

*This document represents a preliminary list of the contents of the boxes of this collection. The preliminary list was created for the most part by listing the creators' folder headings. At this time researchers should be aware that we cannot verify exact contents of this collection, but provide this information to assist your research.*

**AR – 012**  
**Biological and Agricultural Engineering Department Records**

**Box #1** Agricultural Engineering Collections

Contains folders labeled as follows:

- Agendas, meetings, minutes, rosters, consultants
- Minutes, notes, & agendas
- Agricultural Chemicals Research & (NACA)
- Air Pollution
- Air Quality Standards
- Algeria
- Antibiotics
- Antimycotic – Pimaricin (addictive)
- Articles of Environmental Concern & Interest
- Asbestos
- Attractants
- Australia
- Auto Emission
- Bibra
- Biological
- Botulism
- Cadmium
- California Cattle Feeders Association (CCFA) on antibiotics
- Canada
- Cardiovascular Disease
- Cellulose Disease
- Cellulose Action
- Chemical
- Chlorinated Hydrocarbons
- Cornstock Mealybug on Fruits
- Congressional Records
- Contracts
- DDT
- Defoliation
- DES
- Destanase (Food Additive)
- Dieldrin
- Delaney Clause
- Department of Environment & Technology Assessment Act of 1974
- Dioxin
- Disinfectants & Sanitizing Agents

Ecology  
Ecology – Research Tropical  
Energy  
Engineering Relations in Nutrition  
Environment  
Environmental Trade  
EPA

**Box #2**

Folders labeled as follows:

FDA  
Fish Pollution  
Fluroalkane  
Food Additives  
Food Processing  
Food Protection Committee  
Freon  
Grant Applications  
Grants  
Grants & Proposals  
GRA List  
Harvesting Nutrients from Swine Waste  
HCB  
HCB  
Hazardous Materials  
HMAC (General)  
National Cancer Institute (NCI) (HMAC)  
HMAC  
Potential Problem Area (HMAC)  
Master Control (HMAC)  
Memorandums (HMAC)

**Box #3**

Folders:

Principles of Plant & Animal Pest Control  
Pest Control  
Nation Pest Control Association  
Pesticides – Dichlorous DDVP  
Pesticides – Dyzrene triazine herbicides  
Pesticide use in food handling  
Pesticides – Pyrethrin – Dispensers  
Pesticides – Pyrethrin – Pyrethrum  
Pesticides – Ronnee  
Pesticides – Thallium Sulfate  
Pesticides – ZR 515 (Ent No. 70460)  
Pesticides – Endrin

Pesticides – Herbicides Research Material  
Pesticides – Fenitrothen  
Pesticides – Herbicides General Correspondences  
Pesticides – Herbicides News media – magazines  
Pesticides – Organochlorine  
Pesticides – Paarlán  
Pesticides – Piperonyl Butoxide  
Pesticides – PMA Phenylmercuric Acetate  
Pesticides – Pyrethrin General Correspondences  
Pesticide Use Report by Commodity 1971  
Pesticide Use Report 1971  
Pesticide Use Report 1972 – 3<sup>rd</sup> Quarter  
“Background For Decision” a one-day educational symposium on Pesticides  
Ecological Effects of Pesticides on Non-Target Species  
Food Protection & Toxicology Center summary report 1971  
Pestizide in der Unwek – Berlin 1971  
Cleaning our Government – The Chemical Basis for Action (A supplement)  
Miscellaneous Pesticides: Magazines, Books, General, Other  
Pesticides – Industry  
Categorization of Pesticides

#### **Box #4**

Report on corrosion of iron & steel products, 1955-58  
Membership Handbook: Committee A-5 on metallic coated iron and steel products, 1972  
Maps of Santa Cruz & vicinity, photographs & reports from wire tests done – 1967-69  
1967 Inspection of 1936 Zinc Geowire Test – Santa Cruz – Instructions & symbols, 1967  
Wire tests – Santa Cruz (1961-1964)  
1963 Galvanized Wire Inspection – Santa Cruz, 1965  
Santa Cruz 1966-67 Inspection Galvanized Wire  
Loose papers: includes minutes of ASTM meetings, reports, & letter ballots  
Wire tests – Davis 1964-65  
1965 Galvanized Wire Inspection – Davis, Sept. 14, ‘65  
Santa Cruz, Calif. 1966 – Inspection Galvanized Wire (1)  
Santa Cruz, Calif. 1966 – Inspection Galvanized Wire (2)  
Loose papers: reports, pamphlets, meeting schedules and minutes, ballots, and newsletters (ASTM) 1964-72  
ASTM letterballot, 5 year status report from 1961  
Test of Aluminum coated wire & wire products, subcommittee report on tests of atmospheric corrosion of hardware (1966)  
ASTM – photographs, reports, tests 1965  
1965 Galvanized Wire Inspection – Davis  
1963 Galvanized Wire Inspection – Davis (#3)  
1963 Galvanized Wire Inspection – Davis (#4)

1963 Galvanized Wire Inspection – Santa Cruz (#3)

Loose:

