

Iowa Agriculture and Home Economics Experiment Station Project Files, RS 9/2/5, Special Collections and University Archives Department, Iowa State University Library.

The following is a listing of files received by the Special Collections and University Archives, Iowa State University Library, from the Iowa Agriculture and Home Economics Experiment Station in 2014. The listing was compiled by Experiment Station staff and used as their inventory for the project files. This listing includes project numbers and titles; entries for project start and end dates are incomplete.

Access to the files is available through the Special Collections and University Archives Department. For more information regarding this collection see the finding aid:

<http://www.add.lib.iastate.edu/spcl/arch/rgrp/9-2-5.html>

Iowa Project #	Project Title	Start Date	End Date
0002	Development, Operation and Maintenance of Shelby-Grundy Experimental Farm	1/3/1949	
0002	Development, operation and maintenance of Shelby-Grundy Experimental Farm	8/25/1968	1/1/1999
0004	Agricultural Engineering Research Farm Maintenance	3/16/1946	
0005	Development operation and maintenance of agricultural engineering farm	7/1/1946	1/1/1999
0006	Development operation and maintenance of agronomy farm	7/1/1949	1/1/1990
0007	Development operation and maintenance of Ankeny Field		
0009	Development operation and maintenance of Southern Iowa experimental farm		12/31/1980
0010	Development operation and maintenance of Western Iowa experimental farm		
0011	Development operation and maintenance of Howard County experimental farm		10/28/1970
0012	Development operation and maintenance of soil conservation experimental farm		12/31/1980
0013	Development operation and maintenance of Carrington-Clyde (Northeast) experimental farm		
0014	Development, Operation and Maintenance of Northern Iowa Experimental Farm	7/1/1948	
0015	Development, Operation and Maintenance of Southern Iowa Experimental Farm	2/10/1948	
0018	Horticulture Farm Operations		
0019	Development operation and maintenance of Brayton Memorial Forest		
0020	Development operation and maintenance of Muscatine Island Experimental Farm		

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Iowa Project #	Project Title	Start Date	End Date
0021	Operation and maintenance of Ankeny buildings		12/31/1981
0022	Development operation and maintenance of Clarion Webster (Northern) experimental farm		
0023	Iowa vegetable crop production Missouri River Valley	1/7/1984	1/1/1999
0027	Development, Operation and Maintenance of Albia Experimental Farm	7/1/1937	
0028	Development operation and maintenance of beef nutrition farm		
0029	Development operation and maintenance of Northwestern Iowa experimental farm		
0030	Development operation and maintenance of Curtiss (Iowa State Research Farm) experimental farm		
0031	Development operation and maintenance of George M Allee experimental farm		
0032	Development operation and maintenance of Bilslund Memorial Farm		
0033	Development operation and maintenance of new agronomy farm Kramme		
0035	Development operation and maintenance of McNay Memorial Farm also Albia Farm		
0045	Lancaster experimental farm		
0101	Statistical services in the animal sciences and plant sciences		
0102	Editorial and publication services to research projects		
0103	AES engineering services	7/1/1949	1/1/1999
0104	Experiment Station Photographic Service	7/1/1946	6/30/1968
0105	Wildlife research administrative services		
0105	Wildlife research administrative services	7/1/1948	
0106	Administration of fishery projects		9/14/1989
0107	Analytical Services		
0108	Maintenance for Pure Seed of Improved Farm Crop Varieties	7/1/1950	6/30/1969
0109	Operation and Maintenance of Cars and Trucks		
0110	Plant disease survey of Iowa prevalence distribution and losses		
0111	Summarization and analysis of farm records		

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0113	Statistical services for sampling investigations		
0114	Radiation and Other Technical Services to Agricultural Experiment Station Personnel	7/1/1950	6/30/1968
0115	The Iowa insect collection		
0118	Services to nutrition research activities with experimental animals	7/1/1983	6/30/1988
0151	Administrative services to special research and development unit	7/1/1955	
0152	Administrative services to agricultural and biosystems engineering	7/1/1950	
0153	Administrative Services to Agronomy	7/1/1950	
0154	Administrative Services to CARD (Center for Agricultural and Rural Development)	7/1/1971	1/1/1999
0155	Administrative services to animal science	7/1/1950	
0156	Administrative services to dairy science	7/1/1950	
0157	Administrative services to animal ecology		12/1/1974
0158	Administrative services to bacteriology (microbiology)	7/1/1950	
0159	Administrative Services to Plant Pathology	7/1/1950	
0160	Administrative services to biochemistry and biophysics	7/1/1951	
0161	Administrative services to food technology	7/1/1950	
0162	Administrative services to economics	7/1/1950	
0163	Administrative services to forestry	7/1/1950	
0164	Administrative services to zoology/genetics	7/1/1950	
0165	Administrative services to home economics	1/7/1950	
0166	Administrative services to horticulture	7/1/1950	
0167	Administrative Service to Information Service		
0168	Administrative services to poultry science	7/1/1950	
0169	Administrative services to statistics		
0170	Administrative Services to Vocational Education	7/1/1950	
0171	Administrative services to entomology and wildlife	7/1/1960	
0172	Administrative services to sociology	7/1/1966	
0174	Administrative Services to Seed Science Center	7/1/1987	1/1/1999
0175	Administrative services to Veterinary Medicine	7/1/1974	

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0180	Development operation and maintenance of the agronomy greenhouse and growth chamber facilities	10/1/1985	9/30/1990
0182	USDA-Sp Res-Hazen (Crambe)	10/1/1986	3/31/1988
0191	Electron microscope		
0192	Iowa program for national agricultural pesticide impact assessment program NAPIAP		8/21/1980
0193	Iowa's contribution Natl Ag Pesticide Impact Assessment Program	3/30/1979	4/30/1989
0194	Production, distribution and adaptation of new or improved varieties of field crops	10/1/1980	9/30/1981
0195	Maintenance & evaluation of pure seed sources of crop cultivars through seed certification	7/1/1969	6/30/1974
0218	Horticulture Farm Operations	7/1/1996	9/30/2001
0254	Administrative Services to Center of Agriculture and Rural Development	7/1/1996	9/30/2001
0260	Services to Bioschemistry and Biophysics	7/1/1996	9/30/2001
0261	Services to Food Science and Human Nutrition	7/1/1996	9/30/2001
0263	McIntire-Stennis Administration Project	10/1/2009	9/30/2014
0265	Services to Home Economics	7/1/1996	9/30/2001
0266	Services to Horticulture	7/1/1996	9/30/2001
0268	Services to Poultry Science	7/1/1996	9/30/2001
0270	Administrative Services to Agricultural Education and Studies	7/1/1996	9/30/2001
0272	Services to Sociology	7/1/1996	9/30/2001
0291	Electron Microscope	7/1/1996	9/30/2001
0301	Development of improved technology for conservation		
0363	McIntire-Stennis Administration Project	10/1/2014	9/30/2019
0610	Report on Weather-Yield Studies of Corn		
0654	Breeding Oats for Improved Adaptation, Quality and Yield		
0750	Change in Cotton, Linen, Rayon, and Cellulose Secondary Acetate with Temperature of Steaming	7/9/1963	7/10/1963
0814	Study of the prenatal and postnatal nutrition of the dairy calf		

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0869	Utilization of grains and roughages in fattening cattle and lambs		6/30/1969
0890	Design of experiments and analysis of the data		1/1/1999
0943	New Methods of Assessing Vitamin A Status		7/31/2001
0955	Problems in Fruit Growing on Loess Hill Soils in Southwestern Iowa		
0993	Evaluation of protein nutrition and basic dietary requirements role of fat in regulation of nitrogen metabolism		6/30/1969
0998	Movement of water and gases in soil and their relation to other physical properties		6/30/1971
1003	Field investigation of subsurface and surface draining		6/30/1969
1005	Design of surveys and analysis of the data		6/30/1969
1029	Egg marketing - economic aspects, survey and appraisal of egg marketing methods in Iowa		
1039	Effect of Inbreeding in Domestic Fowl		
1040	Methods of Testing Inbred Line Crosses in Domestic Fowl		
1043	Improving farm tenure in Iowa		6/30/1969
1047	The Study of oak wilt caused by <u>Endoconidiophora fagacearum</u> Bretz		
1048	Improvement of forage legumes through breeding and pathological investigations.		6/30/1973
1050	Enumeration and characterization of microorganisms important to quality of milk and milk products		6/30/1969
1053	Improvement of dairy cattle through breeding	10/1/1987	9/30/1992
1054	Small fruits breeding and cultural studies		6/30/1969
1055	Improvement of Beef Cattle through Breeding Methods		
1061	Evaluation of the Requirements for Normal Reproduction in the Rat in Relation to the Vitamin B Complex		
1062	Physiological responses of young chickens as measures of adequate nutrition		
1063	Effect of genetic differences and stress on nutrient requirements of laying hens		
1064	Erosion control and water conservation investigation		6/30/1969

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1069	Land valuation and the land market		6/30/1969
1070	Studies on Transformations of Nutrient Elements in Decomposing Plant Materials and in Soils, Using Isotopes as Tracers		6/30/1970
1073	Classification and distribution of leguminsae native and naturalized with the United States		6/30/1969
1083	Expediting marketing of seed through improved testing		6/30/1969
1094	Land use and soil conservation		6/30/1969
1101	Biology and control of the wooly apple aphids and other nursery insect pests		
1103	Culcral and marketing studies with sand land vegetable crops		6/30/1964
1116	Structural and enzyme studies on carbohydrates		6/30/1970
1119	Parasites and diseases of wildlife		12/31/1969
1123	Development of Acceptable Canned Meat Products through Investigation of the Biochemical, Physical and Organoleptic Changes Involved in Aging, etc.		
1127	Improvement of swine through breeding		6/30/1974
1135	Current Studies in Production Economics and Farm Management		6/30/1969
1136	Classification and distribution of gramineae in Iowa		6/30/1970
1139	Growth and differentiation of plants		6/30/1968
1148	The long time effects of lime fertilizers and manure on the productivity of soils		12/31/1969
1163	Forecasting crop plant diseases		6/30/1969
1167	Investigation of farm building losses due to wind and fires		6/30/1980
1170	A study of different varities and strains of corn in different parts of Iowa		6/30/1974
1176	Development and testing of improved oat varieties and other small grains		6/30/1969
1179	Development of superior soybean strains		6/30/1975
1183	Soil and fertilizer phosphorus and their availability to plants		8/30/1970
1188	Problems in the manufacture and packaging of ripened cheese		6/30/1969

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1190	The improvement calibration and use of chemical tests for determining the fertilizer and lime needs of Iowa soils		6/30/1971
1191	Estimation and characterization of soil type slope erosion conditions in Iowa counties and by soil association		12/31/1969
1205	Effect of alternative land use systems upon the properties and productivity of the major soils of Iowa		6/30/1971
1207	Research in sample census methods in agriculture		
1208	Physiological and biochemical studies concerned with improved production and usefulness of ruminants		6/30/1969
1211	Greenhouse crop production with emphasis upon environmental control irrigation methods and soil management practices		6/30/1971
1214	Packaging of nursery stock for shipping and retail markets		6/30/1969
1218	Vegetative reclamation of Iowa coal strip mine banks		6/30/1969
1234	Nature and behavior of potassium in soils		
1235	Soil structure and crop production		6/30/1973
1238	Propagation and culture of horticultural plants evergreens and deciduous trees and shrubs		6/30/1968
1247	Irrigation investigations in Iowa		
1250	Soil landscape environment		6/30/1969
1251	Decay of trees		
1253	Competencies needed by males employed in farming and off-farm agriculture		
1254	Transportation costs and patterns in the movement of soybeans, cottonseed and products		
1255	Basic problems in agricultural cooperation		6/30/1969
1258	Physiology of Phytopathogenic Fungi		
1259	Mechanism of Action of Water-Soluble Vitamins in Enzymic Catalysis		
1261	Primary Markets for Native Timber in Southeastern Iowa		
1264	Changes Occurring in Cured and Aged Meats		
1266	Physical and economic analysis of watersheds as related to soil and water conservation		6/30/1970

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1267	Physical and chemical aspects of bloat		12/31/1969
1272	Family Attitudes Towards Care and Maintenance of Children's Clothing		
1276	Soil and climate factors affecting the efficient use of water by crops		1/1/1973
1278	Evaluation of the Iowa Extension farm family development program		
1280	Weather information for agriculture		6/30/1970
1282	Development of materials handling systems for North Central Farms		6/30/1970
1287	Secondary markets for wood in Iowa		
1291	A study of congenital abnormalities heretofore unassociated with Avitaminosis E		6/30/1969
1293	Economic and agronomic interpretation of fertilizer use data		6/30/1969
1296	Farm storage and conditioning of grains		6/30/1969
1298	Studies of the Non Triglyceride Portion of Milk and Milk Products		5/31/1972
1299	Relation between multiple mothering and the physical, personal and social adjustment of children		
1307	Feeder cattle production under midwestern farm conditions		6/30/1969
1310	Stock scion relationships in horticultural plants		6/30/1971
1312	Sampling in soil surveys		
1313	Beef skeletal muscle connective tissue in relation to tenderness in meat		
1314	Rural leadership development as influenced by the home: Development in pre-adolescence		
1316	Nonfarm adjustments in Iowa agriculture		
1319	Problems and practices of young families in getting established in farming		
1320	Pilot study to determine methods of diffusion ideas and to do further depth analysis of diffusion process		
1324	Postnatal nutrition of the calf		6/30/1971
1325	Reproduction in farm animals		6/30/1975

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1326	Methods of testing inbred line crosses in the domestic fowl		
1327	Investigation of turkey production problems in Iowa		
1328	Adjustments in farming to meet changes in price cost ratios farm programs and other economic situations		6/30/1970
1329	Iowa soils resources their classification correlation and mapping		6/30/1975
1330	Anatomical and physical properties of woods		6/30/1969
1331	Functional design requirements and performances of farm equipment		6/30/1970
1332	Improvement of Honey Bees Through Breeding		
1333	Development of improved forage grasses		6/30/1969
1335	Genetical and cytological studies of maize		6/30/1971
1336	Effects of pesticide residues on feed and forage fed to livestock		
1337	Pathogenicity of plant parasitic nematodes and their interaction with other microorganisms		6/30/1971
1348	Microbial and biochemical enzymology and ecology of farm animals and agricultural products		6/30/1969
1351	Metabolic studies of insecticides and their residues		12/1/1971
1354	Econometric analysis as a basis for economic policy		6/30/1970
1355	Long and short-run elasticities of demand for farm products		
1356	Water infiltration into soils		12/31/1969
1358	Informational restrictions on the rate of labor transfer from agriculture		
1364	Breeding and cultural studies with grain sorghums		6/30/1972
1365	Utilization of carotene in relation to protein metabolism in the rat		
1368	Effects of industrial development on the agricultural and urban sectors of an Iowa community		6/30/1969
1372	Factors affecting fish production in ponds		6/30/1969
1373	Stream Biology as Related to Fish Production		6/30/1970
1374	Dynamics of fish populations in natural lakes		6/30/1974
1377	Crop yielding capacity of Iowa soil types under different soil management and fertility levels		6/30/1972

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1378	Factors determining microbial activity in some Iowa soils and the quantitative measurement of the rate of certain microbial processes in soil		6/30/1971
1379	Microbiology of frozen meat and frozen cream pies		
1380	Analysis of certain gene relations in poultry		
1381	Genetic studies involving albino mutants and translocation in maize		12/31/1970
1384	Amino acids and peptides		12/1/1969
1385	Evaluation of field testing procedures for measuring the performance of poultry		
1386	Expediting the storage and marketing of seed through improved packaging		
1388	Population trends of Iowa insects		6/30/1970
1390	Survey to determine incidence and possible effect of some species of blood parasites on pheasants and bobwhite quail in Iowa		
1391	Roosting flight counts for determining population of wood ducks		12/31/1969
1392	Determining and improving the microbiological quality of poultry and poultry products		
1393	Thermal destruction of bacterial spores		6/30/1971
1394	Serological studies of pheasants in Iowa		
1395	Breeding history of white-tailed deer, pheasant and quail as indicated from studies on condition of ovaries		
1396	Response of swine to cycling physical factor variation		
1399	Investigation of the cholesterol and other constituents in chicken eggs and factors affecting these constituents		
1400	Nutritive value of poultry meat		
1401	Determination of the relationship of fat content to palatability and physical properties of selected samples of meat		
1404	Effect of product development, merchandising and promotion on the demand for livestock in relation to agricultural adjustment		
1405	Adjustment in the structure of national agricultural production and resource use to economic change		6/30/1971

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1406	Demands for factors supplies of products and general equilibrium of resource use and agricultural production an aggregate analysis of adjustment in american agriculture		6/30/1970
1409	Economic analysis of the spacial distribution and structure of procurement processing, and merchandising facilities for livestock and meat		
1411	International trade		6/30/1970
1413	Prediction of teaching success of home economics graduates, Iowa State College		
1420	Diffusion of information about construction of farm houses		
1422	Impact of a mass media promotional device upon the adoption of an agricultural chemical		
1424	Genetic effects on irradiating swine		6/30/1970
1427	Relationships among nutrients during growth and maintenance of albino rats		
1431	Efficiency of utilization of machines power units and machine systems in crop production		6/30/1969
1432	Basic studies of vegetable diseases and their causative agents		
1433	Methods of handling liquid manure in swine finishing units		
1434	Biological relationships of insects and plants		
1435	Biochemical studies of insects and chemicals used to control insects		6/30/1969
1436	Reponse of vegetable crops to environment		
1439	Analysis of agricultural policy proposals on a short term but continuing basis		6/30/1969
1440	Adjustment of rural migrant families in urban areas		
1444	Institutions obstructing and facilitating agricultural adjustments		6/30/1969
1445	Economic and legal factors in providing using and managing water resources in agriculture		6/30/1971
1446	Politcal bases of Agricultural Policy		
1448	Consultation and research in mathematical and genetics statistics		6/30/1973

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1450	Development of a methods for the identification and estimation of the nitrogen compounds in soils		
1452	Ecology of the ring necked pheasant in selected areas in Iowa		6/30/1972
1453	Breeding culture and propagation of roses and herbacious ornamental plants		6/30/1970
1454	Breeding and culture of pot plants		6/30/1970
1455	Selection and management of turfgrass species and strains		
1457	Management of Iowa hardwoods		12/30/1970
1458	Changes in the Structure and Operation of the Dairy and Egg Production and Marketing Industry		
1460	Adjustments in Livestock Marketing in the North Central States to Changing Patterns of Production and Consumption		
1462	Market Structures and Pricing in the Livestock Industries		
1465	Adjusting Market Structures and Conduct to Improve the Bargaining Power of Farmers		
1466	Analysis of long run effects of alternative national agricultural policies		6/30/1970
1468	Interrelation of laboratory germination, planting rate and field conditions upon stand establishment in small-seeded legumes and grasses		
1469	Effects of an educational program on dealers use of fertilizer		6/30/1969
1472	Chemical and Physical Effects of Light on Plants		
1474	Physiological aspects of crop production		6/30/1970
1476	A revision of the nearctic species of Leiini (Diptera, Mycetophilidae, Sciophilinae)		
1477	Number and characteristics of farming opportunities		6/30/1969
1479	Development of rapid tests for seed viability		
1481	Factors influencing adjustments to changing M market organization and technology in the Iowa egg industry		
1482	Forest tree improvement through selection and breeding phase II		6/30/1970

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1483	Alternative tenure arrangements in relation to present and prospective supplies and demands for farming opportunities.		6/30/1969
1484	Analysis of supply response and adjustments in pork and beef production with interrelationship to other livestock and geed products		6/30/1970
1485	Action of bacterial anylases on sarch fractions		6/30/1972
1486	Tillage requirements for crop establishment for soil and water conservation		6/30/1972
1487	Growth and developmental response of crop plants to light and co 2		6/30/1975
1488	Physiology of microorganisms in cultured dairy products		6/30/1970
1489	Insect resistance in crop plants		12/30/1970
1491	Impact of changing conditions on grain marketing institutions and the structure of grain markets		
1492	Prediction of management ability of farm operations		
1493	Relationship between values and attitudes and positions taken by farm people regarding agricultural adjustments and policies		6/30/1969
1494	Income approach to farm policy		
1495	Competitive structure and performance in agricultural supply industries		6/30/1970
1496	Effects of agricultural adjustment on the growth of farm-related businesses		
1497	Population dynamics and relationship to selected social and economic factors		
1498	Residential history, occupational history and other characteristics of Iowa migrants, 1950-1960		
1499	Nutritional requirements of human beings and experimental animals		
1500	Nutritional and quality aspects of honey and honey products		
1501	Washing conditions provided by specific cycles of automatic washers and their effect on washable cotton fabrics with specified finishes		6/30/1969

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1502	A Study of the effect of season age of weaning and line on lamb performance and eve reproduction phenomena		6/30/1972
1503	Management factors and their influence on costs rate of gain and carcass quality of beef calves and yearlings		6/30/1969
1504	Marsh management and waterfowl population		6/30/1972
1505	Role of errors of parameter estimation in index selection		
1506	Cost volume relationship in festaurant operation		6/30/1969
1507	Genetic role of chromosome pairing		
1508	Monte Carlo studies of genetic selection		
1510	Enzymic structure and action I glycogen phosphorylase II other enzymes		6/30/1970
1511	Nutritional and management factors influencing the pregestation gestation and lactation performance of swine		6/30/1969
1512	The postnatal nutrition of pigs		6/30/1969
1513	Nutritional and management factors influencing the performance and carcass characteristics of growing finishing swine		6/30/1969
1514	Effect of quantity and quality of feeds and feed accessories on yield, composition and quality of milk and the well-being of dairy animals		
1515	Poultry and egg marketing: technological aspects; measurements of quality in poultry and egg products using subjective and objective tests		
1516	Soil conditions nutrient uptake by plants and plant growth		6/30/1971
1517	The autoxidation glyceride structure and fatty acid composition of fats		6/30/1970
1518	The relationship of personal social and economic characteristics of farmers and equipment dealers and the purchase patterns and use of farm machinery		6/30/1969
1519	Herbicides their adaptation to horticultural crops and studies of contamination		6/30/1971
1520	Physiology and dormancy of weed seeds as related to control methods		12/31/1971

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1521	Development of specifications for improving machinery and methods for the control of weeds		6/30/1969
1523	Investigation of egg lipids		6/30/1969
1526	Bacteriological and protozoal degradation of carbohydrates of forages by pure cultures of rumen microorganisms		
1527	Isolation and characterization of enteric viruses of young pig		
1528	Bioecology of the interrelated infections of avian airsacculitis		6/30/1972
1529	The role of communication in attitude formation and behavior related to fallout shelters		6/30/1971
1530	Efficient fertilizer use and agronomic production functions		6/30/1971
1532	Factors affecting food purchases of families		
1533	Cinemanalysis of emotional response of infants		
1534	Bases for planning a curriculum in homemaking for junior high school pupils in Iowa		12/1/1969
1535	State and federal regulation of agricultural marketing		
1536	Continuous culture of tissue vells and microorganisms		6/30/1969
1537	Nature and extent of crop weed competition between annual weeds and corn and soybeans		6/30/1969
1538	Ecology of natural and disturbed areas		6/30/1970
1539	Pasture and forage production management and utilization in relation to land use and agricultural adjustment in Iowa		6/30/1972
1540	Genesis and morphological characterization of Iowa soils		6/30/1973
1541	Effects of high energy rations on growth and on yield and composition of milk of dairy cattle		6/30/1969
1542	Biology and control of cereal and forage insects		6/30/1969
1543	Relationship of calling doves to breeding pairs and production		
1544	Evaluating the microbiological quality of eggs and egg products		

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1545	Economic study of the use of reclaimed shipping material on egg damage and handling efficiencies in the egg products trade		
1546	Methods for the separation and purification of complex lipids		
1547	Studies on protein synthesis, structure and function with amino acid analogs		
1548	Biochemical function and synthesis of ribonucleic		6/30/1972
1549	Physical and chemical components of muscle Tissue Related to Meat Quality and Palatability		12/31/1969
1550	Organization and Finance of Local Government in Rural and Suburban Fringe Areas		6/30/1969
1551	Immunogenetics		6/30/1969
1552	Factors affecting the quality of fresh, frozen and processed poultry meat in market channels		
1553	Oviposition site selection by mosquitoes		
1554	Biology and control of insects of medical and veterinary importance in Iowa		
1555	Design, development and testing of a medicating device for automatic livestock watering systems		
1556	Agronomic survey of potential industrial oil and fiber crops for culture in Iowa		
1557	Nursery Crop Diseases with Emphasis on Stone and Pome Fruit Viruses		6/30/1970
1558	World Food Resources and Economic Development of Agriculture		6/30/1979
1559	Testing and Modification of Laboratory Techniques for Evaluating Forages		6/30/1972
1560	The Influence of Nutrition on Health During Aging		6/30/1969
1561	Body composition of Humans		12/31/1969
1562	Factors Affecting the Role of Micro organisms in the Biological Control of Insect Pests		12/31/1969
1563	Genetic studies of physiological variation with species of insects		
1564	A Limnological Inventory of Iowa Lakes and Streams		6/30/1969
1565	Immunogenetic Studies of Wild Pheasant Populations		12/31/1969

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1566	Dietary Supplementation Selection and Breeding on Carcass Quality and Tissue composition of Meat Animals		10/31/1969
1567	Effect of temperature on lactating sows and their litters		
1568	Taxation, education and economic development in Iowa		
1569	Implications of the European common market for midwestern agriculture		
1570	Role of price and local market organizational in agricultural development: a case study in Indonesia		
1571	Agricultural and Industrial Development in Relation to Iowa's Economic Growth		6/30/1969
1572	Trading Patterns of Iowa Farmers and Non farm Residents with Reference to Local Business Growth and Community Development		6/30/1969
1573	Estimation of Enterprise Costs and Returns on Selected Farms by Supervised Record Keeping		6/30/1973
1574	Population characteristics of North Central regional type areas		
1575	Development and Evaluation of Breeding Principles and Procedures for the Improvement of Corn Hybrids		6/30/1971
1576	An economic study of farm buildings in Iowa		
1577	Effects of Physiological Seed Deterioration on Plant Growth and Development		6/30/1971
1578	Statistical and Economic Analysis for Long term Rotational Agronomic Experiments		6/30/1969
1579	Needs of children and families for day care services		
1580	Forest Recreation Investment Opportunities in Iowa		6/30/1970
1581	Utilization of bacterial fatty acids by protozoa and higher animals		
1582	Photosynthesis Respiration and Growth of Seedlings of Two Iowa grown Forest Tree Species in Relation to Genetic and Environmental Factors		6/30/1970
1583	Tension wood in silver maple; its cell wall structure as related to moisture changes		

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Iowa Project #	Project Title	Start Date	End Date
1584	Modes of Withdrawal from Active Occupational Roles by Farmers Small Town Merchants Professionals and Factory Workers 50 and Older in Iowa		6/30/1969
1585	Evaluation of quality in irradiated meats		
1586	Quatitative description of water-shed parameters and their relationship to runoff		
1587	Potential markets for furniture wood in the north central region		
1588	New techniques to air forest management decision making		
1589	Seed dormancy condition, biological timetable for weed control		
1590	Identification of social-psychological correlates of rural dependency		
1591	Market Grades and Standards for Specified Cut Flower and Potted Plant Crops		6/30/1970
1592	Economic biology of corn rootworms		
1593	Investigation of the control of life span and secretory activity of the corpus luteum in the beef cow		
1594	Inventory of Selected Resources and Activities Basic to the Economic Development in the Creston Osceola Area		6/30/1967
1595	Intersensory transfer of learning in young children		
1596	Swine housing environment		6/30/1971
1597	Effect of distribution practices on response to information		
1598	Home economic management problems		
1599	Development of a Theory of consumer Demand for Clothing		6/30/1969
1600	Dimensions and variations in images of consumers		
1601	Housing and Equipment for Homemakers 65 to 80 Years		6/30/1969
1602	Utilization of Dietary Fat from Various Sources		6/30/1969
1603	Beef carcass evaluation (the influence of growth rate and maturity on bovine muscle, connective tissue and meat quality)		
1604	Trends in Rural Political Structure		6/30/1970

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Iowa Project #	Project Title	Start Date	End Date
1605	Mechanical harvesting of small fruits		6/30/1969
1606	Evaluation of adhesive formulations using dried soluble blood		
1607	Personal values held by Iowa homemakers and utilization of educational opportunities available to them		
1608	Drought Injury and Resistance in Plants		6/30/1970
1609	Nutrition and the Development of Children as Related to Economic and Agricultural Change in Iowa		6/30/1969
1610	An inventory study of the available input resources and the potential profitability of private investment in selected industries in NIAD		
1611	Experiments in game theory: the effects of negotiation upon decision-making in 2,3 and 4 person simulation systems of asymmetric information control		
1612	Community Adjustments to Social Change in the North Central Region		6/30/1970
1613	Resource Utilization, Factor Shards and Structures of Agricultural Marketing Industries		6/30/1969
1614	Alternative Methods and Effectiveness of Transferring Risks by Iowa Agricultural Business		6/30/1970
1615	Regional Product and Income Accounts for Rural Economic Development		6/30/1968
1616	Capital Requirements in Farming		6/30/1971
1617	Relation of alienation to educational and occupational mobility in rural youth		
1618	Vegetable Breeding and Genetics		6/30/1969
1619	Adoption of agricultural technology by the Indians of Guatemala		
1620	Factors related to tenure of employment of agricultural education graduate of Iowa State University of Science and Technology		
1621	Microwave food preparation		
1622	Factors related to farm record and business analysis systems used by farm operators in Iowa		
1623	Insect Plant Interactions		6/30/1970

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Iowa Project #	Project Title	Start Date	End Date
1624	Trace Levels of Pesticide Residues in Agricultural Commodities in Marketing Channels		6/30/1969
1625	Monitoring and Assay of Phytotoxic Airborne Pesticides and Volatile Pollutants		6/30/1969
1626	Analysis of Fertilizer Dealers Operating Abilities & Adjustabilities to Change		6/30/1971
1627	Physiological Studies on Growth and Development of Horticultural Crops		6/30/1971
1628	Dwarfing Virus Diseases of Corn		6/30/1970
1629	The Effect of Genotype Environment and Management Practices on Soybean Seed		6/30/1970
1630	Isolation and identification of fungi on soybean pods and seeds		
1631	Factors affecting the flame control of weeds in soybeans and other crops		
1632	The Development of Improved or New Egg White Products Through Chemical and Enzymic Modifications		6/30/1969
1633	Soil and water management on sloping agricultural land in the upper Mississippi Valley		
1634	Long run Adjustment in Livestock Market Organization in the North Central Region		6/30/1969
1635	Dairy Marketing Adjustment Problems in the North Central Region		6/30/1971
1636	Cost Reducing Structural Adjustments in Turkey Marketing		6/30/1969
1637	Improving Acceptability Stability and Utilization of Poultry Products		6/30/1970
1638	Information distribution variables and their relationships to message effects		
1639	Demographic analysis pertinent to ascertaining Iowa's needs in furnishing education beyond high school		
1640	Factors Related to Proper Use and Misuse of Pesticides		6/30/1969
1641	Effect on programs and outcomes of the attitudes and values of personnel dealing with the poor		
1642	Managerial goals and objectives and their impact on the efficiency of local agribusiness firms		

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Iowa Project #	Project Title	Start Date	End Date
1643	Effects of Location and Service Charges on Outdoor Recreation		6/30/1969
1644	Growth Centers and Transportation Systems in Area Resource Development		6/30/1969
1645	Cooperative Enterprise in the US Economy Economics Impacts and Potential Role		6/30/1970
1646	Cost optimization of a bulk milk transportation system		
1647	Basic Studies on the Extent Nature and Significance of Low Temperature Adaptation and Chill coma in Stored Products Insects		6/30/1969
1648	The Biochemical Basis for Resistance of Maize to Attack by the European Corn Borer		6/30/1971
1649	Pilot study of work study courses		
1650	Causes and severity of wood-use problems in residential construction in Iowa		
1651	Project Administration Admin & Travel ISWRI		6/30/1973
1652	Evaluation of flood damage to corn from controlled depth and frequency of flooding		
1653	Moisture Movement of Vertical Sinks in Water Unsaturated Soil		6/30/1969
1654	Competitive Recreational Uses of Selected Iowa Lakes		6/30/1970
1655	Properties of tile drainage water		6/30/1970
1656	Geohydrology of 4 mile Creek Area Tama Co Iowa and Influence in landscape Evolution and Soil Formation		6/30/1969
1657	Immunologic Aspects of Bovine Lymphosarcoma		12/31/1971
1658	Determination of homoallelic reversion in neurospora		
1659	A Cytogenetic Analysis of a Complex Locus in Drosophila		12/31/1972
1660	Principles of particle distribution in blended seed		
1661	Importance of noise and its potential effect on wood use in garden apartments- A pilot study		
1662	A study of management nutrition and breeding factors as related to productivity of beef cow herds in Southern Iowa		6/30/1973
1663	The Effect of Processing History on the Solution and Diffusion of Vapors in Wood		6/30/1970
1664	Breeding Biology of Big Game		6/30/1972

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Iowa Project #	Project Title	Start Date	End Date
1665	Wild turkey status in Northeast Iowa		
1666	Studies on the Mechanism of Enzyme Action		6/30/1973
1667	Composition and Metabolism of the Lipids of the Phytomastigina		6/30/1971
1668	Genetic control of hemoglobin structure in chironomus		
1669	Research in Mathematical and Statistical Genetics		6/30/1982
1670	Interactions of Source Message Channel and Received Variables and Their Relationships to Message Effects		6/30/1971
1671	The Effect of Composition Distribution and Quantity of Lipids on Beef Quality		6/30/1974
1672	Role of Prestige in Occupational and Educational Choices of Rural Youth		6/30/1971
1673	Design and development of a total corn harvesting system		6/30/1972
1674	Impact of Technological Change and Agricultural Adjustments on the Agri Business Sector in Iowa		6/30/1971
1675	Projections of the Iowa Livestock Economy to 1980		6/30/1969
1676	Urban and Regional Economic Studies		6/30/1969
1677	Information Systems for Regional Economic Development		6/30/1970
1678	Economics of Vertical Integration of Iowa Agricultural Processing and Marketing Organizations		12/31/1969
1679	Alternative Methods of Raw Material Procurement and Their Potential for More Efficient Use of Iowa Processing Facilities		6/30/1969
1680	Analyses of beef cow calf operations on Iowa farms		12/31/1973
1681	Avian Immunogenetics		6/30/1969
1682	Mutants and Radiation induced Chromosome Rearrangements in the Mouse		12/31/1969
1683	River Basin Planning		6/30/1970
1684	Survey of guidance services in Iowa		
1685	Maximizing the utilization of biological and physical resources in the development of superior soybean production systems		12/31/1971
1686	Reduction of Hazards Associated with the Presence of Residues of Insecticidal Chemicals in the Environment		6/30/1970

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Iowa Project #	Project Title	Start Date	End Date
1687	Studies of the biotypes of the European corn borer		6/30/1971
1688	Effects of Government Price Regulation of Basic Subsistence Commodities on Production and Productivity in Mexican Culture 1935 through 1964		6/30/1969
1689	Impact of Changing International Trade in Grain Including Soybeans and Soybean Products on Marketing of United States Grain		6/30/1971
1690	Prescribed burning and its relationship to bobwhite quail populations on the Mount Ayr Game Management Area, Ringgold County, Iowa		
1691	Economic Development in Rural Communities		6/30/1970
1692	Soybean Root Development and Distribution in Relation to Plant Growth Stages for Several Varieties		6/30/1970
1693	Development and Application of Computer Aided Farm Planning Methods		6/30/1971
1694	Genetic Studies on Segregating Inbred Lines of Chickens		6/30/1972
1695	Development of Improved Flowering Shrubs		6/30/1972
1696	Factors Related to Storage Instability of Turkey		6/30/1970
1697	Study of Nutritional Genetic and Production Influences on Qualitative and Quantitative Characteristics of Pork Carcasses		6/30/1972
1698	A Mechanism for Penetration of Soybean Roots by Soil Fungi		6/30/1970
1699	The Development of an Information Storage and Retrieval System for Agricultural Marketing Research and Extension Programs at Iowa State University		6/30/1969
1700	Relative Profitability of Major Timber Management Opportunities in the Lake States		6/30/1972
1701	Sociology of Development		6/30/1972
1702	Sociological and Social Psychological Variables Related to Adoption and Diffusion of New Ideas and New Technology		6/30/1972
1703	Improvement of Rural Community Institutions and Services		6/30/1972
1704	Combining Ability Studies of Two Beef and Two Dairy Breeds for Beef Production		6/30/1973

