester with rotating chain agitator in crimson clover field [S-99-8-56]
196 Cockshutt suction? harvester [S-137-8-58]
197 Tractor pulling Case suction? harvester [S-108-7-57]
198 Case suction? harvester [S-109-7-57]
199 Tractor pulling suction harvester in field [S-110-7-57]
200-201 Farmall tractor pulling suction harvester
202 Looking at straw refuse from harvester
203-204 Suction harvester in action
205 Farmall tractor pulling suction harvester
206 Remodeled suction harvester with rotating chain agitator in crimson clover field [S-98-8-56]
207 Seed samples? [S-41-9-53]
208 Samples taken from the rack and shoe during the 2-canvas 1953 harvesting test [S-43-9-53]
209 Processing the combine rack sample in laboratory to recover unthreshed, damaged, and threshed seed to determine the rack and cylinder losses [S-44-5-54; used in 1955 Seed Harvesting Investigation annual report]
210 [S-45-5-54]
211 [S-46-5-54]
212 Bagging seed samples [S-47-5-54]
213 Separating seed from straw by hand [S-48-5-54]
214 [S-50-5-54]
215 Analyzing seed samples [S-51-5-54]
216 Sorting seed samples in the laboratory to analyze the loss and damage [S-52-5-54;

used in 1955 Seed Harvesting Investigation annual report]

217 Test truck loaded with samples and equipment at the completion of the experiment [S-59-8-54; used in 1955 Seed Harvesting Investigation annual report]

218 Equipment tray in test truck [S-60-8-54]

219 Cutting samples by hand in the field [S-23-8-53]

220 Cutting samples by hand in the field [S-24-8-53]

221 Cutting samples by hand in the field [S-25-8-53]

222 Cutting samples by hand in the field [S-26-8-53]

223 Bagging seed samples in the field after cutting [S-27-8-53]

224 Preparing to vacuum plot area [S-28-8-53]

225 Vacuuming plot area to collect shatter losses [S-29-8-53]

226 Bagging the vacuumed seed sample [S-30-8-53]

227 Vacuuming 1/1000 acre plot to collect shatter losses; test truck with generator and equipment drawer in background [S-58-8-54; used in 1955 Seed Harvesting Investigation annual report]

228 Adjusting vacuum harvester [S-32-9-53]

229 Running combine harvesting test with Case harvester pulled by a tractor in alta fescue using the two canvas method and 1/100 acre section of the field [S-56-8-54]

230 Holding 2 canvasses in position to catch straw walker material on one and shoe material on the other over a measured distance in windrowed highland bentgrass [S-34-8-53]

231 Collecting combine sifting loss sample from a Massey-Harris harvester in bent grass harvesting using the canvas and 1/100 acre plots [S-35-8-53]

232 Bagging straw material collected on canvas [S-36-8-53]

233 Samples taken from a single test to determine the seed production, loss, and damage in harvesting alta fescue [S-37-9-53]

234 Combining a grass field [S-2-7-53]

235 Windrowing a grass field with John Deere equipment [S-3-7-53]

236 Windrowing a grass field [S-20-8-53]

237 Harvesting equipment in grass field [S-21-8-53]

238 Harvesting equipment in grass field [S-22-8-53]

239 Windrowing grass onto paper [S-93-8-56]

240 combining lotus that has been windrowed on paper [S-95-8-56]

241 Seed sample on paper [S-96-8-56]

242 Seed equipment [S-53-5-54]

243 Seed equipment [S-54-5-54]

244 Seed equipment [S-61-9-54]

245 Plot thresher with cover removed exposing the adjustable sive for cleaning between seed lots [S-63-11-54; used in 1954 Seed Harvesting Investigations annual report]

246 Plot threshing machine [S-65-11-54]

247 Plot threshing machine with graduated air, cylinder speed and clearance, and screen opening as well as special features for ease of cleaning between plots [S-64-11-54; used in 1954 Seed Harvesting Investigations annual report]

248 Plot thresher with cylinder in open position exposing the cylinder and bars for ease of cleaning between seed plots [S-62-11-54; used in 1954 Seed Harvesting

Investigations annual report]
249 Flax puller

250-252 [no images with these numbers]

253-256 Hopper bottom bin for flat-bed trucks built by W.C. Lewis & Son, Rickreall, Oregon

257 Model "M" tractor with #51 mower cutting second cutting of 2 1/2 ton per acre of alfalfa hay; James McDonald operating machine on the Sorensen ranch, Ellensburg, Washington (promotional photo from John Deere Plow Co.)
258 #51 mower with model "M" tractor mowing Timothy and grass hay four tons per acre on Jim McDonald ranch--young McDonald operating, Ellensburg, Washington (promotional photo from John Deere Plow Co.)

259-260 Desk and display rack for plans

261-262 Jensen beet thinners machine developed by Vernal Jensen and Coulson Parrish of the research and development section of the Amalgamated Sugar Company; a self-propelled, four-row vehicle to carry sugar beet blockers and thinners as they work. (12x17 oversize box)

263 Fox Field Harvester and Field Trailer harvesting grass silage at the J. J. Astor Experiment Station, Astoria, Oregon (photo by A.N. Thorndike, Astoria)

264-266 Cattle chutes
267 Fencing and gates (2 images; 12x17 oversize box)

268-279 Illustrations from publication on hay drying in Oregon by Dale E. Kirk including dryers, blowers, and storage structures, ca. 1950

280 Exhibit panel, “Industrial Uses of Farm Crops - Fiber Flax,” showing production steps; prepared by the Bureau of Agricultural Chemistry and Engineering of the U.S. Department of Agriculture, ca. 1940 (oversize cabinet drawer 7)

281 [duplicate print moved to FX-269-6-46]

282-283 Self-propelled flax puller (photos by Leo F. Simon, Portland; see FX-311-10-46 for another view)

284-287 [duplicate prints transferred to locations with like prints]

288 Scutching wheel demonstrating how the knives strike the fiber when in operation, 1925 (Photo by Canadian Government Motion Picture Bureau & provided to W.M. Hurst by the Canadian Dept. of Agriculture)

289-298 Photos from report on performance of the experimental bundle spreading device in handling retted fiber flax bundles by University of Minnesota, 1946:

289 General view of the experimental bundle spreading device showing a bundle entering at the right and spread material being discharged.
290 Bundle spreading machine showing the primary and secondary spreading forks.
291 Bundles as received from the USDA laboratory with identification numbers as used in report.
292 Bundle no. 5 after it had passed through the machine.
293 Bundle no. 2 as it was discharged by spreading device.
294 Bundle no. 3 after spreading. Some material was cut from each end of the bundle prior to spreading.
295 Bundle no. 4 after spreading.
296 Bundle no. 4 with board tilted to obtain a near-top view.
297 Bundle no. 6. The ends of this bundle were combed before spreading.
298 Bundle no. 8. Eight inches were cut from the butt end and a small tuft removed from the head end prior to spreading.

299-301 Illustrations for deseeding circular (5x7 negatives only, 299-300; negative and print for 301)

(16x20 oversize box)

302-312 Agricultural Engineering Graduates, 1952-1964; composites of individual b/w portrait photographs:

302 Class of 1952 - Agricultural Engineering
303 Class of 1953 - Agricultural Engineering
304 Class of 1955 - Gen. Agriculture with Agric. Engineering Emphasis
305 Class of 1956 - Gen. Agriculture with Agric. Engineering Emphasis
306 Class of 1957 - Gen. Agriculture with Agric. Engineering Emphasis
307 Class of 1958 - Mechanical Technology in Agriculture
308 Class of 1958 - Agricultural Engineering
309 Class of 1959 - Agricultural Engineering; includes L. Edwin Coate (OSU VP for Finance & Administration, 1986-1992)
310 Class of 1961 - Mechanical Technology in Agriculture
311 Class of 1963 - Mechanical Technology in Agriculture
312 Class of 1964 - Mechanical Technology in Agriculture

(P shelves - box 1)

313 Unidentified equipment (2 views)

314 Radiation trailer, Oregon State University Extension Service, ca. 1970 (color slide)

315-316 Small tractor pulling spray rig, August 1978 (color slides)

317-319 Lily fields, August 1978 (color slides)

Unnumbered images:
- Hops field (print only)
- Crane loading harvested hops vines? onto wagons (copy print only)
- Trees covered with snow