Large copy – 1963 Santa Cruz Wire test

Large copy – 1963 Davis Wire test

1963 Galvanized Wire Inspection – Santa Cruz (#4)

Loose:

Committee reports on testing 1962-67

ASTM Information on Annual Meeting 1962

1965 Galvanized Wire Inspection – Davis (2 copies)

1965 Galvanized Wire Inspection – Santa Cruz

Proposal by Laws Committee A-5, Dec. 1966, a bulletin & minutes of meeting,

June 28, 1966

List of Publications – ASTM, May 1965

Materials – Research & Standards May 1967

Letterballot – April 14, 1967

Various loose newsletters, ballots, and reports 1965-67

**Box #5** – F.A. Brooks Collection

Various correspondences, reports, & lecture notes on types of meteorology and how it effects agriculture 1960

Information, notes, letters, & reports on the symposia on Atmospheric Ozone & Atmosphere Radiation, Oxford 1959

Information on the eddy correlation apparatus; in the form of reports and letters 1960

An Interferometric Study of Free Convective Heat Transfer From Enclosed Isothermal Surfaces, 1954

A study of the wind profile, 1950

Atmospheric Diffusion, 1962

An Aerodynamic Measurement of Photosynthesis over a Paddy Field (Metabolism) – also – a metabolism report printed in Chinese, 1962

Report of Biometerology, 1962

Grant proposal to Office of Naval Research July, 1962

Title of research – Investigation of the Response Characteristics of Various Radiometers used in Measuring Energy Fluxes Near the Atmosphere/Earth Intersurface (proposal rejected)

Grant proposal to U.S. Weather Bureau (July, 1962)

(Same title as above) – proposal rejected

Various Research reports by Dr. W. Mörikofer (Davos – Platz, Switzerland) on radiation, 1961-67

Papers, studies on thin layer radiation, 1954-63

Calculations of thin layer radiation, 1963

Communications pertaining to the patenting of F.A. Brooks' radiometer

Passive Microwave Observation of Terrain Features – Collins Research Report (Dec. 1, 1961)

Research Paper on Agricultural Needs For Special And Extensive Observations of Solar Radiation by F.A. Brooks (Dec. 24, 1962)

Notes & Research for California Branches, American Meteorological Society  
Joint Meeting, Monterey, CA Oct. 14, 1960  
The large eddies of turbulent motion (1959)  
Studies & Letters on turbulence of eddies (1960-63)  
Research on turbulence (1959-61)  
Turbulence theory (much printed in Japanese) 1953 – 62  
Meteorological turbulence project (Nov. 30, 1960)  
Reports & Communications: Arid Zone Climatology with special reference to  
Microclimatology, 1956-58  
Information on Biometeorological Data Interpretation 1962; also includes the  
AIBS Bulletin, Aug. 1962  
Biometeorological data, 1962  
Copy of F.A. Brook's lecture on Biometeorological Data; Corvallis, Oregon Aug.  
1962  
Fourier Smoothing of Radiation Observations, Daytime & Nighttime  
Observations, 1962  
Turbulence Theories, 1962-4  
Turbulence transfer theories, 1936-45  
Loose booklets:  
Two-phase, two-component flow in the viscous region, 1945  
Transient Heat Conduction in Hollow Cylinder After Sudden Change of Inner  
– Surface Temperature, 1944  
Turbulence/Stability – includes reports & maps 1931-44  
Atmospheric Turbulence Project, 1951  
Heat Transfer/turbulence, 1952  
The Theoretical Scattering of Smoke in a Turbulent Atmosphere, 1923  
Soil Water Movement during Irrigation, 1958  
Eddy Transfers, 1958  
Eddy Transfer Theories, 1958

#### **Box #6**

National Pesticide Monitoring Program (revised), 1971  
Correspondence on Pesticides (environmental awareness), 1971-73  
Correspondence on Pesticide Disposal, 1971-73  
Pesticide Disposal, 1970-72  
Disposal of empty pesticide containers, 1970-72  
Waste Pesticide Management, 1971, 1972  
Pesticides – Aerosol dispensers, 1971-1972  
Pesticides in Aquatic Environment, 1972  
Health Aspects of Pesticides, 1968-72 Reports & Correspondence  
Pesticide Regulation, 1972  
Pesticide Regulation Guidelines (safety), 1969-73  
Regulation and Registration of Pesticides, 1971-72  
Mrak Report on Pesticides, 1971  
Congressional record on Pesticide Control Acts, 1971  
Pesticide Reports, 1970

Federal Register Reprint on Pesticides, 1972  
Newsletters – Pesticides – 1971, 72  
Newspaper articles, general on pesticides, 1971-73  
Pesticides Programs, 1972