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Iowa Project #	Project Title	Start Date	End Date
1705	Optimum Volumes and Seasonal Distribution of Livestock Marketings		6/30/1971
1706	Host Parasite Interactions in Vascular Wilt Diseases Especially Dutch Elm Disease		6/30/1972
1707	Interrelationships between Soil and Wood Fungi and Woody plant Root and Stem Tissue		6/30/1972
1708	Improving Acceptability and Utilization of Meat		6/30/1972
1709	Relation of Meat Constituents to Tenderness		6/30/1972
1710	The Utilization of Carotene in Relation to Protein Metabolism		6/30/1971
1711	Nature and Utilization of Genetic Variation Influencing Economic Traits in the Fowl		9/30/1982
1712	Improvement of Reproductive Efficiency in Farm Animals		6/30/1975
1713	Effects of Dietary Proteins on Hepatic Composition Growth and Reproduction		6/30/1972
1714	An Analysis of the Economic Implications of the Permit System of Water Allocation		12/31/1971
1715	A Survey of the Potential Siphonapteran Vectors of Disease in Iowa		6/30/1972
1716	Living History Farms Including Experimental Farm of the Future		6/30/1970
1717	Influence of Dietary Amino Acid Pattern on Plasma Proteins		
1718	Biosystematic Studies Regarding Abundance Behavior and Distribution of Selected Iowa Insect Population		6/30/1972
1719	Protein Amino Acids and Drugs in Nutrition of Turkeys		6/30/1972
1720	Physiological Responses of Young Chickens as Affected by Nutrition and Stress		12/30/1970
1721	Effect of Genetic Differences and Stress on Nutrient Requirements of Laying Hens		9/30/1972
1722	Soil Potassium		6/30/1972
1723	Investigate the Fungicidal and Fungistatic Properties of Anti oxidants and Related Compounds		6/30/1972
1724	Supply of and Demand for Public Forest Recreation in the North Central Region		6/30/1973

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Iowa Project #	Project Title	Start Date	End Date
1725	The Use and Modification of Wood Construction to Improve Noise Isolation in Garden Apartments		6/30/1969
1726	Factors Affecting Patterns of Living in Disadvantaged Families		6/30/1973
1727	Corn Rootworm Control		6/30/1972
1728	Futures Markets and Contract Pricing in Livestock Meat Industry		6/30/1973
1729	The Occurrence and Bionomics of Bloodsucking Midges Diptera Ceratopogonidae in Iowa		6/30/1972
1730	Farm animal waste disposal		6/30/1973
1731	Structures and environment for animal production		6/30/1974
1732	An experimental evaluation of the effectiveness of selected techniques and resources on instruction in vocational agriculture		6/30/1970
1733	Improvement of instruction in vocational agriculture		6/30/1970
1734	Factors affecting the establishment of young farm operators in Iowa and implications for their agricultural education		6/30/1969
1735	Souris Red Rainy River Basins Aesthetic Evaluation		12/31/1969
1736	Corn Rootworm Population Dynamics		6/30/1972
1737	Measures of Human Resources Community Opportunities and Family Life Patterns		6/30/1972
1738	Transportation Factors in the Domestic and Foreign Marketing of Iowas Grains feed Ingredients and Mixed Feeds		6/30/1973
1739	The Political Implications of Public Policies Concerned with the Commercial Imports and Exports of Food and Fiber Products		6/30/1973
1740	Histochemistry and Ultrastructure of Anthers in Normal and Cytoplasmic Male sterile Zea mays		6/30/1973
1741	Iowa and International Agricultural Trade		6/30/1973
1742	Profile of Disadvantaged in Iowa		6/30/1970
1743	Property Taxation in Iowa		6/30/1971
1744	Methods for Assessing Consumer Preferences for Housing Iowa Case Study		6/30/1970
1745	Effect of Aging Packaging and Storage Conditions on Quality of Fresh Meats		6/30/1973

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Iowa Project #	Project Title	Start Date	End Date
1746	Postpartum Reproductive Physiology of Swine		6/30/1973
1747	Studies on RNA Regulation and Synthesis in E coli		6/30/1973
1749	Significance and Control of Microorganisms on Poultry Products		6/30/1974
1750	Interrationships among Nutrients during Growth Utilization of Iron		6/30/1975
1751	Etiology of Turfgrass Pathogens as Influenced by Natural and Cultural Environment		7/30/1973
1752	Development and Testing of Improved Cultivars of Oats and Other Small Grains		9/30/1980
1753	Formulate Improved Techniques for Estimating Farm and Related Characteristics by Means of Sample Surveys		6/30/1975
1754	Role of Sociological Factors in Implementing Community Civil Defense Programs		7/31/1973
1755	The Development of Improved Forage Grasses		9/30/1982
1756	Relationship of Calling Doves to Breeding Pairs and Production		6/30/1971
1757	Etiology and Characterization of the Mastitis metritis anaerobic Complex		6/30/1974
1758	An experimental evaluation of selected student centered approaches to providing instruction in vocational agriculture		6/30/1970
1759	Agricultural Policies for Human Improvement Equity in Benefits and Costs of Technology and Programs Efficient Farm and Community Adjustments and Optimal Balances Between Farm Income Treasury Costs and Efficiency and in Relation to Costs and Multiplier Eff		6/30/1975
1760	Methodology of Vegetable Improvement		6/30/1974
1761	Effect of Mineral Elements on Yield and Composition of Crops and on Soil Condition		6/30/1975
1762	Feeder Cattle Production under Midwestern Farm Conditions		6/30/1974
1763	Molecular and Applied Aspects of Microbial Enzymology and Ecology		6/30/1974
1764	Evaluation of Properties and Interactions of Soil Mapping Units in Iowa		6/30/1975

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Iowa Project #	Project Title	Start Date	End Date
1765	Geomorphology and Subsurface Moisture Regimes of Model Watersheds		6/30/1975
1766	Study of sediment pollutions and movement by activation analysis principles		6/30/1974
1767	Fish Production Yield and Standing Crops in Ponds and Lakes		6/30/1973
1768	Iowa Sandland Vegetable Crops Production Research and Breeding		6/30/1974
1769	Iowa Land Values and Land Income		6/30/1975
1770	Nutrition of mammalian Cell Cultures		6/30/1975
1771	The Process of Clothing Consumption		6/30/1972
1772	Nutritional Interrelationship in Lipid Metabolism		6/30/1975
1773	Community Organizational Problems of Law and Administration in Special Districts and Exurbia		6/30/1975
1774	Anatomical and Physical Properties of Wood Related to Environmental Factors		10/1/1971
1775	The Effects of Low Molecular Weight Metabolites on Structure and Activity of Enzyme Proteins		6/30/1974
1776	Soil Erosion and Infiltration as Functions of Soil and Crop Management Clod Breakdown and Topography Modification		6/30/1975
1777	Geochronology of Iowa Soils		6/30/1975
1778	Range and Movement of Iowa Deer in Relation to State Parks		12/31/1972
1779	Eutrophication of Iowa Lakes and Streams		6/30/1974
1780	Isolation and Characterization of Soybean Proteins		6/30/1975
1781	Primary Structure of Glycogen Synthetase from Bovine and Rabbit Muscle		6/30/1972
1782	Biology and Control of Cereal and Forage Insects Other than the European Corn Borer and Corn Rootworms		6/30/1972
1783	Reduced Farrowing Interval in Sows		6/30/1974
1784	Evaluation of Energy Value of Feed Ingredients for Young Swine		6/30/1974
1785	Nutritional and Management Effects on Body Composition of Swine		6/30/1974
1786	Amino Acid Requirements for Reproduction and Lactation of Swine		6/30/1974

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Iowa Project #	Project Title	Start Date	End Date
1787	Motor Ability and Social Interaction in Young Children		6/30/1974
1788	Arthrodpo Borne Virus Arborvirus Activity in Major Mosquito Vectors in Iowa		6/30/1974
1789	Energy and Feed Utilization in Finishing Beef Cattle and Lambs		6/30/1975
1790	Investigations of Growth and Protein Synthesis in Ruminants		6/30/1974
1791	Farm Tenure Studies		6/30/1974
1792	Land Use and Soil Conservation		6/30/1974
1793	Packaging Shipping and Marketing Nursery Stock for Retail Markets		6/30/1975
1794	Propagation and cultural Requirements of Nursery Crops		6/30/1974
1795	Ultrastructural Studies on Muscle and Molecular Mechanisms Involved in Its Post Mortem Changes		6/30/1974
1796	Properties and Biosynthesis of Myofibrillar Proteins		6/30/1974
1797	Structural and Chemical Components of muscle Related to Meat Tenderness and Other Quality Attributes		6/30/1974
1798	Small fruits breeding physiology and mechanization		6/30/1974
1799	Post Entry Experiences of Beginning Iowa Farm Operators		6/30/1971
1800	Institutions Obstructing and Facilitating Agricultural Adjustment		6/30/1974
1801	Environmental Factors Affecting the Performance of Feedlot Cattle		6/30/1974
1802	Monitoring and Assay of Phytotoxic Airborne Pesticides and Volatile Pollutants		6/30/1975
1803	Energy Metabolism and Utilization of Nutrients by Women		6/30/1972
1804	Biology and Control of Corn Diseases with Emphasis on Stalk Rot Root Rot and Seedling Blight		6/30/1975
1805	Quality of Tile Effluent		6/30/1974
1806	Analysis of Data and Design of Surveys		6/30/1974
1807	Effect of Specified Laundry Procedures on Microorganisms Associated with Household Linens and		6/30/1970

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Iowa Project #	Project Title	Start Date	End Date
	Wearing Apparel When Laundered in Automatic Washers and Dryers		
1808	Conditioning Drying and Storing Corn on Farms		6/30/1975
1809	Sociological Aspects of Water based Recreation in Iowa		6/30/1972
1810	Economic Effect of Changing Transportation Systems on Agribusiness Firms		6/30/1974
1811	The Effect of Breeding Nutrition and Management on Tissue Characteristics and Carcass Composition of Meat Animals		6/30/1974
1812	Improving the Efficiency of Milk Nutrient Production by Dairy Cows		6/30/1974
1813	Immunogenetics of Vertebrates		6/30/1972
1814	Legumes of the United States		6/30/1972
1815	Equipment and Techniques for Weed Control		6/30/1975
1816	Thermal Acclimation and the Biology and Dispersal of Insects Infesting Stored Food Materials		6/30/1975
1817	Technology Income distribution and Employment in Latin American Agriculture Development		6/30/1974
1818	Intergeneration Transfers of Equity Capital		6/30/1974
1819	Simultaneous Flow of Water and Head in Water Unsaturated Iowa Soils During Evaporation		6/30/1971
1820	Epidemiology and Forecasting of Crop Diseases		12/31/1974
1821	Regulation of Penicillinase Biosynthesis		6/30/1974
1822	Alternative Methods for Vertical Coordination in the Hog Pork Industry		6/30/1975
1823	Standardization of Seed Testing Methods		6/30/1972
1824	Demand Patterns for Outdoor Recreation		6/30/1972
1825	The Fine Structure of the Wind Field Near the Ground		6/30/1972
1826	Modification and Activation of the FPS 18 Dallas Center Research Radar		12/31/1975
1827	Planning Agricultural Research		9/30/1979
1828	Mouse Genetics		6/30/1976
1829	Meteorology and Climatology of Preferred Rainfall Areas		12/31/1973
1830	Innovations in Curricular Development to Prepare Adolescent Boys for Adult Living		6/30/1972

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Iowa Project #	Project Title	Start Date	End Date
1831	Breeding and culture of Bedding Plants		6/30/1977
1832	Breeding Culture and Propagation of Herbaceous Ornamental Plants and Roses		6/30/1977
1833	Studies in Taxonomy Cytology Morphology and Ecogeography of American Grasses		6/30/1986
1834	Experiences of Iowa Farm Operators Who Quit Farming to Take Nonfarm Jobs		
1835	Forms and Transformations of Nitrogen and Sulfur in Soils		6/30/1975
1836	Maize Improvement by Morphological Physiological Trait Incorporation and Intergenic Crosses		6/30/1975
1837	Measurement of Social Indicators in Human Resources and Community Development		6/30/1975
1838	Significance and Control of Microorganisms affecting the Market Quality of Milk Products		6/30/1975
1839	Rationalization of Manufacture of Foreign Cheese Varieties		6/30/1975
1840	Prodigiosin Biosyntheses in <i>Serratia Marcescens</i>		
1841	Stream Ecology: Evaluation of Water Conditions on Fish Population in Streams		6/30/1976
1842	Animal Waste Management with Pollution Control NC 93		6/30/1975
1843	Studies on Glycogen Phosphorylase and Enzymes Involved in the Activation and Inactivation of this Enzyme		6/30/1975
1844	Environmental Implications in Pesticide Usage		6/30/1975
1845	Nutrient Enrichment of Waters by Soils and Sediments NC 98		6/30/1975
1846	Improved Processing and Utilization of Poultry Products NCM 46		6/30/1975
1847	Starch Structure and Biochemistry		6/30/1975
1848	Optimal Sizes Organization and Structure of Commercial Farms		6/30/1975
1849	Policy Technology Market Forces Interregional Competition and Viability of Commercial Farms		6/30/1975
1850	The Relation of Population to Social Changes in the North Central Region		6/30/1975

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Iowa Project #	Project Title	Start Date	End Date
1851	Evaluation and Control of Diseases Caused by Nematodes in Nurseries		6/30/1977
1852	The Climatic Resources of the North Central Region NC 94		9/30/1979
1853	Regional Development and Management of Land and Water Resources Within Iowa		6/30/1975
1854	Optimum Production Systems and Marketing Patterns for Swine on Iowa Farms		6/30/1976
1855	An Evaluation of Coyotes in Relation to Livestock in Iowa		6/30/1974
1856	Mechanism of Oxidation and Structural Analysis and Control of Fats and Oils		6/30/1975
1857	Ecological Aspects of Outdoor Recreation Planning and Development		9/11/1970
1858	Social Factors in Environmental Decision Making Natural Resources Management		6/30/1975
1859	Iowa Insect Pest Identification		6/30/1975
1860	Hormonal Morphological and Nutritive Effects on Reproduction in Corn and Soybeans		6/30/1975
1861	Evaluation of Public Policy Outputs in Rural America		6/30/1975
1862	Simulation of Feed Livestock Economy		6/30/1972
1863	Improved, Lower-Cost Designs for Iowa Residences		6/30/1970
1864	The Role of Natural Antioxidants in Stabilizing Turkey Flavor		6/30/1975
1865	Ecological Aspects of Roadside and Reservoir Edge Vegetation		6/30/1973
1866	Plant Breeding Techniques and Improvement of Horticultural Plants		6/30/1975
1867	Utilization of Electric Service in rural Areas in Iowa		6/30/1975
1868	Soil and Fertilizer Phosphorus: Availability to Plants and Equilibria with Waters		6/30/1981
1869	Breeding for Physiological Attributes in Soybeans		6/30/1980
1870	Groundwater Seepage Patterns to Wells for Unconfined Flow		6/30/1973
1871	Adaptations to Aging in Small Towns		6/30/1974
1872	A Physiological Analysis of Wood Fiber Yield		6/30/1974

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Iowa Project #	Project Title	Start Date	End Date
1873	Experience of Iowa Rural Communities in Encouraging Industrialization		6/30/1973
1874	Economies of Size and Volume in Retail Farm Supply and Purchasing Businesses		6/30/1974
1875	Hedging Strategies for Iowa Country Grain Elevators	6/30/1975	
1876	Fire and Its Relationship to Iowa Bob White Quail on a Public Hunting Area		12/31/1972
1877	Sampling Estimation and Model Building for Forest Resources Management		6/30/1975
1878	Virus Diseases of corn Sorghum and Soybeans		6/30/1975
1879	Education programs to meet the manpower needs of Iowa agriculture		6/30/1975
1880	Relationship of genetic Redundancy to Development of Higher Plants		
1881	Genetic Studies in Maize	1/1/1971	6/30/1974
1882	Comprehension of Space as a Physical Environmental Variable in House Design		7/1/1973
1883	Public and Private Organizational Response to Rural Development		6/30/1974
1884	Genetics cytology and Cytoplasm of Maize		6/30/1979
1885	Farm and Rural Community Structure and Policy in Relation to Technology Environment and Supply		6/30/1975
1886	Income Production Supply and Resource Structure of Iowa Farms and Areas of Environmental Control and Conservancy Measure		6/30/1975
1887	The Interrelationship of Scale to Natural Resource Information and Decision Making in Land Planning for Iowa		6/30/1972
1888	Soil Physical Properties and the Retention and Transport of Water Air and Other Matter in Soil		6/30/1979
1889	Environmental Effects on Seed Quality and Seedling Performance		6/30/1976
1890	Sex Pheromone Perception and Response in the European Corn Borer		6/30/1975
1891	Mineral Nutrition of Soybeans and Agronomic Production Functions		6/30/1975
1892	Metabolism and Function of Benzoxazinones in Corn		6/30/1974

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Iowa Project #	Project Title	Start Date	End Date
1893	Graft Compatibility Studies in Horticultural Plants		6/30/1974
1894	Structure of Biological Membranes		6/30/1974
1895	Interactions of Dietary Proteins and Fat Sources with Beta carotene		6/30/1977
1896	Bacterial Spores in Foods		6/30/1976
1897	Corn Breeding Systems for Population Improvement and Hybrid Development		6/30/1976
1898	Population Changes in Plant Parasitic Nematodes Relative to Soil Factors		6/30/1975
1899	Diagnostic Tests for Evaluating the Nutrient Status of Soils		6/30/1976
1900	Availability of Added Fertilizer Nutrients for Uptake by Plants and Losses in Water		6/30/1976
1901	Genetic Improvement of Efficiency in the Production of Quality Pork	10/1/1985	10/1/1976
1902	Studies of the European Corn Borer Feasibility of Genetic Manipulation to Control the Species		6/30/1976
1903	Dairy Marketing Cooperators		9/30/1977
1904	Grain Marketing		9/30/1976
1905	Evolving pathogens, targeted sequences, and strategies for control of bovine respiratory disease	10/1/2001	9/30/2006
1905	Bovine Respiratory Disease: Risk Factors, Pathogens, Diagnosis and Management	10/1/1991	9/30/1996
1906	Quantities Prices and consumer Demands for Product qualities		12/31/1976
1907	Growth and Operation of the Farm Firm in Relation to the Resources Used and to the Location and Transfer of Resource Control		6/30/1974
1908	Nutrient Utilization by the Young Ruminant		6/30/1976
1909	Causes of Crop Yield Differences on the Major Soils of Iowa		12/31/1981
1910	Nutritional Physiology and Metabolic Disorders of Farm Animals		6/30/1976
1911	Improvement of Farm Planning Models		6/30/1974
1912	Demand and Price Analysis of Iowa Agricultural Products		9/30/1978

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Iowa Project #	Project Title	Start Date	End Date
1913	Herbicides: Their Usage with Horticultural Crops and Control of Hazards		6/30/1975
1914	Factors Associated in the Reaction in Zea mays to Helminthosporium maydis		3/31/1975
1915	Variables Related to Managerial and Agricultural Business Firm success		6/30/1974
1916	Distribution and Potential Activity of Microorganisms in Deep Samples of Soil Materials		6/30/1976
1917	Measurement of Soil Movement		9/30/1981
1918	Environmental Impact of Weed Control Practices for Corn and Soybeans		3/31/1977
1919	Physical Environmental Variables in Performance Care and Maintenance of Carpeting Textiles		6/30/1975
1920	Impact of Changing International Trade in Grain (including Soybeans and Soybean Products) on Marketing of United States Grain		6/30/1972
1921	Message Content Treatment and Receiver Disposition Interactions in Scientific Communication		6/30/1973
1922	Impact of Identification and Promotion of Iowa Beef in an Eastern Urban Market		6/30/1974
1923	The Development of Methods for Controlling the European Corn Borer		6/30/1976
1924	Soil Landscape Characteristics Affectin Land Use Planning and Rural Development		9/30/1976
1925	Water Allocation Use and Development Including Quality as well as Quantity		9/30/1977
1926	Post High School Educational and Occupational Plans and Realizations of Iowa Farm Boys		6/30/1973
1927	Changes in Food Practices for Better Nutrition		12/31/1977
1928	Contamination of Channel Catfish with Dieldrin from Agricultural Runoff		6/30/1974
1929	Impact of Changing Transportation Systems on Local Grain and Farm Supply Firms		9/30/1976
1930	North Central Regional Center for Rural Development		
1931	Improving Various Greenhouse Management Practices for commercial Florists		6/30/1976
1932	Evaluation of Supplements for Poultry Rations		

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Iowa Project #	Project Title	Start Date	End Date
1933	Biological Control and Insect Pathology of Iowa Insect Field Crop Pests		6/30/1977
1934	Regulation of gluconeogenesis in the Chicken		6/30/1976
1935	Development of Efficient Public Service Delivery Systems for Iowa and the North Central Region		6/30/1975
1936	A Survey of Purchasing Criteria Used by Firms in Mass Meat Retailing		6/30/1973
1937	Corn Grain Quality		6/30/1974
1938	Factors Influencing Quantitative Aspects of Reproduction and Photosynthetic Potential in Soybeans		3/8/1977
1939	Recreational Use Patterns and User Characteristics on the Upper Iowa River		6/30/1975
1940	Immunogenetics of Vertebrates		6/30/1977
1941	Effect of various tillage systems on root bed environment soil and water losses and tillage energy requirements		9/30/1978
1942	Pathology of Wilt Diseases of Trees		6/30/1975
1943	Vitamin E and selenium in the nutrition of young swine		6/30/1977
1944	Breeding Genetic and Cultural Studies with Grain Sorghums		9/30/1982
1945	Feasibility study of potential nut crops for Iowa	7/1/1987	6/30/1992
1946	Development of improved ornamental plants		
1947	Assessing housing alternatives in rural communities by lower income residents		9/30/1976
1948	Efficient fertilization irrigation soil management pest control and other greenhouse control practices related to environmental quality		6/30/1976
1949	More Effective Regional Development of forest and Recreation Resources in Iowa		6/30/1978
1950	Resource allocation in management of forest lands for multiple objectives.		6/30/1975
1951	Perception of Environmental Quality as it Relates to the Recreation Experience		6/30/1976
1952	Avian Respiratory Disease Control for Consumer Protection and Market Quality	10/1/1977	9/30/1992

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Iowa Project #	Project Title	Start Date	End Date
1953	Field evaluation and demonstration of turfgrass cultural practices and the application of research findings to their improvement		6/30/1977
1954	Management of Corn Insect Pests		6/30/1977
1955	Bionomics and Control of Mosquitoes and Bloodsucking Midges in Iowa		12/31/1977
1956	Ecology Bioeconomics and Management of Insect Population in Soybean Agroecosystems		6/30/1977
1957	Scanning electron microscope studies of sensory receptors in the order Siphonaptera		6/30/1977
1958	Corn yielding capacity of Iowa soils		9/29/1982
1959	Competitive position of Iowa's rural communities in attracting different types of industry		6/30/1974
1960	Genetic Approaches to Warmwater Fishery Management in Iowa		6/30/1974
1961	Effects of Environmental Chemicals on Wildlife Species in Iowa		8/19/1977
1962	Clothing Condition Inactivity and Discard		6/30/1976
1963	Nutritional History and Calcium Utilization		6/30/1976
1964	Nutritional Factors regulating immunoprotein concentrations		6/30/1974
1965	Energy Metabolism and Utilization of Nutrients by Women		6/30/1976
1966	Improvement or retention of quality in meat as related to methods of processing preservation or cooking		6/30/1977
1967	Biochemical histological and physical characteristics related to tenderness in meat		6/30/1977
1968	Utilization and Disposal of Municipal Industrial and Agricultural Processing Wastes on Land		6/30/1977
1969	Waterfowl Relationships to Habitat		6/30/1975
1970	Relationship between ribosome structure and function		6/30/1977
1971	Forage Production and Utilization systems as a base for Livestock Production		9/30/1977
1972	Social Impacts of Industrialization upon Non metropolitan Communities		6/30/1977
1973	Needs and opportunities for the Rural Elderly to Continue Independent Living		6/30/1975

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Iowa Project #	Project Title	Start Date	End Date
1974	Impact of Iowa Taxes		6/30/1976
1975	Decisions to locate industry in rural areas		6/30/1976
1976	Protein and amino acid metabolism and utilization by turkeys		6/30/1977
1977	Prevention and control of enteric diseases of Swine	10/1/1992	9/30/2002
1978	Alternative Production Marketing Systems for the Iowa Cattle Beef Industry		6/30/1978
1979	Iowa Land Resource Inventory and Analysis System for Land Use Planning in Rural Development		6/30/1978
1980	Single gene studies on segregating lines of chickens		6/30/1977
1981	Evaluation of Technology of Feed Additives		6/30/1976
1982	Effectiveness of designed home economics instruction in middle schools		6/30/1978
1983	Legumes of the United States	7/1/1989	6/30/1994
1984	Nutrient Requirements of Laying Hens		6/30/1977
1985	Fractured Genes and Intragenic Exchanges on Drosophila		12/31/1982
1986	Genetic Studies on Mammalian Lymphocytes		8/31/1976
1987	Snowdrift patterns and their relationship to pheasants in windbreaks and winter cover		9/30/1975
1988	Land Use changes in Relation to Pheasant Populations in North Central Iowa, 1935-1970		11/30/1974
1989	The soil moisture-plant water-atmospheric environment interaction.		6/30/1978
1990	The development of rapid techniques for estimating photosynthesis for breeding programs.		6/30/1978
1991	Iowa Addendum to the Master Project: Bionomics and Pest Management of Soil Arthropod Pests.		9/30/1977
1992	Soils Development and Diagnostic Differentist		6/30/1980
1993	Evaluation of Butylene, Glycol for Activity in Plant Disease Control.		6/30/1975
1994	Increasing Reproductive Efficiency in Beef Cattle.		6/30/1983
1995	Seed Production of Breeding Lines of Insect-Pollinated Legumes.	10/1/1987	9/30/1992

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Iowa Project #	Project Title	Start Date	End Date
1996	The Relationships of Community Power Structures and Rural Development in Selected Rural Iowa Communities.		6/30/1979
1997	Remote Sensing of Iowa's Agricultural and Forestry Resources		9/30/1979
1998	Elk herd organization and movement, Wind Cave National Park		8/31/1975
1999	Nesting and production of the ring-necked pheasant (Phasianus Colchicus) on the Winnebago Research Area, Iowa.		5/31/1975
2000	Improvement of Beef Cattle through Breeding Methods	10/1/1983	9/30/1989
2001	Epiphytology and etiology of turfgrass pathogens as influenced by natural and cultural environment.		6/30/1978
2002	Organization and retrieval of freshwater fishery data.		6/30/1979
2003	Logistical Factors Involved in Domestic and Foreign Marketing of Iowa's Grains, Livestock and Meats		6/30/1976
2004	Enzyme Kinetics and Enzyme Functions		6/1/1977
2005	RNA Regulation and Protein Syntheses in E Coli		6/30/1978
2006	European Community and the United States: Comparative Political Analysis of rural Land-Use Policies.		12/31/1975
2007	Measuring Rural Community Development		6/30/1976
2008	Relationship of physiological traits in pigs to stress adaptation and postmortem muscle properties.		6/30/1978
2009	Farmers and Pollution control: The effects of messages, dispositions and situation.		6/30/1976
2010	Work and Retirement Patterns in Small Towns.		
2011	Research Utilization Packages for Local Civil Preparedness and Community Development		6/30/1979
2012	Effect of Preservation Methods, Aging and Storage Conditions on Quality of Meats		9/30/1977
2013	Denatured hemoproteins as catalysts of lipid oxidation in meat.		6/30/1976
2014	Small Convective Cell Precipitation Patterns, their Uniformity, Movement and Longevity		6/30/1980

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Iowa Project #	Project Title	Start Date	End Date
2015	Reproductive Management of Beef Cows in the Western Corn Belt.	7/1/1974	12/31/1978
2016	Economics of Alternative Systems for Transporting Agricultural Outputs to Market and Inputs to Production Areas		6/30/1980
2017	Organization and Control of the US Food Production and Distribution System		9/30/1979
2018	Microbiology of Foods and Feedstuffs		6/30/1979
2019	A Life Span Analysis of Rural Children's Mental and Social Development		9/30/1980
2020	Varieties and Strains of Corn in Iowa	7/1/1989	6/30/1994
2021	Nutritional Effects on Body Composition and Efficiency of Protein Deposition in Pigs		6/30/1979
2022	Nutritional and Management Factors Affecting Farrowing Interval of Swine		6/30/1979
2023	Utilization of Energy by Weanling Pigs		6/30/1979
2024	The Essential Amino Acid Requirements for Pregnancy and Lactation in the Pig		6/30/1979
2025	Structure, Biochemistry, Biosynthesis and Assembly of Contactile Proteins		6/30/1979
2026	Efficiency of Nutrient Utilization for Growth and Lactation		6/30/1976
2027	Nutritional and Hormonal Regulation of Animal Growth		6/30/1979
2028	Control of Microorganisms and Quality of Poultry Products		6/30/1979
2029	Regulation of Gene Expression		6/30/1978
2030	Modeling Erosion From Non-Point Sources		6/30/1977
2031	Further Studies on coyote Ecology in Relation to Iowa Livestock		6/30/1978
2032	Structural and Environmental Modification for Dust and Humidity Control		6/30/1978
2033	Methods for Rapid Improvement of Intensively Cultured Trees: Physiological, Biochemical, Anatomical, and Biometrical Selection Criteria; and the Induction of Early-Flowering		6/30/1978

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Iowa Project #	Project Title	Start Date	End Date
2034	Root Relationships of Intensively Cultured Trees: Structural, Physiological, Microbiological Relationships Including Nitrogen Fixation and Uptake		6/30/1978
2035	Genetic Studies of Maize		6/30/1978
2036	Studies on Glycogen Metabolism in Normal and Stress-prone Animals		5/31/1981
2037	Guidelines for More Effective Regional Development of Forest and Recreation Resources in the North Central United States		3/31/1981
2038	Graft Compatibility Studies in Horticulture Plants		6/30/1979
2039	Analysis of Time Series and Survey Data		6/30/1979
2040	Small Fruits Breeding, Physiology and Mechanization		6/30/1980
2041	Biochemical Study of the Role of Fungal Host-Specific Toxins in Plant Diseases		6/30/1977
2042	Interagency Coordination for Protection and Management of Natural Resource		6/30/1978
2043	Lipid Metabolism in Farm Animals		6/30/1976
2044	Agalactia Syndrome of Sows		9/30/1979
2045	Land Use Processes, Projectures, Planning and Policy		9/30/1979
2046	Motor Performance and Social Acceptance in Early and Middle Childhood		6/30/1978
2047	Fundamental Information Required for the Development of Superior Horticultural Cultivars		
2048	Effects of Dietary Nitrite and Nitrate on Ascorbic Acid Requirement and Function in Guinea Pigs		
2049	Skeletal Muscle Components and their Relationship to Meat Palatability		6/30/1979
2050	Corn Grain Market Quality		6/30/1981
2051	Nutrient Runoff and Water Quality in Iowa		12/31/1987
2052	Analyses of Entry, Intergeneration Transfer and Retirement Strategies for Farmers		6/30/1980
2053	The Natural History and Epidemiology of Arthropod-borne Virus Activity in Iowa	7/1/1989	6/30/1994
2054	Development of Root Disease Control Technology with Emphasis on Biological Control in Corn and Soybean and Other Crops with Common Pathogens-Root Diseases and Biological Control		9/30/1979

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Iowa Project #	Project Title	Start Date	End Date
2055	Farm Land Ownership Characteristics and Processes		6/30/1977
2056	Soil Conservtion Obstacles and Means for Overcoming Them		6/30/1984
2056	Soil conservation Obstacles and Means for Overcoming Them		6/30/1984
2057	The Effects of Genetics and Environment on Body Composition and Value of Meat Animals		6/30/1979
2058	Quality of Tile Effluent		9/30/1980
2059	Cornbelt Cow-Calf Production Utilizing Crop Residues and Animal Wastes		6/30/1979
2060	Quality and Safety of Foods in Households and Institutions		10/30/1978
2061	Development of Farm Planning and Simulation Models		6/30/1979
2062	Evaluation of Herbicides for Corn and Soybeans	7/1/1989	6/30/1989
2063	Estimation of Enterprise Costs and Returns for Iowa Agriculture		12/31/1979
2064	A Systems Analysis of Cattle Feeding in Iowa and the Midwest		6/30/1980
2065	Economics of the Dairy Production Industry in Iowa		6/30/1978
2066	The Capital Market for Farm Firms: Adequacy, Institutional Changes and Firm (Borrower and Lender) Financial Management		9/28/1982
2067	Maximum Utilization of Iowa Grown Crops for Finishing Cattle		6/30/1977
2068	Efficiency of Grazing and Utilization of Forage Reserves in Beef Production Systems--McNay Memorial Farm		9/30/1977
2069	Vegetable Crops Research: Production and Breeding		6/30/1980
2070	Disinfection of Household Automatic Washers (Sanitation)		6/30/1977
2071	Natural Marshes as Nutrient Sinks for Agricultural Runoff		6/30/1980
2072	Tree-ring Chronology and Weather Patterns in Iowa		6/30/1979
2073	Survey, Ecology and Management of Anthropod Populations in apple Orchards		6/30/1979
2074	Epidemiology and Forecasting of Crop Diseases		12/31/1975
2075	Behavior of Warmwater Fish Populations		6/30/1977

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Iowa Project #	Project Title	Start Date	End Date
2076	Year Class Abundance of Walleyes in Clear Lake, Iowa, with Particular Reference to Fry Stocking		6/30/1978
2077	Public Values and citizen Participation in Forested--Area Management	7/1/1974	6/30/1979
2078	the Role of Human Capital in Adjusting to Economic Growth	9/1/1974	6/30/1978
2079	The "Good" Community and the Community of Residence: Perceptions and Preferences	7/1/1974	6/30/1979
2080	Systems Analysis, Economic Feasibility and Legal-Economic Impact of Increased Coal Mining Activity in Iowa	10/1/1974	12/31/1977
2081	Integration of Mining and Land Reclamation Operations for Returning Land to Economic Productivity	10/1/1974	6/30/1978
2082	Soil Enzymes	7/1/1974	6/30/1994
2083	Increased Plant-Available Water Supplies Through Modification of Soybean Rooting Depts	1/1/1975	6/30/1979
2084	Influence of Peptides on the structure of Sickel Cell Hemoglobin	3/1/1975	6/30/1979
2085	Effects of Stream Channelization on the Riparian Community, Iowa	3/25/1975	6/30/1979
2086	Soil Structure and Crop Growth	7/1/1975	6/30/1980
2087	Physiological Mechanisms in Crop Yield	7/1/1975	6/30/1985
2088	The Interaction of CO ₂ , Light, and Water on Crop Growth and Development	7/1/1975	6/30/1978
2089	Photosynthetic Mutation, Night Lighting, and Plant Growth Regulatory Effects on Corn		6/30/1981
2090	Analysis and Synthesis of Spatial Soil characteristics	7/1/1975	9/30/1985
2091	Iowa's Soil Resources: Their Classification, Mapping, and Correlation	7/1/1975	9/30/1990
2092	Endocrine and Physiologic Requirements for Increased Reproductive Efficiency in Farm Animals	7/1/1975	9/30/1980
2093	Mechanisms Regulating the Reproductive Cycle in Cattle and Swine	7/1/1975	9/30/1980
2094	An Assessment of Alternative Land Use Policies for Food Production in the North Central Region	5/1/1975	9/30/1976

