

Title:	Integrated poultry, livestock and agroforestry production and training for new and beginning farmers and ranchers		
Sponsoring Agency	NIFA	Project Status	COMPLETE
Funding Source	Non Formula	Reporting Frequency	Annual
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Project No.	ARK02294	Proposal No.	2010-03143
Project Start Date	09/01/2010	Project End Date	08/31/2013
Reporting Period Start Date	09/01/2010	Reporting Period End Date	08/31/2013
Submitted By	Priscilla Griffin	Date Submitted to NIFA	11/26/2013

Program Code: BFRDP

Program Name: Beginning Farmer and Rancher

Project Director

Daniel Donoghue

479-575-2913

ddonogh@uark.edu

Recipient Organization

SAES - UNIVERSITY OF ARKANSAS

2301 S UNIVERSITY AVE

LITTLE ROCK, ARKANSAS 72204-4940

DUNS No. 140031639

Performing Department

Poultry Science

Co-Project Directors

Burke, Joan

Fanatico, Anne

Donoghue, Anne

Goodwin, Harold

Gekara, Ondieki

Kuepper, George

Hale, Margo

Raper, Randy

Burner, David

Reyes-Herrera, Ixchel

Departments

{NO DATA ENTERED}

Goodnight Family Sustainable Development

Program

Southern Plains Area

Agriculture Economics & Agribu

Agriculture

Kerr Center for Sustainable Ag

USDA

Poultry Science

Non-Technical Summary

Unfortunately, few new and beginning farmers have adequate farm skills and background to initiate and maintain viable agricultural ventures. To address this need we have created a unique learning and production program that uses elements and strategies that are easy and inexpensive to implement, keep and manage while providing fast returns, multiple marketing opportunities (poultry, small ruminants and agroforestry) and using ecologically and financially sustainable strategies. To this end we gathered a team of educational and research institutions, non governmental agencies and local farmers to develop: 1) versatile training materials that can be used through multiple delivery strategies, including bilingual offerings of online educational modules, and printable materials (English and Spanish); 2) experiential opportunities at workshops, demonstration farms and internship programs; and 3) custom networking and mentoring systems to effectively support the new generation of farmers and ranchers in the Southern region of the country, particularly in Arkansas and Oklahoma. This project will particularly target minority farmers that are highly relevant to the structure of rural Arkansas: women, African American and Latino farmers, and military veterans. In Arkansas about 28% of farm operators are women and most of them are the principal or only operator in the farm, while the rest have significant participation in the activities of the farm while having a second job outside the farm and raising a family. These women have needs and priorities that are mostly different from their male peers and thus require programs that address their special characteristics. Two growing minorities in the state are the African American and Latino population. Both of these groups generally come from rural backgrounds and are interested in developing their own agricultural enterprises. Since 2004, the number of Latino farm operators grew by 10% and currently own and operate over 55,000 farms in the country. Unfortunately, despite their interest in this type of jobs, most of them have language and cultural barriers that hinder their success by limiting their enrollment in agricultural courses, their understanding of American agricultural laws and regulatory

requirements, as well as teaching, advising and financing opportunities. Studies have shown that a large percentage of enlisted young adults come from rural America, and at the end of their military service they would likely try to return to their place of origin and reincorporate to traditional local activities, if given the opportunity. Although many returning veterans would like to farm, there has not been the opportunity to learn these skill because of lack of internship opportunities or educational programs tailored to the need of returning serviceman and women. All of these distinct population groups require training opportunities that are specifically created to overcome cultural, language and physical hurdles. This dynamic program allows creating specific training opportunities and networking systems, for these and other populations of new and beginning farmers and ranchers.