**Box #7** F.A. Brooks

Forest Fire project, references, & reprints, 1954-1960  
Air Pollution (U.C. Riverside) 1958, 59  
Air Pollution (UCLA), 1947-57  
Air Pollution symposium, 1949  
Spectral – Interval Radiation Exchange Between Air Layers & the Stratified  
Atmosphere, 1966  
Air Pollution (Riverside) Project No. 1633, 1957  
Loose pages: various reports on pesticides and air pollution, 1960-  
Statewide Agricultural Air Pollution Research Advisory Committee, 1958-63  
Studies of various weather fronts, 1938-54  
Tornadoes, 1958  
Teaching outlines – meteorology, 1945  
Daily Weather Maps, 1949  
Weather forecasting materials, 1936-46  
Psychrometric charts  
Solar influences on Weather, 1957  
Distribution of Solar Energy, 1960  
The use of insolation in forecasting, 1945-51  
Possible Hours of Sunshine, 1960  
Sun Photometer  
Energy Distribution in the Solar System, 1953  
Intensity of Solar Radiation, 1935  
Hemispherical Radiation & Sky Radiation, 1954  
The Sun's Position, 1952  
Sun's Position (studies), 1951-3  
Solar Radiation on slopes  
Diffuse Radiation on slopes, 1956-57  
Heat balance; shade, 1956-7  
Study of black globe, 1949  
Seasonal subsoil temperature variations, 1929-32  
Thermal properties  
Meteorological Factors affecting transfer processes at Earth's surface, 1958  
Wind velocity studies, 1952-65  
Shelter belts & wind erosion, 1956  
Aerial dissemination (pest controls), 1946-52  
Heat balance, 1959  
Eddy diffusion of aerosols, 1950  
Evaporation transfer, 1942  
Atmospheric Radiation, includes photographs

Air conditioning for Houses in California, 1942  
Reduction of Radiation Loss by Clouds, Destructive Winds, 1957  
Nocturnal Air Draft, 1952-60  
Gravity Flow of Cool Air, 1952  
Heat Capacity of Trees, 1952  
Heat from Dew & Frost, 1953  
Heat capacity for trees, 1948-51  
Loose: heat transfer by eddy diffusion, 1950  
Frost protection, 1952-65  
Daytime cycles of Evaporation, 1957  
Protection by irrigation, 1952  
Protection by wind machines, 1946  
Use of Clouds in Forecasting, 1951  
Daytime Heat Balance, 1952

**Box #8** F.A. Brooks

“Squashshield” calculations  
Atmospheric Radiation, 1956, 1966  
Atmospheric Radiation, 1953  
Hemispherical Atmospheric Radiation, ‘49  
Irrometers, transpiration, 1957  
Evaporation – soil & surface, 1950s  
Use of helicopters in agriculture (drying) – 1947  
Use of fire in land clearing, 1951  
Heat transfer by Free convection, 1942-57  
Reflection (albedometer), 1955  
Absorbance & Emittances, 1952  
Performance of solar absorbers, 1957-64  
Turbulence/velocity calculations, 1967 (Tokyo Paper)  
Revised Tokyo Paper – original figures, 1967  
Assorted calculations, 1965  
International Society of Biometeorology & Bioclimatology 1957. International  
Journal., Vol. II, 1958  
Journal Agricultural Engineering Research, 1958  
The Atmospheric Sciences, 1961-71 (Vol. I – Goals & Plans)

**Box #9** F.A. Brooks

Calculations – Nocturnal Wind-Velocity. 1943-67  
Calculations  
Depletion of sunshine, 1956  
Calculations, correspondence  
Correspondence, conference on Agricultural meteorology, March 19-23, 1956,  
UC Davis  
Various reports and correspondences  
Catalogs for infrared spectrophotometers

Spectral – Interval Radiation Exchange Between Air Layers and the Stratified Atmosphere, F.A. Brooks, 1966 (2 copies)  
Radiation divergence notes, 1965  
Basic Regularity in Turbulent Mixing In the Surface Layer of the Atmosphere, 1954  
Conduction, Thermal Properties of Soil, 1962  
A Method of Estimation Insolation Loss Due to Soil Moisture, 1961  
Radiation Divergence, 1966  
Infrared Absorption by Carbon Dioxide, Water Vapor, and Minor Atmospheric Constituents, 1962  
Spectral – Interval calculations  
5<sup>th</sup> Western National Meeting, A.G.U., 1965  
Turbulence Theories  
Stress in Free Air, 1963  
Turbulence Theories, 1963  
Qualities of Solar Energy, 1964  
Calculations  
Symposium on Radiation, 1961 Vienna  
Papers for Vienna  
Vienna Paper, 1961  
Information from Vienna

**Box #10** F.A. Brooks

Notes from UCLA meeting (AGU program), 1961  
AMS St. Louis, 1961  
AAAs Berkeley Program, 1965  
Ft. Huachura Meeting, 1965  
Notes and correspondence (Ecology), 1963-67  
Shear Strees Meter, 19  
Turbulence, 1953-1960  
Reports & Calculations  
Atmospheric turbulence, 1944  
The Change of the Velocity of Wind With the Height Above the Sea (by H. Ulanov)  
Heat Transfer, 1955  
Mathematical Theory of Heat Distribution During Welding & Cutting, 1946  
Micrometeorology, 1948  
Loose: Heat, convection studies  
Micrometeorology Symposium, 1949  
Surface Layer Theory, 1953  
Correlations in the Use of Black Radiometers To Determine the Radiative Exchange Between Thin Air Layers And The Atmosphere Haring A Temperature Gradient, 1965  
Thin Layer Air-to-Air Radiation  
Reports & Calculations  
Reading Material References