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Iowa Project #	Project Title	Start Date	End Date
2095	Mineral Nutrition and Fertilization Practices for Soybeans	7/1/1975	6/30/1981
2096	Nitrogen and Sulfur Transformations in Soils Related to Fertilizer and Pollution Problems	7/1/1975	
2097	Evaluation of Stocking Pen-Reared Wild Mallards in Southern Iowa Farm Ponds	6/1/1975	6/30/1977
2098	Reproduction of the Gray Partridge in Northern Iowa	6/1/1975	11/30/1978
2099	Occurrence and Effects of Mycotoxins in Feeds and Foods	7/1/1975	9/30/1979
2100	Geochronology and Geomorphology of Iowa Soils and Landscapes	7/1/1975	9/30/1985
2101	Effect of Fertilization Practices on Crop Production and Soil Nutrient Levels	7/1/1975	6/30/1982
2102	Supply Capacity, Resources, Demands in Agriculture in Relation to Future Policies and Export Potentials	7/1/1975	6/30/1981
2103	Structure and Viability of Different Size Farms and Interactions with Communities	7/1/1975	9/30/1981
2104	Agricultural Production, Resource Demand and Export Possibilities	7/1/1975	9/30/1981
2105	The Effects of Environmental Programs on Food Production, Exports and Related Variables	7/1/1975	9/30/1981
2106	Models and Applications of Farming Systems which Restrain Sedimentation, Runoff, and Stream Pollution	7/1/1975	6/30/1981
2107	Soybean Genetics and Cytogenetics	7/1/1975	9/30/1981
2108	A Study of Attitudes and Motivational Factors Affecting Conservation Agency Programs	6/1/1975	6/30/1977
2109	Surface Water Quality and Fish Production in Strip Mining Areas of Iowa	6/1/1975	10/31/1976
2110	Environmental Factors: Influence on the Distribution and Culture of Ornamentals and Related Crops	7/1/1975	6/30/1980
2111	Breeding Biology of the White-winged Scoter	4/1/1975	5/31/1977
2112	Environmental Accumulation of Nutrients as Affected by Soil and Crop Management	7/1/1975	9/30/1990
2113	Composition, Nutritive Value and Stability of Poultry Meat and Egg Products	7/1/1975	9/30/1987
2114	Detection, Survival, and Control of Plant Pathogenic Bacteria on Seed and Plant Propagative Materials	7/1/1975	9/30/1990

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Iowa Project #	Project Title	Start Date	End Date
2115	The Assessment of Housing Needs and Conditions in Small Cities and Towns	7/1/1975	9/30/1978
2116	Monitoring and Modeling the Dispersive Capabilities of the Rural Atmospheric Planetary Boundary Layer	7/1/1975	9/30/1981
2117	Iowa Land Values and Land Income	7/1/1975	6/30/1981
2118	Development of Superior Soybean Strains	7/1/1975	9/30/1980
2119	Plant-Parasitic Nematodes Associated with Corn in Iowa	7/1/1975	6/30/1979
2120	Enzymic Interconversion and Regulation	7/1/1975	6/30/1994
2121	Environmental Implications and Interactions of Pesticide Usage		6/30/1983
2122	Tree Fruit Adaptation and Culture	7/1/1975	6/30/1991
2123	Physical and Chemical Changes in Plant Protein Products During Storage	7/1/1975	6/30/1978
2124	Factors Affecting Dietary Zinc and Iron Availability in Rats	7/1/1975	6/30/1979
2125	Farm Wiring System and Equipment Improvement	7/1/1975	12/31/1982
2126	Animal Waste Management Systems for the 1980's	7/1/1975	9/30/1980
2127	Factors Regulating Protein Synthesis, Degradation, and Growth in Skeletal Muscle	7/1/1975	9/30/2005
2128	Quality of Life as Determined by Area of Residence	7/1/1975	9/30/1983
2129	Quantitative Analysis of Wood Fiber Yield	7/1/1975	6/30/1978
2130	Improvement of Home Sewage Disposal Systems in Iowa	7/1/1975	6/30/1981
2131	Social Impact Assessment of Coal Strip Mining in Iowa	7/1/1975	6/30/1979
2132	Energy Conservation in Drying, Conditioning and Storing Corn on Farms	7/1/1975	9/30/1981
2133	Causes, Consequences and Economic Control of Crop Chemical Pollution	7/1/1975	6/30/1979
2134	Soil Permeability Relationships with Microbial Activity and Other Soil Properties	7/1/1975	6/30/1981
2135	Virus Diseases of Plants	7/1/1975	6/30/1980
2136	Air Pollutants and Nutritional Status of Tissue Culture Cells	7/1/1975	6/30/1980
2137	General Cultural and Localized Problems of Vegetable Crop Production	7/1/1975	6/30/1986

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Iowa Project #	Project Title	Start Date	End Date
2138	Development and Construction of Adaptive Econometric Models of the US Agriculture Sector	7/1/1975	12/31/1977
2139	Equipment and Techniques for Weed Control in Field Crops	7/1/1975	9/30/1980
2140	Beef Production Efficiency with Combinations of Conventional and Unconventional Iowa Feedstuffs	7/1/1975	6/30/1980
2141	Consumer Attitudes Concerning the Purchase of Nursery Stock and a Consumer Profile of Buyers of Nursery Stock by Mail	7/1/1975	
2142	Social Indicator Models for Rural Development	7/1/1975	12/31/1979
2143	Mechanism of Oxidation and Modifacation of Fats and Oils	7/1/1975	
2144	Flavor Improvement in Cheese and Whey Utilization	7/1/1975	1/12/1981
2145	Starch Biosynthesis	7/1/1975	12/31/1979
2146	Population Re-distribution in the North Central Region- pre and post-1970	7/1/1975	9/30/1979
2147	Marketing Strategies for Producers and Merchandisers of Grain	7/1/1975	6/30/1978
2148	Linear Models to Facilitate the Merchandising Operations of Agricultural Marketing Firms	7/1/1975	6/30/1977
2149	Analysis of the role of the vocational agriculture instructor as a community leader in agriculture	7/1/1975	6/30/1979
2150	Developing supervised occupational experiences in agriculture	7/1/1975	6/30/1979
2151	Iron Nutriture, Physical Conditioning, and Performance of Women	7/1/1975	6/30/1984
2152	Maize Improvement by Morphological-Physiological Trait Incorporation	7/1/1975	9/30/1985
2153	Development and Management of Iowa's Land and Water Resources Within the Clarion Webster Soil Area	7/1/1975	9/30/1980
2154	Nutritional Impacts of Fat-Altered Diets	7/1/1975	9/30/1981
2155	Sampling Investigations for Estimation of Soil and Farm Characteristics	7/1/1975	6/30/1980
2156	Iowa Coal Transportation Systems	7/1/1975	6/30/1978
2157	Feasibility Study on Efficient Processing and Use of Iowa Cottonwood for Wall Framing Lumber	7/1/1975	6/30/1979

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Iowa Project #	Project Title	Start Date	End Date
2158	Plant Disease Control-Efficacy of Plant Health Products and Delivery Systems	7/1/1975	6/30/1985
2159	Control of Processing Factors Causing Changes in Physical and Biochemical Properties of Soybeans	7/1/1975	6/30/1980
2160	Strategies for revision of curriculum and program restructuring of vocational agriculture in Iowa	7/1/1975	3/31/1977
2161	Effects of Rural Land Ownership Patterns Upon Community Organizations in Rural and Exurban Areas	7/1/1975	6/30/1980
2162	Relationship Between Political Environment and Agricultural Policy Process	10/1/1975	6/30/1978
2163	Effects of Malachite Green on composition of Fish Blood	9/1/1975	6/30/1978
2164	Improvement of Thermal Processes for Proteinaceous Foods	10/1/1975	9/30/2005
2165	Research on Potential Effects on Aquatic Resources of Processing and/or conversion of Iowa Coal	10/1/1975	9/30/1977
2166	Hydrologic Management in Strip Mining	10/1/1975	7/31/1980
2167	World Food Problems and US Food Politics and Policies	1/1/1976	6/30/1981
2168	Breeding Ecology and Habitat Selection of Iowa Farmland Birds	7/1/1976	6/30/1993
2169	Growth of Enteropathogenic Escherichia coli and Production of Enterotoxin in Dairy Products	1/3/1976	6/30/1980
2170	Age-Related Phenomena of Iowa Wetland Birds	3/1/1976	6/30/1980
2171	Sociology of the South American Guanaco	7/1/1976	6/30/1988
2172	Evaluation of Woodland Management Opportunities in Iowa	10/11/1991	9/30/1996
2173	Effect of Changes in Transportation on Performance of the US Agricultural Transportation System	10/1/1976	9/30/1987
2174	Inoculation of Legumes with Rhizobin to Improve Nitrogen Fixation and Crop Production	7/1/1976	6/30/1981
2175	Relationship of Processing to Increased Value and Quality of Beef, Pork, and Meat-Related Products	7/1/1976	9/30/1981
2176	Etiology of the Porcine Stress Syndrome	4/23/1976	9/30/1980
2177	Transportation and Distribution Systems for Moving Grain and Fertilizer Through Deepwater Ports	4/22/1976	3/31/1980
2179	Beef Production Using Manure and Crop Residues for Major Feed Sources and Methane Production	4/23/1976	12/30/1980

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Iowa Project #	Project Title	Start Date	End Date
2180	Influence of Sewage Treatment Plant Effluents on the Iowa River	6/1/1976	10/1/1977
2181	Elk Food Habits and Range Interaction with Other Herbivores in Wind Cave National Park	5/11/1976	5/31/1978
2182	Genetics and Ecology of the European Corn Borer	5/1/1976	12/31/1979
2183	The Development of Methods for Controlling the European Corn Borer	7/1/1976	6/30/1981
2184	Experimental Atherosclerosis	7/1/1976	6/30/1981
2185	Nutrient Requirements for Growth and Lactation	7/1/1976	6/30/1981
2186	Glucose Metabolism in Farm Animals	7/1/1976	6/30/1981
2187	Fat Metabolism in Farm Animals	7/1/1976	6/30/1981
2188	Nutrient Restriction and Molting in Egg Production of Chickens and Turkeys	7/1/1976	6/30/1981
2189	Biology and Control of Diseases Affecting the Quality of Maize Seed	7/1/1976	9/30/1982
2190	Diseases of Corn in Iowa with Emphasis on Stalk and Ear Rots	7/1/1976	9/30/1982
2191	Environmental and Processing Effects on Seed Quality and Seedling Performance	7/1/1976	6/30/1981
2192	Genetic Studies on Mammalian Lymphocytes	5/27/1976	6/30/1980
2193	Effects of Snowmobile Activity on Wildlife and Wildlife Habitat in Northern Iowa Marshes	7/1/1976	6/30/1978
2194	Maize Breeding Systems for Population Improvement and Hybrid Development (Development and Evaluation of Breeding Methods for Corn Populations and Hybrids)	7/1/1976	9/30/1986
2195	Measuring the Costs of Research in the Agricultural Experiment Stations	9/27/1976	9/30/1979
2196	Economic Analysis of the United States Grain Exporting Systems	10/1/1976	9/30/1981
2197	Decision-Theoretic Analysis of Farm Management Under Conditions of Risk and Uncertainty	7/1/1976	6/30/1979
2198	An Economic Analysis of the Determinants of Expenditures on Agricultural Experiment Station Research and on Agricultural Extension	7/1/1976	6/30/1981
2199	Rules of Thumb for Forecasting and Marketing Decisions	7/1/1976	9/30/1981

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Iowa Project #	Project Title	Start Date	End Date
2200	Marking Larval Fishes	7/1/1976	6/1/1979
2201	Bacterial Spores in Food	7/1/1976	6/30/1979
2202	Forecasting and Price Analysis of Agricultural Markets	7/1/1976	6/30/1979
2203	Communicating Scientific and Technical Information to General Audiences: A Synthesis of Field Research	7/2/1976	6/30/1981
2204	Stabilizing Selection in <i>Tribolium Castaneum</i>	10/1/1976	6/30/1977
2205	Lipid Oxidation and Meat Quality	7/1/1976	9/30/1981
2206	Biochemical Assessment of Early Changes in Protein-Calorie Malnutrition	7/1/1976	6/30/1979
2207	Energy Conservation as Related to Selection and Use of Household Appliances by Homeowners	7/1/1976	6/30/1978
2208	Acceptance of Energy Efficient Residential Housing Design	7/1/1976	6/30/1978
2209	Rural Industry Feasibility and Location	7/1/1976	6/30/1979
2210	Strategies and Procedures for Advanced Generation Breeding of Forest Species	10/1/1976	9/30/1991
2211	Resource Utilization and Behavior of Migrating Snow Geese at DeSoto National Wildlife Refuge	9/1/1976	11/17/1979
2212	Clothing and Household Textiles Consumption Related to Values and Fashion Risk	7/1/1976	6/30/1979
2213	Metabolic Patterns of Obese Women: A Five-year Study	9/30/1976	9/30/1982
2214	Relating Soil Wetness to Selected Soil and Landscape Features and to Land Use Decisions	10/1/1982	9/30/1988
2215	Habitat Use by the Least Chipmunk in Wind Cave National Park	8/20/1976	8/31/1977
2216	Development of Safe Methods for Disposal of Excess Pesticides Used by Farmers and Agricultural Applicators	10/12/1976	12/31/1980
2217	Diagnostic Tests for Evaluating the Nutrient Status of Soils and Plants and Recommendation Procedures for Nutrient Needs	10/1/1976	7/10/1984
2218	Research Utilization: Structure and Process	10/1/1976	7/1/1977
2219	Characteristics of Iowa Farms and Farm Families	11/1/1976	4/24/1978
2220	Breeding and Genetics of Vegetable Crops to Improve Nutrient Content and Lower Production Risk	1/1/1977	9/30/1991
2221	Multiple Laying Cycles in Geese	1/1/1977	12/31/1977

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Iowa Project #	Project Title	Start Date	End Date
2222	Factors Governing Abundance and Seasonal Distribution of Economically Important Calyprate Flies	1/1/1977	6/30/1980
2223	Development of Serodiagnostic Procedures for Detection and Quantitation of Plant Viruses	1/1/1977	9/30/1980
2224	Development of Community Capacity Building in Youth Development and Youth Services Programming for Fort Dodge, Iowa	3/1/1977	9/30/1979
2225	Factors Affecting Fish Populations of Iowa Streams	3/1/1977	6/30/1980
2226	Alternative Rail Rates in the Corn-Soybean Marketing System	4/6/1977	12/31/1980
2227	Introgression of Germplasm from Weedy Species to Increase Productivity of Diploid Cereals	4/12/1977	4/11/1982
2228	Neuro-Endocrine Regulation of Onset of Puberty in the Female Pig	4/11/1977	4/10/1981
2229	The Role of Effector Cells in the Resistance of Cattle to Bovine Respiratory Disease	4/11/1977	12/31/1981
2230	Field testing curriculum and program restructuring guidelines for agriculture and agribusiness education in Iowa	7/1/1977	9/30/1978
2231	Field, Greenhouse, and Laboratory Investigations of Turfgrass Cultural Practices	7/1/1977	6/30/1992
2232	Habitat Relationships of the Eastern Wild Turkey in a Farmland-Forest Environment in Southern Iowa	2/1/1977	8/30/1981
2233	Water Quality Enhancement of Lakes by Mechanical Pumping	3/6/1977	6/30/1983
2234	Ecology of Larval Stream Fishes	7/1/1977	6/30/1979
2235	Genetics of Natural Fish Populations	1/1/1977	6/30/1979
2236	Behavior of Iowa Sport Fishes	7/1/1977	6/30/1982
2237	Genetic Bases for Resistance and Immunity to Avian Diseases	7/1/1977	9/30/2003
2238	Selenium in the Nutrition of Young Swine	7/1/1977	6/30/1982
2239	Selenium's Effect on Mercury in Eggs, Meat, and Milk	1/1/1977	6/30/1980
2240	Efficiency in the Nutrition of Chickens	7/1/1977	9/30/1982
2241	Effects of Dietary Fat and Dietary Fiber on Efficiency of Feed Utilization and Growth of Turkey	7/1/1977	6/30/1982

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Iowa Project #	Project Title	Start Date	End Date
2242	Feedlot Cattle: Utilization of Iowa Grown Crops and Their Influence Upon Performance and Carcass Composition	7/1/1977	9/30/1982
2243	Plasma Membrane Functions and the Role of fungal Toxins in Plant Disease	7/1/1977	6/30/1982
2244	Enzyme-Mechanisms, Regulation, and Control	7/1/1977	6/30/1982
2245	Relationship Between Ribosome Structure and Function	7/1/1977	6/30/1982
2246	Farm Land Ownership Characteristics and Processes	7/1/1980	6/30/1986
2247	Water Allocation Use and Development	7/1/1980	6/1/1983
2248	Ecology and Management of Insects in Soybeans and Other Legumes	7/1/1977	6/30/1982
2249	Studies on Noctuid Pests of Major Agricultural Crops in Iowa	7/1/1977	6/30/1982
2250	Management of Corn Insect Pests	7/1/1977	6/30/1982
2251	Immunogenetics of Vertebrates	6/1/1977	6/30/1982
2252	Effect of Composition, Deboning, and Preservation Methods on Quality of Meats	10/1/1977	9/30/1991
2253	Chromium Nutrition, Food Energy, and Body Composition	7/1/1977	6/30/1979
2254	Development of Impatiens and Flower Shrub Cultivars with Greater Stress Tolerance	7/1/1977	6/30/1982
2255	Breeding and Culture of Bedding Plants, Including Geranium	7/1/1950	6/30/1985
2256	Breeding, Propagation and Culture of Roses and Herbaceous Perennial Ornamental Plants	7/1/1949	6/30/1985
2257	Multiple Cropping and the Family Farm in Iowa	10/1/1977	9/30/1983
2258	The Design and Introduction of An Accounting-Record Analysis Service for Local Farmer Cooperatives	8/19/1977	9/30/1979
2259	Bionomics and Interactions of Beneficial Organisms Attacking Insect Pests of Iowa Field and Forage Crops	7/1/1977	6/30/1982
2260	Developing Criteria for Evaluating Additives for Improving Silage Quality and Preservation	7/1/1977	12/31/1984
2261	Regulation by Cellular Membranes of Winter Hardening in Tree Seedlings	10/1/1977	1/31/1980
2262	Behavior of Iowa Game Mammals and Their Management	7/1/1977	6/30/1982

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Iowa Project #	Project Title	Start Date	End Date
2263	Improving Public Forest Recreation Management in Iowa	10/1/1977	9/30/1979
2264	Research Planning Procedures	7/1/1977	6/30/1982
2265	Deep Tillage Studies on Reclaimed Loess and Glacial Till	8/31/1977	12/31/1979
2266	Rootstock and Interstem Effects on Pome and Stone Fruit Trees	10/1/1992	9/30/1997
2266	Improving Economic and Environmental Sustainability in Tree-fruit Production Through Changes in Rootstock Use	10/1/2007	9/30/2017
2267	Transfer of Nitrogen Fixing ability to Non-Legume Eucaryotes		9/30/1979
2268	Railroad Right-of-Ways as Wildlife Habitats in Story County, Iowa	9/27/1977	6/30/1979
2269	Soil Profile Characteristics of Restored Soils at a Coal Surface Mine	12/1/1977	12/31/1981
2270	Establishment of Several Crop Rotations on Restored Soils at a Coal Surface Mine	10/1/1977	12/31/1979
2271	Assessing and Specifying the Determinants of Organizational Effectiveness and Impact	9/1/1977	8/31/1982
2272	Genetic and Biochemical Bases of Alcohol Adaptation in Drosophila		12/31/1981
2273	Methods for Improvement of Fertility in Cows Postpartum	10/1/1987	9/30/2002
2274	Optimum Utilization of Sewage Sludge on Agricultural Land	10/1/1977	9/30/1984
2275	Regulation of Photosynthetic Processes	10/1/1992	9/30/2002
2276	Chemical Changes in Atmospheric Deposition and Effects on Agricultural & Forest Land and Surface Waters	10/1/1977	9/30/1983
2277	Bionomics and Control of Mosquitoes and Bloodsucking Midges in Iowa	1/1/1992	10/30/1992
2278	Analysis of Corn and Soybean Cash-Futures Price Relationships by Iowa Price Reporting Districts and in Chicago Markets	12/1/1977	3/1/1980
2279	Analysis of Multi-County Intergovernmental Unit and Impacts on Local Government	1/1/1978	9/30/1981
2280	Iowa Addendum: Development of Pest Management Strategies for Soil Insects on Corn	10/7/1977	1/31/1983

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Iowa Project #	Project Title	Start Date	End Date
2281	Dynamics of Forage Production and Utilization by Beef Cattle	10/1/1977	9/30/1988
2282	Factors Affecting Marketing Performance of the Dairy Industry	9/2/1979	12/31/1983
2283	Communication Strategies to Improve Nutrition Practices of Families	1/1/1978	9/30/1982
2284	The Use of Fish Behavior in Toxicity Testing	7/1/1977	6/30/1982
2285	Reduction of Corn Losses Due to Nematodes in the North Central Region	1/1/1978	9/30/1988
2286	Assessing Public Tree Needs in Iowa Communities	5/1/1979	12/31/1982
2287	Food Habits of Bison and their Relationship to Other Ungulates Using Rangelands in Wind Cave National Park	3/30/1978	3/15/1981
2288	North Central Regional Center for Rural Development	3/28/1978	3/27/1983
2289	Determining Relationships Among Leaf Area, Photosynthesis, Dry-Matter Distribution and Yield	7/1/1978	9/30/1985
2290	Soil Moisture and the Soil Moisture-Plant Water-Atmospheric Environment Interaction	3/15/1978	9/30/1985
2291	Development of Analytical Models for Estate Planning Assistance	7/1/1978	6/30/1984
2292	Mechanism of Intestinal Utilization of Dietary Free Fatty Acids	7/1/1978	9/30/1984
2293	Volume Table and Production Time for Hardwood Firewood	7/1/1978	9/30/1981
2294	Establishment and Early Growth of Intensively Cultured Trees	7/1/1978	9/30/1981
2295	Physiology, Symbioses and Rapid Selection for Intensively Cultured Trees	10/1/1978	9/30/1981
2296	Effect of Sequence of Reactions in a Starch-Containing Food System on Final Physical Characteristics	1/7/1978	12/31/1982
2297	Cholesterol Effects on Carcinogen Metabolism	7/1/1978	6/30/1982
2298	Enhancement of Nitrogen Fixation in Soybeans	7/1/1978	6/30/1983
2299	RNA and Nitrogenase Regulation in Bacteria	7/1/1978	6/30/1983
2300	Mutation, Aberration and Other Genetic Phenomena in Maize	7/1/1978	6/30/1983
2301	Sociological Implications of Agricultural Structure: The Development of a Typology	7/1/1978	6/30/1982

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Iowa Project #	Project Title	Start Date	End Date
2302	Older Males in Iowa's Small Towns and the Nation: Panel Studies of Work and Retirement	7/1/1978	6/30/1983
2303	Land Use Preservation Commissioners' Perceptions of and Attitudes Toward Land Use Planning	7/1/1978	6/30/1982
2304	Alternative Procedures for Determining the Productivity and Net Earning Capacity of Agricultural Land	7/1/1978	9/30/1979
2305	Analysis of Alternative Livestock Marketing Systems and Methods	7/1/1978	9/30/1981
2306	The Toxicology of Modern Insecticides Based on Their Biological, Chemical, and Physical Properties	7/1/1978	9/30/1992
2307	New Detection of Mutagenic and Toxic Activity in Food and Water Sources	3/8/1978	6/30/1981
2308	Environmental and Physiological Interactions and the Pathogenesis of Grass Disease	7/1/1978	9/30/1983
2309	Energy Management in Use of Household Appliances and Quality of the Residential Interior Environment	5/1/1978	6/30/1982
2310	Occupant Responses to a Residence Designed for Optimum Energy Conservation	7/1/1978	6/30/1981
2311	Potassium and Related Minerals in Soils	7/1/1978	6/30/1984
2312	An Integrated Farm Energy Supply System for the Iowa Farm	7/1/1978	1/30/1983
2313	Contribution of Agricultural Extension to Production in the US	7/1/1978	6/30/1982
2314	The Role of Human Capital Variables in the Performance of Farm and Households	7/1/1978	6/30/1983
2315	Processes for Representation of Economic, Social, Educational, and Environmental Interests in National Food Policy Development	7/1/1978	12/31/1982
2316	Analysis of Returns to Agricultural, Natural Resources, Rural Development and Related Research in the North Central Region	7/30/1978	9/30/1981
2317	The Microhistological Fecal Technique as Applied to Prairie Dogs in Wind Cave National Park	5/25/1978	6/30/1979
2318	Entrepreneur Opportunities in Home Economics for Rural Areas	7/1/1978	6/30/1981
2319	Validation of the Iowa Social Competency Scales	7/1/1978	6/30/1982

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Iowa Project #	Project Title	Start Date	End Date
2320	Grain Quality Grading and Improvement on the Producer and Country Elevator Level	7/1/1978	6/30/1984
2321	Properties of Plant Proteins and their Functional Performance in Food Products	7/1/1978	6/30/1982
2322	Effects of Soil Profile Characteristics on Success of Conservation Tillage Systems	6/10/1978	6/30/1981
2323	Mineral Nutrition of Soybeans During Seed-Filling	5/11/1978	5/10/1982
2324	Post-Restoration Agricultural Management of Reclaimed Coal Surface Mines	7/1/1978	12/31/1985
2325	Development of Biomass Systems for Drying Corn	7/1/1978	6/30/1981
2326	Variables Influencing Corn Yields of Iowa Soils	7/1/1978	9/30/1982
2327	Wildlife Use of Fencerows	7/1/1978	6/30/1983
2328	Point-Injection Fertilization of Crops	6/1/1978	12/31/1979
2329	Control of Dust, Humidity, and Ventilation in Confinement Livestock Buildings	9/18/1978	9/30/1993
2330	A Structurally Integrated Solar Collector Wall for Livestock Buildings	7/1/1978	6/30/1980
2332	Food Quality Changes Associated with Thermal Processing in Households and Foodservice Systems	10/1/1988	9/30/1993
2333	Drainage Requirements of Reclaimed Minelands for Crop Production	10/1/1978	8/31/1980
2334	Effects of Fungal Toxins on Nutrient Transport in Corn	10/1/1978	9/30/1980
2335	Labor-Intensive Enterprise Alternatives for Small-Scale Iowa Farms: Hogs, Vegetables, Fruit	12/1/1978	12/31/1983
2336	Influence of Dietary Pyridoxine on Glycogen Metabolism in Normal and Diabetic Animals	12/1/1978	11/30/1981
2337	Quality and Nutritive Value of Processed Potatoes	10/11/1978	9/30/1989
2338	Physiological Controls of Blood Cholesterol and Lipoproteins Quantitation of Diet-Related Factors	9/14/1978	9/30/1982
2339	Marketing and Delivery of Quality Cereals and Oilseeds in domestic and Foreign Markets	10/1/1978	12/31/1993
2340	Factors Affecting Continued Establishment of Young Operators in Farming Iowa	12/14/1978	12/31/1980
2341	Household Behavior and Socioeconomic Problems in Housing and Related Areas	1/22/1979	9/30/1981
2342	Epidemiology of Mycotoxin Development in Iowa Crops	1/1/1979	9/30/1982

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Iowa Project #	Project Title	Start Date	End Date
2343	Effect of Conservation Tillage on Research Input, Crop Residue, Soil Properties, Machinery Design and Crop Production	2/1/1979	6/30/1985
2344	Effects of Pesticides on Wildlife in Agricultural Areas	9/25/1978	12/31/1982
2345	Biology and Sport Fishing Harvest of Yellow Perch	3/1/1979	6/30/1982
2346	The Common Crow as a Sentinel Species of Rabies	4/1/1979	6/30/1983
2347	The Effects of Pre- and Post- Harvest Practices on the Quality of Horticultural Products	7/1/1979	6/30/1992
2348	Understanding and Managing Prairie Dog Colony Expansion		6/30/1982
2349	Soybean Management Systems for Iowa	7/1/1979	9/30/1986
2350	Metabolic Interrelations in Ketosis of Dairy Cattle	4/1/1979	9/30/1982
2351	Genetics and Epidemiology in Chickens	4/1/1979	9/30/1997
2352	Urinary and Barin Catecholmine Levels in Stress Susceptible and Normal Swine	4/1/1979	9/30/1982
2353	Field Scale Evaluation of a Conservation Tillage Management System	4/20/1979	9/30/1983
2354	Increased Plant-Available Water Supplies Through Modification of Soybean Root Systems	7/1/1979	6/30/1983
2355	Radio Use in Agriculture Market Decisions	1/4/1979	6/30/1982
2356	Efficient Use of Protein by Growing Pigs	10/1/1979	9/30/1988
2357	Amino Acid Requirements for Pregnancy and Lactation in the Pig	7/1/1979	9/30/1989
2358	Regulation of Fat Deposition in Cattle	7/1/1979	6/30/1981
2359	North Central Regional Center for Rural Development	3/20/1979	3/19/1984
2360	Chromium Nutrition-Subcellular Distribution and Functional Forms in Liver	7/1/1979	6/30/1982
2361	Fundamental Properties of Myofibrillar and Cytoskeletal Proteins	7/1/1979	9/30/1989
2362	Interactive Weed and Insect Stresses on Soybean Plants and Bioeconomic Models	6/1/1979	5/31/1982
2363	Subcellular and Molecular Components of Skeletal Muscle Associated with Tenderness Water Holding Capacity, and Emulsification	7/1/1979	9/30/1984
2364	Sociological Factors in the Adoption of Agricultural Conservation Practices	7/1/1979	6/30/1984

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Iowa Project #	Project Title	Start Date	End Date
2365	Bacterial and Fungal Spores in Food and Feed	7/1/1979	6/30/1992
2366	Social Carrying Capacities of Wildlands	7/1/1978	6/30/1982
2367	Small Town Studies in Iowa	7/1/1979	6/30/1982
2368	Economic Impacts of Environmental Policy, Energy Policy, and Alternative Technologies on Farm Production Systems	7/1/1979	6/30/1983
2369	Applications of Economics in Animal Breeding and Management	7/1/1979	9/30/1983
2370	Interactions of Zinc Deficiency and Protein-Calorie Malnutrition	7/1/1979	9/30/1982
2371	Dietary Protein and Toxicities of Methylmercury, Atrazine and Primaquine	7/1/1979	9/30/1981
2372	Endocrine Control of Nutrient Utilization in Beef Cattle	7/1/1979	9/30/1983
2373	Year-Round Forage Systems for Cow-calf Production in the Midwest	7/1/1979	9/30/1993
2374	Availability and Utilization of Dietary Energy by Young Swine	7/1/1979	9/30/1983
2375	Evaluation of Soybean Losses Due to Nematodes in Iowa	10/1/1979	9/30/1990
2376	Clothing Preferences and Practices as Related to Perceived Risk of Fashion Change	7/1/1979	6/30/1983
2377	Food and Biomass Microbiology	7/1/1979	6/30/1984
2378	Biological Data for Management of Walleyes and Other Fishes	7/1/1979	6/30/1986
2379	Biology and Management of Insect Pests of Shade and Ornamental Trees	7/1/1979	6/30/1985
2380	Microbiology and Control of Quality of Poultry Products	7/1/1979	9/30/1992
2381	Genetics and Cytology of Maize	7/1/1979	9/30/1987
2382	Plant-Parasitic Nematodes in Iowa	7/1/1979	9/30/1990
2383	Measurement Error Models and Time Series	7/1/1979	6/30/1984
2384	Conducting Supervised Occupational Experience in Agriculture	7/1/1979	6/30/1983
2385	The Role of Youth Organizations for Students Interested in Agriculture Courses	7/1/1979	6/30/1983
2386	Development of Computerized Farm Planning and Information Systems	7/1/1979	6/30/1986

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Iowa Project #	Project Title	Start Date	End Date
2387	Land Use: Processes, Projections, Planning and Informational Systems	1/1/1979	6/30/1983
2388	Forage Lignification Effects on Energy and Protein Utilization by Dairy Cows	7/1/1979	9/30/1984
2389	Ketosis in Dairy Cattle: Interrelations with Carbohydrate and Lipid Metabolism	6/4/1979	3/31/1983
2390	Weed Germination and Control Methods in Conservation Tillage Soybean Production	7/1/1979	6/30/1985
2391	Determination of Cooperative Pricing and Financing Policies	10/1/1979	9/30/1981
2392	Comparative Investments, Costs, and Returns from Alternative Swine Production Systems	7/11/1979	6/30/1983
2393	Factors Influencing the Incidence of Milk Fever, Prevention of Milk Fever, and Vitamin D Metabolism	6/4/1979	9/30/1982
2394	Antibiotics, Fermentation Products, and Processed Grains for Swine	7/1/1979	9/30/1983
2395	New Feasibility of Continuous Cropping of Brown Stem Resistant Soybean for Disease Control	7/1/1979	6/30/1986
2396	Sensory Aspects of Preferences for High Fat Foods	8/1/1979	8/30/1982
2397	Characterization of Climate and Assessment of Impact on Agriculture and Other Renewable Resources	10/1/1979	9/30/1984
2398	Seed Pathology of Soybeans	10/1/1979	9/30/1983
2399	Evaluation of Post-Impoundment Wildlife and Users of Red Rock Reservoir and Use of Flooded Dead Trees by Birds	9/4/1979	12/31/1984
2400	Economic Consequences of Selected Provisions of the Food and Agriculture Act of 1977	10/1/1979	9/30/1982
2401	Estimating Effects of Exploitation and Habitat Changes on Wildlife Populations	9/1/1979	6/30/1994
2402	Forecasting of Capacity in the Pulp, Paper, and Paperboard Industry	9/30/1979	9/30/1983
2403	Certification of Soybean Seed for Soybean Mosaic Virus	9/1/1979	9/30/1983
2404	Mortality, Home Range, Movement, and Habitat Selection of White-Tailed Deer Fawns in South Central Iowa	7/1/1979	9/30/1986
2405	Biocontrol of Soil- and Residue-Borne Plant Pathogens	10/1/1979	9/30/2004
2406	Mycotoxins in Cereal Grains	10/1/1979	9/30/2005

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Iowa Project #	Project Title	Start Date	End Date
2407	The Effect of Packaging and Merchandising Methods on the Shelf Life and Quality of Meat	11/1/1979	9/30/1984
2408	Socio-economic Characteristics as Related to Purchasing Patterns for Nursery Stock and/or Seeds by Mailorder	9/30/1979	6/30/1983
2409	Changing Structure of Agriculture: Causes, Consequences and Policy Implications	10/1/1979	9/30/1984
2410	Effects of Land Use Practices on Stream Biota	7/1/1979	6/30/1984
2411	Biology, Ecology, and Population Management Strategies for Muscoid Flies Affecting Cattle	1/10/1990	9/30/1995
2412	Biological vs Chemical Farming: Effects on Wildlife, Insects, Energy Use, Soils and Economics	9/26/1979	12/31/1987
2413	Evaluation of the Effectiveness of Strategies for Structuring Agriculture and Agribusiness Education	11/1/1979	6/30/1982
2414	Southeast Iowa Conservation Tillage	1/1/1980	6/30/1985
2415	Organization and Control of the U.S. Food Production and Distribution System	3/1/1980	9/30/1986
2416	Structure of Starch and the Action of Starch Enzymes	10/1/1979	9/30/1992
2417	Electric and Hybrid Vehicles in Agriculture, Forestry, and Rural Life in the North Central States	11/7/1979	6/30/1982
2418	North Central Regional Center for Rural Development	4/1/1980	3/31/1985
2419	Phenology and Genetics as Ecological Bases for the Management of the European Corn Borer	1/1/1980	9/30/1985
2420	Grounut Inoculation in Sudan	1/31/1980	1/31/1984
2421	Adult Paddlefish Movement in Pool 13, Upper Mississippi River	3/1/1980	2/28/1982
2422	Development and Evaluation of Soybean-Corn Management Systems	1/1/1980	6/30/1986
2423	The Effect of Soil Surface Conditions on Soil Surface Heat Exchange	3/10/1980	11/1/1983
2424	Energy-Conserving Practices During Production Scheduling and the Effects on Potted Floricultural Crops	4/1/1980	8/31/1980
2425	Glycogen Metabolism in Heart Tissue	6/1/1980	6/30/1990
2426	Growth and Change in the Soybean Sector 1970-1985; An Analysis of Supply, Demand, and Price Variability	4/1/1980	12/31/1984