(P shelves - Box 2)
Equipment for Harvesting and Processing Horticultural Crops (Accession 96:013):
- Strawberries, 1962-1980 [4 folders]
- International Projects:
  - Tunisia, 1976
  - Iran, 1976
  - Turkey, 1976
- Other University Campuses and Agricultural Facilities:
  - Don Pedro Dam, 1962 & 1969
  - University of Illinois, 1966
  - Iowa State University, 1966
  - University of Arkansas, 1970
  - University of California at Davis, 1963 & 1967

(P shelves - Box 3)
- Caneberries and Blueberries, 1960-1972 [2 folders]
- Various Crops [2 folders]:
  - Rangeland views, 1956-1962
  - Seed cleaning equipment, 1959-1964
  - Terra tires on tractors and sprayers, 1962
  - Tractors, 1964-1980
  - Field burners, 1971-1976
  - Tomato harvesters, 1962-1972
  - Combines and Hanson rotary separator, 1967-1979
  - Strip-till-plant, 1977 & 1979
  - Shipley shaker for cherries, 1962-1963
  - Harvesting hay, undated
  - Pea harvesting, 1962-1971
  - Asparagus harvesters, 1952-1972
  - Onion harvesting, Lake Labish, OR, 1962-1972
  - Tree planter, 1974
  - Rangeland seeder, 1956-1958
  - Bush and pole bean harvesters, 1961-1976
- Diagrams, Charts, and Photographs of Equipment, 1962-1979 (several from John Deere)

(P shelves - Box 4)
Flax Photographs, 1938-1959 (Accession 96:031):
- [negatives are 5x7 unless noted otherwise and most prints are 5x7; negatives and color transparencies stored separately at 2/3/8]

Index cards
FX 1-7-38 BPI flax lab, Granger, Oregon (photo by W. M. Hurst; negative and print)
FX 2-7-38 BPI flax lab, Granger, Oregon (photo by W. M. Hurst; negative and 2 prints)

FX 3-7-38 Vessot flax puller on Nelson Gilmore's farm, Talbot, Oregon (2 prints)
FX 4-7-38 Soenen's flax puller on Dave Turnagres farm, Talbot, Oregon (photo by W. M. Hurst; negative and 4 prints)

FX 5-7-38 BPI flax lab, Granger, Oregon (photo by W. M. Hurst; negative and 2 prints)

FX 6-7-38 [no negative or prints]

FX 7-7-38 BPI flax deseeder for plot work, Granger, Oregon (photo by W. M. Hurst; negative and 3 prints)

FX 8-7-38 Truck power take-off binder for binding flax on drying field, Springfield, Oregon (negative and 5 prints)

FX 9-7-38 Filling retting tank, Canby, Oregon (negative and 2 prints)
FX 10-7-38 Flushing retting tanks, Canby, Oregon (negative and 2 prints)
FX 11-7-38 Grates and timbers for holding flax under water for retting (negative and 7 prints)
FX 12-7-38 Flax storage sheds with bales of tow at end of building, Canby, Oregon (negative and 2 prints)

FX 13-7-38 Heavy timbers on grates for holding flax under water in retting tanks, Springfield, Oregon (negative and 5 prints)

FX 14-7-38 De-seeding bundles of flax - BPI, Granger, Oregon; rollers turn inward (negative and 3 prints)

FX 15-7-38 Filling retting tanks, Springfield, Oregon (photo by W. M. Hurst; negative & 2 prints)
FX 16-7-38 Gravel pit used for retting water disposal, Springfield, Oregon (negative & 2 prints)

FX 17-7-38 Scutching, deseeding and threshing shed, Canby, Oregon (negative and 2 prints)

FX 18-8-38 Retting tanks, Springfield, Oregon (negative and 5 prints)

FX 19-8-38 Vessot flax puller on Arnold Melhum's farm (negative and 2 prints)
FX 20-8-38 Vessot flax puller in operation on Arnold Melhum's farm, Canby, Oregon (photo by William M. Hurst; negative and 2 prints)
FX 21-8-38 Vessot flax puller on Arnold Melhum's farm, Canby, Oregon (2 prints)

FX 22-8-38 Binding flax on drying field, Canby, Oregon (negative and 2 prints)
FX 23-8-38 Binding flax on drying field, Canby, Oregon (negative and 2 prints)
FX 24-8-34 Binding retted flax on drying field, Canby, Oregon (negative and 2 prints)
FX 25-8-38 Binding retted flax straw on drying field, Canby, Oregon (photo by W. m. Hurst; negative and 2 prints)
FX 26-9-38 Corn plant irrigated with retting water, Canby, Oregon (photo by George Stafford; negative and 2 prints)
FX 27-9-38 Grass plot irrigated with retting water, Canby, Oregon (photo by George Stafford; negative and 2 prints)

FX 28-9-38 Grass plots irrigated with retting water, Canby, Oregon (photo by George Stafford; negative and 2 prints)
FX 29-3-39 Experimental tow shaker, Canby, Oregon (print only)
FX 30-3-39 Experimental tow shaker, Canby, Oregon (photo by W. M. Hurst; negative and 4 prints)
FX 31-3-39 Experimental fiber flax deseeder, Canby, Oregon (photo by W. M. Hurst; 3 prints)
FX 32-3-39 Experimental fiber flax deseeder on trailer (3 prints)

FX 33-6-39 Irrigated plots of flax, Granger, Oregon (photo by W. M. Hurst; negative & 4 prints)
FX 34-6-39 Plots of flax, potatoes and corn irrigated with retting water, Granger, Oregon (negative and 3 prints)
FX 35-6-39 Southeast end, fiber flax lab and storage shed, Granger farm, under construction (photo by W. M. Hurst; negative and 2 prints)
FX 36-6-39 Northwest end, fiber flax lab, storage shed, and boiler room under construction, Granger, Oregon (photo by W. M. Hurst; negative and 2 prints)
FX 37-6-39 Irrigated plots of flax, potatoes, and corn, Granger, Oregon; retting water disposal experiments (negative and 2 prints)
FX 38-7-39 Soenens flax puller on Joe Bernt's farm, Mt. Angel, Oregon (5 prints)
FX 39-7-39 Soenens flax puller on Joe Bernt's farm, Mt. Angel, Oregon (negative & 2 prints)
FX 40-7-39 Soenens flax puller on Joe Bernt's farm, Mt. Angel, Oregon (photo by W. M. Hurst; negative and 2 prints)
FX 41-7-39 Vessot flax puller on M. Weinacht's farm (negative and 2 prints)
FX 42-7-39 Soenens flax puller on Joe Bernt's farm, Mt. Angel, Oregon (photo by W. M. Hurst; negative and 2 prints)
FX 43-7-39 Soenens flax puller on Joe Bernt's farm, Mt. Angel, Oregon (photo by w. M. Hurst; negative and 2 prints)
FX 44-7-39 Soenens flax puller on Joe Bernt's farm, Mt. Angel, Oregon (negative & 2 prints)
FX 45-7-39 Vessot flax puller on M. Weinacht's farm, Mt. Angel, Oregon (negative and 5 prints)
FX 46-7-39 Soenens flax puller on Joe Bernt's farm, Mt. Angel, Oregon (photo by W. M. Hurst; negative and 2 prints)
FX 47-7-39 Flax straw storage shed (south), Mt. Angel, Oregon (photo by W. M. Hurst; negative and 2 prints)
FX 48-7-39 Flax straw storage shed (north), Mt. Angel, Oregon (negative and 2 prints)

FX 49-8-39 Soenens flax puller in field of flax and weeds, Lester Burley's farm, Canby, Oregon (photo by George R. Stafford; negative and 2 prints)
FX 50-8-39 Flax pulled by Soenens machine; note oats and dirt on roots & rye grass standing (photo by George R. Stafford; negative and 2 prints)

FX 51-8-39 Soenens flax puller on J. T. Bagard's farm, Springfield, Oregon (photo by W. M. Hurst; negative and 2 prints)

FX 52-8-39 Soenens flax puller location at Lester Burley's farm, Canby, Oregon; note rough ground, rye grass, and other weeds in flax (photo by George R. Stafford; negative and 2 prints)
FX 53-8-39 Flax field on Lester Burley's farm, Canby, Oregon, showing difficult pulling conditions, weeds and rough ground (photo by George R. Stafford; negative and 2

prints)