AMS Monograph – Chapter 1 – Radiation, 1963  
Radiant Energy – Its Receipt and Disposal , 1965  
Reference Material  
Boelter Anniversary Volume Material  
Biometeorological Data Interpretation to Describe the Physical Microclimate  
Correspondence, notes, & calculations  
National Academy of Sciences News Report, 1963  
AGU Paper, 1963 Final Version  
AGU Paper, 1963 Calculations  
Reports  
Convection Calculations  
Rough Draft AIBS 1963  
Symposium on Heat Transfer in plants, 1963

**Box #11** F.A. Brooks

Loose: solar radiation  
Calculation of Spectral – Interval Emissive Power Varying Between  $T^2$  and  $T^0$ ,  
1965  
Calculations: solar energy  
Reference Material  
Solar Energy  
½ front of box has to do with a conference on solar energy in Tuscon,  
Arizona, 1955  
NAAS- El Centro, CA  
Calculations & reports  
Heat Exchange research  
Evaporation Research  
Climatology, 1949  
Chilling of the Ground, 1952  
AMS 1960 Originals  
Principles & Parameters of Solar Energy Collection and Use, 1960  
Info on Various Conferences  
Radiation References  
1936 Zinc – Coated Wire Exposure, 1969 Inspection (Santa Cruz)  
1936 Galvanized Wire test - Santa Cruz & 1968 Inspection  
Info on wire testing & wire corrosion

**Box #12** F.A. Brooks

Physical Microclimatology (Chs. 1-7)  
Correction list for above named book  
Permissions & reprints  
Curriculum in meteorology  
More on book  
Grant Proposal (NSF)  
Grant Proposal (NSF)  
Leningrad Paper, 1964

Finite Dispersion, 1947  
Heat Transfer, 1957  
Heat Transfer, 1954  
Radiation Divergence, 1965  
NSF, Washington D.C., 1967  
NSF Proposal, 1966  
NSF Grant Proposal, 1966  
Reserve Book Lists  
U.C. Public Procedures, 1961  
Lunar and Planetary Exploration Colloquium, 1962  
References: radiation  
Heat Transfer & Fluid Mechanics Institute, 1963  
Information on Remote Sensing of Environment Symposium, 1964  
IUGG notes – Berkeley, 1963  
IUGG symposia on Evaporation, 1963  
AMS Monograph, 1963  
AMS Monograph, Ch. 1, 1963  
AMS Monograph  
Leningrad Symposium on Radiation processes in the Atmosphere, 1964  
Atmospheric Radiation Originals, 1964  
Radiation Reprints, 1962

**Box #13**

Calculations & graphs all rolled, various dates

**Box #14**

Forest Fire Project (theory)  
Fire Research, 1960  
California Fire Danger Rating (Installation & Maintenance), 1958  
California Fire Danger Rating, 1958  
Burning Index Computing Tables  
California – Nevada Fire Research Council  
California – Nevada Fire Research Council, 1962  
Fire Research, Whirls  
Ecom Reports, 1966  
Evaluation of Agricultural Hydrology, 1956 – 1962  
Seminar Notes  
Report – Atmospheric & Soil – Plant – Water Relations Studies, 1966  
Engineering Experiment Station Bulletins, 1960 – 61  
Various Reports & journals, 1929 – 68  
Ecom Report, 1968  
Ecom Report, 1968  
The Atmospheric Sciences 1961 – 1971, Vol. I – III  
Reports, 1960- 62  
International Developments in Heat Transfer, ASME, Parts II, III, IV

**Box #15**

International Developments in Heat Transfer, Part V  
Report  
Proceedings – 1952 Conference (Ohio)  
Ecom Report, 1967  
Various Reports  
Proceedings – 1964 Symposium  
Analysis in Transfer of Energy, Momentum, & Moisture Near the Ground, 1966  
(6 copies)  
Heat Mass And Momentum..., 1968  
Calculations  
Tokyo Paper  
AFC Proposal, 1967  
Ditto Masters  
NSF Proposal, 1966  
Final Report  
1967 NSF Proposal Originals

**Box #16** S.M. Henderson

Air Distribution Tunnel Systems, 1954  
Bulk Drying of Grain  
Hop Drying, 1952  
Final Report – Hop Drying  
Hop Drying, 1954 – 58  
Hop Drier design, 1955 – 56  
Baleo Hops, 1958  
Reports, studies, 1953  
Lab & pilot studies, 1954 (rice)  
Drying – rice, 1955  
Feed Grinding paper, 1960  
Rice Drying, 1956  
Data – Grain, 1956  
Rice Drying – Australia, 1957  
Drying Leaflet – 1954  
Egg Refrigeration Study – 19545  
Egg cooling  
Storage (egg cooling)  
Potato Drying, 1959  
Moisture determination, 1960  
Onion drying, 1959  
Research, egg cooling, 1955  
Egg cleaning info  
Grain drying info, calculations, 1959  
Calculations – drying, 1960 -1  
Calculations, 1959  
Walnut drying, 1959