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Iowa Project #	Project Title	Start Date	End Date
2427	Energy Requirements and Management of Post-Breeding Waterfowl on Mid-Latitude Refugee	10/1/1979	9/30/1986
2428	Virus Diseases of Plants	7/1/1980	9/30/1994
2429	Genetics and Control of Enterotoxin Production by Staphylococcus Aureus and Other Food-Borne Pathogens	5/1/1980	6/30/1983
2430	Rapid Microbial Breakdown of Herbicides Resulting in Weed Control Failures	7/1/1980	12/31/1984
2431	Chemical Reactions and Availability to Plants of Phosphorus and Sulfur in Soils	7/1/1980	7/1/1999
2432	Chemistry of Poorly-Aerated Soil-Plant Systems	10/1/1980	9/30/1985
2433	Control of processing factors causing changes in physical and biochemical properties of soybeans and other legumes.	10/1/1983	9/30/1989
2434	Monitoring Community Structural Capacity: Measurement and Evaluation	7/1/1980	9/30/1986
2435	Physiological Processes Affected by Growth Altering Stresses in Crop Plants	7/1/1980	6/30/1984
2436	Production by Fermentation of Lipids for Energy	6/1/1980	9/30/1983
2437	Commodity Price Analysis and Risk Management	7/1/1980	6/30/1985
2438	Dietary Pattern Interactions in Lipid Metabolism	10/1/1980	9/30/1985
2439	Impact of Alternative Changes in the Structure of the Railroad System in Iowa on Grain Producers and Railroad Companies	7/1/1980	6/30/1990
2440	Sample Design and Estimation for Natural Resources and Farm Characteristics	7/1/1980	6/30/1985
2441	Mutants of Membrane Function in Mammalian Cells	7/1/1980	6/30/1985
2442	Mathematical Modeling of Life Systems for Acleris Minuta (Robinson)	7/1/1980	6/30/1983
2443	Endocrinology of Reproduction in Farm Animals for Increased Production Efficiency	10/1/1980	9/30/1995
2444	Neuroendocrine Regulation of Reproduction in Cattle and Swine	10/1/1980	9/30/1995
2445	Fertilizer Management for Greater Efficiency of Use and Improved Quality of Agricultural Drainage	10/1/1980	9/30/1991
2446	Breeding for Physiological Attributes in Soybeans	7/17/1970	6/30/1986

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Iowa Project #	Project Title	Start Date	End Date
2447	Breeding Disease Resistant Oat Cultivars With Value Added Traits	10/1/1980	9/30/1995
2448	Analysis of Organizational Alternatives for Farm Firms	7/1/1980	6/30/1986
2449	Analysis of Mesocale Precipitation Data and Preliminary Investigation of Summer Shower Efficiency	6/30/1980	6/30/1984
2450	Development and Management of Iowa's Land and Water Resources within Drainage Districts	1/10/1980	10/1/1985
2451	Continuous On-Farm Corn-Alcohol Production at 12 GPD: Energy and Management Needs	9/1/1980	2/28/1983
2452	Small Fruits Breeding, Physiology, and Adaptation	7/1/1980	6/30/1986
2453	Detection of A Flavus in Human Foodstuffs by Gas Chromatography	7/1/1980	6/30/1982
2454	Production of Low-fat, Choice Beef with Energy Conserving Cattle Diets	7/1/1980	6/30/1985
2455	Evaluation of Soil Erosion Effects Upon Soil Productivity and Off-Site Damages and Benefits in Establishing T Values	10/1/1980	6/30/1985
2456	Plant Virus Antibody Production Utilizing Cell Culture Methods	10/1/1980	9/30/1984
2457	Measurement and Control of Odors from Lagoons and Other Livestock Facilities	10/1/1985	12/31/1987
2458	Fish Movement in Pool 9, Upper Mississippi River	6/1/1980	10/1/1982
2459	Weed Control with Conservation Tillage as Affected by Herbicide and Residue Management	10/1/1980	6/30/1985
2460	Sunflower Production, Oil Extraction, and Oil Utilization as a Tractor Fuel	7/1/1980	6/30/1983
2461	Plant Breeding for Physiological Traits	10/1/1980	9/30/1986
2462	Development and Evaluation of Conservation Tillage Systems	2/26/1980	9/30/1988
2463	Crops, Soil, and Animal Management Systems for Upper Midwest Driftless Soils	10/1/1980	9/30/2001
2464	Bacterial Pustule of Soybeans: Epidemiology and Host-Parasite Interaction	9/1/1980	6/30/1983
2465	Factors Affecting Fish Population in Iowa Waters	7/31/1980	9/30/1987
2466	Effects of Habitat Change on Iowa Birds	7/1/1980	6/30/1990
2467	Physical, Chemical, and Mineralogical Properties of Genetic Soil Horizons	7/1/1980	9/30/1985

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Iowa Project #	Project Title	Start Date	End Date
2468	Effects of Prescribed Burning on Nongame Birds Breeding in Sagebrush Communities	9/1/1980	6/30/1992
2469	Physical Properties of Foods and Their Dependence on Some Processing Factors	10/1/1980	6/30/1983
2470	Seed Production and Management for High Quality Seed	5/29/1980	6/30/1986
2471	Genetics and Cytogenetics of Soybean	7/1/1980	9/30/1985
2472	Gene Transfer and Mapping in Rhizobium Japonicum	9/1/1980	8/31/1985
2473	Improved Annual Efficiency of Solar-Assisted Swine Unit by Microcomputer Control	9/15/1980	9/30/1982
2474	Short-Rotation Populus Clones: Relationships Between Stem and Structural Flakeboard Properties	9/1/1980	9/30/1983
2475	Soybean Cultivar Development	10/1/1980	9/30/1991
2476	Energy and By-Products from Animal Manure	10/1/1980	9/30/1985
2477	Solar Energy for Grain Drying	9/15/1980	9/30/1982
2478	A Study of Beliefs About Parenting in Rural and Urban Populations	10/1/1980	9/30/1987
2479	Biological and Recreational Aspects of Water Level Management of Clear Lake, Iowa	10/1/1980	12/31/1982
2480	North Central Regional Center for Rural Development	1/1/1981	3/31/1985
2481	Coordinate Regulation of Genes of Related Function in Maize	2/1/1981	10/31/1982
2482	Agricultural Stream Ecosystems: Structure and Function for Understanding Water Quality Benefits	2/9/1981	9/30/1986
2483	Restoration of Iowa Lakes	2/9/1981	9/30/1985
2484	Influence of Extractives on Bonding Properties of Hardwood Flakeboard	2/27/1981	5/31/1982
2485	Improving Hardwood Seedling Quality For Increased Field Survival And Early Growth	7/1/1981	9/30/1995
2486	Market Potential from Iowa Woodlands	7/1/1981	12/16/1986
2487	Enhancement of Flavor and Appearance of Swiss Cheese	1/1/1981	6/30/1990
2488	The Equilibrium Absorption Rates of Septic Tank Effluent in Conventional Lateral Systems	7/1/1981	6/30/1984
2489	Navigation Impacts on Channel Fishes, Upper Mississippi River	4/1/1981	12/31/1982

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Iowa Project #	Project Title	Start Date	End Date
2490	Applied Population Studies in Iowa	7/1/1981	9/30/1986
2491	The Role of Regional Councils in Community Development	10/1/1981	9/30/1985
2492	Plant-Growth-Regulatory Chemical Effects on Corn and Soybeans	7/1/1981	9/30/1986
2493	Measuring and Improving the Flavor Stability of Fats and Soybean Oil	5/1/1981	9/30/1986
2494	Soil Conservation Obstacles and Means for Overcoming them: Sociological Factors	7/1/1981	9/30/1986
2495	Increasing the Efficiency of Plant Tissue Culture Methods Used in the Improvement of Horticultural Crops	7/1/1981	9/30/1994
2496	Evaluation of Carbon Losses by Soybean Plants	6/1/1981	6/30/1985
2497	Structural Change, Technology, Farm Size and Numbers in Agriculture	7/1/1981	9/30/1986
2498	General Analysis of U.S. Agricultural, Export, Environmental and Energy Policies	10/1/1981	9/30/1986
2499	Socioeconomic Factors Affecting the Adoption of Soil Conservation Practices	1/1/1981	9/30/1986
2500	National Models Applied to Agricultural Productivity, Soil Erosion control and Environmental Improvement	10/1/1981	9/30/1987
2501	Economic Evaluation of conservation Practices on Individual Farms and Land Resource Areas of Iowa	4/20/1981	9/30/1987
2502	Iowa Land Values and Land Income	7/1/1981	9/30/1994
2503	Soil Permeability and Other Soil Property Relationships with Microbial Activity	7/1/1981	6/30/1986
2504	Applied Dairy Nutrition	7/1/1981	9/30/1990
2505	Utilization of Nutrients by Farm Animals	7/1/1981	9/30/1985
2506	Glucose Metabolism in Ruminants	7/1/1981	9/30/1985
2507	Lipid Metabolism of Cattle	7/1/1981	9/30/1985
2508	Rhizobium Competitiveness and Nodulation of Host Legumes	7/1/1981	7/31/1986
2509	Effect of Premature Weaning on Cholesterol Metabolism in Later Life	7/1/1981	9/30/1984
2510	Women Small Business Owners: Personal Characteristics as Related to Entrepreneurial Type	7/1/1981	6/30/1983

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Iowa Project #	Project Title	Start Date	End Date
2511	Dietary Proteins and Interactions of Benzo (a) Pyrene and Lead in Carcinogenesis of Mice	9/1/1981	9/30/1984
2512	Early Nutritional Experiences in the Development of Obesity	7/1/1981	9/30/1992
2513	Methods of Controlling Corn Insects	7/1/1981	6/30/1992
2514	Impact of Computer-Based Information Systems upon Extension and its Farmer Clients	6/1/1981	6/30/1985
2515	The Influence of Processing Techniques on Basic Characteristics and Quality of Meat Products	7/1/1981	9/30/1986
2516	Historical Perspectives on the Performance of U.S. Agriculture Experiment Stations	7/1/1981	6/30/1990
2517	Stem Yield from Air- and Kiln-dried Cottonwood Using the SDR System	7/1/1981	12/31/1982
2518	Popcorn Improvement Via Breeding and Selection	7/1/1981	6/30/1986
2519	The Use of Llamas and Guanacos for Protection of Sheep Against Canid Predators	7/1/1981	6/30/1993
2520	Global Foods Interdependence: The Political-Economic Interrelationships of U.S. Food Policies and Programs with Those of Other National Governments and of International Organizations	6/3/1981	6/30/1985
2521	Numerical Modeling of Diffusion Over a Plant Canopy	10/1/1981	9/30/1986
2522	Factors Affecting the Structure and Behavior of Agribusiness Firms	7/1/1981	1/1/1986
2523	Biotechnological Approaches to Improving the Growth of Intensively Cultured "Biomass" and "Fine" Hardwoods	10/1/1981	3/31/1993
2524	Microbiological and Pest Aspects of Intensively Grown Biomass and Quality Hardwood Tree Plantations	10/1/1981	9/30/1985
2525	Physiology of Seed Development and Maturation as Influenced by Environment and Genotypes	7/1/1981	9/30/1992
2526	The Physiological Effects of Artificial Drying on Seed Quality and Performance in Corn	10/1/1981	9/30/1991
2527	Mineral Nutrition of and Fertilization Practices for Grain Crops	6/30/1981	6/30/1986
2528	Hypothalamic Control of Pituitary Hormones and Ovarian Function in Beef Heifers	10/1/1981	12/31/1986
2529	Regulation of Fat and Protein Deposition in Cattle	10/1/1981	9/30/1986

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Iowa Project #	Project Title	Start Date	End Date
2530	Some Determinants and Consequences of Energy Conservation: Social, Economic, and Health Factors	10/1/1981	6/30/1986
2531	Development and Behavior of Black Cutworms and True Armyworm	7/1/1981	6/30/1986
2532	The Coordinate Regulation of Unlinked, Functionally Related, Genes in Maize	8/1/1981	10/31/1982
2533	The Coordinate Regulation of Unlinked, Functionally Related, Genes in Maize	8/1/1981	7/31/1984
2534	A Steady State Approach to Human Vitamin A Status	9/15/1981	9/30/1990
2535	The Harvest and Collection of Corncobs for Energy	8/1/1981	6/30/1983
2536	Performance of the U. S. Grain Marketing System in a Changing Economics and Policy Environment	7/1/1981	9/30/1987
2537	Financing Agriculture in a Changing Environment: Marco, Market, Policy and Management Issues	10/1/1981	9/30/1991
2538	Transposable Elements, Mutation and Control of Genetic Function	10/29/1981	12/31/1985
2539	Aneuploids and Polyploids from ms1 Soybeans: Their Use in Crop Improvement	9/1/1981	12/31/1984
2540	Corn Drying Using Heat from a Direct-fired Crop Residue Furnace	9/15/1981	9/30/1986
2541	Analysis of Individual Agricultural Shipper / Receiver Transportation Alternatives	1/1/1982	6/30/1984
2542	Adoption/Diffusion of New Agricultural Ideas and Technology	7/1/1982	6/30/1988
2543	Stress, Coping, and Adaptation in the Middle Years of the Family Life Cycle	10/1/1982	9/30/1987
2544	North Central Regional Center for rural Development: Planning and Coordinating Rural Development Research	1/1/1982	9/30/1986
2545	Evaluation of Impacts of No-Till Farming Practices on Upland and Wildlife on Private Lands in Iowa	1/6/1982	12/31/1984
2546	Production and Maintenance of Woody Ornamentals- Culture and Genetic Variation	2/1/1982	6/30/1991
2547	Models of Decentralization in Agricultural / Rural Policy	1/1/1982	6/30/1985
2548	The Competitive Position of Iowa in the World Soybean Market	3/1/1982	12/31/1985

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Iowa Project #	Project Title	Start Date	End Date
2549	Kraft Spent Liquor Lignin as a Copolymer in Phenol-formaldehyde Resins	3/14/1982	8/15/1984
2550	Iowa Farm and Rural Life Poll	4/1/1982	4/30/1992
2551	Iowa Vegetable Crop Production-Muscatine Island	4/1/1982	6/30/1993
2552	Cost Benefit Evaluation of Fly-Control Agents in Caged-Layer Facilities	4/1/1982	6/30/1983
2553	Pathogen Resistance and Nutritional content of Lycopersicon Spp. PI Accessions	5/1/1982	4/30/1987
2554	Breeding Ornamental Plants for Stress Tolerance and Superior Horticultural Characteristics	7/1/1982	6/30/1990
2555	Effect of Long-Term Cropping Sequences and Fertilization Practices on Crop Yields and Soil Productivity	7/1/1982	3/30/1995
2556	Soil Physical Properties and the Retention and Transport of Heat and Matter in Soil.	7/1/1982	6/30/1992
2557	Biological Control of Corn Ear and Kernel Rot	6/1/1982	6/30/1986
2558	Parasitoids of Pest Insects in Iowa	7/1/1982	4/29/1984
2559	Management of Field-Crop Insects in Iowa	7/1/1982	9/30/1992
2560	Structural Basis for Plant Cell Membrane Function	7/1/1982	12/31/1986
2561	Improving Efficiency of Energy and Protein Utilization by Growing Turkeys	10/1/1983	9/30/1988
2562	Selenium and Vitamin E Requirements of Young Swine	7/1/1982	9/30/1987
2563	Development of a Parent-Child Interaction Observation Rating Scale (Prototype)	7/1/1982	6/30/1986
2564	Copper and Iron Metabolism During Development of Obese Zucker Rats	7/1/1982	6/30/1985
2565	Natural-Air Corn Drying with Stirring	7/11/1982	6/30/1986
2566	Relationship Between Nucleic Acid Structure and Function	7/1/1982	6/30/1992
2567	Metabolic Characteristics and Body Composition of Women	10/1/1982	9/30/1986
2568	Plant Sterols as Antioxidants in Heated Oils. The Role of Lipids in the Quality of Foods	7/1/1982	6/30/1992
2569	Forage Crop Genetics and Breeding to Improve Yield and Quality	10/1/1982	9/30/2002
2570	Analysis of Production systems and IPM Research Needs in the NC Region	10/1/1983	9/30/1985

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Iowa Project #	Project Title	Start Date	End Date
2571	Role of N-3/N Polyunsaturated Fatty Acids in Health maintenance	11/1/1982	9/30/2002
2572	Increased Efficiency of Sheep Production	10/1/1982	9/30/1997
2573	Development and Evaluation of Improved Germplasm of Sorghum	10/1/1982	9/30/1989
2574	Predicting Corn Yields of Iowa Soils and their Relationships with Corn Leaf Composition	10/1/1982	9/30/1986
2575	Enzyme Mechanisms, Regulation, and Control	7/1/1982	6/30/1993
2576	Advanced Technologies for the Genetic Improvement of Poultry	10/1/1982	9/30/2003
2577	Defining Quantitative Nutrient Requirements of Chickens	10/1/1983	9/30/1988
2578	Studies of Fatty Livers and Ketosis in High-Producing Dairy Cows	10/1/1982	9/30/1995
2579	Etiology of the Porcine Stress Syndrome	10/1/1982	9/30/1990
2580	Interactive Stresses and Integrated Pest Management of Insects and Other Pests in Iowa Agroecosystem	7/1/1982	6/30/1993
2581	A Computerized Data Bank of Literature Dealing with the Order Siphonaptera	7/1/1982	6/30/1982
2582	Effect of Dietary Methoioine on Alcohol and Acetaminophen Toxicities in Mice	7/1/1982	6/30/1985
2583	Structure of Amylopectins in Various Starches and Their Correlation with Physical Properties of the Starches	7/1/1982	6/30/1985
2584	Starch and Potato Texture	7/1/1982	6/30/1985
2585	Diseases of Corn in Iowa with Emphasis on Stalk and Ear rots and Seed Infections	10/1/1982	9/30/1992
2586	Verticillium Wilt in Soybean	7/1/1982	12/31/1983
2587	An Investigation of the Macro Economics of Agriculture and Agriculture-nonagricultural Macroeconomic Linkages	7/1/1982	9/30/1985
2588	Research in Mathematical and Statistical Genetics	7/1/1982	6/30/1993
2589	Analysis of Food and Agricultural Policies in an Uncertain Economic Environment	10/1/1982	9/30/1987
2590	Illegal Aliens and International Trade in Agricultural commodities: United States, Mexico, and Canada	9/1/1982	6/30/1985
2591	Seed Quality During Conditioning and Handling	7/1/1982	9/30/1986

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Iowa Project #	Project Title	Start Date	End Date
2592	Nutrition Education for Elementary Students: Instruction and Evaluation	8/15/1982	6/30/1984
2593	Improvement of Cultivated Soybeans by Utilization of the Wild Soybean Glycine Soja	8/1/1983	7/31/1986
2594	Relationship Between the SLA Gene Complex and Resistance to Atrophic rhinitis	9/1/1982	8/31/1986
2595	Pathogenesis and Prevention of Milk Fever in Dairy Cows	10/1/1982	9/30/1985
2596	A Sampling Design to Survey Offshore Populations of Surf Clams and Ocean Quahogs	9/1/1982	6/30/1986
2597	Oat and Soybean Based Relay Intercropping Systems for Iowa	1/1/1983	9/30/1992
2598	Seed Technology Investigations	9/1/1982	6/30/1988
2599	Mediating Exposure to Environmental Hazards Through Textile Systems	10/1/1982	12/31/2004
2600	Chemical Interactions of Sodium Nitrite and Salt (Sodium Chloride) in Cured Meat	9/15/1982	3/31/1985
2601	The National Atmospheric Deposition Program	10/1/1992	9/30/1997
2602	Gene Structure and Expression in Plants	12/30/1982	12/31/1986
2603	Redirecting the Nutrient Flow in Cows for Maximum Milk Production	10/1/1982	9/30/1987
2604	Ecology of Wintering and Spring Migrating Lesser Snow Geese in the Lower Missouri River Valley	12/1/1982	9/30/1986
2605	Management, Growth, Composition and Economics of Bulls and Steers, Fed Corn Silage and Corn Diets	11/8/1982	9/30/1987
2606	Development of Structural Flakeboard from Low Quality Hardwoods	11/1/1983	9/30/1987
2607	Nodulation and Nitrogen Fixation of PRC R Japonicum	2/1/1983	9/30/1987
2608	On-Farm Production of Liquid Fuels for Heating and Transport	10/1/1982	9/30/1987
2609	Relationship Between the SLA Gene Complex and Resistance to Pseudorabies	2/22/1983	9/30/1986
2610	Utilizing Remotely Sensed Data in Iowa Timber Resource Inventories	2/1/1983	9/30/1987
2611	Study of the Genetics and Genetic Modification of Microorganisms Important in Foods	7/1/1983	6/30/1987

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Iowa Project #	Project Title	Start Date	End Date
2612	The Effects of Environment and Non-Environment Factors on the Quality of Horticultural Products	3/1/1983	6/30/1993
2613	North Central Regional Center for Rural Development	2/1/1983	9/30/1987
2614	The Measurement of Protein synthesis and Proteolysis in Large Animals Using Stable Isotopic Tracer Techniques	10/1/1982	6/30/1988
2615	Alternative Delivery systems for Secondary Agriculture and Agribusiness Education Programs	7/1/1982	6/30/1987
2616	Environmental Stress and Predisposition of Grasses to Disease	10/1/1983	9/30/1993
2617	The Microcomputer in Iowa Agriculture Education and Agriculture Education Extension Programs	7/1/1983	6/30/1989
2618	Goat Blood Typing and Cross Reaction of their Antigens of the Red Cells with those of Cattle	3/1/1983	9/30/1991
2619	Genetic Enhancement of Dinitrogen Fixation in Soybeans	7/1/1983	6/30/1988
2620	Secreted Proteins Induced by Growth Factors and Growth Inhibitors	7/1/1983	9/30/1991
2621	Major Seed-Borne Pathogens of Corn, Soybeans, and Wheat	10/1/1983	9/30/1991
2622	Nitrogen Fixation Genetics in Rhizobium Japonicum	7/1/1983	9/30/1988
2623	Genetic Analyses of the Mutator System of Maize	7/1/1983	9/30/1995
2624	Hypothyroidism and Hypertriglyceridemia in Iron Deficiency	7/1/1983	12/31/1985
2625	Obesity and Vitamin E Metabolism	7/1/1983	12/31/1985
2626	Clothing Acquisition Practices of Rural and Urban Families	7/1/1983	6/30/1986
2627	Effects of Contaminants on Fish Predatory Behavior	7/1/1983	6/30/1993
2628	Partitioning of Phytate and Minerals in the Calcium Precipitation of Soy Protein	7/1/1983	9/30/1985
2629	Impacts of Agricultural Policy and Technical Change on Iowa Farm Businesses	7/1/1983	6/30/1986
2630	Lipid Oxidation in Beef, Poultry, and Fish Muscle Treated with Pipase and Phospholipase Enzymes	1/1/1985	9/30/1986
2631	Investigations of Host Parasite Interactions in Two Bacterial Wilt Diseases of Corn	7/1/1983	9/30/1987
2632	Genetics and Epidemiology of Fungal Plant Pathogens	7/1/1983	9/30/1991

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Iowa Project #	Project Title	Start Date	End Date
2633	Plant and Stand Response to Early Season Insect-Induced Stress in a Model System	6/1/1983	5/31/1988
2634	Iowa Economy Linkages	7/1/1983	6/30/1988
2635	Optimal Water Allocation and Quality Management	7/1/1983	6/30/1985
2636	Optimal Management of Soil Erosion	7/1/1983	6/30/1986
2637	Effect of Participation in corn Acreage Reduction	7/1/1983	6/30/1988
2638	Endocrinology of Beef Cattle for Improved Reproduction	7/1/1983	9/30/1988
2639	Energy Metabolism of Young Pigs	10/1/1983	9/30/1988
2640	Comparative Anatomy of Root, Stem, and Branch Wood of Three Red Oak Trees	7/1/1983	9/30/1986
2641	Evaluation of New Products, Processing and Environment on Swine Production	10/1/1983	9/30/1989
2642	Personal Characteristics of Managerial Women	7/1/1983	6/30/1986
2643	Public beliefs about food chemicals	7/1/1983	6/30/1986
2644	Endocrine control of growth and nutrient utilization in beef cattle.	10/1/1983	9/30/1991
2645	Physiology of weeds and their response to herbicides.	7/1/1983	9/30/1986
2646	Control of corn diseases.	7/1/1983	9/30/1993
2647	Forestland Allocation and Land Use Conflicts in Iowa	9/1/1983	9/30/1991
2648	Adaptation of crop growth models to simulation of Iowa agricultural Production Systems	7/1/1983	6/30/1986
2649	Molecular genetics of cyanobacteria	9/1/1983	9/30/1993
2650	World oilseed and product markets: economic structure, interrelationships and policy intervention.	9/1/1983	9/30/1989
2651	Physical, chemical, and structural properties of foods and their effects on processing.	7/1/1983	6/30/1988
2652	Equipment and Methods for Applying Agricultural Chemicals	7/1/1983	6/30/1986
2653	Integrated methods of parasite control for improved livestock production.	10/1/1983	9/30/1999
2654	Behavior and energetics of diving ducks staging on an Upper Mississippi River pool during fall migration.	8/1/1983	12/31/1986
2655	Nitrogen transformation in soils.	10/1/1983	9/30/1995
2656	An Economic Analysis of Traditional and Non-Traditional Forest Products in Iowa	10/1/1983	9/30/1994

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Iowa Project #	Project Title	Start Date	End Date
2657	Communication Techniques of a Major Farm Movement--Agricultural organizations and media.	9/3/1983	9/30/1988
2658	Market and financial models for labor intensive small scale Iowa farms.	1/1/1984	6/30/1986
2659	Morphological and Physiological Responses of Crop Plants to Tillage	10/1/1983	9/30/1988
2660	The Possible Role of Soybean Oil in Iowa Herbicide Technology	7/1/1983	6/30/1985
2661	Community organizations and their role in the leadership development of youth.	1/1/1984	12/31/1989
2662	Utilization of Wind Energy for Reducing Peak Electrical Demands of Rural Distribution Systems	6/30/1982	9/30/1985
2663	Communication Strategies to Improve Nutritional Practices of Adolescents	1/1/1984	9/30/1989
2664	Raw Materials Inventory Models.	11/1/1984	9/30/1987
2665	Modeling the Migratory Behavior of Black Cutworm Adults	1/1/1984	6/30/1988
2666	Management of Eroded Soils for Enhancement of Productivity and Environmental Quality	10/1/1983	9/30/2003
2667	Development of Growth Models for Iowa Forests	1/1/1984	9/30/1990
2668	Corn and Soybean Response to Drainage	11/15/1983	9/30/1988
2669	Implications of Emerging Policy Issues and Market Developments for the North Central Dairy Industry	1/12/1984	9/30/1985
2670	Waterfowl Recruitment in Relation to Habitat Management at Union Slough National Wildlife Refuge	1/20/1984	8/31/1986
2671	Relationship of Energy Level and Frame Size on Carcass Characteristics, Box Beef and Retail	1/1/1984	9/30/1988
2672	Gains, Losses and Management of Soil Nitrogen	10/1/1983	9/30/1989
2673	Molecular Biology of Bacillus Thuringiensis	3/1/1984	6/30/1993
2674	Microbial Fermentation to Utilize Wastes and Produce Oil	4/1/1984	9/30/1987
2675	Degradation of Stored Grain Protectants as a Function of Drying Systems	2/28/1984	6/30/1986
2676	Simulation Modeling and Mechanics of Agricultural Tractor- Implement Systems	6/1/1984	6/30/1988
2677	Mono ADP-Ribosylation and DE-ADP-Ribosylations in Skeletal Muscle	4/1/1984	6/30/1996

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Iowa Project #	Project Title	Start Date	End Date
2678	Microbial Biotechnology of Human Foods and Animal Feeds	7/1/1984	6/30/1994
2679	Micromorphology of Mollic Epipedons in Iowa.	10/1/1984	9/30/1989
2680	Small-Mammal and avian communities at Pipestone National Monument	4/18/1984	6/30/1986
2681	Food and Agricultural Policy Research Institute at Iowa State University	4/1/1984	9/30/1992
2682	Molecular Biology of Crop Stress responses	7/1/1984	6/30/1988
2683	Effects of Weather Variability on the Yield of Corn, Soybeans and Wheat	7/1/1984	6/30/1996
2684	Concentrated-Flow Erosion and Alternatives for Control.	7/1/1984	6/30/1989
2685	Private strategies public policies and food system performance	6/1/1988	9/30/1991
2685	Alternative Grain Crops for Sustainability and Diversification of Iowa Agriculture	7/1/1984	6/30/1995
2686	Native Grass Pasture Restoration and Effects on Wildlife	7/1/1984	12/31/1989
2687	Fish Biotelemetry: Procedures and Applications	7/1/1984	6/30/1987
2688	Methionine Requirements: Effects of Acetaminophen and Sulfate	7/1/1984	6/30/1987
2689	Post-occupancy evaluation of environmental variables in solar and superinsulated homes.	7/1/1984	6/30/1986
2690	Economic Analysis of Disease Eradication Programs in Swine	5/1/1984	6/30/1989
2691	Adult Education Programs in Agriculture and Their Roles in Professional and Economic Development	7/1/1984	6/30/1989
2692	Chemistry and Mineralogy of Soil Potassium	7/1/1984	12/31/1990
2693	North Central Regional Center for Rural Development.	9/1/1984	9/30/1988
2694	Effects of Soil Compaction Loads on Soil Physical Properties and Crop Growth	7/1/1985	6/30/1989
2695	Analysis of the Cattle Industry in Iowa with Reference to Management Decisions and Structural Change	5/1/1984	6/30/1993
2696	Iron, Carnitine and Hypertriglyceridemia	10/1/1984	9/30/1985
2697	Low-cost Extrusion Processed Foods- Quality and Storage Stability	7/1/1984	6/30/1988

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Iowa Project #	Project Title	Start Date	End Date
2698	Interaction of Amylopectin and Surfactants in Bread Staling	7/1/1984	6/30/1987
2699	Estimation for Time Series Models and Measurement Error Models	7/1/1984	6/30/1994
2700	Studies of Virus-Host Cell Interactions in Plant and Protoplasts	10/1/1984	9/30/1994
2701	An Investigation of Processes Relating to Drought	7/1/1984	6/30/1989
2702	Modulation of Metabolic Lactic Acid and Physical Performance	7/1/1984	6/30/1989
2703	Agricultural Significance of Rhizobial Denitrification	7/1/1984	12/31/1986
2704	Analysis of Mesoscale Precipitation Data and Preliminary Investigation of Summer Shower Efficiency-Phase II	7/25/1984	6/30/1987
2705	Vegetable Oils as an Alternative Fuel for Diesel Engines.	3/1/1984	9/30/1988
2706	Economic, social, psychological and health consequences of the housing decisions of rural families.	8/1/1984	9/30/1989
2707	Transposable Elements in Mutator Activity in Maize	8/1/1984	7/31/1988
2708	Relation of Isozyme Loci to Qualitative Characters of Soybean	8/8/1984	8/31/1987
2709	Nutritive Value and Yield of Forages for Dairy Cows and Other Ruminants	10/1/1984	9/30/1995
2710	Chemistry and bioavailability of waste constituents.	10/1/1984	9/30/2004
2711	Myofibrillar/Cytoskeletal Proteins Associated with Fresh and Processed Meats	10/1/1984	9/30/1995
2712	Farm Financial Stress	11/1/1984	6/30/1987
2713	Spice Quality, Stability, Extraction, and Grinding	11/1/1984	6/30/1992
2714	Agronomic Development of Crambe in Iowa	1/1/1985	6/30/1988
2715	Characterization and Management of Soil Water and Solutes in Field Soils	10/1/1984	9/30/1994
2716	Modeling Responses of Growing Swine to Environmental and Nutritional Conditions	10/1/1984	9/30/1989
2717	Socioeconomic Dimensions of Technological Change, Natural Resource Use and Agricultural Structure	10/1/1984	9/30/1990
2718	Ecology and Distribution of Iowa Fishes	7/1/1984	6/30/1989

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Iowa Project #	Project Title	Start Date	End Date
2719	Contract Systems and China's Agricultural Development	12/1/1984	9/30/1994
2720	Socioeconomic Factors Affecting Foreign Meat Demand	10/1/1984	9/30/1989
2721	Prediction of Breeding Value Using Mixed Models to Describe Large Data Sets	7/1/1984	9/30/1990
2722	Corn Cells in Culture: Gene Transfer Systems	4/1/1985	9/30/1994
2723	Development of Processes and Value-Added Animal Products for Export Trade	7/1/1985	9/30/1996
2724	Physiological Basis of Crop Productivity	7/1/1985	6/30/1995
2725	Farmer Adoption and Use of Computers and New Electronic Information Systems	7/1/1985	6/30/1992
2726	Familial and Community Impacts of the Farm Crisis	7/1/1985	6/30/1991
2727	Public policy, Decision-Making, and Agricultural Productivity Growth	7/1/1985	12/31/1986
2728	Essential Fatty Acid, Eicosanoid and Cholesterol Metabolism: Dietary modulation of Eicosanoid Status	10/1/1985	6/30/1995
2729	Factors Influencing the Fat Content of Meat Products	7/1/1985	6/30/1991
2730	Dietary Element Bioavailability and Metabolism	7/1/1985	6/30/1992
2731	Major Determinants of Urban Forest Insect Population Levels	7/1/1985	6/30/1990
2732	Plant Disease Control- Efficacy of Plant Health Management Systems	7/1/1985	6/30/1990
2733	Community maintenance and development strategies under conditions of changing federal policies.	10/1/1985	9/30/1986
2734	Plant Stature in Maize and Its Effect on Optimum Plant Density and Yield	10/1/1985	9/30/1988
2735	Animal Products and Human Health	10/1/1985	9/30/1990
2736	Relationships of energy-yielding nutrients to performance of lactating cows.	10/1/1985	9/30/1990
2737	Tillage Systems Evaluation	1/1/1985	6/30/1993
2738	Human Capital and the Economic Performance of Farms and Rural Households	7/1/1985	6/30/1993
2739	Sample design and estimation for natural resources and soil characteristics.	7/1/1985	6/30/1990
2740	Commodity Price Analysis and Risk Management	7/1/1985	6/30/1990

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Iowa Project #	Project Title	Start Date	End Date
2741	Losses of Fertilizer Nitrogen from Soils	7/1/1985	6/30/1990
2742	Weed and Vegetation Management in Conservation Tillage Crop Production	7/1/1985	6/30/1987
2743	Nutritive Evaluation of By-Products of Corn Processing for Growing and Finishing Cattle	7/1/1985	6/30/1990
2744	U.S. Export/Import Politics and Policies for Selected Farm Commodities (Corn, Soybeans, Livestock)	7/1/1985	12/31/1986
2745	Effect of Corn Rootworm Injury and Water and Nitrogen Availability on Corn Growth	6/1/1985	10/31/1987
2746	Genetic Analyses of Pattern Formation and Regulation in Drosophila	7/1/1985	6/30/1990
2747	Isolation and Analysis of Histone Mutations in Yeast	7/1/1985	12/31/1986
2748	Optimizing Outputs From Tree Stands by Managing Pathogens and Microsymionts	10/1/1985	9/30/1990
2749	Impact of Integrated Crop Management Practices on European Corn Borer and Related Stalk Boring Insects	10/1/1985	9/30/1990
2750	Chemistry and Mineralogy of Soils	10/1/1985	9/30/1995
2751	Soil Map Unit Composition and Soil Boundaries	10/1/1985	9/30/1993
2752	Soil and Landscape Parameters Associated with Ephemeral Cropland Gullies	10/1/1985	9/30/1990
2753	Soil Geomorphology, Geochronology, and Landscape Development	10/1/1985	9/30/1990
2754	Regulation of Relaxin and Progesterone Secretion by Aging Porcine Corpora Lutea	10/1/1985	6/30/1989
2755	Biological Control of Selected Insect Pests and Weeds in Iowa Agroecosystems	10/1/1985	9/30/1996
2756	Effect of Surface Treatment, Irradiation and Preservation Methods on Quality of Meats and Meat Products for Export.	11/1/1985	9/30/1990
2757	Vitamin A Fortification of Foods in Developing Countries	8/1/1985	9/30/1990
2758	Removal and Natural Regeneration of Oak in Iowa's Woodlands Prior to 1950: A Historical Perspective	10/22/1985	9/30/1988
2759	Expression Modification of a Position Effect Mutation at Notch in Drosophila	1/1/1986	12/31/1990
2760	Determinants of Farm Size and Structure in North Central Areas of the United States	10/1/1985	9/30/1991