Accomplishments

Major goals of the project

The long term goal of this project is to develop a personalized comprehensive and integrated educational program that provides new and beginning farmers and ranchers with relevant information and practical skills to create an individual plan to initiate, maintain, advance, diversify and succeed in their new or beginning agricultural enterprises. We have created a unique learning and production program that uses elements and strategies that are easy and inexpensive to implement, keep and manage while providing fast returns, multiple marketing opportunities (poultry, small ruminants and agroforestry) and using ecologically and financially sustainable and profitable strategies. Our specific objectives are to: 1) develop a comprehensive modular outreach/training program that provides new and beginning farmers with relevant knowledge and tools to operate efficient and sustainable farms and ranches, focused primarily on integrated poultry, livestock and agroforestry systems; including specialized materials for the Spanish speaking community and returning veterans; 2) implement various delivery strategies for our program including a permanently available asynchronous eLearning system, publications, factsheets and worksheets; including specialized strategies to satisfy the specific needs of the Spanish speaking community and returning veterans; 3) offer unique experiential learning opportunities (such as workshops, webinars, conferences and internships) for new and beginning farmers in demonstration and production farms located throughout the state of Arkansas at the participating institutions; and 4) offer custom networking and mentoring strategies to provide an effective support system for new and beginning farmers, particularly for the subpopulations targeted in this grant. We expect that through the combination of an educational system, experiential opportunities and a support system, we will provide enough information, experience and skills so that nearly all participants in the project can make informed decisions and modifications relating to their agricultural business to improve its sustainability and profitability. We expect that the majority of the new and beginning farmers and ranchers that use the online materials will participate in online forums and online mentoring activities and benefit from the creation of a support network system of participants. Also we expect that the majority of the participants will be able to create a personalized farm plan to initiate, improve and/or diversify their agricultural enterprises using the specific strategies promoted in this program. Of all the new and beginning farmers and ranchers that participate in the internship, mentorship and networking components of our program, we anticipate that the majority of those participants will observe a direct increase in the efficiency, diversity and sustainability of their enterprise. We anticipate that our efforts to serve minority producers such as African Americans, Latinos and returning veterans in this program will also improve significantly their incorporation to their communities and networks of farmers and ranchers in their localities.

What was accomplished under these goals?

Our project was concentrated on serving military veterans who had served in Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF). Over the course of the project we have trained approximately 300 veterans in the Southern region, including Arkansas and Missouri, through workshops, internships, research and training and an additional 650 veterans nationally through the Farmer Veteran Coalition (FVC).

Goal 1- Online Farmer Training Course

Through our online Small Farm Training Course a total of 26,823 individuals participated in this program. This program is open to all individuals however we targeted the training and promoted the course to veterans, Latino and Spanish speaking individuals, women in agriculture, African Americans and economically and educationally disadvantaged groups. To date 16,059 individuals have accessed the course in English and 10,764 in Spanish.

Goal 2- Internships and On-Farm Training

Through our veteran intern program we totaled 4,900 hours of internship training hours. We believe military veteran mentorship was essential to the success of our intern program. Interns focused on poultry and livestock production, with some specialty crop and horticulture experiences based on need. We have multiple internship opportunities on research farms, university sites and working small farms. Veterans interned on 3 local farms-Across the Creek Farm (Terrell Spencer); Ames Orchard and Nursery (Kim Daniels) and Dickey Farms (David and Deanna Dickey). There is interest from private companies to continue the internship program after the completion of this award.

Training Materials

Development of self-study educational farming course in English and Spanish

A total of 35 independent training modules have been prepared as part of a self-study educational program to provide information on topics such as Business development (8 modules), Farm safety (4 modules), Poultry production (11 modules), Livestock production (4 modules), Agroforestry (3 modules) and Sustainable agriculture (5 modules). New farmers and ranchers can develop their own training program or work with the team to customize their program.

All these modules are available at <https://attra.ncat.org/uofa/> and have been edited and improved based on feedback from users, during this project. All these same modules have been translated to Spanish and are available in the Spanish page of ATTRA (<https://attra.ncat.org/espanol/uofa/>). We have promoted the course with all collaborators, extension personnel and their networks and among the different networks of beginning farmers involved in the project and other organizations that serve small and beginning farmers and ranchers. The Small Farms Training Course is also available through the Farmer Veteran Coalition website.

Through our online Small Farm Training Course a total of 26,823 individuals participated in this program with 16,059 accessions in English and 10,764 in Spanish. Data from users of our online farmer educational program showed that participants are interested and utilizing all of our training modules with poultry production and business development modules having the largest number of students. Courses on sustainable production, small ruminant, agroforestry and specialty crops are also in high demand in both languages.

What opportunities for training and professional development has the project provided?

Internships and On-Farm Training

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Veteran Networking Programs-

Armed to Farm Veteran Sustainable Livestock Workshop, May 20-22, 2011, Fayetteville, AR. Participants: 15 war veterans, 2 active duty, 5 women and 2 Latinos (5 brought family members).

In collaboration with the National Center for Appropriate Technology (NCAT) we participated in 2 workshops that specifically included military veterans Farm foundations: Planning for success April 2012 and May 2012; (91 participants; 16 veterans) and one for the National Guard (45 active military personnel). We sponsored 2 female military veterans to attend the First National Conference for Women Veterans in Agriculture (June 2012); led a veteran networking session and sponsored 55 veterans to attend the Southern Sustainable Working Group Small Farms Meeting in Little Rock Jan. 2013; and hosted an Armed to Farm Boot Camp on the University of Arkansas Campus June 17-21, 2013 (28 veterans from 14 states). Veterans were housed in dorms on campus and participated in classroom lectures, on farm demonstrations and hands on training at local farms. Activities were covered by NPR station (KUAF).