FX 54-9-39 Fiber flax lab, Granger, Oregon (negative and print)
FX 55-9-39 Straw storage shed and boiler room, flax lab, Granger, Oregon (negative & 2 prints)
FX 56-9-39 Fiber flax lab and straw storage shed, Granger farm (negative and print)
FX 57-9-39 Fiber flax drying field and lab, Granger, Oregon (3 prints)

FX 58-8-39 Soenen's deseeder installed at Mt. Angel, Oregon (negative and 3 prints)

FX 59-8-39 Filling retting tank -- pitching bundles from wagon, Canby, Oregon (photo by Walker; 6 prints)
FX 60-8-39 Filling retting tank, Canby, Oregon, by stacking bundles in tank (photo by Walker; 2 prints)

FX 61-8-39 Filling retting tank, Springfield, Oregon, by stacking bundles in tank (photo by Walker; 5 prints)
FX 62-8-39 Emptying retting tank with a loading elevator, Springfield, Oregon (photo by Walker; 6 prints)
FX 63-8-39 Emptying retting tank and loading bundles on wagon, Springfield, Oregon (photo by Walker; 2 views -- 6 prints for each)

FX 64-8-39 Emptying retting tank; loading elevator in tank, Canby, Oregon (photo by Walker; negative and 8 prints)
FX 65-8-39 Emptying retting tank and loading wagon, Canby, Oregon (photo by Walker; negative and 3 prints)
FX 66-4-40 Experimental scutcher set up at Canby, Oregon (negative and 2 prints)

FX 67-4-40 Experimental deseeder #2 discharge side, OSC campus (photo by W. M. Hurst; negative and 2 prints)
FX 68-4-40 Experimental deseeder #2 feed side (negative and 2 prints)
FX 69-4-40 Experimental deseeder #2, end with threshing cylinder, OSC (negative & 3 prints)
FX 70-4-40 Experimental deseeder #2, feed side showing clutch lever (2 negatives & 2 prints)
FX 71-4-40 Massey Harris double band trusser, altered, showing drives, OSC (photo by W. M. Hurst; negative and 3 prints)
FX 72-4-40 Massey Harris double band trusser, altered, showing packers and tables, OSC (negative and print)
FX 73-4-40 Massey Harris double band trusser, altered, showing load platform, OSC (photo by W. M. Hurst; negative and 4 prints)

FX 74-4-40 Belgium tow shaker showing drier and metal pins (negative and 2 prints)
FX 75-4-40 Belgium tow shaker showing hopper and cranks (negative and 2 prints)

FX 76-6-40 Rebuilt Vessot puller from front (2 negatives and 2 prints)
FX 77-6-40 Vessot puller from side (2 negatives and 2 prints)

FX 78-6-40 Irrigation plots at Granger, Oregon; furrows of corn, potatoes, flax, and grass watered with retting water (foreground) and fresh water (background) (negative and 3 prints)
FX 79-6-40 Irrigation plots, Granger, Oregon; comparative height of corn after 2-3" irrigation

of retting and fresh water (negative and 2 prints)

FX 80-9-40 Experimental fly shuller loom with worp roll and heddle strings (photo by W. M. Hurst; negative and 3 prints)
FX 81-9-40 Experimental fly shuller loom with sley and clack roll (negative and print)

FX 82-11-40 Breaker-scutcher, feed end (negative and 2 prints)
FX 83-11-40 Breaker-scutcher, side view (?) and rotor in place for tip ends of flax only; first unit and frame for second unit (photo by W. M. Hurst; negative and 4 prints)
FX 84-11-40 Breaker-scutcher drive for tip end unit, showing conveyor belt, roll, and swinging combs (photo by W. M. Hurst; negative and 4 prints)
FX 85-11-40 Scutcher, top and side view of one unit (negative and 2 prints)
FX 86-11-40 Scutcher; side and end view of one unit (negative and 2 prints)
FX 87-12-40 Hackling flax fiber from the scutcher (5 prints)
FX 88-12-40 Feeding fiber flax straw to breaker (2 prints)
FX 89-12-40 Hackling using coarse pegs (negative and 6 prints)
FX 90-12-40 Hackling using fine pegs [no negative or prints]

FX 91-12-40 Breaker-scutcher, discharge side and top view, with one concave in place (negative and print)
FX 92-12-40 Deseeder #3, comb end and top view (photo by W. M. Hurst; negative & 5 prints)
FX 93-12-40 Deseeder #3, root end and feed side (negative and 2 prints)
FX 94-12-40 Deseeder #3, discharge side showing comb and binder drives (negative and 2 prints)
FX 95-2-41 Deseeder #2, entrance side, showing comb, and straw in gripping device (negative and 3 prints)
FX 96-2-41 Deseeder #2, showing straw as fed from machine to binder (negative and 6 prints)
FX 97-2-41 Deseeder #2; straw from deseeder to bundler to elevator and to truck, Springfield, Oregon (photo by W. M. Hurst; negative and 5 prints)
FX 98-2-41 Deseeder #2, feed side with straw on table, Springfield, Oregon (photo by W. M. Hurst; negative and 2 prints)
FX 99-2-41 Deseeder #2, binder and elevator (negative and 3 prints)
FX 100-2-41 Deseeder #2 set up at Springfield, Oregon (negative and 3 prints)

FX 101-5-41 Frame and gear box on rebuilt Vessot flax puller (negative and 2 prints)
FX 102-5-41 Frame for outside pulling assembly on rebuilt Vessot (negative and 2 prints)
FX 103-8-41 Frame for outside pulling assembly showing large idlers in cruler (on one side only) on rebuilt Vessot flax puller (negative and 2 prints)
FX 104-5-41 Rebuilt Vessot flax puller completely assembled (negative and 2 prints)

FX 105-5-41 End view of one unit 1941 breaker-scutcher (photo by W. M. Hurst; negative and 5 prints)
FX 106-5-41 Side view, 1941 breaker-scutcher unit with one rotor in place (negative & 5 prints)

FX 107-4-41 Machine hackling, Salem Linen Mill (photo by John Burtner; 2 prints)
FX 108-4-41 Automatic spreading line fiber — first step after machine hackling, Salem Linen Mill (photo by John Burtner; 5 prints)
FX 109-4-41 Drawing flax fiber, Salem Linen Mill (photo by John Burtner; 2 prints)
FX 110-4-41 Roving — these spools of coarse yarn are ready for spinning, Salem Linen Mill

(photo by John Burtner; 2 prints)
FX 111-4-41 Spinning yarn, Salem Linen Mill (photo by John Burtner; 2 prints)
FX 112-4-41 Carding tow; tow sliver can be seen to left of operator, Salem Linen Mill (photo by John Burtner; 5 prints)
FX 113-4-41 Reeling, Salem Linen Mill (photo by John Burtner; 2 prints)

FX 114-5-41 Watchman's home, Clackamas Flax Growers Association, Canby, Oregon (2 negatives and 3 prints)
FX 115-5-41 Scales and office building, Canby flax plant (2 negatives and 2 prints)
FX 116-5-41 Flax straw storage shed under construction, Canby, Oregon (photo by W. M. Hurst; negative & 3 prints)
FX 117-5-41 Foundation for fiber flax straw storage shed, Canby, Oregon (negative & 3 prints)

FX 118-5-41 Reinforcement for retting tanks, St. Paul, Oregon (negative and 2 prints)
FX 119-5-41 Reinforcement for battery of 8 retting tanks, St. Paul, Oregon (negative & 2 prints)

FX 120-5-41 Buxbaum deseeder assembled and tested at Corvallis shop, May 27, 1941 (photo by W. M. Hurst; negative and 2 prints)

FX 121-6-41 Irrigation ditch to be used for retting; dams will be placed across to form individual "tanks" (negative and 3 prints)
FX 122-6-41 Interior of new flax straw storage shed under construction, Canby, Oregon (negative and print)
FX 123-6-41 Retting water pond, Canby, Oregon; note abundant growth of grass near water; flooding with this water will, however, kill crops (negative and 2 prints)
FX 124-6-41 Oats and rye grass flooded with water from pond shown in FX 123-6-41; all plants are in flooded area (negative and 2 prints)

FX 125-6-41 Flax straw storage sheds under construction, St. Paul, Oregon (negative & 5 prints)
FX 126-6-41 Flax straw storage shed under construction, St. Paul, Oregon (photo by W. M. Hurst; negative & 7 prints)