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Iowa Project #	Project Title	Start Date	End Date
2761	Evaluation and Mitigation of Land Disturbances	1/1/1986	6/30/1990
2762	Improvement of Popcorn Agronomic Traits	7/1/1986	6/30/1991
2763	Genetics, Tissue Culture, and Molecular Biology of the Soybean	7/1/1985	6/30/1990
2764	Relating Physiology and Molecular Biology to Breeding Soybeans	7/1/1986	6/30/1992
2765	Bovine Mastitis	7/1/1986	6/30/1990
2766	A Biotechnical Approach to Soybean Disease Management	7/1/1986	6/30/1991
2767	Analysis of State and Local Taxation Patterns and Public Finance Issues in Rural Areas of Iowa	7/1/1986	6/30/1993
2768	Peroxisomal Enzymes in Porcine Hepatic Cells and Their Relationship to Detoxification Mechanisms	7/1/1986	6/30/1987
2769	Dynamics of Farmland Ownership and Transfer in Iowa	7/1/1986	6/30/1991
2770	Analysis of Organizational and Financial Alternatives for Farm Firms	7/1/1986	6/30/1990
2771	Imbalances Between Available Space and Space Needed in Rural Housing	7/1/1986	6/30/1989
2772	Clothing Acquisition Practices of Iowa Families: Gifts, Proxy Buying, and Retailer Policies.	7/1/1986	6/30/1990
2773	Financial Management Competencies of Household Money Managers: Bases For Adult Education	7/1/1986	6/30/1991
2774	Irrigation and Fertilizer Efficiency for Processing Potatoes	7/1/1986	6/30/1991
2775	Environmental Influence on Soybean Seed Production and Quality	7/1/1986	6/30/1995
2776	Changes in Iowa's Population.	7/1/1986	9/30/1987
2777	Nitrogen Fixation by Soybean Isolates	10/1/1986	9/30/1992
2778	Development and Evaluation of Selection Methods for the genetic Improvement of Corn Populations and Hybrids	10/1/1986	9/30/1991
2779	Application of Atmospheric Modeling to Agriculture.	10/1/1986	9/30/1992
2780	Development of Fundamental Information Important to Finished Product Quality of Processed Meat.	10/1/1986	9/30/1991
2781	Research on Regional Development Alternatives for Rural Areas	10/1/1986	9/30/1992

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Iowa Project #	Project Title	Start Date	End Date
2782	Comparative Anatomy of Root, Stem, and Branch Wood of Three Silver Maple Trees	10/1/1986	9/30/1991
2783	Effects of Soil Compaction on Crop Production with Conservation Tillage	7/1/1986	6/30/1989
2784	Wind Dispersion of European Corn Borer Adults Affects Initiation of Heat-Driven Development Model	7/1/1986	12/31/1988
2785	Nutritional and Metabolic Characteristics of Human Aging	10/1/1986	9/30/1991
2786	Stress and coping in Iowa's adolescents	7/1/1986	6/30/1991
2787	Impact of Consumer Bankruptcies on Iowa Families' Social and Economic Status	7/1/1986	9/30/1991
2788	Evaluation of Small Fruits for Iowa	7/1/1986	6/30/1989
2789	Respiratory Characteristics and Production Efficiency in Soybean Tissues	6/10/1986	9/30/1989
2790	Removal and Characterization of Fine and Non-Grain Material From Corn and Soybeans	7/1/1986	6/30/1992
2791	Improved Machinery and Methods for Hay and Forage Production and Preservation	7/15/1986	9/30/1989
2792	Water Management Systems to Improve Agricultural Drainage Practices in Iowa	10/1/1986	9/30/1991
2793	Hormonal and Nutritional Effects on Plant Growth and Reproduction	10/1/1986	9/30/1992
2794	Development of New Processes and Technologies for the Processing of Poultry Products	10/1/1986	9/30/1997
2795	Synthesis of the Entomocidal Parasporal Crystel of Bacillus Thuringiensis	7/1/1986	6/30/1988
2796	Effects of Plant Hormones Upon the Activity of a Wound-Inducible Gene	9/1/1986	9/30/1992
2797	Relaxin on Control of Parturition in Cattle	9/1/1986	8/31/1990
2798	Genetic Control of Leg Weakness in Swine: Determination of Underlying Disease Causes	10/1/1986	9/30/1990
2799	Improving the stability and compositions of fats and oils by biotechnology	10/1/1986	8/31/1991
2800	Intrinsic-Extrinsic Zinc Absorption Comparisons by Plasma Mass Spectrometry	9/1/1986	8/31/1990
2801	Use of Synaptic Mutants and Embryo Culture to Generate Aneuploids in Soybean	9/1/1986	8/31/1990

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Iowa Project #	Project Title	Start Date	End Date
2802	Growth Hormone and Somatomedin-C Relationships in Growing Cattle	9/1/1986	9/30/1989
2803	Integrating Crop Culture, Chemicals and Life Cycles to Control Persistent Weeds	10/1/1986	9/30/1989
2804	Low Level Atmospheric Circulations and the agricultural Environment of the Central United States	10/1/1986	9/30/1991
2805	Molecular Genetics of Nitrogen Metabolism in Rhizobia	10/1/1986	6/30/1991
2806	Food and Nutrition Policy and Changing Patterns of Food and Consumer Behavior	10/1/1986	9/30/1992
2807	Mechanism of Calcium and Vitamin D3 in Regulation of Cholesterol Homeostasis	9/15/1986	9/30/1990
2808	Development of Production Systems for Small Fruit Crops	10/1/1986	9/30/1992
2809	Family Resource Utilization as a Factor in Determining Economic Well-Being of Rural Families	10/1/1986	9/30/1992
2810	Health Information and Management Systems for Direct Marketed Swine	12/1/1986	6/30/1990
2811	Policy Implications for Farm Household and Rural Community Responses to Economic Change	10/1/1986	9/30/1993
2812	Enhancing the Global Competitiveness of U.S. Red Meat	10/1/1986	9/30/2002
2813	Seed Quality During Conditioning and Handling	10/1/1986	9/30/1995
2814	Economic Evaluation of Herd Health Management Strategies	12/1/1986	9/30/1992
2815	Habitat Selection and Population Dynamics of Fishes in the Upper Mississippi and Missouri Rivers	7/1/1987	6/30/1992
2816	Life History Strategies of Iceland Salmon	7/1/1986	12/31/1994
2817	The Effects of Cholesterol Hydroperoxides in Atherogenesis	2/1/1987	6/30/1992
2818	Molecular Markers in Maize Breeding and Genetics	2/1/1987	9/30/1991
2819	Breeding and Genetics of Physiological and Morphological Traits in Maize	2/1/1987	9/30/1991
2820	Mutagenesis of Glucoamylase	1/1/1987	6/30/1993
2821	Industrial Products from Iowa Crops	7/1/1987	6/30/1990
2822	Genetic Engineering of Proteins to Enhance Product Recovery	1/1/1987	6/30/1990
2823	Agricultural Runoff and Water Quality in Iowa Streams	10/1/1987	6/30/1992

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Iowa Project #	Project Title	Start Date	End Date
2824	Intensive Culture of Walleye	4/1/1987	3/31/1990
2825	Factors Influencing Conceptus survival in Domestic Farm Animal Species	7/1/1987	9/30/1996
2826	Production of Useful Products by Microbial Fermentation	10/1/1987	9/30/1992
2827	Genetic Improvement of Propionibacteria and Other Microorganisms Important in Foods	7/1/1987	6/30/1992
2828	Automatic Guidance of Field Machinery	7/1/1987	6/30/1991
2829	Evaluation of Computer Models to Predict the Movement of Agricultural Chemicals to Groundwater	7/1/1987	6/30/1992
2830	Vitamin E Absorption and Metabolism by the Pig	10/1/1987	9/30/1992
2831	Effects of Pathogen Cell Wall-Degrading Enzymes on Grass Tissues	10/1/1987	9/30/1990
2832	Metabolic and Developmental Responses to Nutrition in Low-Birth-Weight Infants	9/1/1987	9/30/1993
2833	Genetic and Physiology Bases of Herbicide Resistance and Tolerance in Crops and Weeds	7/1/1987	9/30/1989
2834	Development of Higher Order Thinking Skills Through Agricultural Education Programs	7/1/1987	6/30/1992
2835	Factors Influencing the Meat/Feedgrains Trade-Off in Food Importing Countries	7/1/1987	6/30/1990
2836	Maintaining Desirable Quality Attributes in Processed Meat Products	7/1/1987	9/30/1991
2837	Physiology of Phytotoxins and Phytoalexins in Pathogenesis	7/1/1987	6/30/1993
2838	Equilibrium Pricing of Options: Theory and Applications in Agricultural Economics	8/1/1987	9/30/1993
2839	Metabolic relationships in supply of nutrients for lactating cows	10/1/1987	9/30/2002
2840	Study of Summer Rain Rates and Resulting Real Time Runoff and Absorption	7/1/1987	6/30/1990
2841	Prediction of Pest Distribution in the Corn Belt: A Biometeorological System	7/1/1987	6/30/1989
2842	Transposon Tagging of Agriculturally Important Disease-Resistant Genes in Maize	7/15/1987	7/31/1991
2843	Raccoon Ecology on Sanibel Captiva Island	7/1/1987	6/30/1990
2844	Dietary Modulation of Hepatocarcinogenesis	9/1/1987	6/30/1993

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Iowa Project #	Project Title	Start Date	End Date
2845	Ecology and Management of Waterfowl	9/1/1987	6/30/1992
2846	Regulation of Potato Tuber Protein Gene Expression	9/1/1987	8/31/1991
2847	Morphological and Chemical Characteristics of Cell Wall Surfaces	10/1/1987	9/30/1991
2848	Structural Flakeboard From Low-Quality and Short-Rotation, Intensive-Culture Hardwoods	10/1/1987	9/30/1991
2849	Biological Control of Corn Diseases	9/1/1987	6/30/1992
2850	Investigation of the Maize Genome by Genetic, Cytological, and Molecular Means	10/1/1987	9/30/1992
2851	Changing Patterns of Food Demand and Consumption Behavior	10/1/1987	9/30/1997
2852	Mastitis Resistance to Enhance Food Safety	10/1/1987	9/30/2002
2853	Effect of Porcine Relazin on Induction of Parturition, Neonatal Survival and Postpartum Fertility in Pigs	10/1/1987	9/30/1989
2854	An Administrative Data Base for Evaluating and Comparing Faculty and Academic Departments	10/1/1987	12/31/1989
2855	Genome Organization of the Fungal Maize Pathogen Cochilobolus Heterostrophus	7/15/1987	6/30/1990
2856	Natural Resources and Conservation Education Programs	10/1/1987	6/30/1994
2857	Family business viability in economically vulnerable communities	10/1/1999	9/30/2006
2858	Structural Changes in the U.S. Grains & Oilseeds Marketing Systems in a Dynamic & Global Marketplace	10/1/1987	9/30/1997
2859	Identification of Regulatory Segments in a Wound-Inducible Inhibitor II Gene	9/15/1987	9/30/1990
2860	Mechanism of Glucoamylase-Strach Interaction and its Relation to the Enzyme Hydrolyzing Activity	10/1/1987	9/30/1990
2861	International Trade Development Center	9/15/1987	12/30/1989
2862	North Central Regional Center for Rural Development	9/1/1987	11/30/1989
2863	Structure, Functional Property and Utilization of Strach	10/1/1987	9/30/1993
2864	Changes in Iowas Population	10/1/1987	9/30/1992
2865	Private Stategies, Public Policies, and Food System Performance	6/1/1988	9/30/2002
2866	North Central Regional Aquaculture Center	4/11/1988	2/28/1993
2867	Monoculture Viability Trial of Silver Maple	4/1/1988	3/31/1994

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Iowa Project #	Project Title	Start Date	End Date
2868	Plant genes for environmental stress tolerance	8/1/1988	6/30/1992
2869	Soybean Disease Resistance Screening	7/1/1988	6/30/1994
2870	Isolation of Genes for Quantitative Inheritance in Maize	5/1/1988	4/30/1990
2871	Development of an Improved Pest Management System for a Nematod-Weed-Insect Complex in the North Central Region	6/1/1988	5/31/1991
2872	Analysis of the Interactions Between Commodity Policies and Conservation Policies	7/1/1988	6/30/1993
2873	Evaluation of the Factors Influencing Consumer Acceptance of Thermally Processed Vegetables	7/1/1988	6/30/1993
2874	Impact of Forecasting Long-Range Transport and Adult Manipulation on Suppression of Insect Pest of Corn	7/1/1988	6/30/1993
2875	Analysis of the Changing Structure of Meat and Food Demand	7/1/1988	6/30/1992
2876	Machinery and Methods for Improvements in Seed and Grain Harvesting	7/1/1988	9/30/1991
2877	Social Impacts of Agricultural Biotechnologies	7/1/1988	6/30/1994
2878	Relationship of Soil Macroporosity to Root Growth and Nitrate Leaching	10/1/1988	9/30/1993
2879	Can the cowpea papain inhibitor confer resistance to <i>Callosobruchus maculatus</i>	10/1/1988	6/30/1989
2880	Mechanism of Weed Crop Interference	8/1/1988	7/31/1992
2881	Controlling Feed Intake for the Enhancement of Cattle Feedlot Performance	10/1/1988	9/30/1993
2882	Genetic and Molecular Isolation and characterization of the Mutator-Related Cy Transposable Element System of Maize	7/1/1988	6/30/1994
2883	Role of SLA Complex in Pig Development and Reproduction	9/1/1988	9/30/1991
2884	Elucidating Consumer Food Selection Behavior	9/1/1988	6/30/1994
2885	Etiology and Immunological Consequences of Fatty Liver and Ketosis in Dairy Cows	9/1/1988	12/31/1991
2886	Differential Diurnal Regulation of Photosynthetic Function in Brassica Napus	8/1/1988	1/31/1991
2887	Functional Development of the Intestinal Tracts of Young Turkeys and Factors Affecting this Development	10/1/1988	9/30/1993

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Iowa Project #	Project Title	Start Date	End Date
2888	Enhanced N ₂ Fixation and Increased Soybean Yield	7/1/1988	6/30/1993
2889	Biodegradation of Recalcitrant Plastics and Agricultural Lignocellulosic Wastes by Microorganisms	10/1/1988	9/30/1993
2890	Physiological Mechanisms Underlying Plant Responses to Arthropod Leaf Injuries	9/15/1988	9/30/1990
2891	The Mechanism of Nodulation of Soybeans by Rhizobium	10/1/1988	9/30/1993
2892	North Central Regional Center for Rural Development	7/1/1988	3/31/1991
2893	Genetic Engineering of Oilseed Species to Improve Oil Quality	10/1/1988	9/30/1994
2894	Quantifying Long Run Agricultural Risks and Evaluating Farmer Responses to Risk	10/1/1988	9/30/1994
2895	Evaluation of Extension Youth Programs	10/1/1988	9/30/1994
2896	Regulation of Relaxin and Progesterone Secretion by Aging Porcine Corpora Lutea	9/15/1988	9/30/1992
2897	Organization and Performance of World Food Systems: Implications for U.S. Policies	10/1/1988	9/30/1993
2898	The Effect of Water Table Management on Productivity and Water Quality	10/1/1988	9/30/1993
2899	Forage protein characterization and utilization for beef cattle	10/1/1988	9/30/2003
2900	Rural Retailing: Impact of Change on Consumer and Community	10/1/1988	9/30/1994
2901	Seed quality investigations	10/1/1988	9/30/2003
2902	Comparative Responses of Wildlife to Selected Ecological Criteria	10/1/1988	10/30/1992
2903	Arthropod Induced Stress on Soybean: Evaluation and Management	10/1/1988	9/30/1993
2904	Molecular Biology of Barley Yellow Dwarf Virus and its Satellite RNA	10/1/1988	9/30/1991
2905	Development of Management Systems for Competitive Swine in Iowa	12/1/1988	11/30/1994
2906	The production of Lean American Beef for the Manufacturing Industry	1/1/1989	12/31/1991
2907	Fisheries Habitat Suitability in Large Rivers	2/7/1989	12/31/1991

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Iowa Project #	Project Title	Start Date	End Date
2908	Ecology and Management of Gopher Tortoises on Sanibel Island with Evaluation of a New Relocation Technique	1/1/1989	9/30/1991
2909	Production Technologies for Herbaceous Perennials	3/1/1989	9/30/1993
2910	Conservation Tillage Systems	12/1/1988	9/30/1993
2911	Can Time-Varying Discount Rates Explain Iowa Farm Land Prices?	4/1/1989	5/31/1991
2912	Use of Innovative Methods in Prediction and Detection of Plant Diseases	7/1/1989	6/30/1992
2913	Regulation of Genes of Fatty Acid Biosynthesis	7/1/1989	6/30/1995
2914	The Role, Implementation, and Evaluation of New Instructional Technologies in Ag Ed and Ag Extension	7/1/1989	6/30/1995
2915	Lake Red Rock Recreation Assessment Survey	4/12/1989	9/30/1991
2916	Isolation of Genes for Quantitative Inheritance in Maize	5/1/1989	12/31/1992
2917	An Evaluation of Iowa Precipitation Patterns With and Without Global Climate Change Influences	7/1/1989	6/30/1994
2918	The Adoption of Modern Irrigation Technology and its Implications for Environmental and Resource Policies	7/1/1989	6/30/1991
2919	Efficient use of Proteins by Growing Pigs	7/1/1989	6/30/1994
2920	International Agricultural Technologies and Perspectives in Agricultural Education	7/1/1989	6/30/1995
2921	Biochemistry and Structure of Key Proteins in the Cytoskeleton of Muscle Cells	10/1/1989	9/30/1995
2922	Endocrinology of Beef Cattle for Improved Reproduction	10/1/1989	9/30/1994
2923	Effect of Feed Composition on Energy Metabolism of Pigs	10/1/1989	9/30/1994
2924	Dynamic Processes in Pedogenesis	10/1/1989	9/30/1995
2925	Development, Evaluation and Application of Biochemical Techniques for Varietal Identification	7/1/1989	6/30/1994
2926	Biotechnology Byproducts Consortium- (Iowa Biotechnology Consortium)	7/1/1989	12/31/1993
2927	Firm Level Models of Farmer Decision Making	7/1/1989	6/30/1995
2928	Measurement of Protein Synthesis and Proteolysis in Large Animals Using Stable Isotopic Tracer Techniques	7/1/1989	9/30/1994
2929	Sociological Analysis of Consumer Meat Preference	10/1/1989	9/30/1995

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Iowa Project #	Project Title	Start Date	End Date
2930	Proteins Integrating the Cytoskeleton of Developing and Adult Muscle Cells	7/1/1989	6/30/1994
2931	Iowa Youth and Families Project	10/1/1989	7/31/1994
2932	Enhancement of the Safety of Pork Products	6/15/1989	6/30/1991
2933	Agricultural Trade Analysis for Support of the Office of the U.S. Trade Representative	4/1/1989	9/30/1992
2934	Management Practice to Reduce Chemical Contaminate Transport to Ag Drainage Wells	4/15/1989	11/30/1994
2935	Research and Technology Transfer Programs of the Utilization Center for Agricultural Products	7/1/1989	6/30/1992
2936	Translational Control of Barley Yellow Dwarf Virus	9/15/1989	10/30/1993
2937	Boron Content and Isotope Ratio of Nutritional Samples: Preparation and Analyses	9/1/1989	8/31/1991
2938	Research in Support of a National Eradication Program for Pseudorabies	10/1/1989	9/30/1999
2939	North Central Regional Center for Rural Development	9/15/1989	9/30/1992
2940	The Genetics of Body Composition in Beef Cattle	10/1/1989	9/30/1995
2941	Pine Needle Abortion in Cattle: Physiology and Bioassay of the Active Component	9/1/1989	8/31/1992
2942	Germ cell and embryo development and manipulation for the improvement of livestock	10/1/1989	9/30/1994
2943	International Trade Development Center	9/15/1989	12/31/1990
2944	Farm information systems	10/1/1989	9/30/1998
2945	Use of a Novel Ribozyme in BYDV Satellite RNA	10/15/1989	10/31/1992
2946	Genetic Engineering of Glucoamylase for Improved Selectivity and Stability	10/15/1989	10/15/1991
2947	Leadership Roles of Women in Agriculture	1/1/1990	12/31/1994
2948	Analysis for the Evaluation and Prioritization of Agricultural and Related Research Programs	1/7/1990	9/30/1991
2949	Ecological & Evolutionary Genetics of Insects	3/30/1990	1/30/1996
2950	The Role of Various Metabolites in Muscular Buffering Capacity	6/1/1990	9/30/1992
2951	Rural Households at Risk of Serious Housing Problems in the North Central Region	1/1/1990	9/30/1994
2952	Physiological Bases of Maize Grain Yield Determination	7/1/1990	9/30/1996
2953	Production and Hedging with Futures and Options	7/1/1990	6/30/1994

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Iowa Project #	Project Title	Start Date	End Date
2954	Impact of Waste Materials on Soil Properties	7/1/1990	6/30/1995
2955	Fumonins and Other Mycotoxins Produced by Fusarium Moniliforme	7/1/1990	6/30/1995
2956	Quality assessment of Iowa Small Fruit (Strawberry and Brambles)	6/30/1990	6/30/1991
2957	Commodity Price Analysis and Risk Management	7/1/1990	6/30/1995
2958	Transportation and Infrastructure Impediments to Increased U.S. Exports	7/1/1990	6/30/1995
2959	Minimizing Soil Compaction From Wheel Traffic and Tillage	6/1/1990	6/30/1994
2960	Industrial Utilization of Iowa Farm Products	7/1/1990	6/30/1995
2961	Interactions of Exotic and Native Coccinellid Species	7/1/1990	6/30/1993
2962	Farm Business Organization Alternatives and the Impact on the Structure of Agriculture	7/1/1990	6/30/1996
2963	Needs Assessment of Iowa's Elderly Population	6/1/1990	6/30/1993
2964	Tourists as Consumers of Iowa Products	6/1/1990	9/30/1992
2965	Divertiture of Space and Possessions Upon the Behavioral Responses of the Elderly in Relocations	7/1/1990	6/30/1993
2966	Factors Affecting Nutritional and Health Status, Attitudes of Non-Institutionalized Elderly Iowans	7/1/1990	6/30/1994
2967	Identification of Genes Linked to the Swine MHC Which Control Reproduction and Disease Resistance	10/1/1990	9/30/1993
2968	Oxidative Stress, Sulfhydryls and Proteins in Plants and Animals	7/1/1990	8/31/2001
2969	The Impact of Japanese Beef Trade Liberalization on Various Regions of the U.S. Beef Sector	7/1/1990	6/30/1993
2970	Identifying Problems of the Black Population of Iowa: A Policy Perspective	7/1/1990	6/30/1995
2971	Soil Geomorphology, Geochronology and Landscape Development	10/1/1990	9/30/1994
2972	Sample Design, Estimation and Data Base Management For Natural Resource and Soil Characteristics	7/1/1990	6/30/1992
2973	Pesticide and Production Decisions Under Uncertainty	7/1/1990	6/30/1994
2974	Application and Development of Molecular Biological Techniques for Soybean Germplasm Enhancement	4/9/1990	6/30/1993
2975	Animal Health Information and Management Systems for Livestock Production	7/1/1990	6/30/1996

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Iowa Project #	Project Title	Start Date	End Date
2976	Biology & Management of Insects in Short-Rotation Forest Plantations	7/1/1990	6/30/1996
2977	Economic Impact of Accelerated Erosion for Selected Iowa Soils	7/1/1990	6/30/1995
2978	Genetic Analysis of Pattern Formation & Regulation in Drosophila	8/31/1990	6/30/1994
2979	Evaluation of Fermentation Byproducts as Feeds for Growing and Finishing Beef Cattle	7/17/1990	6/30/1996
2980	Analysis of the Chromosome of Staphylococcus Aureus	7/1/1990	6/30/1994
2981	Support of Bergey's Manual Trust Editorial Office	7/1/1990	12/31/1990
2982	Cultural Technologies for Walleye	7/19/1990	6/30/1997
2983	Enhancement of the Flavor of Cheese	7/23/1990	6/30/1996
2984	Discovery and Development of Plant Pathogens for Biological Control of Weeds	7/24/1990	9/30/1995
2985	Mapping and Genetic Characterization of the Soybean Genome	7/1/1990	6/30/1995
2986	An Assessment of Agroforestry Systems in the Midwest and Their Application to Iowa	10/1/1990	9/30/1995
2987	Regulation of Photosynthesis and Plant Development	7/1/1990	6/30/1993
2988	Groundwater Recharge and Chemical Transport in Two Glacial Till Confining Units in Iowa	7/1/1990	6/30/1994
2989	Habitat Studies of Birds: A landscape Approach	7/1/1990	6/30/1996
2990	Genetic Engineering of Proteins to Enhance Product Recovery	7/1/1990	6/30/1993
2991	Enhancement of the Safety of Pork Products	7/1/1990	8/31/1994
2992	Genetic Control of Pathogenicity in Cochliobolus Heterostrophus	7/1/1990	6/30/1993
2993	Biology and Ecology of Herbicide Resistant Weeds in Iowa Agroecosystems	7/1/1990	6/30/1995
2994	The Meat/Feed-Grain Tradeoff in Food Importing Countries	9/4/1990	6/30/1995
2995	Losses of Fertilizer Nitrogen from Soils	9/4/1990	6/30/1995
2996	Molecular Systematic Investigation of the Cactaceae	9/1/1990	8/30/1993
2997	Biochemical and Molecular Regulation of Plant Embryo Development	7/1/1990	8/30/1993

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Iowa Project #	Project Title	Start Date	End Date
2998	Agricultural Policies, Agricultural Productivity and Welfare	10/1/1990	9/30/1995
2999	Selection Methods for Germplasm Enhancement in Corn	9/15/1990	9/30/1994
3000	Towards the Rational Design of Insect Resistance Factors	10/1/1990	9/30/1994
3001	Behavioral and Health Factors That Influence the Food Consumption of Young Adults	10/1/1990	9/30/1996
3002	Methane & Halogenated Hydrocarbon Oxidation by Methanotrophs	10/1/1991	6/1/1996
3003	Evaluation of the Impact of Current and Emerging Farming Systems on Water Quality	7/15/1990	6/30/1995
3004	Kinetic Analysis of Zinc Metabolism, Status, and Requirements	9/1/1990	8/31/1995
3005	Low Temperature Institutional Cooking of Meat	1/1/1991	12/31/1993
3006	Molecular Biology and Phenotypic Relationships of Bovine Mitochondrial DNA	9/30/1990	9/30/1993
3007	Soybean Genotypes Effect on Root Isoflavones/Nod. By b. Japonicum	9/15/1990	9/30/1994
3008	Effect of Environmental Stresses on Mitochondrial Proline Oxidation	7/1/1990	12/31/1992
3009	Modeling Genetic Evaluation Systems	10/1/1990	9/30/1995
3010	Modelling the Production of Agro-Forestry Systems, Short Rotation Wood Crops, and Natural Forests	11/8/1990	9/30/1995
3011	Community Change and Persistence: A Restudy of the Rural Life Study Series	1/1/1990	9/30/1996
3012	Characterizing Weed Population Variability for Improved Weed Management Decision Support Systems to Reduce Herbicide Use	10/1/1990	9/30/2005
3013	Modeling Responses of Growing Pigs	10/1/1991	9/30/1996
3014	The Transformation of Agriculture & Resources, Technologies and Policies	10/1/1990	9/30/1996
3015	North Central Regional Center for Rural Development	9/1/1990	8/31/1995
3016	The Implicit Value of Corn Base Acreage in the US Commodity Program	9/1/1990	6/30/1991
3017	Protein-Carbohydrate Interactions: Characteristics, Function, and Utilization of Glucan-Binding Pro	10/1/1990	9/30/1996

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Iowa Project #	Project Title	Start Date	End Date
3018	Avian Species in Diverted Farmland	1/1/1991	9/30/1996
3019	Cellular and Molecular Basis of the Development and Regeneration of the Nervous System	11/27/1990	6/30/1993
3020	Improving Efficiency of Milk Production by High-Producing Dairy Cows	11/27/1990	9/30/1995
3021	Hepatic Cytochrome P-450 Inducers on the Metabolism of Xenobiotics and Hepatocellular Morphology	10/1/1990	6/30/1994
3022	Nutrient Management to Sustain Productivity While Protecting Surface and Ground Water Quality	10/1/1990	9/30/1995
3023	Transportation of Perishables	10/1/1990	9/30/1996
3024	Fine Structure Physical Mapping of Maize Chromosomes	10/1/1991	12/31/1992
3025	Ecology and Management of European Corn Borer and Other Lepidopteran Pests of Corn	10/1/2010	9/30/2015
3026	International Trade Research on Commodities Important to the Southern Region	10/1/1990	9/30/1993
3027	Availability of Organic Carbon for Denitrification of Nitrate in Sub-Soils and Groundwaters	8/1/1989	7/31/1992
3028	Cytological and Genetic Analysis of Infection Structure Formation in Cochliobolus Heterostrophus	1/21/1991	12/31/1994
3029	International Trade Development Center	1/1/1991	12/31/1991
3030	Statistical Methods for Correlated Survival Data	2/22/1991	8/1/1994
3031	Weed Management in Horticultural Crops Using Allelopathy and Intercropping	2/1/1991	1/31/1994
3032	Detection and Ecology of Bacterial Plant Pathogens	2/22/1991	6/30/1993
3033	Cloning of Unique M. Hypopneumoniae Antigens for use as Protective Antigens	2/26/1991	6/30/1992
3034	Molecular Basis for Pathogenesis & Immunogenesis of Mycoplasmal Pneumonia	2/20/1991	12/31/1992
3035	Evaluation of Human Vitamin A Status and Requirements	2/25/1991	6/30/1995
3036	Genetic Engineering of Glucoamylase for Improved Selectivity and Stability	12/1/1990	11/1/1991
3037	Diet Composition and Blood Cholesterol Regulation	2/26/1991	9/30/1995
3038	Molecular Genetics of Animal Growth and Development	2/28/1991	12/31/1996

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Iowa Project #	Project Title	Start Date	End Date
3039	Evaluation of New Ingredients and Additives for Growing Swine Diets	2/1/1991	2/1/1996
3040	Structure Determination of Glucoamylase	3/1/1991	12/31/1992
3041	Beef Fat Content	3/15/1991	3/14/1996
3042	Research Program: Center for Designing Foods to Improve Nutrition	4/1/1991	3/31/1994
3043	Genetic Regulation of Pork Production	12/1/1990	9/30/1995
3044	The Synthesis of Agriculturally-Related Compounds	7/1/1991	6/30/1993
3045	Midwest Agribusiness Trade Research and Information Center	5/1/1991	10/31/1993
3047	Biotechnology Byproducts Consortium (Iowa Biotechnology Consortium)	4/1/1991	3/31/1994
3048	Nitrogen Management on Corn Under Uncertainty	7/1/1991	6/30/1995
3049	Soybean Bioprocessing/Bioengineering Demonstration Project	5/1/1991	4/30/1994
3050	Nucleotide Sequence Determinants of Phytochrome mRNA Instability	7/1/1991	12/31/1991
3051	Influence of Farrowing Environment on Behavior, Physiology and Productivity of Sows and Piglets	6/1/1991	3/31/1994
3052	Regulation of Gene Expression in Bovine Macrophages	7/1/1991	6/30/1993
3053	Biological and Biophysical Characterization of Hypericin	7/1/1991	6/30/1993
3054	Specialized Expression Vectors for the Development of Live Carrier Vaccines	10/1/1990	9/30/1992
3055	Molecular Characterization of Equine Infections Anemia Virus Variants	7/1/1991	6/30/1992
3056	Characterization of Gene Expression During Early Tuber Development	7/1/1991	6/30/1994
3057	Rural Data Project	7/1/1991	6/30/1996
3058	Structural Studies of Cu-Zn Superoxide Dismutase From <i>Brucella Abortus</i>	7/1/1991	12/31/1993
3059	Popcorn Improvement	7/1/1991	6/30/1996
3060	Signal Transduction in Mast Cells	7/1/1991	6/30/1993
3060	Signal Transduction in Mast Cells	7/1/1991	6/30/1993
3061	Fads Versus Fundamentals in Farmland Prices	7/1/1991	6/30/1994
3062	Mechanisms for Controlling Non-Point Source Pollution in Agriculture: The Role of Environmental Bond	7/18/1991	6/30/1995

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Iowa Project #	Project Title	Start Date	End Date
3063	Valuing Water Quality Improvements Under Sustainable Agriculture: A Study a Iowa Watersheds	7/1/1991	6/30/1995
3064	Telomere Structure and Function	7/24/1991	6/30/1994
3065	Regulation of RRNA Gene Replication in Tetrahymena	1/1/1993	6/30/1994
3066	Effects of Nutrient Placement and Timing of Application From Manure and Fertilizer Sources on Soybea	10/1/1991	9/30/1997
3067	Regulatory, Efficiency and management Issurs Affecting Rural Financial Markets	1/1/1996	9/30/1996
3068	Financial Management Practices of Household Money Managers: A Longitidinal Study	1/1/1994	6/30/1995
3069	National Center for Food and Industrial Agriculture Product Development	9/15/1988	12/31/1994
3070	Factors Influencing the Quality of Pork	7/1/1991	6/30/1995
3071	Characterization of the AcetI-Coa Carboxylase Genes of Soybean	10/1/1991	6/30/1994
3072	Transposon Tagging of Agriculturally Important Disease-Resistant Genes in Maize	8/21/1991	7/31/1993
3073	Regulatory Elements of Genes Controlling Immunity in Chickens	9/1/1991	8/31/1995
3074	Effect of Heat-Shock and other Stresses on the Ability of Foodbourne Pathogens to Survive Processing	9/9/1991	6/30/1994
3075	Quatntitation and Bioavailability of Soyfood Isoflavones	10/28/1991	9/30/1995
3076	Isolation of Wound-Pathway Mutants in Plants	7/1/1991	6/30/1995
3077	Impact Analyses and Decision Strategies for Agricultural Research	10/1/1996	9/30/2001
3078	Improvement of Rural and Agric Sample Survey Methods	10/1/1991	9/30/2002
3079	The Influence of Modified Atmospheres on the Development of Off-Flavors in Fresh Strawberries	9/19/1991	7/1/1995
3080	Quality Improvement in Fats and Oils	1/1/1996	8/31/1996
3081	Nitrogen Nutrtrion of Vegetable Crops	9/1/1991	8/31/1996
3082	Selection Methods for Genetic Improvement of Corn Populations and Hybrids	1/1/1992	9/30/1997
3083	Molecular Analysis of Pig Chomosome 7 with Emphasis on the SLA Complex	9/1/1991	8/31/1995

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Iowa Project #	Project Title	Start Date	End Date
3084	Production of Textile Fibers From Oilseed and Cereal Proteins	10/7/1991	12/31/1995
3085	Plastics Made From Starch and Protein	9/15/1993	9/14/1994
3086	The Genetic and Molecular Analysis of Drosophila Melanogaster Development	7/1/1991	6/30/1994
3087	Influence of Extractives on Adhesive Bond Quality of Oak with Phenol-Formaldehyde Resins	10/21/1991	9/30/1993
3088	Developing Improved Silvicultural Strategies for Short Rotation Woody Crops	1/14/1992	9/30/1996
3089	Quality Characteristics of Beef and Pork Altered Lipid Components	11/1/1991	6/30/1995
3090	Stress Factors of Farm Animals and their Effects on Performance	10/1/1996	9/30/2001
3091	Improving Safety and Quality Characteristics of Muscle Foods by Value-Added Processing	11/19/1991	9/30/1997
3092	Overwintering and Automated Irrigation System for Nursery Container Crops	11/1/1991	6/30/1996
3093	The Impact of Agricultural Systems on Surface and Groundwater Quality	1/1/1996	9/30/1996
3094	Effect of Nitrogen Soil Fertility Management on Crop Production and Ground Water Quality	11/1/1996	12/31/2000
3095	Juvenile Ecology and Habitat Management of Gopher Tortoises on Sanibel Island, Florida	1/9/1992	12/31/1994
3096	Secreted Proteins Induced by Growth Factors	1/22/1992	9/30/1997
3097	Nutritional and Hormonal Regulation of the Growth Hormone and Insulin-Like Growth Factor Axis in CA	1/1/1996	12/31/1996
3098	Physiological Events Associated with Seed Desiccation	2/1/1992	9/30/1996
3099	The Epidemiology and Control of Diseases of seeds of Agricultural Crops	1/1/1996	9/30/1996
3100	An Annotated Catalogue of the Siphonaptera of the World	3/1/1992	3/1/1997
3101	Development of Microbeam Methods for Quantitative Measurement of Preservatives in Wood	4/1/1992	3/31/1995
3102	War Stress and Well-Being in Iowa Military Families	4/1/1992	3/31/1997
3103	Modulation of Immune Parameters	1/1/1992	3/31/1997
3103	Modulation of Immune Parameters	4/1/1992	3/31/1997
3104	Genetic Evaluation for Beef Carcass Attributes	3/1/1992	2/28/1997