Small Farm Events:

Over the course of the project we have hosted numerous workshops, seminars and conferences including: Small flock poultry production, presented to the National Guard, Fayetteville AR, Nov. 2010, (50 participants); Bird Health Awareness Seminar presented Nov. 2011 to beginning farmers and small poultry producers on topics regarding bird health/biosecurity, (Est. 75-100 participants); Poultry Slaughter Regulations presented Sept. 2011 at the Blue Ridge Workshop for Women in Ag. (40 participants); presentation on Pastured Poultry Nutrition and Breed Selection for Small Farm Production: Matching genetics to production systems. 18th Ann. Organic Farmers School, March 2011; Extension workshops in Pine Bluff, Marianna, and Hope, AR: (10-20 participants/workshop; mostly African American farmers). Farm level biosecurity practices to minimize animal disease; Small farm livestock production in the South US, Sept. 2011, (100 participants); Hair sheep production in the Southeastern US; Workshop on Small Ruminant Production, Oct. 2011, (40 attendees/talk); Selecting the right sheep for your operation; Parasite management and organic practices for small ruminants; Organic sheep and goat production; Backyard poultry flock meeting (June 2012; 45 participants).

We joined efforts with the Arkansas Women in Agriculture (ArWiA) group to organize 4 different workshops around the state of Arkansas to serve women farmers (total 150 participants). Manure Science Review and Cooperative Extension Field Days, OH (196 participants). At University of Arkansas Pine Bluff: a field day for 50 small limited resource producers was held at the UAPB farm; on-farm consulting (15 farms - 5 of which were beginning poultry and goat producers); and 75 phone consultations to minority and at risk farmers in area.

How have the results been disseminated to communities of interest?

Development of self-study educational farming course in English and Spanish

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What do you plan to do during the next reporting period to accomplish the goals?

{Nothing to report}

Participants

Actual FTEs for this Reporting Period

Role	Faculty and Non-Students	Students within Staffing Roles			Computed Total by Role
		Undergraduate	Graduate	Post-Doctorate	
Scientist	0	0	1	0.5	1.5
Professional	0	0	0	0	0
Technical	0	0	0	0	0
Administrative	0	0	0	0	0
Other	0	0	0	0	0
Computed Total	0	0	1	0.5	1.5

Target Audience

Our project was concentrated on serving military veterans who had served in Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF). Over the course of the project we have trained approximately 300 veterans in the Southern region, including Arkansas and Missouri, through workshops, internships, research and training and an additional 650 veterans nationally through the Farmer Veteran Coalition (FVC).

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Products

Type	Status	Year Published	NIFA Support Acknowledged
Journal Articles	Accepted	2012	NO

Citation

Burner, B.M. and J. M. Burke. 2012. Survival of bristly locust (*Robinia hispida* L.) in an emulated organic silvopasture. *Native Plants J.*, 24 in press.

Type	Status	Year Published	NIFA Support Acknowledged
Journal Articles	Published	2012	NO

Citation

Ross, D.E., D.M. Burner, and D.K. Brauer. 2012. Tolerance of honeyberries to extreme low spring temperatures in the south central United States., submitted to Int. J. Fruit Sci., 8.

Type	Status	Year Published	NIFA Support Acknowledged
Journal Articles	Published	2013	YES

Citation

Gekara, O., T. Dokes, and R. Marshall. 2013. Diet modification to reduce fecal excretion of nitrogen and phosphorus in growing-finishing pigs. Amer. J. Anim. Vet. Sci. 8(4):197-202.

Type	Status	Year Published	NIFA Support Acknowledged
Journal Articles	Awaiting Publication	2014	YES

Citation

Donoghue, D.J., A. R. Mays; H. L. Goodwin; M. Hale; T. Spencer; M. O'Gorman; S. Jose; J. Burke; A. M. Donoghue. 2013. Armed to Farm: Developing training programs for military veterans in agriculture.

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2011	YES

Citation

Moyle, J.R., A.M. Donoghue, I. Reyes-Herrera, H.L. Goodwin, J.M. Burke, D.M. Burner, R.L.Raper, A.C. Fanatico, O.J. Gekara, G. Kuepper, A.Wells, T. Spencer, M. Hale, and D.J. Donoghue. 2011. Opportunities for veterans in agriculture: Development of an integrated educational and training program for new and beginning farmers and ranchers. Poultry Sci. 90:122.