FX 127-6-41 Flax straw butter for deseeder, experimental (negative and 3 prints)
FX 128-6-41 Experimental flax straw butter for deseeder in operation (negative and 5 prints)

FX 129-7-41 Flax entering gripping device on a Soenens puller (negative and 2 prints)
FX 130-7-41 Guides on dividers pulling wheels, Soenens puller (negative and 5 prints)
FX 131-7-41 Soenens flax puller with experimental vertical binder (negative and 2 prints)
FX 132-7-41 Soenens flax puller in operation on Morse farm near Corvallis (photo by W. M. Hurst; negative and 6 prints)

FX 133-8-41 Binding retted flax straw on drying field, Canby, Oregon (photo by W. M. Hurst; negative and 6 prints)
FX 134-8-41 Binding retted flax straw on drying field, Canby, Oregon (negative and 2 prints)
FX 135-8-41 A load of pulled flax from the farm; stores; Canby, Oregon (negative and 6 prints)
FX 136-8-41 Pulled flax stacked on drying field; crop in excess of shed capacity, Canby, Oregon (negative and 2 prints)

FX 137-8-41 Pulled flax stacked in open because of lack of storage shed capacity, Canby, Oregon (photo by W. M. Hurst; negative and 7 prints)
FX 138-8-41 Retted straw on drying field, Canby, Oregon (negative and 4 prints)
FX 139-8-41 "Wigwams" of retted straw on drying fields, Canby, Oregon (negative and print)

FX 140-10-41 Retted straw binder, Harrisburg, Oregon (negative and 3 prints)
FX 141-10-41 Retted straw binder, Harrisburg, Oregon (negative and 2 prints)
FX 142-10-41 Retted straw binder, Harrisburg, Oregon (negative and 3 prints)
FX 143-10-41 Scales, deseeding shed, scutching building and one shed, Harrisburg, Oregon (negative and 3 prints)

FX 144-11-41 Semi-automatic loom with foot operated heddles (photo by W. M. Hurst; negative and 2 prints)
FX 145-11-41 Semi-automatic loom with foot operated heddles, altered (negative and 2 prints)

FX 146-12-41 Corvallis #4 scutcher under construction (negative and 2 prints)
FX 147-12-41 Corvallis #4 scutcher under construction (negative and 2 prints)
FX 148-12-41 Corvallis #4 scutcher under construction showing breaker (negative and print)
FX 149-12-41 Corvallis #4 scutcher under construction showing rotors (negative and 2 prints)

FX 150-3-42 Corvallis breaker scutcher #1 with V-belt gripping and conveyor device (negative and 2 prints)
FX 151-3-42 Transfer on Corvallis #1 breaker-scutcher (photo by W. M. Hurst; negative and 3 prints)
FX 152-3-42 Take-off on Corvallis #1 breaker-scutcher (negative and 3 prints)

FX 153-5-42 Tow cleaver with reciprocatory breakers, OSC (photo by W. M. Hurst; negative and 6 prints)
FX 154-5-42 Pipe edge slats on tow shaker used with tow cleaver (negative and 3 prints)
FX 155-5-42 Fiber flax combine; A. C. combine, Soenens puller and John Deere binding units (negative and 3 prints)
FX 156-5-42 Fiber flax combine showing rubber crushing rollers for deseeding, feed table to binder and double needle binding unit (negative and 2 prints)

FX 157-5-42 N. W. Flax Products Co. under construction, left to right: office and warehouse, scutching building, boiler room and fuel storage (negative and 2 prints)
FX 158-5-42 N. W. Flax Products Co. mill under construction, left to right: garage, office and warehouse, and scutching building (negative and 4 prints)
FX 159-5-42 N. W. Flax Products Co. mill under construction, left to right: office and warehouse, garage, and scutching building (negative and 2 prints)
FX 160-5-42 Abutments out walls of 6 retting tanks, N. W. Flax Products Co.; forms for a bailery of 6 more tanks to right (negative and 2 prints)
FX 161-6-42 Deseeding building under construction, N. W. Flax Products Co., Eugene, Oregon (negative and 5 prints)
FX 162-6-42 Interior of scutching building under construction, N. W. Flax Products Co., Eugene, Oregon (negative and 4 prints)
FX 163-6-42 South end and east side of 56'x288'x20' (plate) straw storage shed, N. W. Flax Products Co., Eugene, Oregon (negative and 3 prints)
FX 164-6-42 South end of 56'x288'x20' (plate) straw storage shed; showing one of several

elevators under construction to left; N. W. Flax Products Co., Eugene, Oregon (negative and 4 prints)

FX 165-6-42 Interior of straw storage shed, N. W. Flax Products Co., Eugene, Oregon; note braces and cat walk (negative and 2 prints)

FX 166-6-42 Bailery of 6 tanks, top second bailery of 6 to right under construction, N. W. Flax Products Co., Eugene, Oregon; note abutments and common trought for discharge of retting water (negative and 3 prints)

FX 167-6-42 Lower end of bailery of 12--23'x104'x4' tanks formed in irrigation ditch, Flax Growers Association, Harrisburg, Oregon (negative and 3 prints)

FX 168-6-42 Harrisburg Flax Growers Association flax mill, left to right: (2 in sight and 1 hidden from view) scutching bulding, deseeding shed, office, and 12 tank formed in irrigation ditch (negative and 2 prints)

FX 169-8-42 Fiber flax combine on Mr. Ivers farm south of Corvallis (negative and print)

FX 170-8-42 Byberg built Soenens flax puller, rear view (negative and 5 prints)

FX 171-8-42 Byberg built Soenens flax puller, front view (negative and 7 prints)

FX 172-8-42 Sheds and deseeding building under construction, Molalla Flax Growers, Molalla, Oregon (view 1: negative and 4 prints; view 2: negative and print)

FX 173-8-42 Fiber flax combine in operation on Burres farm (negative and 2 prints)

FX 174-8-42 Pulled flax straw moving from pulling units to deseeder on fiber flax combine (negative and 3 prints)

FX 175-8-42 Binding straw and sacking seed on fiber flax combine (2 negatives and 3 prints)

FX 176-8-42 Feeding binder on fiber flax combine (negative and 6 prints)

FX 177-8-42 Fiber flax combine in action on Burres farm (negative and 2 prints)

FX 178-8-42 Pulling units on fiber flax combine (negative and 2 prints)

FX 179-8-42 Seed in bag and bundles ready for retting tanks with fiber flax combine (negative and 3 prints)

FX 180-3-43 Automatic wiper for deseeder comb, deseeder Corvallis #8 (negative and 3 prints)

FX 181-3-43 Drive assembly and automatic wiper for deseeder Corvallis #8 (negative and 2 prints)

FX 182-6-43 Tow shakers and reciprocating flax tow brake for cleaving tow; two of these machines are used in tandem; Corvallis #7 (2 negatives and 5 prints)

FX 183-6-43 Tow cleaver Corvallis #7 showing used automobile ball bearings mounted in board for shakers (negative and 3 prints)

FX 184-6-43 Tow cleaver Corvallis #7 shaker and breaker drive (2 negatives and 2 prints)

FX 185-7-43 Self propelled flax puller with pneumatic gripping device; machine known as "scooter" as it operated at 5-7 miles per hour (negative and 2 prints)

FX 186-7-43 Side view of pneumatic gripping device on scooter (negative and 2 prints)

FX 187-8-43 Scooter pulling flax on Clyde Walker farm (negative and 5 prints)

FX 188-8-43 Rear view of scooter in operation on Clyde Walker farm (2 negatives and 2 prints)

FX 189-8-43 Fiber flax combine equipped with automatic feed for straw to binder (negative and

2 prints)

FX 190-8-43 Finger in position to stop flow of deseeded straw to binder on combine; pressure of straw against finger trips binder (negative and 2 prints)

FX 191-8-43 A tractor mounted puller that did not work; the machine pulled the flax out of the ground, but straw tangled over small gripping belts pulleys over pneumatic tires (negative and 4 prints)

FX 192-8-43 Office and deseeding buildings, N. W. Flax Products Co. (negative and 3 prints)

FX 193-8-43 Office, shed with elevators, garage, and new shed under construction, N. W. Flax Products Co. (negative and 3 prints)

FX 194-8-43 Drying field with mill in background, N. W. Flax Products Co., (negative and 3 prints)

FX 195-8-43 Open ditch to waste land for retting water disposal, N. W. Flax Products Co., (negative and 3 prints)