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Iowa Project #	Project Title	Start Date	End Date
3105	Proposal for Global Database on Pest-Induced Crop Losses	11/1/1990	6/30/1995
3105	Proposal for a Global Database on Pest-Induced Crop Losses	11/1/1990	2/28/1993
3106	Colostal Growth Factors and Development of the Calf	4/22/1992	9/30/1996
3107	Genetic Improvement of the Soybean for Traits of Economic Importance	1/29/1997	12/31/2000
3108	Operation of Food Irradiator	5/1/1992	6/30/1997
3109	Food and Agricultural Policy Research Institute at Iowa State University	1/1/1996	6/30/1996
3110	Technology, Institutions, and the Development of Agricultural Industry	1/1/1992	6/30/1993
3111	International Competitiveness and Marketability of Midwest Agribusiness Products	4/15/1992	4/30/1996
3112	Soybean Planting Date For Preventive Management of a Nematode-Weed-Insect Complex	7/1/1992	6/30/1996
3113	Restricted Housing Markets and Coping Strategies of Families with Children	5/1/1992	9/30/1995
3114	Identification and Molecular Analysis of BFG/Notch-Repeat Proteins Involved in Development	1/1/1994	6/30/1995
3115	Extraction and Utilization of Glucosinolates from Crambe and Rapeseed Meals	5/1/1990	4/30/1995
3116	Plant Disease Epidemics and Crop Losses for Improved Disease Management and Sustainability	1/1/1992	3/31/1997
3117	Farmland Ownership and Transfer In Iowa	1/1/1992	5/30/1997
3118	Iowa Farm and Rural Life Poll	1/1/1992	5/31/1998
3119	Agronomic Development of Crambe as Alternative Crop in Iowa	6/1/1992	12/31/1995
3120	A Retrotransposon Gene Tagging System for Arabidopsis Thaliana	7/1/1992	6/30/1995
3121	Agric Trade Ananalysis for Support of Offics of US Trade Rep	6/1/1992	11/30/1995
3122	Improvement of Propionic Acid Prod by Propionibacteria	10/1/1992	9/30/1997
3123	Breeding and Genetics of Vegetable Crops to Improve Pest Resistance	10/1/1992	9/30/1997

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Iowa Project #	Project Title	Start Date	End Date
3124	Development of Integrated Management Program for Suppression of Sec Gen European Corn Borer etc.	7/1/1992	6/30/1994
3125	Technology for the Physical Mapping of the Maize Genome	10/1/1992	9/30/1994
3126	Integrating the Problem Solving Approach into Instruction in the C of Ag at ISU	7/1/1992	6/30/1995
3127	Ribozyme-Mediated Resistance to Barley Yellow Dwarf Virus	7/1/1992	6/30/1994
3128	Development of New Oils, Starches and Antioxidants from Soybean, Corn and Oat	7/1/1992	6/30/1997
3130	Utilizing Insect/Plant Relationships in Insect Corn Pest Management	7/1/1992	6/30/1997
3131	Nucleic Acid Structure-Function Relationships	7/1/1992	6/30/1997
3132	Biochemical Properties of Cholesterol Hydroperoxides	7/1/1992	6/30/1997
3133	The Correlates of Financial Problems Among Families in Financial Counseling	9/1/1992	8/30/1997
3134	Molecular Markers in Breeding and Genetic Studies of Maize and Other Crop Species	7/1/1992	6/30/1997
3135	Managing Water Quality and Livestock Products in Southern Iowa Watershed	7/1/1992	6/30/1994
3136	Modeling Anthropogenic Landscapes for Population Dynamics and Diversity of Wildlife	7/1/1992	6/30/1997
3137	Diversity and Demography of Neotropical Migrant Birds in Forest Wetlands	7/1/1992	6/30/1996
3138	Constructed Multispecies Riparian Buffer Strips as a best Management Practice	7/1/1992	6/30/1994
3139	Econometric Models of Conditional Price Volatility for Ag Econ Analysis	7/1/1992	6/30/1995
3140	Evaluating and Assessing the Environment and its Effect on Animal and Performance	7/15/1992	6/30/1996
3141	Genetic Enhancement of Health and Survival for Dairy Cattle	10/1/1992	9/30/1997
3142	Impact of Genotype and Health Status on Lactogenesis, Tissue Growth and Nutrient Needs of Pigs	5/31/1992	6/1/1997
3143	Localized Compaction and Doming to Increase N-use Efficiency and Reduce Leaching	7/1/1992	6/30/1995
3144	Nutritional Regulation of Gene Expression in Cattle	7/1/1992	6/30/1997

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Iowa Project #	Project Title	Start Date	End Date
3145	Dairy Herd Management Strategies for Improved Decision Making and Profitability	10/1/1992	9/30/2002
3146	Genetic Improvement of Dairy Cattle Using Molecular Markers	10/1/1992	9/30/1997
3147	Mapping Quantitative Trait Loci for Pathogenicity in <i>Cochliobolus Heterostrophus</i>	7/15/1992	7/31/1994
3148	Mapping the Pig Genome	10/1/1992	9/30/2002
3149	Environmental Impacts of Turf Management Practices and alternative Pest Control Methods	9/1/1992	9/30/1997
3150	Dietary Calcium Bioavailability by Using ICP-MS	10/1/1992	6/30/1997
3151	<i>Pinus Ponderosa</i> and Abortion in Cattle: Physiology and Chemistry	9/1/1992	8/31/1995
3152	Molecular Isolation of a Nuclear Restorer Factor for cms-T Maize	9/1/1992	8/31/1994
3153	Impact of Global Climate Change in Agriculture	10/1/1992	9/30/1997
3154	Integrated Systems for Improved Water and Nitrogen Management in Irrigation Environments	10/1/1992	9/30/1997
3155	Synergistic Microbial Relationships of Soybean	10/1/1992	9/30/1997
3156	Fruit and Nut Tree Adaption and Culture	10/1/1992	9/30/1997
3157	North Central Regulation Center for Rural Development	9/15/1992	9/30/1995
3158	Tissue Energy Metabolism Regulation During Early Phases of the Dev Obesity	10/1/1992	9/30/1997
3159	X-Ray Diffraction Studies of Glucoamylase	9/15/1992	9/30/1995
3160	Electron and Charge Transfer Reactions in Host-Guest Systems	10/15/1992	10/14/1995
3161	Assessment of Soil Nitrogen Tests in Animal-Based Farming Systems	9/15/1992	9/30/1993
3162	Consequences of Population Change in Rural Iowa	10/1/1992	9/30/1997
3163	Preservation of High-Moisture Shelled Corn by Application of Fungicide Compounds	11/1/1992	10/31/1997
3164	Symposium: Out of Season Breeding	1/1/1992	8/31/1993
3165	Toward a Model of the Socio-Technical Interface: an Interactive Video Experiment with Apparel	9/1/1992	8/30/1995
3166	Competitiveness of U.S. Beef, Pork, and Poultry Industries with those of E Europe and the EC	9/15/1992	9/30/1994

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Iowa Project #	Project Title	Start Date	End Date
3167	Evaluating Water Quality in Iowa Lakes	12/1/1992	11/30/1996
3168	Characterization of the Acetyl-CoA Carboxylase Genes of Soybean	10/1/1992	9/30/1993
3169	Cytoskeletal Interactions in Developing and Adult Muscle Cells	9/15/1992	9/30/1996
3170	The Biology of the Deer tick, Ixodes Dammini, and Lyme Disease in Iowa	1/1/1993	12/30/1997
3171	Bioavailability and Utilization of Betacarotene Isomers	1/1/1993	12/31/1997
3172	Development and Integration of Insect mgmt Strategies into Iowa Farming Systems	1/1/1993	9/30/1997
3173	Physiological Response to Exercise and Diet in a Horse	1/1/1993	6/30/1995
3174	Nutritional-Endocrine Regulation of Lipid and Thyroid Hormone Metabolism in Piglets	1/1/1993	12/31/1997
3175	Economic Implications and Commercial Application of Animal Breeding and Product Research	1/2/1993	1/8/1994
3176	Investigation of the Maize Genome by Genetic, Cytological, and Molecular Means	1/2/1993	1/31/1998
3177	Molecular Genetic Analysis of the Blackpatch Locus in Drosophila	2/1/1993	12/31/2001
3178	Statistics Methods for Estimating Dietary Intake Distributions Using Sample Surveys	3/1/1993	12/31/1995
3179	Membrane Binding and Oncogenesis by p21Ras	3/1/1993	6/30/1997
3180	Analyzing the Iowa Child Support Enforcement Program	3/1/1993	12/31/1996
3181	Stimulation of Corn Growth and Yield in the Field by Ammonium Ions	10/1/1993	9/30/1995
3182	Iowa's Hardwood Lbr Industry and the Sawlog Timber Resources Supply-Demand Situation	4/1/1993	3/31/1998
3183	Development of Sustainable Strategies for Soybean Arthropod Pests	1/12/1992	9/30/1997
3184	State Appropriations Analysis	1/1/1993	11/30/1993
3185	Relay Intercropping Systems for Iowa	4/1/1993	12/31/1997
3186	Estimating Usual Intake Distributions	4/1/1993	8/30/1995
3187	Biodegradable Pest Control Agents: Mode of Action and Degredation Mechanisms	4/15/1993	12/31/1997
3188	Neutoethology of Phermone-Mediated Flight in Heliothine	4/15/1993	4/30/1996

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Iowa Project #	Project Title	Start Date	End Date
3189	Physiology and Molecular Biology of System II Ethylene Production	6/1/1993	5/31/1998
3190	Enhancement of the Safety of Pork Products	5/1/1993	8/31/1994
3191	Regulatory Enzymes of Glycolysis and Gluconeogenesis	6/1/1993	5/31/1998
3192	Germination Ecology of Shattercane(Sorghum Bicolor L. Moendi)	6/1/1993	5/31/1998
3193	Physiology of Symptom Expression on Diseased Grasses	7/1/1993	6/30/1998
3194	Production of Wood Ashesives from Soy and Corn Proteins	6/1/1993	5/31/1997
3195	Genetic Organization of Resistance to Puccinia Coronata in Avena	8/1/1993	7/31/1996
3196	Microclimate Impacts of Shelterbelts in Agroforestry Ecosystems	8/1/1993	7/31/1996
3197	Isolation and Characterization of the Maize Gene Sugaryl	6/1/1993	9/30/1998
3198	Swine Genome Mapping Coordinator	6/1/1993	9/30/1998
3199	Biosynthesis of Benzoxazinines in Maize	7/1/1993	6/30/1998
3200	Effectiveness of N ₂ Fixation in Promoting Yield and Quality of Soybean	7/15/1993	7/31/1996
3201	Genetic Theory for Nonrandom Mating Populations	7/15/1993	6/30/1998
3202	Selection for Second Site Mutations in the Wound-Induction Pathway	7/1/1991	6/30/1995
3204	Comparative Study of Two Predators of the Colorado Potato Beetle	5/1/1993	4/30/1995
3205	Development of the Visual System	8/1/1993	6/30/1998
3206	Comprehensive IPM for Iowa Strawberry Growers: a Prototype for the Midwest	5/1/1993	4/30/1996
3207	Population Dynamics and Management of Insect Pests in Iowa Forage Systems	9/1/1993	8/31/1998
3208	Value-Added Coproducts in Ethanol Production by the Sequential Extraction Process	9/15/1993	9/30/1996
3209	Agroforestry Systems for Iowa and the Midwest	8/15/1993	7/31/1998
3210	North Central Regional Center for Rural Development	9/15/1993	9/30/1996
3211	Multicommunity Collaboration and its Impact on Rural Society	8/1/1993	7/31/1998

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Iowa Project #	Project Title	Start Date	End Date
3212	Genetic Mapping of Resistance to Crown Rust in the Oat Genome	7/1/1993	6/30/1995
3213	Impact of Dispersal Population Genetics, and Landscape on Management of Insect Pests of Corn	9/1/1993	6/30/1996
3214	Evaluating U.S. Competitiveness in Wheat, Soybeans, and Corn Markets	9/15/1993	9/30/1996
3215	Cloning and Mapping Genes associated with Immune Response and Health in the Pig	10/1/1993	9/30/1998
3216	Automated System for Measuring Water And Solute Transport Under Transient Flow Conditions	9/1/1993	8/31/1995
3217	Constructed Wetlands to Remove Nitrate-Nitrogen from Subsurface Cropland Drainage	8/1/1993	7/31/1996
3218	Plastics Made from Starch and Protein	9/15/1993	9/14/1994
3219	Water Washing and Membrane Recovery of Glucosinolates from Crambe and Rapeseed Meals	9/1/1993	8/31/1994
3220	The Bacterial Signal Recognition Particle	10/1/1993	9/30/1997
3221	Insecticidal Activity of Glucosinolates Extracted from Crambe Meal	9/1/1993	8/31/1994
3222	Genetic Exchange Between Bacillus Thuringiensis and Other Microbes in Soil	9/15/1993	9/30/1996
3223	Relaxing Effects on Central Nervous System Regulation of Prolactin Secretion in Pigs	9/15/1993	9/30/1996
3224	Nutritional Factors Affecting the Vitamin E status and Immune Competence of Young Turkeys	10/1/1993	9/30/1998
3225	An Evaluation of International Markets for Southern Commodities	10/1/1993	9/30/1998
3226	Interactions Among Bark Beetles, Pathogens, and Conifers in North American Forests	1/1/1994	9/30/2004
3227	Will Exogenous Glucagon Prevent Fatty Liver and Ketosis in Dairy Cows	9/15/1993	9/30/1996
3228	Consumer Meat Preferences and Purchasing Patterns in Japan	9/15/1993	9/20/1994
3229	Induction and Optimization of Biol N fixation om Temperate Woody Legumes	11/1/1993	10/31/1998
3230	A Quasi-Experimental Approach to Testing Psychoeducational Technology with the Elderly	11/1/1993	10/31/1996
3231	National Animal Genome Research Project	10/1/1993	9/30/1998

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Iowa Project #	Project Title	Start Date	End Date
3231	National Animal Genome Research Program (NAGRP)	10/1/2008	9/30/2013
3232	Assessment of Turfgrass Management Practices on Soils with Poor Soil	11/15/1993	10/31/1998
3233	Maintaining Optimal Phosphorus and Potassium Fertility in Soils Under Conservative Tillage	12/1/1993	11/30/1998
3234	A National Agricultural Program to Clear Pest Management agents for Minor Uses	10/1/1993	9/30/1998
3235	Economic Evaluation of Herd Health Management Strategies	12/1/1993	11/30/1998
3236	Molecular Genetic Mapping and Analyses of the Soybean Genome	12/1/1993	11/30/1998
3237	Cow-Calf Production Based on Year-Round Forage Systems fo The Midwest	1/1/1994	12/31/1998
3238	Induced Electrostatic Potentials on Antigen-Antibody Complex-Direct Sensing Mechansim	1/1/1994	6/30/1996
3239	Valuing Enviromental Benefits Using Discrete Choice Demand Models	1/1/1994	12/31/1996
3240	Neuroethology and Use of Semiochemically-Mediated Behavior for Sustainable Agriculture	1/1/1994	12/31/1998
3241	Nutrient Regulation of UDP-Glucuronosyltransferase: Magnesium and Vitamin A Deficiency	1/1/1994	12/31/1998
3242	Cloning and Characterization of the Phytophthora Resistence Gene form Soybeans	1/1/1994	12/31/1998
3243	The Influence of Schwann Cells on Nerve Regeneration in an Artificial Nerve Graft	11/1/1993	10/31/1997
3244	Physiological/Genetic Bases for Differential Response to Stress in Maize	1/1/1994	8/31/1998
3245	Effects of Land Surface Properties on Weather and Climate	1/1/1994	12/31/1998
3246	Benefits and Costs Transfer in Natural Resources Planning	1/1/1994	9/30/2002
3247	Development and Evaluation of Film Coating Technologies for Seed	2/1/1994	9/30/1998
3248	Characterization of the Stabilizing Factors for new Soy Protein Products	2/1/1994	1/31/2000
3248	Characterization of the Stabilizing Factors for New Soy Protein Products	2/1/1994	1/31/1999

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Iowa Project #	Project Title	Start Date	End Date
3249	Evaluating Weed Control Strategies for Corn, Soybean and Sorghum Production in the Central U.S.	12/15/1993	12/31/1994
3250	Control of Pathogenic and Spoilage Bacteria in Foods of Animal Origin	4/1/1994	3/31/1999
3251	Mutagenesis of Glucoamylase	3/1/1994	2/28/1999
3252	Assessment of Alternative Treatment Methods to Control Odor in Livestock Wastes	3/1/1994	2/28/1999
3253	Plastic Composite Supports for Biofilm Reactors for Improved Microbial Fermentations	3/15/1994	3/14/2000
3254	Adsorption and Abiotic Degradation of Organic Chemicals on Soil	3/15/1999	1/31/1999
3255	The Value of the Government Loan Guarantees to the Agricultural Sector	3/15/1994	12/31/1998
3256	the Role of Women in Decision Making in Agricultural Organizations and Institutions	4/1/1994	3/31/2000
3257	Market Power and Rivalry in International Grain Trade	4/1/1994	9/30/1996
3258	Internal Structures of Starch Granules	4/1/1994	3/31/2000
3259	Corn Starch as a Copolymer in Phenolic Wood Adhesives	4/1/1994	3/31/1999
3260	Infection of Corn Kernels and Fumonisin Production by Fusarium Moniliforme	5/1/1994	4/30/2000
3261	Marketing and Delivery of Quality Cereals and Oilseeds	3/1/1994	9/30/1998
3261	Marketing and Delivery of Quality Grains and Bioprocess Coproducts	10/1/2008	9/30/2013
3262	Soil Physical Properties and the Retention and Transport of Heat	5/1/1994	3/31/2000
3263	Identification of System Transfer Functions for Field Machinery Controlled by Fluid Power Devices	6/1/1994	5/31/1999
3264	Biotechnology Byproducts Consortium	4/15/1994	4/30/1995
3265	Teaching and Learning Processes in Agricultural Distance Education	6/1/1994	5/31/2000
3266	The Iowa State Corn Yield Test	7/1/1994	6/30/1999
3267	Replication of Barley Yellow Dwarf Virus Satellite RNA	9/1/1994	8/31/1998
3268	Variables Impacting the Development and Delivery of Effective Distance Education in Agriculture	7/1/1994	6/30/2000
3269	New Approaches in Sustainable Strawberry Production to Benefit Producers, Consumers and Environment	6/15/1994	6/14/1999

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Iowa Project #	Project Title	Start Date	End Date
3270	Risks Associated with Transgenic Resistance to Barley Yellow Dwarf Virus	8/1/1994	7/31/1997
3271	Center for Designing Food to Improve Nutrition		
3272	Agricultural Innovations, Competitiveness, and Strategic Research and Trade Policies	9/1/1994	8/31/1996
3273	Cloning and Characterization of Pathogenicity Genes in Cochliobolus Heterostrophus	7/15/1994	7/31/1996
3274	Socio-Cultural Factors in the Transition to Sustainability	7/1/1994	6/30/2000
3275	Enhancing Crop Gene Pools and Breeding Minor Crops	5/11/1994	10/11/1996
3276	Integration of Pasture Systems for Cattle Finishing Programs	8/1/1994	7/31/1997
3277	Management of Soybean Disease and Pathogen Carrying Capacity in Soybean-Corn Rotation Field	7/1/1994	6/30/2000
3278	Evaluation of Agricultural Chemical Management Options Using Simulation Models	6/1/1994	5/31/1999
3279	Soybean Bioprocessing/Bioengineering Demonstration Project	5/1/1994	4/30/1996
3280	Microirrigation: Management Practices to Sustain Water Quality and Agricultural Productivity	10/1/1994	9/30/1999
3280	Microirrigation Technologies for Protection of Natural Resources and Optimum Production	10/1/1994	9/30/2004
3281	North Central Regional Center for Rural Development	9/1/1994	8/31/1996
3282	Linking Soil Crack Morphology to Fate of Surface-Applied Pesticides	9/15/1994	9/30/1996
3283	The Relationship of Factors of Food Intake and Nutrition Related Behaviors	9/1/1994	8/31/1999
3284	Ecological Genetics and Reproductive Biology of Ladybeetle Introduction	9/1/1994	8/31/1997
3285	Timed, Metered, Semiochemical Release: New Technology for Insect Pest Suppression	9/1/1994	8/31/1997
3286	The Rural Development Implications Employment Locations	9/1/1994	8/31/1996
3287	Characterization of Flow and Transport Process in Soils at Different Scales	10/1/1994	9/30/2004
3288	Overwinter Survival of Heterodera, Pratylenchus, and Associated Nematodes on the North Central Region	10/1/1994	9/30/1999

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Iowa Project #	Project Title	Start Date	End Date
3288	Persistence of Hereofers Glycines and Other Regionally Important Nematodes	10/1/1994	9/30/2004
3289	Evaluation of the Impact of the Current and Emerging Farming Systems on Water Quality	9/15/1994	9/30/1995
3290	Molecular Markers for Immunocompetence and Resistance to Disease	9/15/1994	9/30/1997
3291	Tradeoffs in Balancing Multiple Objectives of an Integrated Agricultural Economic and Environmental System	10/1/1994	9/30/1999
3292	The Role of Housing in Rural Community Vitality	10/1/1994	9/30/1999
3293	Technical and Academic Support for Sustainable Rural Development Initiatives	9/25/1994	9/25/1995
3294	Time Series and Survey Sampling	11/1/1994	10/31/1999
3295	Improving the Nutritive Value and Utilization of Forages in Iowa	11/1/1994	10/31/1999
3296	Application of Midwest Feeds in Aquaculture	9/1/1994	8/31/1996
3297	Control of Gene Expression by the Maize P Gene	10/1/1994	10/31/2000
3298	Population Growth and Food Prices	11/1/1994	10/31/2000
3299	Predation by Intermediate-sized Carnivores on Wildlife in Agricultural Landscapes	11/15/1994	10/31/1999
3300	Bird Habitat-Use Patterns in the Iowa Agricultural Landscape at Different Spatial Scales	12/1/1994	11/30/1999
3301	Protein Breakdown as a Novel Target for Insect Pest Control	12/1/1994	10/31/1999
3302	Soybean Isoflavones: Bioavailability and Immune Function	12/1/1994	11/30/2000
3303	Iowa Farmers' Adoption of Sustainable Agricultural Practices	12/1/1994	11/30/1999
3304	Physiological and Biochemical Mode of Action of Insect Hormones	12/1/1994	11/30/1999
3305	Human Physiological and Perceptual Responses to the Textile-Skin Interface	1/1/1995	9/30/1996
3306	The Adoption of Sustainable Farming Systems: Implications to Agricultural Education	10/1/1994	9/30/1999
3307	Effects of Toxicants on Predator-Prey Interactions of Aquatic Animals	1/1/1995	12/31/1999

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Iowa Project #	Project Title	Start Date	End Date
3308	International Competitiveness and Marketability of Midwest Agribusiness Products	1/15/1995	1/14/2000
3309	Beef Fat Content	3/1/1995	2/28/1997
3310	Agricultural Trade Analysis for Support of the Office of the U.S. Trade Representative	1/1/1995	12/31/1998
3311	Biophysical Models of Poultry Production Systems	10/1/1994	9/30/2004
3312	The Impact of Family Solidarity and Social Resources on Nutrition/Health Status of the Elderly	2/1/1995	3/31/2000
3313	Management of Animal Waste on Support of Sustainable Agriculture and Quality Water Resources	2/1/1995	9/30/1995
3314	Oxygen Availability and Immunity in the Neonatal Calf	3/1/1995	3/1/2001
3315	Risk Factors and Educational Impacts of Agricultural Safety in Iowa Through Mortality and Morbidity	3/1/1995	3/1/2001
3316	Endocrinology of Beef Cattle for Improved Reproduction	3/1/1995	2/29/2000
3317	Economic Development Strategies and Entrepreneurial Social Infrastructure	12/14/1994	12/31/1996
3318	Controlling Leafspot Symptoms Transgenically on Kentucky Bluegrass (<i>POA Pratensis</i>)	4/1/1995	3/31/2000
3319	Evaluation of Outreach Educational Programs for Agricultural Youth	4/1/1995	7/31/1999
3320	Critical Transitions in Rural Families at Risk	4/1/1995	3/31/2000
3321	Reducing the Potential for Environmental Contamination by Pesticides and Other Organic Chemicals	10/1/1995	9/30/2005
3322	Effects of Preslaughter Treatments, Slaughtering Methods, and Irradiation on the Quality of Poultry Meat	6/1/1995	5/31/2000
3323	Biodegradation of Herbicides in Saturated Porous Media	5/15/1995	7/30/1998
3324	Inhibition of Barley Yellow Dwarf Virus Replication	4/1/1995	3/31/1997
3325	Erosion Mechanisms of Thawing Soil	7/1/1995	5/30/1997
3326	Dry Milling Performance and Process Evaluation of Yellow and White Corn Grown in Iowa	6/1/1995	5/31/2001
3327	Iowa Land Values	6/1/1995	5/31/2000
3328	Neuroethology of Pheromone-Mediated Flight in Heliothine Moths	9/1/1995	8/31/1998
3329	Structure-Function Investigations of Glucoamylase	9/15/1995	9/30/1998

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Iowa Project #	Project Title	Start Date	End Date
3330	Robosomal Frameshifting Investigations of Glucoamylase	9/1/1995	8/31/1998
3331	Recovery of Recombinant Proteins form Trasgenic Soybeans	9/1/1995	8/31/1998
3332	Improving Soil and Water Quality with a Multi-Species Riparian Buffer Strip	9/1/1995	8/31/1998
3333	A Symposium on Improving Pre and Post Natal Survival in Lambs	8/1/1995	2/28/1997
3334	Molecular Analysis of Meiotic Recombination	8/15/1995	8/31/1997
3335	Validation of Response Tests for Measuring Vitamin A Status	9/1/1995	8/31/2000
3336	Physiological and Genetic Factors Regulating Soybean Seed Protein	9/1/1995	8/31/2000
3337	Mapping Expressed Genes in the Pig Using Comparitive Anchor Loci Sequences	9/1/1995	8/31/1998
3338	Assessing nitrogen mineralization and other diagnostic criteria to refine nitrogen rates for crops and minimize losses	10/1/2001	9/30/2006
3339	Evaluation of ZRP4, a gene Expressed om Endodermal Cells of Roots During Suberin Deposition	9/1/1995	8/31/1997
3340	A Method for Selection os Mutants in signal Transduction Pathways	8/15/1995	8/31/1996
3341	Protein Phosphorylation-Dephosphorylation Mechanism	9/1/1995	8/31/2000
3342	Regulation of Cell-Specific Expression of MHC Class II Genes	9/1/1995	8/31/1997
3343	Vaiables Realted to Shopping in Rural Iowa	10/1/1995	9/30/1998
3344	Alternatitive Grain and Oilseed Crops for Sustainability and Diversification of Iowa Agriculture	10/1/1995	12/31/1996
3345	Development of Coconut Coir Products as Horticultural Substrates	10/1/1995	2/29/2000
3346	Evaluating Pork Quality from the Producer to the Consumer	10/1/1995	9/30/2000
3347	Enhancing Food Safety Through Control of Foodbourne Disease agents	10/1/1995	9/30/2000
3348	Methodological Comparisons for Evaluating the Sensory Attributes of Meat	10/1/1995	9/30/2000

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Iowa Project #	Project Title	Start Date	End Date
3349	Basic Properties of the Muscle Cell Cytoskeleton	10/1/1995	9/30/1999
3350	Food and Agricultural Policy Research Institute	1/1/1996	6/30/1999
3351	Optimizing Nitrogen Management for Corn	11/1/1995	10/31/2000
3352	Understandign Genetic Variation of the Soybean Genome	11/7/1995	10/31/2000
3353	Processing Effects on Isoflavone Content of Soy Foods and Soybeans	11/1/1995	10/31/2000
3354	commodity Price Analysis and Risk Management	11/16/1995	10/31/2000
3355	Microenvironment Control to enhance livestock and Poultry Production Efficiency	12/13/1995	11/30/2000
3356	Evaluation and Models to Predict Crop Growth in Agricultural Systems	1/2/1996	11/30/2001
3357	Evolution and Development of Plant Pathogens fpr Biological Cnontrol of Weeds	10/1/1995	9/30/2000
3358	Global Competitiveness of U.S. Pork Sector	1/1/1996	12/31/2000
3359	Human Impacts on Soil: A Pedogenic Perspective	1/1/1996	12/31/2000
3360	Reasearch Program: Center for Designing Foods fo Improve Nutrition	6/15/1996	6/30/2001
3361	The Role of Extracellular Matrices in Fungal Pathogenicity to Plants	1/4/1996	12/31/1999
3362	Utilization of Whole Soybeans in Foods Prepared in the American Home	4/1/1996	12/31/1999
3363	Natural Resource Effects on Site-Specific Supply of Crops and Pollution	1/1/1996	12/31/2000
3364	FFA Participation in Demonstration to Optimize use of Animal Manure in Crop Production	9/1/1995	8/31/1997
3365	Individual and Family Resources of the Oldest Old	1/12/1996	12/31/1999
3366	Enhanced Genetic Prediction Technologies	1/26/1996	12/31/1999
3367	Sociological Analysis of Consumer Food Preference	2/1/1996	1/31/2001
3368	Genetics and Improvements of Important Agronomic Characters in Oats	2/1/1996	1/31/2000
3369	Population Biology of Sex Ratio Variation in Turtles with Environmental Sex Determination	2/1/1996	1/31/2002
3370	Chemolithautotrophy (Chemosynthesis) and Sulfur Meabolism in Magnetatic Bacteria	2/1/1996	8/31/1996

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Iowa Project #	Project Title	Start Date	End Date
3371	Molecular and Functional Analysis of Axon Fascicle Proteins	2/12/1996	12/31/1999
3372	Developing an Agricultural Transportation Planning Mode	3/1/1996	11/30/1999
3373	D-Raf in Drosophila Signal Transduction	3/18/1996	1/31/1999
3374	Analyzing Delivery models for Young Adult Farmer Education in Iowa	3/1/1996	2/28/2002
3375	Operation of Food Irrigator	5/1/1996	6/30/2000
3376	Iowa's Contribution National Agricultural Pesticide Impact Assessment Program	4/1/1996	3/31/1997
3377	Genetics, Demography and Restoration of the Regal Fritillary Butterfly Speyeria Idalia, a Prairie Endemic Species in Iowa	4/1/1996	3/31/2002
3378	Manipulation of a Native Debranching Enzyme for Improved Usage of Maize Starch	7/1/1996	6/30/1998
3379	Role of the Maize Receptor Kinase in Aleurone and Epidermis Development	4/1/1996	3/31/2002
3380	Estimating an Unknown Function by Local Polynomial Regression When the Errors are Correlated	5/1/1996	4/30/2001
3381	Molecular Characteristics of the Compatible Soybean Cyst Nematode-Soybean Interaction	5/1/1996	5/1/2001
3382	Genetic Control of the TCA Cycle During Seed Germination	5/1/1996	4/30/1998
3383	Target Specificity of the yeast TY5 Retrotransposon	5/1/1996	7/1/2002
3384	Integrated Management of Sudden Death Syndrome of Soybean by Minimizing Herbicide Stress	9/15/1996	9/30/1999
3385	Effects of Stress on Behavior, Reproduction, Immune Function and Nutrition on the Sow	6/1/1996	3/1/1999
3386	Study of Ante/Postmortem Factors Affecting Relationship Between Myofibrillar Proteins/Tenderness	6/1/1996	5/31/2000
3387	Developing Statistical models for the Agricultural, Biological and Social Sciences	7/1/1996	6/30/2001
3388	Life Table Estimation with Correlated Event Times	7/1/1996	6/30/1999
3389	Fatty Liver and Ketosis in Lactating Dairy Cows	7/1/1996	6/30/2002
3390	Molecular Mechanism of RF2-Mediated Fertility Restoration of CMST Maize	9/1/1996	8/31/1998

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Iowa Project #	Project Title	Start Date	End Date
3391	Soil Enzymes	7/1/1996	6/30/2000
3392	Mono ADP-Ribosylation and De ADP-Ribosylations in Skeletal Muscle	7/1/1996	6/30/1997
3393	War Stress and wellbeing in Iowa Military Families	7/1/1993	
3394	Plant Disease Epidemics and Crop Losses for Improved Disease Management	7/1/1996	3/31/1997
3395	Farmland Ownership and Transfer in Iowa	7/1/1996	5/30/1997
3396	Development of New Oils Starches and Antioxidants from Soybean, Corn and Oat	7/1/1996	6/30/1997
3397	Utilizing Insect/Plant Relationships in Insect Corn Pest Management	7/1/1996	6/30/1997
3398	The Coorelates of Financial Problems Among Families in Financial Counseling	7/1/1996	8/30/1997
3399	Modeling Anthropogenic Landscapes for Population Dynamics and Diversity Wildlife	7/1/1996	6/30/1997
3400	Nutritional Regulation of Gene Expression in Cattle	7/1/1996	6/30/1997
3401	Enviromental Impacts of Turf Management Practices and Alternative Pest Control Methods	7/1/1996	8/31/1997
3402	Fruit and Nut Tree Adaption and Culture	7/1/1996	9/30/1997
3403	Cosequences of Population Change in Rural Iowa	7/1/1996	9/30/1997
3404	Preservation of High-Moisture Corn by Application of Fungicide Compounds	7/1/1996	10/31/1997
3405	Analyzing the Iowa Child Support Enforcement Program	7/1/1996	12/31/1996
3406	Iowa's Hardwood Lumber Industry and the Sawlog Timer Resource Supply-Demand Situation	7/1/1996	3/31/1998
3407	Geminaion Ecology of Shattercane (Sorghum Bicolor L. Moendi)	7/1/1996	5/31/1998
3408	The Iowa State Corn Yield Test	7/1/1996	3/31/2000
3409	Molecular Biology of Cuticular Wax Biosynthesis	7/1/1996	3/31/2000
3410	Time-Domain Reflectometry Measurement and Model Simualtion of Water and Solute Transport	7/1/1996	3/31/2000
3411	Prevention of Escherichia Coli 0157:H7 Infection in Ruminants	7/1/1996	6/30/1999
3412	Improving the Methionine Content and Protein Quality of Soybean Seeds	7/1/1996	3/31/2000

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Iowa Project #	Project Title	Start Date	End Date
3413	Tree Planting Programs in Iowa Communities: Tree Growth, Community Programs and Potential Benefits	7/1/1996	7/1/2001
3414	Expanding the Utilization of Soybean Oil	8/1/1996	7/31/2001
3415	Impact of Swne Manure and Alternative nitrogen Management Practices on Water Quality	8/1/1996	7/31/2001
3416	Funtion and Organization of Photosystem I	7/1/1996	7/31/1997
3417	Population Improvement of Popcorn Germplasm	8/1/1996	7/31/2001
3418	Analysis of Function of Sugaryl in Maize Starch Biogenesis	9/1/1996	8/31/1998
3419	Alternative Methods of reducing Price and Yield Risk	8/1/1996	7/31/2001
3420	Mutagenesis of Glucoamylase to Increase its Catalytic Rate	10/1/1996	9/30/1998
3421	Developmental Relationships in Small Buisness Retailing Charateristics , Contributions, and Impacts	8/15/1996	7/31/2000
3422	Soybean Management Practices in Iowa	9/1/1996	8/31/2001
3423	Manipulating Nutrients to Enhance Pond and Lake Productivity	8/15/1996	6/30/2001
3424	Efficiency of Milk Production by Dairy Cows	9/1/1996	8/31/2001
3425	Enhancing the Acceptance of Cheese Products	9/1/1996	8/31/2001
3426	Light Control of Glycine Decaroxylase Expression	9/15/1996	3/31/1998
3427	Social Capital, Entrepreneurial Social Infrastructure, and Development Policies	9/15/1996	9/30/2000
3428	Do Isoflavonoids from Soy Protein Have Proestrogenic Effects During the Menopausal Transition	9/1/1996	8/31/2001
3429	Analysis of a Novel Nuclear Double Kinase	9/1/1996	8/31/2001
3430	Growth of Salmonella and Yersinia in Irradiated Beef	9/1/1996	2/28/1998
3431	Mutational Analysis of Interactions and Function of Ferredoxin	9/1/1996	8/31/1997
3432	CACO-2 Cell Model for Human Iron Bioavailability Studies and for Isolation on the Meat Factor	9/1/1996	8/31/2001
3433	Identification and Localization of Enviromental Stresses Sensed by Bacterica on Leaves	9/15/1996	8/31/2001
3434	Replication of Barley Yellow Dwarf Virus (RPV) Satellite RNA	10/1/1996	9/30/1998
3435	Creation and Disrtibution of Agriculturally-Important Weather Data from IDOT Mesonetwork Sites	9/15/1996	5/31/2001