Vegetable Seed Drying, 1960  
Calculations, Trefoil, 1958  
Purchase Orders  
Calculations  
Almond dryer, 1959  
Sack – type rice drier, 1944  
Grain drying paper, 1960 – 61 (#1, 2, 3)  
Drying theory  
Humidifiers  
Egg processing, 1962  
Hops

**Box #17** S.M. Henderson

Greenhouse cooling, 1958  
Drying/storage, 1963  
Calculations  
Stran Steel Data, 1952  
Calculations  
Drying reports  
Rice Drying data & correspondence – 1952  
Sebastopol Apple Project – preliminary report – 1949  
Reports & Studies  
Almond Dryers (info)  
Phytotron, 1958 – 62  
Phytotron equipment & publications  
Prune Pitting 1961 – 62  
Prune Pitting Data – 1961  
Egg cooling – British Refrigeration Journal  
Equilibrium Moisture – Hysteresis, 1968 – 69  
Size Reduction, 1966  
Phytotron Control Paper, 1967  
Prune Pit Detection, 1966

**Box #18** S.M. Henderson

Burr Mill Grinder Info  
Data/Calculations  
Grinding Paper, 1968  
Calculations/Data – Closed Circuit Grinding  
Size Reduction  
Data  
Phytotron Paper  
Calculations/Data  
Dynamic Equilibrium Moisture  
Deep-Bed Grain Dryer Design  
Tunnee Study – 1963  
Phytotron

Calculations  
Drying Paper  
Grinding Paper  
Rice Hulling  
Rice Hulling, 1970 – 71  
Calculations  
Rice Hulling, 1971 – 72  
Rice Hulling Paperp, 1972  
Hop Drying Correspondence, 1970 – 71  
Hop Research, 1970 – 71  
Data  
ASAE Meeting, 1972  
Hop Research, 1971 – 72  
Hop Drying – slides, 1972  
Hop Research, 1972 – 73  
Comotion Paper, 1973  
Hop Equilibrium Moisture Paper, 1972  
Rice Cracking Paper  
ASEE Paper, 1973  
Data, 1971 – 74

**Box #19**

Proposals 1965 – 1969  
Calculations  
Air Pollution Research  
Info/Purchase Orders for Equipment, 1960s  
Correspondence, reports, data, 1960s

**Box #20**

ASAE Profession Registration  
Arrangements  
By – Laws  
Awards  
Committees  
Regional Council & Director  
Publicity  
Annual Meetings  
Programs  
Sections  
Position Description  
Nominating Committee  
Student Activities  
Secretary – Treasurer  
Binder – ASAE Material  
Report Walnut Dehydrators  
Binder – ASAE material

## Announcements

### **Box #21** L.W. Neubauer

- Bitmuls
- Parement with Bitmuls, 1930
- Soil Stabilization
- L.A. Building Code
- Adobe research
- Asphalt info
- Info on various types of building materials
- Wood fence post data
- Pozzolan – Adobe: 1953
- Massoud Modabber, Iran, 1956
- Bitmuls

### **Box #22** L.W. Neubauer

- Building Materials
- Foundations
- Concrete topics & trends
- Various catalogs, etc.

### **Box #23** F.A. Brooks

- 'Design hydrographs for very small watersheds from rainfall', 1962
- 'Description of Local Climate; Climatic Maps'; 1959
- Types of climate, data
- Data
- Chilling requirements of plants
- Background for forecasting
- Data
- References
- Frost Project
- Overheard Influence In Density Currents
- 'Physical Heat Balance In Man'; 1950
- 'Evaporation & Transpiration', 1959
- 'Cooling of Water By Nocturnal Radiation and Evaporation,' 1952
- Annual Report, 58 – 59
- Reports, Data

### **Box #24** L.W. Neubauer

- Roofing, 1967
- Copies of papers, 1965
- Roofing/info research
- Seed potato storage, 1963
- Floor Heating Research
- Welded Wire Fabric, 1961 – 64
- Calculations – in binder

**Box #25** F.A. Brooks

Memorial Volume to Prof. F.A. Brooks, 1895-1967

Correspondence & reports (deVries), 1956

Extensive calculations

Solar Energy calculations

Reports & calculations

**Box #26**

ASEA – Records, files – there are cancelled checks and rubber stamps also belonging to ASAE. All kept by W.C. Fairbanks.