FX 196-8-43 Retting water open ditch to waste land-trees and brush-for disposal, Northwest mill (negative and 2 prints)

FX 197-9-43 Tractor attached flax puller with pneumatic gripping device (experimental) at a farm near Corvallis, Oregon (photo by W. M. Hurst; negative and 5 prints)

FX 198-9-43 Tractor attached flax puller with pneumatic gripping device showing coslor wheel in rear (negative and 2 prints)

FX 199-9-43 Retting water disposal area in waste swamp land, Benton Co. Mill (negative and 3 prints)

FX 200-9-43 Straw storage shed with elevators, Benton County Mill (negative and 2 prints)

FX 201-9-43 Benton County Flax Mill as viewed from west side of Southern Pacific tracks (negative and 3 prints)

FX 202-9-43 Benton County Flax Mill with retting straw on drying field in foreground (7 prints)

FX 203-9-43 Benton County Flax Mill as viewed from approach from the south on highway 99W (negative and print)

FX 204-9-43 Retting tanks with shop in background, Benton Co. Mill (negative and 2 prints)

FX 205-9-43 A straw storage shed with elevators Benton County Mill (negative and print)

FX 206-9-43 Retting tanks with office and warehouse, and one shed in background, Benton Co. Mill (negative and 10 prints)

FX 207-9-43 Benton County Flax Mill as viewed from south near highway (negative and print)

FX 208-9-43 Fuel storage shed, boiler room and retting tanks, Benton Co. Mill (negative and 2 prints)

FX 209-9-43 Private office, Benton County Mill (negative and print)

FX 210-9-43 Molalla Flax Growers Mill, left to right: shed, office, and deseeding building (negative and 2 prints)

FX 211-9-43 Molalla Flax Growers shed, west end and south sides (negative & 2 prints)

FX 212-9-43 Molalla Flax Mill as viewed from approach from west, left to right: office, watchman's residence, boiler room, scutching building, and sheds (negative and 3 prints)

FX 213-9-43 Molalla Flax Mill, left to right: tanks, fuel storage, office, scutching building and corner of deseeding building; negative and 3 prints)

FX 214-9-43 Straw storage shed under construction, Washington Co. Flax Growers (negative and 2 prints)
FX 215-9-43 Retting tanks, deseeding building and sheds under construction, Washington Co. Flax Growers (negative and print)
FX 216-9-43 Retting tanks with office and one shed in background, Washington County Flax Growers, Cornelius, Oregon (negative and print)
FX 217-9-43 Straw storage shed with elevators, Washington Co. Flax Growers (negative and print)

FX 218-9-43 Approach to Benton County Flax Growers Mill (negative and 2 prints)
FX 219-4-43 Sheds, Benton County Flax Growers Mill as seen from north on highway 99W (negative and 2 prints)
FX 220-9-43 Experimental retted straw leveler or evener (negative and 3 prints)

FX 221-2-44 Pneumatic gripping device on tractor type flax puller (negative and 2 prints)
FX 222-2-44 Rear view of tractor trailer type flax puller with binder platform and shields removed (negative and 3 prints)
FX 223-2-44 Tractor trailer type flax puller with binder table and shields removed (negative and 3 prints)
FX 224-2-44 Double band binder on 45° deseeder (negative and 2 prints)

FX 225-9-44 Front end of experimental field binder and loader for retted straw, Benton County Mill (negative and 2 prints)
FX 226-9-44 Tripping binder with foot on experimental retted straw binder and loader; Benton County Mill (photo by W. M. Hurst; negative and 3 prints)
FX 227-9-44 Side view of experimental retted straw binder and loader showing drives for binder and elevator (negative and 7 prints)
FX 228-9-44 Feeding straw to drying field binder and loader, Benton County Mill (photo by W. M. Hurst; negative and 2 prints)
FX 229-9-44 Binding unit of type commonly used for binding bundles of ruled straw, Benton County Mill (negative and 8 prints)

FX 230-9-44 Experimental pneumatic gripping device for flax puller mounted on tractor for harvesting plots, Granger, Oregon (photo by E. G. Nelson; 6 prints)
FX 231-9-44 Opening field of experimental plots fiber flax with pneumatic tire pulling unit mounted on tractor, Granger, Oregon (photo by E. G. Nelson; 2 views: 14 prints)

FX 232-9-44 Rear view of fiber flax combine (4 prints)
FX 233-9-44 Side view of fiber flax combine (4 prints)

FX 234-8-42 Bernard flax puller, St. Paul, Oregon (photo by E. G. Nelson; negative & 3 prints)

FX 235-5-45 Breaker scutcher set up in shop for tests, Corvallis, Oregon (photo by W. M. Hurst; negative and 2 prints)
FX 236-5-45 Front end of first unit of breaker scutcher showing slot opening for flax to enter and V belt of gripping device (negative and 3 prints)
FX 237-5-45 Throat into which flax straw is fed; hardwood block holds side wings of gripping chain open so as to straddle V belt, Corvallis, Oregon (photo by W. M. Hurst; negative and 2 prints)

FX 238-5-45 Feed table and gripping device for first unit of breaker scutcher, Corvallis, Oregon (photo by W. M. Hurst; negative and 2 prints)
FX 239-5-45 Drive for gripping device and transfer on breaker scutcher, Corvallis, Oregon (photo by W. M. Hurst; negative and 2 prints)
FX 240-5-45 Discharge end, or "take off" of second unit of breaker scutcher (negative and 3 prints)
FX 241-5-45 Fiber at "take off" end of second unit of breaker scutcher (negative and 2 prints)
FX 242-5-45 Main drive for breaker and scutching rotors on second unit of breaker-scutcher (negative and 3 prints)
FX 243-5-45 Vacuum tow box on down draft tow system for scutcher with rubber rollers for removing tow from dead air space, Corvallis, Oregon (photo by W. M. Hurst; negative and 3 prints)
FX 244-5-45 Curved spring steel rods in tow box to deflect tow into dead air space; down draft tow system on scutcher, Corvallis, Oregon (photo by W. M. Hurst; negative and 2 prints)

FX 245-3-45 Van Hauwaert scutcher at N. W. Flax Products Co. Mill showing feed table, breaker, tip end unit, butt end unit, and dust exhaust system (negative & 8 prints)

FX 246-3-46 Experimental scutcher at Benton Co. Flax Mill, showing feed table, tip end unit, butt end unit, and gripping device (negative and 9 prints)
FX 247-3-46 Experimental scutcher at Benton Co. Flax Mill, take off end (negative & 4 prints)
FX 248-3-46 Experimental scutcher at Benton Co. Flax Mill; take off end showing beater blades and combs (6 prints)

FX 249-3-46 Van Hauwaert scutcher at N. W. Flax Products Co. Mill, take off end (negative and 5 prints)
FX 250-3-46 Van Hauwaert scutcher at N. W. Flax Products Co. Mill, take off end (2 views: negative & 6 prints for 1st view; 2 prints for 2nd view)

FX 251-3-46 Flax display board (3 views: 1 negative; several prints for each view)

FX 252-4-46 Flax bundles before and after butting in flax butting machine at Benton County Mill (negative and 3 prints)
FX 253-4-46 Flax bundles before and after butting in flax butting machine at Benton County Mill; Joe Hubbard holding bundles (negative and 4 prints; 3 prints originally numbered FX-255-4-46)

FX 254 & 255 [no images with these numbers]

FX 256-4-46 Lift for retting tank at N. W. Flax Products Co. (negative and print)
FX 257 [no image with this number]

FX 258-4-46 Close up of one end of scutcher blades showing combs (negative and 4 prints)
FX 259-4-46 Samples of scutched fiber — right: before installation of combs; left: after installation of combs (2 negatives and 8 prints)

FX 260-4-46 Flax bundle prior to butting on the vibrator type butter (2 negatives and 3 prints)
FX 261-4-46 One bundle of flax on the experimental vibrator type butter; butted for two minutes

(2 negatives and 2 prints)
FX 262-4-46 Flax bundle after butting for 2 minutes on vibrator type butter (negative and 2 prints)

FX 263-6-46 Retting tank top lift ─ lid down, NW Flax Products Co., Eugene, Oregon (photo by C. I. Branton; negative and 6 prints)
FX 264-6-46 Lifting device attached to closed retting tank lid, NW Flax Products Co., Eugene, Oregon (photo by C. I. Branton; negative and 3 prints)