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Iowa Project #	Project Title	Start Date	End Date
3436	Develop Genetic Specification for the Beef Industry	9/15/1996	12/31/1999
3437	Management of the Alfalfa Weevil <i>Hypera Postica</i> : Optimizing Biotic Mortality to Prevent Outbreaks	9/1/1996	8/31/1998
3438	Control and Targeting of Lipoamide Dehydrogenase	9/15/1996	10/31/1998
3439	Matric Water Stress Tolerance by Soil Bacteria	10/1/1996	9/30/2001
3440	A Mechanistic Modeling Approach to Nutrient Uptake and Carbon Allocation in Selected Hardwoods	10/1/1996	10/1/2001
3441	Nitrogen Nutrition of Vegetable Crops	9/1/1996	8/31/1997
3442	Effects of Fat-Soluble Vitamins on Immune Responses of Dairy Cattle	10/1/1996	9/30/2001
3443	Developing Management for Insect Pests of Short Rotation Populus	10/1/1996	9/30/2001
3444	Key Proteins Integrating the Myofibrils Within Developing and Adult Muscle Cells	11/1/1996	10/31/2000
3445	Roles of Arginine-Specific Mono-ADP-Ribosylation in Developing Skeletal Muscle	10/15/1996	1/31/2001
3446	Contour Strip-Cropping with Trees as a Sustainable land use on Highly Erodible Land	10/1/1996	12/31/2000
3447	Ecological and Evolutionary Genetics of Insects	10/1/1996	9/30/2001
3448	Using stage based interventions to increase fruit and vegetable intake in young adults	10/1/2001	9/30/2006
3449	The Impact of HACCP on Food Safety and Meat industry Productivity	11/10/1996	10/1/1998
3450	Rural Data Project	11/1/1996	10/30/2002
3451	Isolation of Maize Gene Dull, A Determinant of Kernel Starch Composition	11/1/1996	10/31/1998
3452	Methods to Map QTL by Pedigree Analysis	12/1/1996	11/30/1998
3453	Meeting Students Perceived Needs in Iowa Secondary Agriculture Ed Programs	11/1/1996	6/30/1997
3454	Toward a Model of the Sociotechnical Interface: Implementation of Merchandising Technology	11/1/1996	10/31/2000
3455	Therapies to Reduce Neutrophil Adhesion and Tissue Damage in Pneumonic Boyine Lung	12/1/1996	11/30/2000
3456	Integration of Quantitative and Molecular Technologies for Genetic Improvement of Pigs	10/1/1996	9/30/2002
3457	Integrated Management of Arthropod Pests of Livestock and Poultry	10/1/1996	9/30/2001

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Iowa Project #	Project Title	Start Date	End Date
3458	Enhancement of the Safety of Pork Products	5/1/1997	7/31/2000
3459	The Significance of Community to Business Social Responsibility	2/1/1997	2/28/2000
3460	Development and Application of Comprehensive Agricultural Ecosystems Models	10/1/1996	9/30/2001
3461	Iowa's Contribution, National Agricultural Pesticide Impact Assessment Program	1/1/1997	12/31/1997
3462	Modeling a Shelterbelt Agroforestry System	12/15/1996	12/31/2000
3463	Economics of Quality and Structure in the Food Industry	2/1/1997	10/31/2001
3464	Rural Labor Markets in the Global Economy	2/1/1997	9/30/2000
3465	Animal Manure Waste Utilization, Treatment, and Nuisance: Avoidance for a Sustainable Agriculture	10/1/1996	9/30/2001
3466	North Central Regional Center for Rural Development	3/15/1997	3/31/2000
3467	Contributions of Animal Agriculture to Global Human Food Demand	10/1/1996	9/30/1997
3468	Rural Restructuring: Causes and Consequences of Globalized and Natural Resource System	1/1/1997	9/30/2001
3469	Row Spacing, Plant Density, and Hybrid Effects on Corn Production in Iowa	5/1/1997	4/30/2001
3470	Grazing on Public Lands	10/1/1996	9/30/1997
3471	Analysis of Biological Diversity Conservation in Iowa Using GIS	5/1/1997	12/31/1999
3472	Statistical Models for Relationships in Ecology Based on the Theory of Limiting Factors	5/1/1997	4/30/2002
3473	Modeling Spatial and Temporal Dynamics of Montane Meadows and Biodiversity in the Greater Yellowstone Ecosystems	5/1/1997	9/30/2000
3474	Modeling Wildlife and Biological Diversity in Future Midwestern Agricultural Watersheds	6/1/1997	5/31/2001
3475	Bacteriocin Markers for Propionibacteria Gene Transfer Systems	7/1/1997	8/31/2000
3476	Pant and Animal By-Product Substitutes for Fish Meal to Formulate Low-Phosphorous Fish	7/1/1997	6/30/2002
3477	A Resampling Method for the Censored Quantile Regression	6/30/1997	5/31/2002

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Iowa Project #	Project Title	Start Date	End Date
3478	Habitat Features Affecting Bird Communities on Restored Wetland Complexes in Iowa	7/1/1997	6/30/2002
3479	The Signal Transduction Pathway for Response to Altered CO ₂	7/1/1997	6/30/1999
3480	Suspended Sediment and Pesticide Interaction and Toxicity to Larval Fish	10/1/1997	9/30/2000
3481	Plant Disease Management Through Seed Technology	7/7/1997	6/30/2005
3482	Computer for Animal Genome Databases	9/1/1997	11/30/1998
3483	The Basement Membrane as a Barrier to Baculovirus Dissemination in the Host	8/15/1997	8/31/2000
3484	Control of Glutathione Biosynthesis and its role in Plant Protection	7/1/1997	9/30/2000
3485	Molecular Analysis of Meiotic Recombination	9/1/1997	8/31/2000
3486	Role of Learning Style in Cognitive Process Skill Development	7/1/1997	6/30/2002
3487	Assessing the Potential For US Meat and Grain Exports to China	9/15/1997	9/30/2000
3488	Integrating Sustainable Agriculture Instructions into Iowa High School Agricultural Education Programs	7/11/1997	6/30/2001
3489	Dietary Status of Older Americans & Factors Associated with Healthful Food Practices	10/1/1997	9/30/2000
3490	Selection of Mutations in Undefined, Complex Biochemical Pathways	9/1/1997	8/31/1999
3491	Migration Decisions of Rural Elderly in Iowa	8/1/1997	7/31/1999
3492	Detoxification of Fumonisin by a Simple Fructose Reaction on Corn for Food	7/1/1997	9/30/2000
3493	Influence of Diet and storage System in Manure Nutrient Composition and Odor	8/15/1997	8/14/2002
3494	Soils and Landscapes of Iowa	8/1/1997	7/31/2002
3495	Genetic Improvement of Corn Germplasm	9/1/1997	8/31/2002
3496	Molecular Recognition During Electron Transfer on the Oxidizing Side of Photosystem I	9/1/1997	8/31/2000
3497	Fine-Mapping a Crown Rust Resistance Gene Cluster in Diploid Oat	9/15/1997	9/30/2000
3498	Neuroethology of Pheromone-Mediated Flight in Heliothis Moths	9/15/1997	9/30/1999

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Iowa Project #	Project Title	Start Date	End Date
3499	Identifying Heterotic Regions in the Tetraploid Alfalfa Genome	9/15/1997	9/30/2001
3500	Coordinate Regulation of the ACETYL-CoA Carboxylase Genes During Seed Development	10/1/1997	9/30/2000
3501	Tn916 Mediated Genetic Schange form Genetically Engineered Microbes	9/15/1997	9/30/2000
3502	Molecular Analysis of Interactions Between Heterodera Schachtii and Arabdopsis Thaliana	10/1/1997	9/30/1999
3503	Center for Sanitary Barriers to US Meat Exports	9/1/1997	2/28/1998
3504	Floral Regulatory Elements and New Transposons in Sorghun and Other Grasses	9/1/1997	8/31/1999
3505	Sequence of Trophectoderm RNA Expression Throughout Porcine Conceptus Elongation	10/1/1997	9/30/2000
3506	Integrated Assessment of Environment and Economic Implications of Precision Farming on Crop Production	10/1/1997	10/1/2000
3507	Soybean and Corn Crops with Value-Added Oils and Starches	9/15/1997	8/14/2002
3508	Effectiveness of Various Landuse Practices for Reducing NPS Inputs into the Iowa Great Lakes	10/8/1997	8/14/2002
3509	Evaluation of the Impact of Current and Emerging Farming Systems on Water Quality	9/15/1997	9/30/2000
3510	Comodities, Consumers, and Communities: Local Food Systems in a Globalizing Environment	10/1/1997	9/3/2002
3511	Genetic Stocks and Map Development for Improved Resolution of the Maize Genetic Map	9/1/1997	9/30/2000
3512	Factors Affecting Calf Survivability	10/15/1997	10/14/2002
3513	Food Demand, Nutrition, and Consumer Behavior	10/1/1997	9/30/2002
3514	Management of Secondary Vegetaion for Multistrata Agroforestry Systems	11/15/1997	
3515	Agro-Oceanic Nutrient Flux Center	9/1/1997	2/28/1998
3516	A Bayesian Decision Model for Nutrient Application Rates	11/15/1997	11/14/2002
3517	Anaerobic Digestion of Mixtures of Corn Stover & Swine Manure	1/1/1998	11/30/2000
3518	Dietary Prevention of Cancer: Glucocorticoids Cancer Prevention By Energy Restriction	1/1/1998	12/31/1999
3519	Mineral Nutrition of Vegetable Crops	1/1/1998	11/30/2002

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Iowa Project #	Project Title	Start Date	End Date
3520	Protien Structure Determination, Molecular Recognition & Conformational Regulation Using NMR	1/1/1998	12/15/2002
3521	Candidate Genes from Biodiverse Genetic Resource and Immunocompetence in Chickens	1/1/1998	12/31/2003
3522	Systematics and Ecology of Net-Winged Midges and Associated Aquatic Insects	1/1/1998	12/31/2003
3522	Systematics and Ecology of Net-Winged Midges and Associated Aquatic Insects	1/1/1998	12/31/2002
3523	Understanding Effects of Economic Factors on Youth and Young Adult Migration from Rural Communities	##### ####	12/31/2002
3524	Telecommunications Education Partnership for Rural Development in Southwest Iowa	4/1/1998	3/31/2001
3525	Iowa Biotechnology Byproducts Consortium	5/1/1998	5/31/1999
3526	Legume Phytochemicals: Improving Utilization	2/15/1998	2/28/2002
3527	Dynamic Soybean Insect Management for Emerging Agricultural Technologies and Variable Environments	10/1/1997	9/30/2002
3528	International Competitiveness and Marketability of Midwest Agribusiness Products	4/1/1998	3/31/2000
3529	Uterocalin, an Acute Phase Protein Expressed in Uterus and Mammary Glands	3/31/1998	1/31/2003
3530	Contracts, Incentive Structures and the Boundries of the Firm in Agriculture and Other Sectors	4/1/1998	3/31/2003
3531	Research Program: Center for Designing Foods to Improve Nutrition		
3532	Chracterization of Weedy Traits of Woolly Cupgrass and Common Water Hemp	3/1/1998	2/28/2003
3533	CARD Agricultural Trade Analysis	3/15/1998	3/15/2000
3534	Development of Standard Method of Odor Quantification Using Olfactory and Chemical Analysis	2/15/1998	2/29/2000
3535	Special Project to Develop a Silverleaf Whitefly Research Results Publication	12/1/1997	3/31/1999
3536	Explaining the Origin of Financial Beliefs and Behaviors of Modern Families	4/1/1998	3/31/2003
3537	The Development of Environmentally Sound Turfgrass Management Practices	7/1/1998	6/30/2003

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Iowa Project #	Project Title	Start Date	End Date
3538	Genetic Enhancement of Health and Survival for Dairy Cattle	1/1/1998	9/30/2002
3539	Biotechnology Innovations and Market Structure: Effects on Trade and Welfare with an Application to SOYB	9/1/1998	8/31/1999
3540	Community Policy Analysis Conference	7/1/1998	9/30/1999
3541	Accelerating Bile Acid Synthesis in Developing Swine	6/15/1998	5/31/2003
3542	Very Long Chain Fatty Acid Biosynthesis by Heptic Microsomes and Perisomes	7/1/1998	6/30/2003
3543	Biointensive Components for IPM in Corn	7/1/1998	6/30/2005
3544	Components of Microalgal CO2 Concentrating Mechanism	7/1/1998	6/30/2000
3545	Regulation of Barley Yellow Dwarf Virus-PAV RNA Replication	9/15/1998	9/30/2000
3546	Integrated Postharvest Strategies to Assure Safety/Quality/Profitability of Apple Cider Production	10/1/1998	9/30/2000
3547	Developing and Characterizing Exotic Corn Crosses with Value-Added Starch and Oil	9/1/1998	8/31/2001
3548	Optimizing Marker-Assisted Selection for Genetic Improvement of Livestock	12/15/1998	12/31/2001
3549	Transgenic Maize for Integrated Management of Insects Diseases and Mycotoxins	6/15/1998	5/31/2000
3550	Assessment and Prediction of the Fate of Nitrate in Re-Established Riparian Buffers	9/1/1998	8/31/2001
3551	Programmed Nutrient Intake if Feedlot Cattle	9/1/1998	8/31/2003
3552	Transfer RNA Structure and Function	7/1/1998	6/30/2003
3553	Iowa's Contribution, National Agricultural Pesticide Impact Assessment Program	1/1/1999	12/31/1999
3554	Role of Aldehyde Dehydrogenase Activity in Male Fertility of Maize	9/1/1998	8/31/2001
3555	Co-Migration of Metals and Dissolved Humic Substances in Aquifer Material	12/15/1998	12/31/2001
3556	Impact of Technology on Rural Consumer Access to Fiber and Products	10/1/1998	9/30/2004
3557	First International Pig Chromosome 13 Workshop	8/1/1998	7/31/1999
3558	Financing Agriculture and Rural America: Issues of Policy, Structure and Technical Change	10/1/1998	9/30/2003

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Iowa Project #	Project Title	Start Date	End Date
3559	Plant Reesistance to Aphids Mediated by Luteovirus Structural Proteins	9/1/1998	8/31/2000
3560	Competitiveness and Value-addes in the U.S. Grain and Oilseed Industry	10/1/1998	9/30/2003
3561	Glandular-Haired Alfalfa Resistance to Potato Leafhopper: Mechanisms and Pest Management	12/1/1998	11/30/2003
3562	Rural Economic Development Alternatives in the New Competitive Environment	10/1/1998	9/30/2002
3563	Bradythizobial and mycorrhizae Involment with Sustained Field Productivity of Soybean	12/1/1998	11/30/2003
3564	Sustainable Tactics for Fruit and Vegetable Disease Management	1/1/1999	12/31/2003
3569	Glutathione Sythesis in Plants	12/1/1999	11/30/2003
3570	High value specialty crop pest management	10/1/2004	12/31/2009
3571	Sulfer Stress Signal Transduction	7/1/1999	12/31/2003
3572	Lutein as an Antagonist of the Bioavailability and Bioconversion of Beta-Carotene	9/1/1999	8/31/2003
3580	Development of Corn-Based Edible Vaccines for Livestock	9/1/1999	8/31/2003
3587	The Geography of Rural Financial Intermediation	11/1/1999	10/31/2004
3588	Role of Plant-Bacterial Surface Interactions in Epiphutic Colonization	9/15/1999	9/14/2003
3595	Modifying Milk Fat Composition for Improved Manufacturing Qualities and Consumer Acceptability	10/1/1999	9/30/2004
3597	Key Proteins Integrating the Myofibrils within Developing and Adult Muscle Cells	11/1/1999	10/31/2004
3598	Systems for Controlling Air Pollutant Emissions and Indoor Enviroments of Poultry, Swine and Dairy Facilities	10/1/1999	9/30/2005
3599	Avian Respiratory Diseases: Pathogenesis, Surveillance, Diagnosis and Control	10/1/1999	9/30/2004
3603	Crop production and management strategies	10/1/1999	6/30/2007
3604	Rural Sociology	7/1/2000	6/30/2006
3606	Fiber related products (textiles & apparel) & businesses for protection, social, & economic enhancement	8/1/2000	7/31/2006
3607	Family and community support for rural quality of life`	9/1/2000	8/31/2006

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Iowa Project #	Project Title	Start Date	End Date
3608	Molecular mechanisms of plant responses to environmental stresses	1/1/2002	12/31/2008
3609	Firm and market structures in meeting the needs of food consumers	6/1/2002	5/31/2009
3610	Molecular and cellular mechanisms in agriculture	9/1/2002	8/31/2008
3611	Biodiversity and environmental quality in a changing landscape	7/1/2003	6/30/2008
3612	Sensing technology and decision support systems for precision agriculture	9/1/2003	8/31/2010
3613	The Study & Practice of the Teaching & Learning Processes in Selected Professional Settings	10/1/2003	9/30/2009
3614	Marker Assisted Breeding and Limits to Genetic Gain	1/1/2009	12/31/2014
3615	Biobased Materials and bioenergy from Lignocellulosics	6/1/2008	9/30/2013
3702	Developing value-added agricultural commodities, ensuring their safety, and facilitating technology transfer	10/1/2006	10/1/2012
3703	Plant germplasm and genetics for crop improvement	7/1/2000	6/30/2007
3707	Understanding food insecurity	9/1/2006	8/31/2012
3710	Molecular and Cellular Mechanisms in Agriculture: Structure/Function Relationships of Agriculturally Relevant Macromolecules	9/1/2002	8/31/2008
3715	Ecological and Environmental Factors Affecting Terrestrial Wildlife in Native and Human-Altered Ecosystems	2/1/2009	1/31/2015
3803	Interaction of biosystems with weather and climate	7/1/2000	6/30/2007
3805	Agroecosystem Design and Restoration for Enhancing Ecosystem Services	4/1/2008	3/30/2013
3807	Quality rating system for child care in Iowa and four other states	9/1/2006	8/31/2012
3810	Molecular and cellular mechanisms in agriculture: the molecular and genetic basis of cell signaling, growth, and development	9/1/2002	8/31/2008
3900	Understanding the physiological basis of animal reproduction, growth and performance	6/1/2007	5/31/2013
3903	Sustainable and environmentally safe management of soil resources	7/1/2001	6/30/2007

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Iowa Project #	Project Title	Start Date	End Date
3905	Fast growing trees, shade-avoidance, nutrient uptake	4/1/2002	3/30/2008
3907	Vulnerability and resiliency of old and very old rural adults	9/1/2006	8/31/2012
3910	Molecular and cellular mechanisms in agriculture; molecular mechanisms of metabolism	9/1/2002	8/31/2008
3914	Seed Biology in Agroecology	1/1/2008	12/31/2013
4003	Sustainable and environmentally safe management of soil resources: nutrient management	7/1/2001	6/30/2007
4005	Forest systems in urban and urbanizing areas	4/1/2008	3/30/2013
4010	Molecular and cellular mechanisms in agriculture: gene expression mechanisms	9/1/2002	8/31/2008
4014	Sustainable and Environmentally Safe Management of Soils in Biomass Production Systems	5/1/2008	4/30/2014
4103	Sustainable and environmentally safe management of soil resources, soil biology	7/1/2001	6/30/2007
4105	Bio-based materials development	1/14/2002	1/13/2007
4203	Sustainable and environmentally safe management of soil resources: resource assessment and sustainable management	7/1/2001	6/30/2007
4205	Monitoring Iowa Water Quality: Evaluation of Techniques and Recommendations for Improvements	8/1/2003	7/31/2009
4303	Sustainable and environmentally safe management of soil resources: fate and transport of chemicals in soils	7/1/2001	6/30/2007
4503	Regional Climate Variability and Change in the US Great Plains	7/1/2007	9/30/2012
5000	Biotech test production: technologies to purify recombinant proteins from plants for use as therapeutics and industrial enzymes (yr 2)	9/1/2004	8/31/2006
5001	Plant biotech-Iowa: technologies to recover recombinant proteins from plants for use as therapeutics and industrial enzymes (yr 2)	9/1/2004	8/31/2006
5002	Agricultural and rural finance markets in transition	10/1/2004	9/30/2009
5003	Leopold Center Hypoxia Project	9/15/2004	9/14/2006
5004	Xanthomonas Pathovars Enabling a Broad Comparative Genomics Approach to Understanding Vascular and Non-Ovascular Diseases of Dicots and Monocots	8/15/2004	11/14/2007

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Iowa Project #	Project Title	Start Date	End Date
5005	Carbon sequestration and distribution in soils of eroded landscapes *** renewing as NC1178	10/1/2004	9/30/2009
5006	CAST Scientific Research Publications	8/1/2004	7/31/2006
5007	Food Chain Economic Analysis Part II	7/1/2004	6/30/2007
5008	Aphid resistance in plants mediated by luteovirus structural proteins and an intrahemocoelic toxin	12/1/2004	11/20/2008
5009	Heartland Integrated Water Quality Coordination Initiative	9/15/2004	9/14/2009
5011	Constructing a program theory to support program evaluation of the CSREES Higher Education Challenge Grants Competitive Program	7/1/2004	10/31/2006
5012	Role of Apoplastic Water Potential Modulation in Plant Defense	12/15/2004	12/14/2008
5013	Economic and water quality effects of multiple conservation practices in three midwest watersheds.	9/15/2004	9/14/2008
5014	Single-Nucleotide Genomic Variation and Response to Salmonella Enteritidis in Chickens	10/1/2004	9/30/2010
5015	Third International Congress on Plant Metabolomics	11/15/2004	11/14/2005
5016	Educational program to increase citizens' responsibility for management of agricultural watersheds	9/15/2004	9/14/2008
5017	Rural development, work and poverty in the North Central Region	10/1/2004	9/30/2010
5018	Economic assessment of changes in trade arrangements, bio-terrorism threats and renewable fuels requirements on the US grain and oilseed sector	10/1/2004	9/30/2010
5019	Multi-state Evaluation of Winegrape Cultivars and Clones - DO NOT USE	10/1/2004	9/30/2017
5020	Source reduction and mitigation strategies for air emissions from turkeys, laying hens, and growing cattle.	5/1/2005	9/30/2006
5021	Reducing barriers to adoption of microirrigation *** renewing as W2128	10/1/2004	9/30/2009
5022	The conversion of inactive cobalamins to coenzyme B12	10/1/2004	7/31/2007
5023	Integration of functional genomics and quantitative genetics to improve feed efficiency in pigs	5/15/2005	5/14/2009

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Iowa Project #	Project Title	Start Date	End Date
5024	Chemistry, Bioavailability, and Toxicity of Constituents in Residuals and Residual-Treated Soils *** renewing as W2170	10/1/2004	9/30/2009
5025	Characterizing Mass and Energy Transport at Different Scales	10/1/2004	9/30/2009
5026	Modifying milk-fat composition for improved nutritional and market value	10/1/2004	9/30/2009
5027	Interactions Among Bark Beetles, Pathogens, and Conifers in North American Forests	10/1/2004	9/30/2009
5028	Beef cattle grazing systems that improve production and profitability while minimizing risk and environmental impacts	10/1/2004	12/31/2007
5029	Nitrogen cycling, loading, and use efficiency in forage-based livestock production systems (NCT196 and NC189)	10/1/2004	12/31/2007
5030	Safeguarding American Agriculture from new and emerging disease and pests: a GIS and web-based disease monitoring, forecasting, and information delivery system	2/1/2005	1/31/2010
5031	Functional genomics of soybean response to cyst nematode parasitism proteins	4/1/2005	3/31/2009
5032	Development of ecologically and economically sustainable pest management programs for soybean production	1/1/2005	12/31/2010
5033	Aedes vexans, ochlerotatus triseriatus and the ecology of West Nile virus	2/1/2005	1/31/2010
5035	Agricultural Trade Analysis	7/1/2005	6/30/2007
5036	Food Chain Economic Analysis - Part III	8/15/2005	8/14/2008
5037	Food and Agricultural Policy Research Institute	7/1/2005	6/30/2008
5038	Measurement and mitigation of odor and air emissions from concentrated animal feeding operations	9/15/2005	9/14/2007
5039	North Central Regional Center for Rural Development	7/1/2004	6/30/2007
5040	New strategies for management of anthracnose fruit rot of strawberry	5/15/2005	5/14/2008
5041	Concentration and extraction of phosphorus from swine manure	7/1/2004	6/30/2008
5042	Leopold Center Hypoxia Project, IA (Year 2)	9/15/2005	9/14/2007

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Iowa Project #	Project Title	Start Date	End Date
5043	International competitiveness and marketability of Midwest agribusiness products	7/1/2005	6/30/2008
5044	Gene expression in polyploid cotton	8/1/2005	7/31/2010
5045	Development of a CNMP core training curriculum	1/1/2005	12/31/2006
5046	Enhancing small farm prosperity: An intergrated research, education, and outreach program for niche pork production	7/1/2005	6/30/2008
5047	Poultry Production Systems: Optimization of Production and Welfare Using Physiological, Behavioral and Physical Assessments *** renewing as NE1042	10/1/2004	9/30/2009
5048	Ecology, physiology, and genetics of insect vectors	4/1/2005	6/30/2008
5049	Recombination mechanisms of maize	7/1/2005	6/30/2009
5050	Enhancement for the safety of pork products	7/1/2005	6/30/2007
5051	Changes in land use/land cover of the driftless area and implications for forest biodiversity conservation	7/1/2005	6/30/2010
5052	Preparing mindful professionals and citizens: a pilot academy for leadership in learning	8/1/2005	7/31/2009
5053	The organic soybean rust management	7/15/2005	7/14/2007
5054	Biotechnology test production, IA: Recovery & purification of recombinant proteins from plants for therapeutics and industrial enzymes	9/1/2005	8/31/2007
5055	High hydrostatic pressure process parameters impact on soy components extractability and characteristics	9/1/2005	8/31/2008
5057	Changing ecosystems in the upper Midwest: Causes and consequences	6/1/2005	5/31/2010
5058	Enzyme-assisted aqueous processing of soybeans (year 2)	9/1/2005	8/31/2007
5059	Symposium titled Meristems 2005, the 7th Plant Sciences Institute Symposium	7/15/2005	7/14/2006
5060	Genetic analysis of fatty acid composition of beef and milk -- developing tools for use in selection	8/15/2005	8/14/2009
5061	Managing cropping systems for weed regulation by granivorous rodents, with special reference to over-winter weed seed mortality	11/1/2005	10/31/2010
5063	Recalcitrant soil organic matter in agricultural landscapes	9/1/2005	8/31/2009

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Iowa Project #	Project Title	Start Date	End Date
5064	National needs training grant in animal molecular biology, genomics and bioinformatics	9/1/2005	8/31/2010
5065	USDA National needs for fellowship in food safety and quality	9/1/2005	8/31/2009
5066	Integrating an entire semester to make connections for cross-disciplinary collaboration and communication	9/1/2003	8/31/2008
5067	Water resource degradation in the Boone watershed: Integrating stakeholder knowledge and preferences with economic and watershed models	9/15/2005	9/14/2009
5068	Influence of landscape-weather interactions on biological water quality in agricultural watersheds	9/15/2005	9/14/2008
5069	The impact of a novel gene, asb-15, on muscle growth	4/1/2005	9/30/2006
5070	National effort to implement IPM decision support tools using site-specific weather technology	9/15/2005	9/14/2009
5071	Soy components and colon cancer	2/15/2005	10/14/2006
5072	Evaluations of strategies for the management of soybean rust in organic systems	9/15/2005	9/14/2008
5073	Coupling Lagrangian stochastics and large eddy simulation to predict long distance dispersal of pollen	9/1/2005	8/31/2008
5074	Mycotoxins: Biosecurity and Food Safety	10/1/2005	9/30/2010
5075	Toxicology and Chemistry of Agrichemicals	9/1/2005	8/31/2010
5076	Characterize weed population dynamics for improved long-term weed management decision-making	10/1/2005	9/30/2011
5077	Molecular mechanisms regulating skeletal muscle growth/differentiation	10/1/2005	12/31/2007
5078	Hydropedology: Genesis, Properties, and Distribution of Hydromorphic Soils *** renewing as NE1038	10/1/2004	9/30/2009
5079	Identification of modifier genes of myostatin affecting growth, body composition, and gene expression	6/1/2006	5/31/2009
5080	Interactive drivers of land-use/land-cover change in agricultural areas: Climate and land-manager choices	4/1/2006	3/31/2009
5081	Enzyme-assisted aqueous processing of soybeans (year 3)	9/1/2006	8/31/2009
5082	Biotechnology test production, IA: Recovery and purification of recom-Binant Proteins from Plants for Therapeutics and Industrial Enzymes	9/1/2006	8/31/2009

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Iowa Project #	Project Title	Start Date	End Date
5083	International competitiveness and marketability of Midwest agribusiness products	7/1/2006	6/30/2009
5084	Enabling Graduate Learning in Risk Analysis with Emphasis on Food, Agriculture and Veterinary Medicine	9/1/2006	8/31/2009
5085	Agricultural Trade Analysis	7/1/2006	6/30/2009
5086	North Central Regional Center for Rural Development	7/1/2006	6/30/2008
5087	Protein oxidation and nitration: Novel mechanisms governing meat quality	9/1/2006	8/31/2011
5088	Agrochemical impacts on human and environmental health: Mechanisms and mitigation	10/1/2005	9/30/2010
5089	Enhancement for the Safety of Pork Products	8/15/2006	8/14/2008
5090	Midwest Poultry Research Program	8/1/2006	7/31/2008
5091	Fate and significance of veterinary antibiotics in surface water	8/1/2006	7/31/2010
5092	Cultivating new leaders in Global Agriculture: Undergraduate experiential learning to develop multiple perspectives	9/1/2006	8/31/2010
5093	International Plant Breeding Symposium	7/1/2006	9/30/2006
5094	Nanotechnology and biosensors	10/1/2006	9/30/2011
5095	Livestock bioinformatics roundtable discussions	8/1/2006	1/31/2008
5096	Aerosol and airborne transmission of Listeria monocytogenes: a potential source of cross contamination	8/15/2006	8/14/2011
5097		9/1/2006	8/31/2010
5098	Measurement and Mitigation of Odor and Air Emissions from Concentrated Animal Feeding Operations	8/15/2006	8/14/2008
5099	Moisture enhanced pork -- Development of a quantitative risk assessment	9/1/2006	8/31/2011
5100	A Virtual Education Center for Biorenewable Resources: Building Capacity and Humanizing Distance Education	7/1/2006	6/30/2011
5101	Widening the road: Building Our Global Awareness and Agricultural Competitiveness by Partnering with Costa Rican Educators and Entrepreneurs	4/1/2005	3/31/2009
5102	Leopold Hypoxia Project, IA	9/1/2006	12/31/2008

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Iowa Project #	Project Title	Start Date	End Date
5104	Food Chain Economic Analysis - Part IV	9/15/2006	9/14/2009
5105	Evaluating the Physical and Biological Availability of Pesticides and Pharmaceuticals in Agricultural Contexts	10/1/2005	9/30/2010
5106	Pasture Management Effects on Non-Point Source Pollution of Midwestern Watersheds	9/15/2006	9/14/2010
5107	Plant Receptor Signaling, the 8th Annual Plant Sciences Institute Symposium	8/1/2006	7/31/2007
5108	Transcriptional Control of the Maize Vp1 Gene, A Key Regulator of Seed Maturation	9/1/2006	8/31/2010
5109	Practical Management of SCN and Other Nematodes of Regional Importance: With Special Reference to Invasive Biology	10/1/2006	9/30/2011
5110	Characterizing active soil organic matter pools controlling soil N availability in maize-based cropping systems	10/1/2006	9/30/2011
5111	Mosquito- and Tick-Borne Disease Surveillance in Iowa	8/1/2006	7/31/2012
5113	Training in the development and application of quantitative methods and tools for animal genomics	12/1/2006	11/30/2011
5115	Local food choices, eating patterns, and population health (NC1001)	10/1/2006	9/30/2011
5116	Reproductive Performance in Domestic Ruminants	10/1/2006	9/30/2006
5118	Research and Education Support for the Renewal of an Agriculture of the Middle	10/1/2006	9/30/2011
5119	Determining ammonia and particulate matter emissions from Midwest turkey growout buildings	3/1/2007	3/1/2007
5121	Animal Genomics for Animal Health Symposium 2007	4/1/2007	3/31/2008
5122	Functional Genomics and Cellular Immunity to Salmonella	2/1/2007	1/31/2011
5123	The Poultry Food System: A Farm to Table Model	10/1/2006	9/30/2012
5124	Symposium entitled, Epistasis: Predicting Phenotypes and Evolutionary Trajectories, the 9th Annual Plant Sciences Institute Symposium	3/1/2007	2/28/2008
5125	Use of genomics to select purebreds for crossbred performance in the field	1/1/2007	12/31/2010
5126	Regulation of Lipogenesis and Fatty Acid Oxidation in the Pig by Adiponectin	2/1/2006	12/31/2007

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Iowa Project #	Project Title	Start Date	End Date
5127	An Integrated Approach to Prevention of Obesity in High Risk Families	10/1/2006	9/30/2012
5128	Stress factors of farm animals and their effects on performance	10/1/2006	9/30/2011
5129	Grazing Management Effects on Pathogen Loading of Midwestern Pasture Streams	6/15/2007	6/14/2011
5130	Designing an Undergraduate Certificate Program in Biobased Products: an Entrepreneurial Approach	9/1/2007	8/31/2011
5131	Development of Regional Swine Institutes for Academic Training of Students in Swine Science	9/15/2007	9/14/2011
5132	North Central Regional Center for Rural Development	7/1/2007	6/30/2009
5133	Building a New Foundation for Management of Cucurbit Bacterial Wilt	8/1/2007	7/31/2010
5134	Across species, across disciplines and across borders: Opportunities for welfare and epidemiology scientists	9/1/2007	11/30/2008
5135	Beta-Glucan Structure and Interactions Modulate Physicochemical, Physiological and Sensory Functions of Oats	9/1/2007	8/31/2012
5136	Inorganic Carbon Transport and the CO ₂ -concentrating Mechanism of Chlamydomonas	9/1/2007	8/31/2010
5137	Genetic Regulation of Natural Anti-Sense Transcripts (NATs) in Maize	9/1/2007	8/31/2011
5138	Colloid-Mediated Transport of Hormones With Land-Applied Animal Manures	8/15/2007	8/14/2011
5140	Meteorological Influences on Escape of Transgenes	9/15/2007	9/14/2011
5141	Benefits and Costs of Natural Resources Policies Affecting Public and Private Lands	10/1/2007	9/30/2012
5142	Food and Agricultural Policy Research Institute	7/1/2007	9/30/2008
5143	A National Agricultural Program for Minor Use Animal Drugs	7/1/2007	6/30/2008
5144	Quantifying the Effect of Intercepted Precipitation and Dew on Terrestrial Microwave Emission at L-band	7/1/2007	6/30/2013
5145	Environmental Fate and Effects of Transgenic Plant Products	7/1/2007	6/30/2012
5146	Physiological limitations to increased grain production in Iowa	7/1/2012	6/30/2017

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Iowa Project #	Project Title	Start Date	End Date
5147	Wood Utilization Research on US Biofuels, Bioproducts, Hybrid Biomaterials Composites Production, and Traditional Forest Products	8/1/2007	7/31/2009
5148	Midwest Poultry Research Program	5/1/2007	9/30/2008
5149	Investigation of Alternative Crops for Iowa	7/1/2011	6/30/2016
5150	Control of Food-Borne Pathogens in Pre- and Post-Harvest Environments	10/1/2007	9/30/2012
5151	Ecological and Genetic Diversity of Soilborne Pathogens and Indigenous Microflora	7/1/2007	9/30/2012
5152	Promoting healthful eating to prevent excessive weight gain in young adults (NC219)	10/1/2006	12/31/2009
5153	Functional Genomics of the Plant-Cyst Nematode Interaction	4/1/2008	3/31/2012
5154	Genetic regulation and genomic selection of energy balance traits in dairy cattle	3/1/2008	2/28/2012
5155	Moving from Multidisciplinary to Interdisciplinary Graduate Study in Sustainable Agriculture	1/15/2008	1/14/2013
5156	Functional genomics of the pathogenic and epiphytic lifestyles of the Bacterial Plant Pathogen <i>Pseudomonas Syringae</i>	1/15/2008	1/14/2013
5157	Development of Bioinformatic Resources to Transfer Biological Information Across Species	4/1/2008	3/31/2012
5158	Improving the Suitability of Maize for Bioenergy and Feed	12/1/2007	11/30/2012
5159	Agricultural Literacy	10/1/2006	9/30/2012
5160	Private Strategies, Public Policies, and Food System Performance	8/1/2007	7/31/2009
5161	Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprises (Rev. NC-1119)	10/1/2007	9/30/2009
5163	Improving the Sustainability of Livestock and Poultry Production in the United States	10/1/2007	9/30/2013
5164	Enhancing the Competitiveness and Value of U.S. Beef	10/1/2007	6/30/2011
5165	Impacts, Interactions, and Management of the Fusarium Root Rot Complex in Soybeans	5/1/2008	9/30/2010
5166	Biology, impact, and management of soybean insect pests in soybean production systems	10/1/2007	9/30/2012