**Box #27**

Loose: ASAE materials

Harvesting Costs, 1948-58

Cotton Costs, 1952

Cotton Quality (grades) 1935-62

Ginning & processing

Cotton products

Cotton Production Methods, 1960s

National Cotton Council Newsletters, 1949

Cotton Publicity

Photos: Cotton Project

Cotton Project Outline, 1958

Report: Cotton harvesting

Info on State Cotton projects

**Box #28**

Annual Reports: Western Regional Cotton Mechanization, 1958, '59, '60

Miscellaneous: Cotton, 1967 – 8

Annual Reports: 1955 – 1963

Tests: 1946 – 54

**Box #29**

Annual Reports: Cotton Mechanization Project 1964 – 67

Annual Reports: Southern Regional Cotton Mechanization: 1956 – 1966

Annual Reports: Western RCM: 1961 – 65

**Box #30**

Annual Reports: Western Regional Cotton Mechanization 1953 – 57

Misc. Cotton 1955 – 65

Correspondence – Producers Cotton Oil

Correspondence

Cotton Mechanization Project, 1948

Planting Cotton Seed Distributors, 1956

Reports = USDA 1951- 66  
Shafter Experimental Station, 1952  
Correspondence  
Shafterstation Advisory Committee, 1963  
Beltwide Cotton Mechanization Conferences, 1952 – 60  
Cotton Pickers & Harvesting Equipment  
Cotton Planting  
Weed Control

**Box #31**

Tillage, cultivation 1960s  
Flame cultivation, equipment & info  
Cotton Weed Control through use of Chemicals 1950 – 65  
Fertilization  
Pest Control in cotton, 1952 – 65  
Soil Incorporation of Chemical  
Chemical defoliation of cotton, 1951 – 65  
Cotton Irrigation  
Cotton Stalk cutters  
Cotton Testing, 1947 - 1966

**Box #32**

Plans: Frank Steiner Dairy Farmstead  
Farm Plans, brochures  
Potato storage, 1964  
Tulelake Data  
Potato Storage  
Data & Reports (misc.)  
Bills of lading  
Correspondence  
Information sheets  
Instructions  
Invoices  
Insurance  
Inventory checks, 1961 – 73  
Permits  
Receipt Blanks  
Shipping, 1966  
Receipts, 1954 – 65

**Box #33** H.B. Shultz

Correspondence, 1957 –  
Int'l Society of Biometeorology Congress, 1966  
Wind Machine, Paper, 1963  
Activity & Trip Reports, 1950s  
Correspondence



Reports, correspondence – Europe 1967 – 1969  
Int'l Society of Biometeorology  
Correspondence  
ASAE Winter Meeting 1971  
AMS  
Correspondence, 1959  
Delta Phi Alpha  
Faculty Club  
Info on Alfalfa  
Manuscript  
Various Reports  
Integrator  
Dew Recorder Instructions  
Wind Measurements  
Spot Climate Station Instructions  
Solar Radiation  
Pyrheliometer  
Geiger Appenda

**Box #34** H.B. Shultz

Various reports and calculations  
Meteorology transparencies  
Calculations  
Class hand-outs (leftovers)  
Pamphlets on weather & agriculture  
Climate varieties on fruit  
Originals for handouts AET III  
Final exams, 1974 AET III  
Student's paper  
Sprinkler cooling of vineyards  
Temperature charts, 1961  
Project Proposal  
Calculations  
Rice Institute  
Calculations

**Box #35** H.B. Shultz

Solar/sky radiation  
Wine Institute Paper, 1965  
Frost Protect, 1960  
Idaho – grape climate study, 1972  
Annual Report: Fruit Frost, 1963  
Radiometer Calculations  
Climate Experiment, 1963  
Protecting grape vines from spring frost  
Viticulture calculations

Extensive Winery Data  
Various catalogs  
Pictures from magazines – clouds  
Agroclimatic Data 1961-1971  
Meteorological Records, '74  
Forest Hydrology & Meteorology; 1965  
Geog 3 Lecture Materials & transparencies  
Various pamphlets

**Box #36** H.B. Shultz

Course material (teaching) Geog 3  
Weather graphs – data  
Various reports & calculations  
Heat transfer calculations  
Correspondence, 1970 – 74

**Box #37** H.B. Shultz

Discussion on a paper by C.F. Kelly & F.A. Brooks, 1961  
Many studies, reports, & calculations  
Monthly weathersheets 1975  
Invoices, 1969 on  
    Purchases, 1954 – 1955  
    Purchases, 1952 – 53  
    Purchases, 1955 – 57  
    Purchases, 1958 – 64  
    Purchases, 1964 – 68  
Weather Records  
Statistical Data , Davis  
Davis Rainfall Data  
Davis Weatherstation Data  
Davis, tables of temperature frequencies  
David, Relative humidity  
Weather Records

**Box #38** H.B. Shultz

Davis Weather data  
20 year frequency graphs  
Sun's position  
Soil temperatures – Davis  
Monthly radiation records – Davis  
Report: "Local Weather of the Chicana Valley," 1952  
Wind Patterns – Summer, Davis 1956  
Data  
Bacon Island Wind Direction Comparison, 1962  
Blowing Sand problem in the Coachella Valley, 1966  
Sand Blowing Palm Springs, 1963

Various Reports  
Peat dust – data, 1956  
Delta – dust, 1954  
Windbreak study – Davis poultry  
Data – Peat Dust Study – 1954-56  
Journal of meteorology – Aug. 1959