FX 265-6-46 Bucket butter and butted bundle, Benton Co. Flax Growers Mill (photo by C. I. Branton; negative and 9 prints)
FX 266-6-46 Bucket butter operating, Benton Co. Flax Growers Mill (photo by C. I. Branton; negative and 5 prints)

FX 267-6-46 Open type retting tank lid lifted for movement, NW Flax Products Co. (photo by C. I. Branton; negative and 2 prints)
FX 268-6-46 Retting tank lid raised for movement, NW Flax Products Co. (photo by C. I. Branton; negative and 3 prints)
FX 269-6-46 Retting tank lid, closed type, NW Flax Products Co. (photo by C. I. Branton; negative and print)
FX 270-6-46 Conventional type slatted retting tank top; automatic temperature control in foreground, NW Flax Products Co. (photo by C. I. Branton; negative & 2 prints)
FX 271-6-46 Conventional type slatted retting tank top with mechanical lift in use (4 prints)
FX 272-7-46 Retting operations at N. W. Flax Products, Eugene, Oregon (negative & 3 prints)
FX 273-7-46 Handling retted straw, N. W. Flax Products, Eugene, Oregon (negative & 2 prints)
FX 274-7-46 Retting tanks and field drying, N. W. Flax Products, Eugene, Oregon (negative and 2 prints)
FX 275-7-46 Retting tanks and field drying, N. W. Flax Products, Eugene, Oregon (negative and 3 prints)
FX 276-7-46 Retting tank studies, N. W. Flax Products, Eugene, Oregon (negative and 7 prints)
FX 277-7-46 Retting tank studies, instruments and automatic controls (negative and 5 prints)
FX 278-7-46 Retting tank studies, instruments and automatic controls (negative and 4 prints)

FX 279-7-46 Retting and field drying at Benton County plant (negative and 3 prints)

FX 280-7-46 Construction details of straw spreader (negative and 4 prints)
FX 281-7-46 Construction details of straw spreader (negative and 2 prints)
FX 282-7-46 Construction details of straw spreader (negative and 2 prints)

(P shelves - box 5)
FX 283-7-46 Construction details of straw separator and double needle binder (negative and 2 prints)
FX 284-7-46 Construction details of straw separator and double needle binder (negative and 2 prints)

FX 285-7-46 Puller equipped with straw spreader and double needle binder, OSC campus (negative and 3 prints)
FX 286-7-46 Puller equipped with straw spreader and double needle binder, OSC campus (negative and 2 prints)

FX 287-7-46 Puller, front view, OSC campus (negative and 5 prints)

FX 288-7-46 Pulling flax on the Gregg farm, double needle binder and straw separator (negative and 7 prints)
FX 289-7-46 Pulling flax on the Gregg farm, double needle binder and straw separator (negative and 4 prints)
FX 290-7-46 Pulling flax on the Gregg farm, double needle binder and straw separator (negative and print)
FX 291-7-46 Single tie bundle and double tie bundle, Gregg farm (negative and 2 prints)
FX 292-7-46 Byberg type puller with single binder, Gregg farm (negative and 5 prints)

FX 293-9-46 Heating plant, N. W. Products Co. (negative and 3 prints)

FX 294-9-46 Field binder loader (negative and 6 prints)
FX 295-9-46 Field binder loader with bundle elevator (experimental) (negative and 4 prints)

FX 296-9-46 Mt. Angel flax festival, F. Schwab (on horse?) (negative and 3 prints)
FX 297-9-46 Mt. Angel flax festival parade (negative and 3 prints)
FX 298-9-46 Mt. Angel flax festival, Flax Plant float (negative and 2 prints)

FX 299-8-46 Field binder, wheel barrow type (negative and 4 prints)
FX 300-8-46 Field binder, wheel barrow type (negative and 3 prints)
FX 301-8-46 Field binder, wheel barrow type (negative and 2 prints)

FX 302-9-46 Vessot pulled field near Mt. Angel, Oregon (negative and 5 prints)
FX 303-9-46 Vessot pulled field near Mt. Angel, Oregon (negative and 6 prints)

FX 304-10-46 Straw separator and stop-binder and conveyor on deseeder at Mt. Angel, Oregon (negative and 2 prints)
FX 305-10-46 Straw separator and stop-binder and conveyor on deseeder at Mt. Angel, Oregon, with observers (negative and 2 prints)

FX 306-7-46 Gregg Farm, Soenens puller (negative and 3 prints)

FX 307-10-46 Tow machine, Benton Co. (2 negatives and 2 prints)

FX 308-10-46 Laboratory retting; Dr. Walter Bollen (negative and 6 prints)

FX 309-10-46 Haas Drier (German) with Hydro-extractor (negative and 3 prints)
FX 310-10-46 Haas Drier (German) (negative and 3 prints)

FX 311-10-46 Oregon City puller (negative and 6 prints)

FX 312-10-46 Whipping rolls in operation (2 views: negative and 6 prints)
FX 313-10-46 Tying bundles from whipping rolls (negative and 6 prints)

FX 314-11-46 Hand hackling, coarse combs (negative and print)
FX 315-11-46 Hand hackling, fine combs (negative and 2 prints)
FX 316-11-46 Hand hackling, tipps and butts (negative and 4 prints)

FX 317-11-46 Hand hackling, grading (negative and 4 prints)

FX 318-11-46 Deseeding at Washington County plant (negative and 7 prints)
FX 319-11-46 Inclined feed table, Washington County (negative and print)
FX 320-11-46 Inclined feed table, Washington Co., showing vibrator butter mechanism (negative and 2 prints)
FX 321-11-46 Inclined feed table, Washington Co., showing conveying pins (negative 4 prints)
FX 322-11-46 Inclined feed table, Washington Co., drive mechanism (negative and 2 prints)

FX 323-11-46 Scutching at Benton Co., Delano; conventional scutcher feed table showing 6 people, 5 of whom could be replaced with the mechanical string cutter, straw spreader and the butter feed table (negative and 4 prints)
FX 324-11-46 Combs on experimental scutcher, Benton County Mill (negative and 2 prints)
FX 325-12-46 Feeding the scutcher at Benton Co. Flax Mill (negative and 7 prints)
FX 326-12-46 Feeding the scutcher at Benton Co. Flax Mill (negative and 8 prints)

FX 327-12-46 Stationary bans in experimental breaker, showing taper (negative and 2 prints)
FX 328-12-46 Assembling experimental scutcher at Benton County Mill (negative and 2 prints)
FX 329-12-46 Experimental scutcher at Benton County prior to assembly (negative and 6 prints)

FX 330-12-46 German flax washer and roll Hydroextractor (negative and print)

FX 331-1-47 Dust enclosure around Van Hauwaert scutcher at Benton County (negative and 8 prints)
FX 332-1-47 Van Hauwaert scutcher at Benton Co. Mill with down draft dust removal (negative and 7 prints)
FX 333-1-47 Tow machine at Benton Co. in operation (negative and 9 prints)

FX 334-3-47 Beetling, scutching and hackling flax (from an engraving) (negative and print)

FX 335-4-47 Tow machine and drier at Benton County (negative and 2 prints)

FX 336-4-47 Experimental retting at bacteriology lab at OSC; Bollen and Lambrecht (negative and 4 prints)
FX 337-4-47 Bacteria colonies, anaerobic and aerobic oxygen (negative and 3 prints)

FX 338-4-47 Retting tank studies chart, 1946-R1 (negative and 5 prints)
FX 339-4-47 Retting tank studies chart, 1946-R2 (negative and 3 prints)
FX 340-4-47 Retting tank studies chart, 1946-R3 (negative and 3 prints)

FX 341-6-47 Field binder loader, construction details (negative and 8 prints)
FX 342-6-47 Field binder loader, construction details (negative and 2 prints)
FX 343-6-47 Field binder loader, construction details (negative and 4 prints)
FX 344-6-47 Field binder loader, construction details (negative and 2 prints)

FX 345-8-47 Van Hauwaert scutcher during installation, Santiam Mill, Jefferson, Oregon (negative and 10 prints)
FX 346-8-47 Scutcher building and tow processing building, Santiam Mill, Jefferson, Oregon (2 negatives and 10 prints)

FX 347-8-47 Retting tank, top lift, Canby, Oregon (negative and 3 prints)
FX 348-8-47 Field binding operation, Canby, Oregon (negative and 7 prints)

FX 349-8-47 Santiam scutcher building; negative and 2 prints.