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Iowa Project #	Project Title	Start Date	End Date
5167	Facilitating Real World Crop Production Research through Experimental Design and Data Collection and Analysis Training	5/1/2008	4/30/2010
5168	Developing Carbon-Positive Organic Systems through Reduced tillage and Cover Crop-Intensive Crop Rotation Schemes	6/1/2008	5/31/2013
5169	Genetic and Functional Genomic Approaches to Improve Production and Quality of Pork	10/1/2007	9/30/2012
5170	Sustainable Biorefining Systems for Corn in the North Central Region	1/1/2007	12/31/2008
5171	Bio-fuels Unit Operations Course Development	9/1/2008	8/31/2013
5172	Protein Utilization - IA: Advanced Soybean Biorefineries	9/1/2008	8/31/2010
5173	Modular Assembly of Synthetic Cellulosomes	9/1/2008	8/31/2012
5174	Role of Lipopolysaccharide O-Chain in Type III Secretion, and Effector-Mediated Host Defense Inhibition in Bacterial Leaf Streak of Rice	7/1/2008	6/30/2011
5175	Biotechnology Test Production, IA - Advanced Corn Biorefineries	9/1/2008	8/31/2010
5176	A New Open Reading Frame in the Potyviridae Genome	8/15/2008	8/14/2011
5177	Addressing Hypoxia Issue Associated with the Upper Mississippi River Basin	10/1/2007	9/30/2008
5178	Food and Agricultural Policy Research Institute	7/15/2008	7/14/2010
5179	Agricultural Trade Analysis	7/1/2008	6/30/2010
5180	Training Plant Breeders for Sustainable Maize Production	12/1/2008	8/31/2012
5181	Rural Change: Markets, Governance and Quality of Life	10/1/2007	9/30/2012
5182	Systems for Controlling Air Pollutant Emissions and Indoor Environments of Poultry, Swine, and Dairy Facilities	8/1/2008	9/30/2012
5183	New Century Farm	9/1/2008	8/31/2010
5184	Restoration of Evolutionary Fire-Grazing Interactions to Limit Invasion of Exotic Forages in the Central Grasslands.	6/1/2008	8/31/2010
5186	The Long-Distance Signaling Pathway that Controls Tuber Formation	9/1/2008	8/31/2012

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Iowa Project #	Project Title	Start Date	End Date
5187	International Competitiveness and Marketability of Midwest Agribusiness Products	7/15/2008	6/14/2010
5188	North Central Regional Center for Rural Development	7/15/2008	7/14/2010
5190	Interactions of Individual, Family, Community, and Policy Contexts on the Mental and Physical Health of Diverse Rural Low-Income Families	10/1/2008	9/30/2014
5191	Food and Fuel Initiative: Iowa	8/15/2008	8/15/2010
5192	Methods to Increase Reproductive Efficiency in Cattle (NC1006)	10/1/2007	9/30/2012
5193	Enhancement for the Safety of Pork Products	8/1/2008	7/31/2010
5195	Midwest Poultry Research	9/1/2008	8/31/2010
5196	Leopold Center Hypoxia Project, IA	9/1/2008	8/31/2010
5197	Regulation of Photosynthetic Processes (Rev. NC-1142)	10/1/2007	9/30/2012
5198	Measurement and Mitigation of Odor and Air Emissions From Concentrated Animal Feeding Operations	9/1/2008	8/31/2010
5199	Research for National Swine Nutrition Guide	8/15/2008	8/14/2009
5200	Environmental Fate and Effects Assessment for a Genetically-Engineered Bioenergy Feedstock Crop	9/1/2008	6/30/2012
5201	Mycotoxin Risk Associated With Ethanol Co-Products From Conventional vs. Biotechnology-Derived Corn Grain	9/1/2008	8/31/2013
5202	Advanced Technologies for the Genetic Improvement of Poultry (was NC168)	10/1/2008	9/30/2013
5203	Genetic Bases for Resistance and Immunity to Avian Diseases	10/1/2008	9/30/2013
5204	Bioplastic Container Cropping Systems: Green Technology for the Green Industry	9/1/2008	8/31/2009
5205	Metabolic Relationships in Supply of Nutrients for Lactating Cows (NC-1009)	10/1/2007	9/30/2013
5206	Balancing natural resource recreation management, human well-being, and community resilience.	10/1/2008	12/31/2011
5207	Aphid-luteovirus interaction: Aphid receptors, luteovirus receptor-binding domains and blocking luteovirus transmission	1/15/2009	12/31/2012
5208	Bioinformatics to implement genomic selection (BIGS)	1/1/2009	12/31/2012

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Iowa Project #	Project Title	Start Date	End Date
5209	Quantifying the distribution, abundance and diversity of wildlife in landscapes of the Midwest	12/1/2008	11/30/2013
5210	Developing Predictive Models for Identifying Pigs With Superior Immune Response and Improved Food Safety	1/1/2009	6/30/2013
5211	Integrated Systems Research and Development in Automation and Sensors for Sustainability of Specialty Crops	10/1/2008	9/30/2013
5212	Integrated regulation of lipolysis by perilipin, adipose triglyceride lipase, and CGI 58 in dairy cows	1/15/2009	1/14/2013
5213	Modeling for TMDL Development, and Watershed Based Planning, Management and Assessment	10/1/2008	9/30/2013
5214	Environmental and Genetic Determinants of Seed Quality and Performance	10/1/2008	9/30/2013
5215	Regulation of the Development of IVF and SCNT Embryos by Micro RNAs	1/1/2008	12/31/2011
5217	Grassroots model to increas diversity among engineers and technicians in the bioenergy workforce	2/1/2009	1/31/2014
5219	USPCE Critical Issues Prioritization Conference	6/1/2009	11/30/2009
5220	Genetic Selection and Crossbreeding to Enhance Reproduction and Survival of Dairy Cattle	10/1/2008	12/31/2010
5221	Mastitis Resistance to Enhance Dairy Food Safety	10/1/2007	9/30/2012
5223	Protein Utilization, IA: Advanced Soybean Biorefineries - Year 2	9/1/2009	8/31/2011
5224	Animal Science Food Safety Consortium: Arkansas, Kansas and Iowa	7/15/2009	7/14/2012
5225	New Century Farm, IA (BioCentury Research Farm)	9/1/2009	8/31/2011
5226	Food and Agricultural Policy Research Institute	7/15/2009	12/31/2011
5227	Midwest Poultry Research Program	8/15/2009	8/14/2011
5228	Biotechnology Test Production, IA - Advanced Corn Biorefineries	9/1/2009	8/31/2012
5229	International Competitiveness and Marketability of Midwest Agribusiness Products	8/15/2009	2/14/2012
5230	Food and Fuel Initiative: Iowa	9/1/2009	8/31/2011
5231	Swine Production Manager Certification and Associate Degree Delivered Via Distance Education	7/1/2009	6/30/2011
5233	Impacts of Crop Residue Removal for Biofuel on Soils	10/1/2009	9/30/2014

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Iowa Project #	Project Title	Start Date	End Date
5234	Measurement and Mitigation of Odor and Air Emissions from Concentrated Animal Feeding Operations	9/1/2009	8/31/2011
5235	Agricultural Trade Analysis (Center for Agricultural & Rural Development)	9/1/2009	8/31/2011
5236	A Model to Predict Gene flow in Open-Pollinated Crops	9/1/2009	8/31/2014
5237	Xanthomonas Genomics Conference 2009	9/1/2009	8/31/2010
5238	Wood Utilization Research: Biofuels, Bioproducts, Hybrid Biomaterials Composites Production, and Traditional Forest Products	8/1/2009	9/30/2012
5239	Optimization of Poultry Welfare and Production Systems for the 21st Century	10/1/2009	9/30/2014
5240	XC Leopold Center Hypoxia Project, IA	9/1/2009	8/31/2011
5242	Enhancing Farmland Water Quality and Availability through Soil-Building Crop Rotations and Organic Practices	9/1/2009	8/31/2014
5243	Agricultural and Rural Finance Markets in Transition (NC1014,NC221, NCT-194)	10/1/2009	9/30/2014
5244	Microirrigation for sustainable water use	10/1/2009	9/30/2014
5245	Use of high-density SNP genotyping for genetic improvement of livestock	1/1/2010	12/31/2013
5246	Characterizing Mass and Energy Transport at Different Vadose Zone Scales	10/1/2009	9/30/2014
5247	Effects of Lipids on Physical Properties, Digestibility, and Nutritional Benefits of Starchy Foods	9/1/2009	8/31/2014
5249	Learning and teaching with experimental watersheds: evaluation of ecosystem services in mixed annual-perennial agroecosystems	2/1/2010	1/31/2014
5250	Changing the Health Trajectory for Older Adults through Effective Diet and Activity Modifications	10/1/2009	9/30/2014
5251	Pseudomonas Syringae Photosensory Proteins and their Contribution to Plant Colonization and Survival Throughout the P. Syringae Lifecycle	2/1/2010	1/31/2014
5252	final report for Iowa project IOW05249	1/1/2010	12/31/2013
5253	Integrating Soil Water Flowpaths and the Nitrogen Cycle	1/1/2010	8/1/2012
5254	Biobased Energy Research and Information Exchange Committee	3/1/2008	9/30/2013

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Iowa Project #	Project Title	Start Date	End Date
5255	Economic Impacts of International Trade and Domestic Policies on Southern Agriculture	10/1/2009	9/30/2013
5256	Food, Feed, Fuel, and Fiber: Security Under a Changing Climate (NC1018 Renewal)	10/1/2009	9/30/2014
5257	Molecular Mechanisms Regulating Skeletal Muscle Growth and Differentiation (NC131)	10/1/2009	9/30/2010
5258	Integration of Quantitative Genetics, Statistics, Computational Biology, and Breeding for Animal Genetic Improvement	1/1/2010	12/31/2013
5261	Animal Science Food Safety Consortium: Arkansas, Kansas and Iowa	8/15/2010	8/14/2013
5262	Agricultural Trade Analysis-Center for Agricultural and Rural Development	7/1/2010	6/30/2013
5263	The Physiological Basis of Differences in Efficiency, Metabolism and Energy Partitioning Between Lines of Pigs Selected for Residual Feed Intake	4/1/2010	3/31/2013
5264	Food and Agricultural Policy Research Institute(FAPRI)	7/1/2010	6/30/2013
5265	Plant Cell Walls: Biosynthesis and Modification	3/15/2010	3/15/2015
5267	International Competitiveness and Marketability of Midwest Agribusiness Products	7/1/2010	12/31/2012
5268	New Century Farm, IA BCRF	9/1/2010	8/31/2011
5269	Protein Utilization, IA; Advanced Soybean Biorefineries - Year 3	9/1/2010	8/31/2012
5270	Food and Fuel Initiative: Iowa	9/1/2010	8/31/2012
5271	Midwest Poultry Research Project	8/1/2010	7/31/2012
5273	Leopold Hypoxia Project, IA	9/1/2010	8/31/2013
5274	Creating and Validating a Sampling Plan for Aphids in Corn	6/1/2010	5/31/2014
5279	Preparing Current and Future Food and Agricultural Professionals for the U.S.- and China-Led Global Economy	9/1/2010	8/31/2013
5288	The Role of MYB305 in the Function of the Floral Nectary	7/1/2010	3/31/2011
5289	Implications of Climate Policy Choices for Agricultural Input Costs and Uses: the US Nitrogenous Fertilizer Industry	2/15/2011	6/24/2011

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Iowa Project #	Project Title	Start Date	End Date
5292	The Use of Fire and Grazing to Improve Grassland Habitats for Species of Greatest Conservation Need	8/1/2010	7/31/2014
5293	Marketing, Trace, and Management of Aquaculture and fishery Resources (from W1004)	10/1/2010	9/30/2014
5294	Assessment of Alternative Production Systems for Laying Hens to Safeguard Animal Welfare and Sustainable Egg Supply	4/15/2011	4/14/2014
5299	Monitoring Corn Rootworm for Development of Resistance to Bt Corn	8/15/2011	8/14/2014
5300	A Novel Frameshift Signal in the Potyviridae Genome	8/15/2011	8/14/2014
5301	A Systems Genetics Approach to Identify Epigenetic Variants Associated With Skeletal Muscle Nutrient Content	8/1/2011	7/31/2014
5302	Performance and Acceptance of Denitrification Bioreactors for Agricultural Drainage	8/15/2011	8/15/2013
5303	RNA Structure-Mediated Regulation of Cap-Independent translation by Plant Viruses	9/1/2011	8/31/2013
5305	The Science and Engineering for a Biobased Industry and Economy	6/1/2011	9/30/2013
5308	Food Environment: The Effects of Context on Food Choice	9/1/2011	8/31/2012
5310	Weeds as Phytometers in a changing Environment	10/1/2011	9/30/2013
5317	GEPR: Functional Structural Diversity Among Maize Haplotypes	1/1/2012	9/30/2013
5320	U.S. Pork Center of Excellence	1/1/2012	9/30/2013
5323	Ovarian Influences on Embryonic Survival in Ruminants	11/1/2011	9/30/2012
5329	The Complex Nature of Saving: Psychological and Economic Factors	10/1/2011	9/30/2013
5331	Leveraging Native Resistance to Corn Rootworm Beetles for Maize Improvement	8/1/2012	2/28/2014
5332	Using Evidence-Based Programing Criteria to Refine a Community-Based Intergenerational Exergaming Program for Rural America	9/1/2012	8/31/2014
5340	Genetic Selection and Crossbreeding to Enhance Reproduction and Survival of Dairy Cattle (S-284)	10/1/2012	9/30/2013
5365	Advancing Dairy Cattle Genetics: Genomics and Beyond	9/1/2013	8/31/2014

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Iowa Project #	Project Title	Start Date	End Date
6500	Improved Grazing Systems for Beef Cattle Production	10/1/1999	9/30/2004
6501	Using Site-specific Weather Data Simulation to Accelerate IPM Implementation	6/15/1998	5/31/2000
6502	Cis- and Trans-modifiers of Meiotic Recombination in Maize	11/15/1999	11/30/2002
6503	Porcine Reproductive and Respiratory Syndrome; Mechanisms of Disease and Methods for the Detection, Protection and Elimination of the Virus	10/1/1999	9/30/2004
6504	The Poultry Food System: A Farm to Table Model	10/1/1999	9/30/2004
6505	Blocking Anhydrous Methamphetamine Production, Iowa	7/1/2000	6/30/2001
6506	Enhancement of the Safety of Pork Products	6/15/1999	6/30/2000
6508	International Competitiveness and Marketability of Midwest Agribusiness Products	6/15/1999	6/30/2002
6509	Carotenoid Bioavailability and Metabolism	7/1/2000	6/30/2003
6510	Ontogeny and Localization of VEGF and its Receptors in the Gravid Porcine Uterus	9/1/2000	8/31/2003
6511	Institutionalization of the Global Consortium of Higher Education and Research for Agriculture	7/1/2000	12/31/2000
6512	CARD Agricultural Trade Analysis	7/1/2000	6/30/2002
6513	Influence fo Protein Oxidation on Mechanisms Governing Meat Tenderness	1/1/2002	12/31/2002
6514	Prediction of Gray Leaf Spot Severity As A Decision Tool In Maize Production	7/1/2000	6/30/2003
6515	International Competitiveness and Marketability of Midwest Agribusiness Product	7/1/2000	6/30/2002
6516	Information Exchange in Farmers' Adoption of Conservation Tillage Practices	7/15/2000	7/14/2002
6517	Competition, Innovation, Market Access, and Welfare in Agri Input Markets	9/15/2000	9/14/2002
6518	Iowa Biotechnology Byproducts Consortium	7/15/2000	7/31/2001
6519	Assessing the Supply and Utilization of Grain and Meat In Indonesia: Implications for U.S. Exports	8/1/2000	7/31/2002
6520	Impacts of Composted Swine Manure on Weed Seed Survival, Seedling Emergence, Growth, and Competitive Ability	9/15/2000	9/14/2003

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Iowa Project #	Project Title	Start Date	End Date
6521	Engaged Institution' Role In Biotechnology Education Symposium	9/1/2000	6/30/2001
6522	Arginine-Specific Mono-ADP-Ribosylation in Embryonic Skeletal Muscle	9/1/2000	8/31/2001
6523	Mechanisms and Control fo Off-Odor Production in Irradiated Turkey Breast Meat	12/15/2000	12/31/2003
6524	On-Site Mixture Processing By Antennal Neurons in Heliothine Moths	12/1/2000	1/31/2003
6525	The Genetic Basis of Winter Hardiness in Alfalfa	9/15/2000	9/30/2003
6526	Folate-Retinoid Interactions: Implications in Liver Disease	12/1/2000	11/30/2002
6527	Impact of Endosperm Lipids on Dry Milling and Extrusion of Dried and Stored Corn	12/15/2000	12/31/2003
6528	Safety, Quality, and Sustainability of Small-Farm Production of Apples and Cider	9/15/2000	9/14/2003
6529	Mapping and Use of QTL for Marker-Assisted Improvement of Meat Quality in Pigs	9/15/2000	9/30/2003
6530	Effects of Prenatal Stress on the Health and Well-Being of Swine		
6531	Real-Time Soil Nitrate Analysis System for Precision Nitrogen Application	11/15/2000	11/14/2003
6532	Salmonella Monitoring and Reduction Immediately Prior to Slaughter	9/15/2000	9/14/2003
6533	Assessment of Requirements of Native American-Owned Businesses to Participate in E-Commerce	9/1/2000	8/31/2002
6534	Implementing New Tactics for Apple IPM in the FQPA Era	9/15/2000	9/14/2003
6535	Risk Assessment of a Recombinant Baculovirus Expressing a Protease	9/15/2000	9/30/2003
6536	Linking Agriculture, Food Systems, Communities and Population Health Conference	9/1/2000	8/31/2001
6537	Use of Research and Modeling Informantion in Community-based Watershed Planning	9/15/2000	9/14/2003
6538	Rural Labor-Markets: Workers, Farmers, and Communities in Transition	10/1/2000	9/30/2005
6539	Modeling Corn and Soybean Production in a Sheltered Field	12/15/2000	12/14/2005

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Iowa Project #	Project Title	Start Date	End Date
6540	Manipulation of Starch Debranching Enzyme Activities in Transgenic Plants	12/1/2000	11/30/2001
6541	Structure and function of VAR2, a plastid charonin with homology to E. Coli FtsH	12/15/2000	12/31/2003
6542	Regulation of Barley Yellow Dwarf Virus Gene Expression	12/1/2000	11/30/2003
6543	Water Flow and Preferential Solute Transport Properties of Field Soils	12/1/2000	11/30/2002
6544	Enhancing Food Safety Through Control of Food-Borne Disease Agents	10/1/2000	9/30/2006
6545	Coordinate Regulation of the Acetyl-CoA Carboxylase Genes During Seed Development	11/15/2000	11/14/2002
6546	How is Acetyl-CoA Generated in Plants	12/15/2000	12/31/2003
6547	Symposium on Biosynthesis of Glucose Polysaccharides	6/15/2000	6/20/2001
6548	Integrating Biophysical Functions of Riparian Systems With Management Practices and Policies	10/1/2000	9/30/2005
6549	International Competitiveness and Marketability of Midwest Agribusiness Product	8/1/2001	7/31/2003
6550	Food and Agricultural Policy Research Institute	6/15/2001	12/31/2002
6551	CARD Agricultural Trade Analysis		10/9/2001
6552	Improved Statistical Methods for Detecting QTL and Estimating Their Effects	6/15/2001	6/30/2002
6553	International Competitiveness and Marketability of Midwest Agribusiness Product		10/10/2001
6554	Operation of Food Irradiator	6/15/2001	7/31/2002
6555	Use of Industrial Enzymes to Enhance Soybean Value	6/1/2001	5/31/2002
6556	A National Agricultural Program to Approve Animal Drugs for Minor Species Uses	4/1/2001	9/30/2004
6557	Enhancement of the Safety of Pork Products	7/1/2001	6/30/2002
6558	Integrated Management of the Corn Flea Beetle-Stewart's Disease for corn Pathosystem	4/1/2001	3/31/2003
6559	Evolving Demand for Dairy Products in Asia: Policy and Trade Implications	11/15/2001	11/14/2003
6560	GMOs as (Possibly Inferior) Differentiated Product Innovations: Economics and Public Policy	6/1/2001	5/31/2003

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Iowa Project #	Project Title	Start Date	End Date
6561	Shelterbelts and Livestock Odor Mitigation: A Socio-Economic Assessment of Pork Producers and Consumers	9/1/2001	8/31/2006
6562	The Signal Transduction Pathway for Response to Altered CO ₂	7/15/2001	7/31/2004
6563	Identify Additional Components and Nuclear Events in Stress-signaling Network	9/15/2001	9/30/2004
6564	Signal Transduction in the Expression of Disease Resistance in Soybean	9/1/2001	8/31/2003
6565	Symposium on Functions and Actions of Retinoids and Carotenoids: Building in the Vision of James Allen Olson	6/15/2001	6/14/2002
6566	Symposium on Post-transcriptional Control of Gene Expression in Plants	7/1/2001	6/30/2002
6567	Research Program: Center for Designing Foods to Improve Nutrition	9/1/2001	8/31/2002
6568	Control of the Distribution of Meiotic Recombination Events in Maize	7/1/2001	6/30/2003
6569	Gene Expression in Polyploid Cotton	9/15/2001	9/14/2003
6570	Systems Analyses of the Relationships of Agriculture and Food Systems to Community Health	10/1/2001	9/30/2006
6571	Novel Approaches to New Soy Protein Ingredients with Enhanced Health Benefits	10/1/2001	9/30/2003
6572	Using Interconnected Populations to Find Quantitative Trait Loci	9/1/2001	8/31/2003
6573	Quantitative Evaluation of the Role of Water Stress in Bacterial Colonization of Leaves	9/15/2001	9/14/2004
6574	US Grown Ag-Based Industrial Lubricants Research Program	9/1/2001	11/30/2002
6575	Modeling Starch Granule Development in a Cyanobacterium	10/1/2001	9/30/2003
6576	Directed Evolution of Glucoamylase to Increase Thermostability and Substrate Specificity	11/1/2001	10/31/2005
6577	The Proteome of Photosynthetic Membranes	9/15/2001	9/30/2003
6578	Biosynthesis of the Sex Pheromone Disparlure in the Gypsy Moth	10/1/2001	6/30/2004
6579	Mentoring Model for HACCP Implementation in School Foodservice Operations	9/15/2001	9/30/2004

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Iowa Project #	Project Title	Start Date	End Date
6580	A Land Grant Network to Enhance Tribal College Community Natural Resources Education Programs	9/15/2001	9/14/2006
6581	Developing a Virtual Reference Desk for Consumers and Foodservice Operators	9/15/2001	9/30/2005
6582	Charting the Course for Rural and Community Prosperity	6/1/2001	12/16/2003
6583	Business Networks and Rural Community Economic Vitality	9/15/2001	9/14/2006
6584	Integrated Organic Weed Management Systems for Limited Resource and Family Farms	9/15/2001	9/14/2006
6585	Identification of Molecular Mechanisms Repressing Skeletal Muscle Growth	12/1/2001	11/30/2005
6586	Light Seed weight and Emergence Timing Effects on Weed Response to Nitrogen	12/1/2001	11/30/2004
6587	Novel Sampling Techniques for Refined QTL Analysis in Complex Pedigrees	12/15/2001	12/31/2006
6588	How Do Structured Out-of-School Experiences Contribute to Positive Youth Development	10/1/2001	9/30/2004
6589	Animal Manure and Waste Utilization, Treatment, and Nuisance Avoidance for a Sustainable Agriculture	10/1/2001	9/30/2007
6590	Impact Analysis and Decision Strategies for Agricultural Research	10/1/2001	9/30/2006
6591	Development and Evaluation of TMDL Planning and Assessment Tools and Processes	10/1/2001	9/30/2007
6592	Sources, Dispersal and Management of Stable Flies on Grazing Beef and Dairy Cattle	10/1/2001	3/31/2005
6593	Validating a Comprehensive IPM Program for Sooty Blotch and Flyspeck on Apples	4/1/2002	3/31/2004
6594	Midwest Poultry Research Program	6/1/2002	5/31/2003
6595	Center for Designing Foods to Improve Nutrition	9/1/2002	8/31/2003
6596	Blocking Anhydrous Methamphetamine Production	6/1/2002	5/31/2003
6597	International Competitiveness & Marketability of Midwest Agri-business Products	1/1/2002	6/30/2005
6598	Agriculture, Natural Resource Management and Community Building North Central Regional Center for Rural Development	7/1/2002	6/30/2003

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Iowa Project #	Project Title	Start Date	End Date
6599	Protein Utilization: Use of Enzymes to Enhance Soybean Ingredients In Food and Industrial Products	9/1/2002	8/31/2003
6600	CARD Agricultural Trade Analysis	7/1/2002	6/30/2004
6601	Hoop Barns for Livestock: An Alternative Sustainable Housing System	7/1/2002	6/30/2005
6602	Population Biology of Sex Ratio Variation in Turtles with Environmental Sex Determination	3/15/2007	2/28/2013
6603	Implementing Innovative Tactics for Management of Diseases, Insects, and Weeds in Partnership with Cucurbit Growers	7/1/2002	6/30/2006
6604	Understanding Weed Dynamics in Contrasting Crop Rotation Systems: Combining a Pulse/Chase Field Experiment with Matrix Models	9/1/2002	8/31/2006
6605	Prevention of Fatty Liver in Dairy Cows by Glucagon and Glycerol	9/1/2002	8/31/2005
6606	Genetic and Genomic Dissection of Male Fertility Restoration in Maize	9/1/2002	8/31/2004
6607	Effect of Dietary and Irradiation Interventions on the Pathogen Reduction and Quality of Turkey Meat	9/1/2002	8/31/2006
6608	Food Safety Practices and HACCP Implementation in Assisted Living for the Elderly	9/15/2002	9/14/2007
6609	Systematic Risk and the Failure of Incentives in Food Systems	12/1/2002	11/30/2004
6610	Assessment and Prediction of the Fate of Nitrate in Re-Established Riparian Buffers	9/1/2002	8/31/2006
6611	Coordinated Regulation of Host Gene Expression in Response to Viral Infection	9/1/2002	8/31/2006
6612	Network Analysis for Communities	12/1/2002	11/30/2005
6613	Sites of Action for Novel Growth Hormone Secretagogues in Pigs	11/15/2002	11/14/2006
6614	Heartland Integrated Water Quality Coordination Initiative	9/15/2002	9/14/2004
6615	Structure and Function of Nonsymbiotic Plant Hemoglobins	9/15/2002	9/14/2004
6616	Key Proteins Integrating the Myofibrils within Developing and Adult Muscle Cells	11/1/2002	10/31/2007
6617	Stress Factors of Farm Animals and Their Effects on Performance	10/1/2001	9/30/2006

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Iowa Project #	Project Title	Start Date	End Date
6618	Genetics and Functional Genomic Approaches to Improve Production and Quality of Pork	10/1/2002	9/30/2007
6619	Metabolic Relationships in Supply of Nutrients for Lactating Cows	10/1/2002	9/30/2007
6620	Methods to Increase Reproductive Efficiency in Cattle	10/1/2002	9/30/2007
6621	Germ Cell Development, Migration, and Programmed Cell Death	1/1/2003	12/31/2009
6622	Operation of Food Irradiator	7/1/2002	8/31/2004
6623	Genetic Selection and Crossbreeding to Enhance Reproduction and Survival of Dairy Cattle	10/1/2002	10/30/2007
6624	Sustainable Local Food Systems in a Globalizing Environment: Forces, Response, Impacts	10/1/2002	9/30/2007
6625	Enhancing the Competitiveness of U.S. Beef	10/1/2002	9/30/2007
6625	Enhancing the competitiveness of U.S. Meats	10/12/2002	9/30/2002
6626	Management Systems to Improve the Economic and Environmental Sustainability of Dairy Enterprises	10/1/2002	9/30/2007
6627	Rural Communities, Rural Labor Markets and Public Policy	10/1/2002	9/30/2007
6628	Biological Control of Arthropod Pests and Weeds	1/1/2004	9/30/2005
6629	Interpreting Cattle Genomic Data: Biology, Applications and Outreach	10/1/2002	9/30/2007
6630	Landscape Ecology of Whitetailed Deer in Agro-Forest Ecosystems: A Cooperative Approach to Support Management	10/1/2002	9/30/2008
6631	Breeding and Genetics of Forage Crops to Improve Productivity, Quality, and Industrial Uses	10/1/2002	9/30/2008
6632	Benefits and Costs of Natural Resources Policies Affecting Public and Private Lands	10/1/2002	9/30/2007
6633	Development and Analysis of Risk Management Tools for Farmers	1/1/2003	12/31/2007
6634	Dynamic Soybean Pest Management for Evolving Agricultural Technologies and Cropping Systems	10/1/2002	9/30/2007
6635	Regulation of Photosynthetic Processes	10/1/2002	9/30/2007
6636	Hoop Barns for Livestock: An Evolving Housing System	7/15/2003	7/14/2006
6637	International Competitiveness and Marketability of Midwest Agribusiness Products	8/1/2003	7/31/2006
6638	Mastitis Resistance to Enhance Dairy Food Safety	10/1/2002	9/30/2007

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Iowa Project #	Project Title	Start Date	End Date
6639	Enteric Diseases of Swine and Cattle: Prevention, Control, and Food Safety	10/1/2002	9/30/2007
6640	Enhancement of the Safety of Pork Products	7/1/2003	6/30/2006
6641	Symposium on transportation, recombination and application to Plant Genomics	6/1/2003	5/31/2004
6642	QTL Dissection of Variance Sources for Long-Term Selection	9/1/2003	8/31/2007
6643	Enzyme Modification to Enhance Soy Protein Ingredients in Food and Industrial Products	9/1/2003	8/31/2004
6644	Evaluation of Occupational Carrying Tasks for Farm Youth	9/1/2003	12/31/2008
6645	Transcriptional Control of the Competence Phase in Shoot Development	9/1/2003	8/31/2006
6646	North Central Regional Center for Rural Development	8/1/2003	7/30/2004
6647	Agricultural Trade Analysis	9/1/2003	8/31/2005
6648	Fatty Liver in Transition Dairy Cows	6/1/2003	9/30/2010
6649	Response to Shocks: A Longitudinal Study of Rural Communities' Quality of Life	9/1/2003	8/31/2006
6650	Molecular Genetics of Cyst Nematode-Arabidopsis Interactions	9/15/2003	9/14/2006
6651	Basement Membranes, Baculovirus Dissemination and the Insect Immune Response	8/1/2003	7/31/2007
6652	Food Irradiation IA	8/1/2003	7/31/2005
6653	Metabolic Mechanisms by Which the Orexigenic Peptide Ghrelin Stimulates Feed Intake in Ruminants		
6654	Prioritizing Opportunities to Reduce Foodborne Disease	9/15/2003	3/14/2007
6655	Post-Packaging Irradiation Combined with Modified Atmosphere Packaging for Control of Bacterial Pathogens on Meat Products	9/15/2003	9/14/2008
6656	Validating and implementing IPM alternatives to conventional management of the sooty blotch and flyspeck complex on apples	9/15/2003	9/14/2006
6657	Function of Juvenile Hormone Esterase Binding Protein	2/1/2003	1/31/2008
6658	Medical entomology; Interactions between the insect-stage of insect-vectored parasites and their vertebrate hosts	12/1/2003	11/30/2009

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Iowa Project #	Project Title	Start Date	End Date
6659	The Economics of Higher-generation GM Crops: Market Failures and Policy Options	1/1/2004	8/31/2006
6660	Influence of Protein Oxidation on Mechanisms Governing the Calpain System and Meat Tenderness	11/15/2003	11/14/2008
6661	Development of Analytical Techniques for Environmental Detection and Quantification of the Bt Toxin from Transgenic Corn	9/15/2003	9/14/2007
6662	Plant Biotechnology-Iowa: Technologies to Recover Recombinant Proteins from Plants for Use as Therapeutics and Industrial Enzymes	9/15/2003	9/30/2005
6663	Biotechnology Test Production: Technologies to Purify Recombinant Proteins from Plants for Use as Therapeutics and Industrial Enzymes	9/15/2003	9/14/2005
6664	Global BYDV/CYDV Sequencing Project	2/15/2004	2/14/2008
6665	Biological and Physical Determinants of Outcrossing by Adventitious Corn Pollen	9/15/2003	9/14/2007
6666	Rural Community Development and Rural Policy Analysis	8/1/2003	7/31/2008
6667	Verification of Odor Dispersion Modeling for Siting of Livestock and Poultry Production Systems	2/1/2004	1/31/2007
6668	Food and Agricultural Policy Research Institute	7/1/2003	6/30/2006
6669	Food Chain Economic Analysis	9/15/2003	9/14/2006
6670	Soybean Rust: A New Pest of Soybean Production	10/1/2002	9/30/2004
6671	Rural Low-Income Families: Tracking their Well-being and Function in an Era of Welfare Reform (NC223)	10/1/2003	9/30/2008
6672	Improved Crop and Livestock Management for Protecting the Non-Glaciated Upper Mississippi Valley	10/1/2003	9/30/2008
6673	Virus-Based Strategies for Insect Pest Management	9/1/2009	8/31/2015
6674	Statistical Consulting Service	9/1/2008	8/31/2018
6675	The Science and Engineering for a Biobased Industry and Economy	10/1/2002	9/30/2007
6676	Identifying Molecular Genetic Mechanisms Controlling Pig Litter Size: Expression Profiling of Peri-Implantation Conceptus and Endometrium	1/1/2004	12/31/2008
6677	Modeling the source of gaseous emissions from animal feeding operations	7/1/2004	9/30/2006

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Iowa Project #	Project Title	Start Date	End Date
6678	Vegetative Environmental Buffers to Mitigate Odor and Aerosol Pollutants Emitted from Poultry Production Sites	5/1/2004	4/30/2008
6679	Genetic control of response to Salmonella in chickens	2/1/2004	1/31/2008
6680	Advanced Technologies for the Genetic Improvement of Poultry	10/1/2003	9/30/2008
6681	Genetic Bases for Resistance and Immunity to Avian Diseases	10/1/2003	9/30/2008
6682	Potential benefits of wetland filters for tile drainage systems: Impact on nitrate loads to Mississippi River subbasins	5/1/2004	1/31/2006
6683	Magnetic Capture Hybridization and Real-time Multiplex PCR for the Detection of Seedborne Pathogen	7/1/2004	6/30/2009
6684	Exzyme-assisted aqueous processing of soybeans	9/1/2004	8/31/2006
6685	Hoop Barns for Livestock: An Innovative Housing System	9/15/2004	9/14/2007
6686	International Competitiveness and Marketability of Midwest Agribusiness Products	7/1/2004	6/30/2007
6687	Germ cell and embryo development and manipulation for improvement of livestock	10/1/2004	9/30/2009
6688	Agricultural Trade Analysis	7/1/2004	6/30/2006
6689	Environmental and Genetic Determinants of Seed Quality and Performance	10/1/2003	9/30/2008
6690	North Central Regional Center for Rural Development	7/1/2004	6/30/2006
6691	Midwest poultry research program	8/1/2004	7/31/2007
6692	Influence of cropping and weed management systems on weed communities	7/1/2004	6/30/2006
6694	Southeast Iowa's Food Safety and Animal Handling Procedures for Meat Processors and Livestock Producers	9/1/2004	8/31/2009
6695	Genetic and Genomic Dissection of Male Fertility and Fertility Restoration in Maize	8/15/2004	8/14/2008
6696	Measurement and Mitigation of Odor and Air Emissions from Concentrated Animal Feeding Operations	7/15/2004	7/14/2006
6697	B-Glucan Mediated Impacts of Genotype and Processing on Oat Nutritional and Sensory Function	9/1/2004	8/31/2007
6699	Management of pest insects in corn	7/1/2004	6/30/2009

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