**Box #39**

Drawings of farm buildings and machinery, 1930-1965

**Box #40**

Leffel Pamphlet A  
Pacific Engineered Pumps  
Leffel Turbines  
Miscellaneous brochures on plumbing  
Wood, glue, trusses, preservatives, moisture meter  
Dam equipment  
Pamphlets about poultry raising and housing  
Poultry production structures  
Barns: horses, beef cattle, sheep  
Building economics, etc. AE 115  
Schedules and exams, AE 115  
Specifications for various farm structures  
Swine production structures  
Farm water supply  
Farm sewage disposal  
Packing shed equipment  
Grain storage  
Theory of grain bins and pneumatic electricity  
Cement and concrete AE 115  
Concrete design  
The Farm Home  
Silos  
Miscellaneous pamphlets about lumber

ALL BOXES ARE OVERSIZE & CONTAIN DRAWINGS AND ARCHITECTURAL PLANS.

**Box #41**

Gadgets, misc.

**Box #42**

Farmstead Buildings – House, Barn, Trailers, Pumphouses, Equipment Sheds.

**Box #43**

Charts, Graphics, & Visual Aids,

**Box #44**

Charts, Graphics, & Visual Aids.

**Box #45**

Central Garage, Pioneer Elementary School, Viticulture Field Laboratory

**Box #46**

Equipment & Facilities, Feed Crops

**Box #47**

Equipment & Facilities: Pigs; Rabbits & Bees; Sheep & Goats; Poultry.

**Box #48**

Equipment & Facilities: Poultry

**Box #49**

Equipment & Facilities: Beef & Dairy Cattle.

**Box #50**

Equipment & Facilities: Beef & Dairy Cattle.

**Box #51**

Equipment & Facilities: Fruit & vegetable crops.

MAPCASE: 1 folder containing USDA Farm Housing surveys, 1934

**BOX 55 (Folio Box)**

Folder 1: Ag Engineering Dairy Cattle Feed and Shelter Barn for Chopped Hay 1932

Literary productions, cartographic documents (2 copies) (1932)

Folder 2: Ag Engineering Dairy Cattle Feed and Shelter Barn (Monitor Roof) 1931

Literary productions, cartographic documents (2 copies) (1931)

Folder 3: Ag Engineering Dairy Cattle Feed and Shelter Barn (Gable Roof) 1932

Literary productions, cartographic documents (2 copies) (1932)

Folder 4: Ag Engineering 30 - Cow Milking Barn (2- String, cows facing in) 1938

Literary productions, cartographic documents (2 copies) (1938)

Folder 5: Ag Engineering 6 - Stall Walk-Thru Milking Barn and Milk House 1948

Cartographic documents (2 copies) (1948)

Folder 6: Ag Engineering 12 - Stall Milking Barn, Milk House and Grain Room 1948

Cartographic documents (2 copies) (1948)

Folder 7: Ag Engineering Hay Manager for Dairy Cattle 1931, 1932

Literary productions, cartographic documents (2 copies) (1931-1932)

Folder 8: Ag Engineering Breeding Rack For Dairy Cattle 1923, 1932

Literary productions, cartographic documents (1923, 1932)

Folder 9: Ag Engineering Bull Barn and Corrals 1931

Literary productions, cartographic documents (1931)

Folder 10: Ag Engineering Calf Barn 1930, 1932

Literary productions, cartographic documents (2 copies) (1930, 1932)

Folder 11: Ag Engineering Silage Bunk for Cattle 1918

Literary production, cartographic documents (2 copies) (1918)

## **BOX 56**

Folder 1: Ag Engineering Feed and Shelter Shed for Dairy Stock 1932

Literary productions, cartographic documents (2 copies) (1932)

Folder 2: Ag Engineering Feeding Barn- Beef and Dairy Cattle 1948

Cartographic documents (2 copies) (1948)

Folder 3: Ag Engineering 6 Cow 2 String tandem Milking Barn 1948

Cartographic documents (2 copies) (1948)

Folder 4: Ag Engineering 24 Cow 2 String Face-Out Milking Barn 1948

Cartographic documents (2 copies) (1948)

Folder 5: Ag Engineering Hoof-Trimming Crate 1931, 1932

Literary productions, cartographic documents (1931, 1932)

Folder 6: Ag Engineering 3 Cow Tandem Milking Barn with Commercial Stalls 1948

Cartographic documents (2 copies) (1948)

Folder 7: Ag Engineering 3 Cow Tandem Milking Barn with Home Built Stalls 1948

Cartographic documents (2 copies) (1948)

## **BOX 57**

Folder 1: Dedication Address and Photo of Ag. Engineering Building (1928)

Folder 2: Department of Agricultural Engineering (1968-1979)

Folder 3: Forest Engineering (1973)

Folder 4: Mini- Courses (n.d.)

Folder 5: Guide for Doctoral Students (1980)

Folder 6: Guide for Master's Students (1980)

Folder 7: Mobile Demonstration for Methane Production (1980-1981)

Folder 8: Agricultural Practices Facility (1951, 1991)

Folder 9: Journal of Cooperative Education Volume XX Number 2 (n.d.)