FX 350-9-47 Straw separator stop, construction detail "A" (negative and 2 prints)
FX 351-9-47 Straw separator stop, construction detail "B" (negative and 2 prints)
FX 352-9-47 Straw separator stop, construction detail "C" (negative and 3 prints)
FX 353-9-47 Straw separator stop, construction detail "D" (negative and 4 prints)
FX 354-9-47 Straw separator stop, construction detail "E" (negative and 2 prints)

FX 355-2-48 Wigwam pick up, construction details "A" (negative and print)
FX 356-2-48 Wigwam pick up, construction details "B" (negative and 3 prints)
FX 357-2-48 Wigwam pick up, construction details "C" (negative and 2 prints)
FX 358-2-48 Wigwam pick up, construction details "D" (negative and 6 prints)

FX 359-2-48 Inclined feed table vs. flat table, Washington Co. "A" (negative and print)
FX 360-2-48 Inclined feed table vs. flat table, Washington Co. "B" (negative and 2 prints)

FX 361-4-48 Tow drying study (charts); figures 1, 2, and 3 (3 negatives and 6 prints)
FX 362-4-48 Tow drying study (charts); figures 4, 5, and 6 (3 negatives and 6 prints)
FX 363-4-48 Canby retting report (charts); figures 3, 4, and 5 (3 negatives & 12 prints)

FX 364-6-48 Flax stem and flower (reproduced from book) (negative and 2 prints)
FX 365-6-48 Flax stem anatomy, cross section (reproduced from book) (negative and 2 prints)
FX 366-6-48 Ultimate flax fibers (reproduced from book) (negative and 2 prints)
FX 367-6-48 Chemical composition of dried flax straw (reproduced from book) (negative and 2 prints)

FX 368-8-48 Experimental flax drier, Welch (negative and print)
FX 369-8-48 Experimental flax drier, kiln open (negative and 10 prints)

FX 370-8-48 Flax deseeder, front view (9 prints)
FX 371-8-48 Flax deseeder, angle view (negative and 7 prints)

FX 372-8-48 Elevating into storage shed, St. Paul, Oregon (negative and 4 prints)

FX 373-8-48 Willamette puller, showing tractor (negative and 4 prints)
FX 374-8-48 Willamette puller, side view (negative and 8 prints)
FX 375-8-48 Willamette puller, front view (negative and 3 prints)

FX 376-8-48 Experimental flax drier — Branton (negative and 5 prints)
FX 377-8-48 Deseeder with string cutter, butter, and binder (negative and 4 prints)
FX 378-8-48 Experimental flax drier, kiln closed (negative and 10 prints)

FX 379-7-48 Field binder loader with wigwam pick up, front view (negative and 8 prints)
FX 380-7-48 Field binder loader with wigwam pick up, side view (negative and 3 prints)

FX 381-9-48 Fiber flax shop, west to east (negative and 2 prints)
FX 382-9-48 Fiber flax shop, drill press in foreground (negative and 3 prints)

FX 383-9-48 Mt. Angel Flax Growers Assn. float with committee (negative and 4 prints)
FX 384-9-48 Fred Schwab on horse, Mt. Angel flax parade (negative and 3 prints)

FX 385-9-48 Tow drier and feeder at Santiam Flax Plant (negative and 8 prints)
FX 386-9-48 Bale opening tow feeder, Santiam Flax Plant (negative and 7 prints)

FX 387-11-48 1948 maturity study ─ wax (negative and 2 prints)

FX 388-8-48 Cucumber harvester, side view (negative and 4 prints)
FX 389-8-48 Cucumber harvester, back view (negative and 3 prints)

FX 390-11-48 1948 wax maturity, plot picture (negative and print)

FX 391-3-49 Experimental scutcher, feed table, Mt. Angel, Oregon (negative and 6 prints)
FX 392-3-49 Experimental scutcher, turbines, Mt. Angel, Oregon (3 prints)
FX 393-3-49 Experimental scutcher, fiber take off, Mt. Angel, Oregon (negative and 2 prints)

FX 394-3-49 Green tow machine, Santiam Mill, output end (negative and 5 prints)
FX 395-3-49 Green tow machine, Santiam Mill, feed end (negative and 8 prints)
FX 396-3-49 Green tow machine, Santiam Mill, feet end, no operators (negative and 6 prints)

FX 397-8-49 Double and single string, natural drying and temperature study (negative and 5 prints)

FX 398-8-49 Close-up of flax puller with flax, front view (negative and 7 prints)
FX 399-8-49 Angle view of flax puller with flax (2 negatives and 8 prints)
FX 400-8-49 Side view of flax puller with flax and showing binder (negative and 5 prints)
FX 401-8-49 Flax puller without flax, front view (negative and 3 prints)

FX 402-8-49 Field binder-loader at Molalla Flax Plant, shady side (negative only)
FX 403-8-49 Mobile field binder loader with bundle elevator and bundle pick up attachment (experimental) at Molalla Flax Plant, sunny side (4 prints)

FX 404-8-49 Front view of Scott Strength Test (2 negatives and 9 prints)
FX 405-8-49 A. E. Pulp balance with equilibrium samples (2 negatives and 2 prints)
FX 406-8-49 Table of exponentials (chart) (negative and 9 prints)
FX 407-8-49 Potentiometer (negative and 7 prints)
FX 408-8-49 Equipment used in equilibrium and regain test (negative and 9 prints)

FX 409-11-49 Van Hauwaert 4-turbine type scutcher, Dominion Experimental Farm, Ottowa, Canada (print)

FX 410-9-50 Self-propelled field binder loader with pick up attachment operating at Mt. Angel Flax Plant, revised model (negative and 5 prints)
FX 411-9-50 Self-propelled field binder loader with pick up attachment operating at Mt. Angel Flax Plant, revised model (negative and 4 prints)

FX 412-9-50 Self-propelled field binder loader with pick up attachment operating at Mt. Angel Flax Plant, revised model (negative and 4 prints)
FX 413-9-50 Self-propelled field binder loader with pick up attachment operating at Mt. Angel Flax Plant, revised model (negative and 5 prints)

FX 414-11-50 Santiam Flax Plant, view showing several buildings (negative and 5 prints)
FX 415-11-50 Santiam Flax Plant, Jefferson, Oregon, view from entrance showing most buildings (negative and 3 prints)
FX 416-11-50 Santiam Flax Plant, Jefferson, Oregon, view showing scutcher buildings, left, and tow buildings, right (negative and 5 prints)
FX 417-11-50 USDA designed tow dryer on right and tow scutcher on left at Santiam Flax Plant (negative only)
FX 418-11-50 Operating Van Hauwaert scutcher at Santiam Flax Plant (negative and 13 prints)
FX 419-11-50 Operating USDA experimental scutcher at Santiam Flax Plant (negative and print)
FX 420-11-50 Tow separator box operating with experimental scutcher at Santiam Flax Plant (negative and 7 prints)
FX 421-51 Bulk handling; unloading farmer's flax, Santiam Flax Plant (negative and 7 prints)
FX 422-51 Bulk handling; unloading farmer's flax, Santiam Flax Plant (negative and 4 prints)
FX 423-8-51 Bulk handling; unloading farmer's flax, Santiam Flax Plant (5x7 color transparency and color print)

FX 424-8-51 Pulled flax drying in field; flat bundles are to be stacked as shown on right; (5x7 color transparency and color print)
FX 425-8-51 Flax puller, Chapin commercial variety test plots (2 color prints)

FX 426-51 Pitch fork handling; loading retted straw for scutcher, Santiam Flax Plant (negative and 3 prints)
FX 427-51 Pitch fork handling; loading retted straw for scutcher, Santiam Flax Plant (negative and 5 prints)
FX 428-51 Pitch fork handling; loading retted straw for scutcher, Santiam Flax Plant (negative and 6 prints)
FX 429-51 Pitch fork handling; loading retted straw for scutcher, Santiam Flax Plant (negative and 6 prints)

FX 430-52 Van Hauwaert four drum scutching machine, Model 1949 (print only)
FX 431-3-52 Horizontal bundle string cutter (print only)
FX 432-3-52 Retted straw straightener; feed in side, bundle on table (negative and 5 prints)
FX 433-3-52 Retted straw straightener; feed in side, straw in machine (negative and 6 prints)
FX 434-3-52 Retted straw straightener and spreader, outlet side (2 prints)
FX 435-3-52 Retted straw spreader at outlet of straw straightener, no straw (negative and 6 prints)
FX 436-3-52 Retted straw spreader at outlet of straw straightener, straw in machine (negative and 4 prints)

FX 437-6-52 Linen and wool display, Oregon State Capitol (4x5 negative and 7 prints)
FX 438-6-52 Linen and wool display, Oregon State Capitol (4x5 negative and 7 prints)
FX 439-6-52 Gov. Douglas McKay at linen and wool display, Oregon State Capitol (2 views: 4x5 negative and print; print only)

FX 440-9-52 Two bundles of pulled flax in pulling field -- 1-single tied-Soenens puller, 1-double tied-USDA experimental puller (negative and 3 prints)
FX 441-9-52 Two shocks of pulled flax bundles in pulling field -- 1-single tied bundles-Soenens puller, 1-double tied bundles-USDA experimental puller (negative and 3 prints)

FX 442-12-52 Front view of lift truck with pullet load of flax (negative and print)
FX 443-12-52 Rear view of lift truck with pallet load of flax (negative and 2 prints)
FX 444-12-52 Side view of lift truck with pallet load of flax (negative and 2 prints)
FX 445-12-52 Pallet load of flax on ground (negative and print)

FX 446-1-53 Two bundles of pulled flax -- 1. left-commercial pulled; 2. right-USDA self-propelled pulled (negative and 3 prints)
FX 447-1-53 Four bundles of pulled flax -- 1. left-2 bundles commercial pulled; 2. right-2 bundles USDA self propelled puller pulled (negative and 4 prints)

FX 448-2-53 Vansteenskiste scutcher, feed end view, Mt. Angel, Oregon (negative & 2 prints)
FX 449-2-53 Vansteenskiste scutcher, side view, Mt. Angel, Oregon (negative and 2 prints)
FX 450-2-53 Loading flax in storage shed, Mt. Angel, Oregon (negative and print)

FX 451-2-53 Flemish mill scutching at Santiam Mill (negative and 2 prints)
FX 452-2-53 Flemish mill scutching at Santiam Mill (negative and 5 prints)
FX 453-2-53 Flemish mill at Santiam Flax Growers Plant, Jefferson, Oregon (negative and 3 prints)

FX 454-12-53 Puller belts for self-propelled puller (negative and 3 prints)

FX 455-12-53 Bundle elevator, conveyor, and telescopic chute from deseeder to retting tank, Santiam Flax Plant (negative and 3 prints)
FX 456-12-53 Deseeder, elevator, conveyor, and chute into retting tanks, Santiam Flax Plant (negative and print)
FX 457-12-53 Bundle elevator, conveyor, and telescopic chute into retting tanks, Santiam Flax Plant (negative and 2 prints)
FX 458-12-53 Squeeze rolls and feed end of retted straw dryer (negative and 5 prints)
FX 459-12-53 Feed end of retted straw dryer with squeeze rolls showing (steam) (negative and 2 prints)
FX 460-12-53 Feed end of retted straw dryer with squeeze rolls showing (negative and print)
FX 461-12-53 Feed end of retted straw dryer, side view (negative and 2 prints)
FX 462-12-53 Take off end of retted straw dryer, side view (negative and print)
FX 463-12-53 Take off end of retted straw dryer (negative and 2 prints)
FX 464-12-53 Retted straw dryer (negative and 4 prints)
FX 465-12-53 Control instrument, retted straw dryer (negative)
FX 466-12-53 Hot air supply fans and damper controls on retted straw dryer (negative and 2 prints)
FX 467-12-53 Furnace, oil burner, and stack damper for retted straw dryer (negative & 2 prints)
FX 468-12-53 Furnace, oil burner, and automatic control for retted straw dryer (negative & print)
FX 469-12-53 Furnace and oil burner for retted straw dryer, angle view (negative and 3 prints)

FX 470-3-53 String cutter, outlet end view (negative and 2 prints)
FX 471-3-53 Retted straw spreader at outlet of straw straightner (negative and print)

FX 472-1-54 Retted flax dryer building, Santiam Flax Plant (negative and 3 prints)
FX 473-1-54 Switch board for retted straw dryer, Santiam Flax Plant (negative and 3 prints)

FX 474-1-54 Potentiometer Pyrometer in dryer laboratory (negative and 3 prints)
FX 475-1-54 Drawing fiber flax machinery (negative and 4 prints)

FX 476-2-54 Furnace hood, retted flax dryer (negative and 3 prints)
FX 477-2-54 Fiber flax field binder and loader (negative and 2 prints)

FX 478-2-54 Demonstration scutcher with Van Hauwaert blades and gripping device (negative and 2 prints)
FX 479-2-54 Demonstration scutcher with Van Hauwaert blades and gripping device, angle view (negative and 3 prints)
FX 480-2-54 Demonstration scutcher with Vansteenskiste blades and gripping device (negative and 2 prints)
FX 481-2-54 Demonstration scutcher with USDA experimental blades and gripping device (negative and 2 prints)

FX 482-2-54 Experimental self-propelled puller, front view (negative and 2 prints)
FX 483-2-54 Experimental self-propelled puller, rear view (negative and 4 prints)
FX 484-2-54 Experimental self-propelled puller, binder side view (negative and 3 prints)
FX 485-2-54 Experimental self-propelled puller, auxiliary engine side view (negative and 3 prints)

FX 486-5-54 Diagrammatic drawing of experimental flax drier (negative and print)
FX 487-9-54 Self-propelled puller shear and belt arrangement (drawing) (negative and print)
FX 488-9-54 Self-propelled flax puller schematic drive (drawing) (negative and print)
FX 489-9-54 Straw divider on double needle binder (drawing) (negative and print)
FX 490-9-54 Commercial type scutcher gripping devices (drawing) (negative and 2 prints)
FX 491-11-54 Setting up wigwams of flax in the drying field (photo by Delano Studio, Portland, #9533A; print)
FX 492-11-54 Rebinding bundles of flax in the drying field (photo by Delano Studio, Portland, #9533-1; 3 prints)
FX 493-11-54 Loading tied bundles of flax in the drying field (photo by Delano Studio, Portland, #9533-2; 2 prints)

FX 494-11-54 Van Hauwaert scutching machine, take off end, Washington County Flax Plant (photo by Delano Studio, Portland, #9528-A; 4 prints)

FX 495-11-55 Flax straw temperatures during drying (chart) (4x5 negative and 3 prints)
FX 496-11-55 Moisture content of retted flax straw during drying (chart) (4x5 negative and 3 prints)
FX 497-11-55 Flax drier heat supply and air circulation (schematic sketch) (negative and print)
FX 498-11-55 Overall efficiency vs. evaporation rate in a direct-heat flax drier (chart) (4x5 negative and 3 prints)
FX 499-12-55 Plot of the relationship of fiber yield and seasoning of retted straw (chart) (4x5 negative and 2 prints)

FX 500-1-58 Flax samples, balance, containers used in equil. moist. study (negative)
FX 501-1-58 Controlled temperature-humidity cabinet, 8 sec. exposure (negative)
FX 502-1-58 Controlled temperature-humidity cabinet, 0.1 sec. exposure (negative & 5 prints)

FX 503-8-59 Oregon Flax Company spinning mill at Canby, Oregon (3 prints)

Unnumbered flax photographs:

Experimental plot puller constructed in fiber flax processing shop (3 views; prints only)
Flax drier? (print only)
Woman in office of Mt. Angel flax plant?, ca. 1940 (2 views; prints only)
Flax looms?, ca. 1940 (print only)
Priest at table (with linen placemats?), ca. 1940 (print only)
Woman modeling dress (made from linen?), ca. 1950 (4x5 negative and print)
Flax mill? (negative and print)
Unidentified machinery (8 views: print only for 1; negatives only for 2; negatives and prints for 5)
Part of an eighty acre field with retted flax straw set up and wigwamed for drying and bleaching (4x5 copy negative of image from *Oregon Magazine*)
Drawing of a person hackling flax (print only)

Illustrations proposed for use in Station Bulletin 531, 1953

Scutcher bulletin illustrations ─ drawings of pre-industrial flax breaking, beating and scraping, scutching; drawings of modern scutching machinery (negatives and prints)