Folder 10: Silk Industry Project Committee (1944-1946)

Folder 11: Clippings on Electric Power (1928-1932)

Folder 12: Ag. and Industry: Partners in Public Service (1950)

Folder 13: Air Conditioning, Summer Comfort, Insulation (1934-1959)

Binder 1: Steve Szluka's Design Notebook of a Grape Harvester (1961)

Folder 14: Mechanical Grape Harvest (1962)

Folder 15: Viticulture Operations at Black Monukka (1963)

Folder 16: Information about Photo Collection (n.d.)

Folder 17: Photo of Bill Bilbo (n.d.)

Folder 18: Photo of Bill Bilbo at Di Giorgio Farms (1962)

Folder 19: Photo of Ernest Head (1954)

Folder 20: Photo of George Gianinni and Ernest Head (1954)

Folder 21: Photo of Steve Szluka and Lloyd Lamouria (1961)

Folder 22: Photo of Unknown Driver (1956)

Folder 23: Photo of Lloyd Lamouria and Bill Bilbo Looking at Grapes (1962)

Folder 24: Lloyd Lamouria and Others in a Field (1962)

Folder 25: Photo of Bill Bilbo (1962)

Folder 26: Photo of Bill Bilbo (1962)

Folder 27: Photo of Lloyd Lamouria and Bill Bilbo (1962)

Folder 28: Photo of Lloyd Lamouria and Bill Bilbo Looking at Grapes (1962)

Folder 29: Lamouria UCD Cutter for Grape Harvester Negatives (1956)

Folder 30: Lamouria UCD Cutter for Grape Harvester Negatives (1960-1961)

Folder 31: Lamouria UCD Cutter for Grape Harvester Negatives (1961)

Folder 32: Correspondence (1950s?)

Folder 33: List of Farm Building Plans (Nov. 1, 1944)

Folder 34: List of Farm Building Plans (July 1, 1946)

Folder 35: Instructions for Building and Operating a Two-Temperature Walk-in Farm Refrigerator. (June 1954)

- Folder 36: Contractors' License Law of California (1937)
- Folder 37: Dairy Farm Score Card (1947)
- Folder 38: Planning Your Dairy Barn. (February 1950)
- Folder 39: Labor-Saving Concrete Dairy Barns. (1953)
- Folder 40: A Septic Tank for Farm Homes. (1914)
- Folder 41: Two Temperature Walk-in Refrigerator for the Farm. (1951)
- Folder 42: Cooperative Farm Building Plan Exchange Plans No. 5854 to ????  
(1950s-1960s)
- Folder 43: Building Plans No. 1 to ???. University of California, Department of  
Agricultural Engineering, Agricultural Extension Service. (n.d.)
- Folder 44: Building Plans No. B-88. University of California, College of Agriculture,  
Division of Agricultural Engineering, Agricultural Extension Service. (n.d.)
- Folder 45: Building Plans No. C-18 to C-??? University of California, College of  
Agriculture, Division of Agricultural Engineering, Agricultural Extension  
Service. (n.d.)
- Folder 46: Unnumbered Building Plans (n.d.)
- Folder 47: Instructions for Farm Building Plans No. 4 to ?? (n.d.)
- Folder 48: Instructions for Farm Building Plans No. B-19 to B-??? (n.d.)
- Folder 49: Instructions for Farm Building Plans No. C-5 to C-135. (n.d.)
- Folder 50: Instructions for Farm Building Plans No. C-136 to C-149. (n.d.)
- Folder 51: Instructions for Farm Building Plans No. C-154 to C-??? (n.d.)
- Folder 52: Instructions for Farm Building Plans No. C-Ex. 5019, C-Ex. 5024,  
C-Ex.5025 (1930s)



Folder 53: Miscellaneous papers (n.d.)

Folder 54: Department brochure and bookmark (2014)

2 copies of *Brief history of the Biological and Agricultural Engineering Department, University of California, Davis and biographies of retirees and past employees, 1906-2000*

**BOX 58 (Folio Box) (1919-1965)**

Folder 1: Building Plans 5024 to 7132 (partial holdings)

Folder 2: Building Plans 7134 to 7175 (partial holdings)

Folder 3: Building Plans B-5-6-1 to B-45-1 (partial holdings)

Folder 4: Building Plans B-51-6-1 to B-100-2-2 (partial holdings)

Folder 5: Building Plans B-101-1-1 to B-536 (partial holdings)

**BOX 59 (Folio Box) (1918-1953)**

Folder 1: Building Plans C to C-40-1 (partial holdings)

Folder 2: Building Plans C-54-2-2 to C-96-2-2 (partial holdings)

Folder 3: Building Plans C-103-1 to C-150-2-2 (partial holdings)

**BOX 60 (Folio Box) (1932-1961)**

Folder 1: Building Plans C-154 to C-196-1 (partial holdings)

Folder 2: Building Plans C-205-1 to C-242-1 (partial holdings)

Folder 3: Building Plans C-532 to C-1-7158-R-S (partial holdings)