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2011	YES

Citation

Reyes-Herrera, I., A.M. Donoghue, J.R. Moyle, H.L. Goodwin, J.M. Burke, D.M. Burner, R.L. Raper, A.C. Fanatico, O.J. Gekara, G. Kuepper, A. Wells, T. Spencer, M. Hale, and D.J. Donoghue, 2011. Development of a comprehensive and integrated educational program for beginning farmers and ranchers. Poultry Sci. 90 (E-Suppl. 1):47.

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2011	YES

Citation

Reyes Herrera, I., D.J. Donoghue, H.L. Goodwin, A.C. Fanatico, O. Gekara, A.M. Donoghue, J. Burke, D. Burner, R. Raper, G. Kuepper, A. Wells, and M. Hale. 2011. An educational program for training beginning farmers in sustainable poultry, livestock and agroforestry production Presented at the Southern Sustainable Agriculture Working Group" conference (January 19-22, 2011, Chattanooga, TN).

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2011	YES

Citation

Donoghue, D.J., H.L. Goodwin, I. Reyes-Herrera, A.M. Donoghue, A.C. Fanatico, R.L. Raper, J.M. Burke, D.M. Burner, O.J. Gekara, M. Hale, G. Kuepper. Integrated poultry, livestock and agroforestry production and training for new and beginning farmers and ranchers. Beginners Farmers and Ranchers Development Program, Project Director Meeting, Fort Collins, CO. Pgs. 60-62, 2011.

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2012	YES

Citation

Reyes-Herrera, I., D.J. Donoghue, P. Goeringer, H.L. Goodwin, A.C. Fanatico, T. Spencer, M. Hale, J.R. Moyle, J. Burke, D. Burner, R. Raper and A.M. Donoghue. 2012. Development of an online training course on sustainable livestock production (poultry, sheep and goats), agroforestry and integrated operation for beginning farmers. Presented at the Southern Sustainable Agriculture Working Group" conference (January 18-21, 2012, Little Rock, AR).

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2012	YES

Citation

Burke, J. 2012. Organic and grass fed sheep and goat production in the Southeastern US". Presented at the Southern Sustainable Agriculture Working Group" conference (January 18-21, 2012, Little Rock, AR).

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2012	YES

Citation

Burner, D. 2012. Bristly locust: Successful establishment in an emulated organic silvopasture". Presented at the Southern Sustainable Agriculture Working Group" conference (January 18-21, 2012, Little Rock, AR).

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2012	YES

Citation

Burner, D. 2012. Preliminary assessment of dual use bioenergy-forage potential of exotic and native grasses in Arkansas. Southern Branch American Society of Agronomy (February 5-7, 2012, Birmingham, AL)

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2013	YES

Citation

Dokes, T., and O. Gekara. J. 2013. Performance of growing-finishing pigs fed brewers rice and dried distillers brewers yeast. Anim. Sci. Vol. 91 (E-Suppl. 2):373. 2.

Type	Status	Year Published	NIFA Support Acknowledged
Conference Papers and	Published	2013	YES

Citation

Dokes, T., and O. Gekara. 2013. Replacing corn with brewers rice in swine diets and effect on performance and carcass quality of growing-finishing pigs. Pp. 3. In: American Society of Animal Science Southern Section, Orlando, FL. February 3-5.

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2013	YES

Citation

Clark, D. and J.R. Moyle. 2013. Dealing with summer heat in free range poultry. Technical Report.

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2013	YES

Citation

Clark, D., J.R. Moyle; K. Bramwell and T. Tabler. 2013. Winterization suggestions for the poultry farm. Technical Report.

Type	Status	Year Published	NIFA Support Acknowledged
Websites	Published	2012	YES

Citation

Small Farm Course

English access: <https://attra.ncat.org/uofa/>; Spanish access: <https://attra.ncat.org/espanol/uofa/>

Modules total of 68 (34 English/34 Spanish)

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2012	YES

Citation

Online Course Modules in English and Spanish

Farm Safety Modules

Part One: Tools, Equipment and Electricity; <https://attra.ncat.org/uofa/>; FarmSafetyPT1.pptx

Part Two: Livestock, Chemicals and Gases; <https://attra.ncat.org/uofa/>; FarmSafetyPT2.pptx

Part Three: Weather and Fire; <https://attra.ncat.org/uofa/>; FarmSafetyPT3.pptx

Part Four: Miscellaneous; <https://attra.ncat.org/uofa/>; FarmSafetyPT4.pptx

Seguridad en la Granja

Seguridad en la granja 1: Herramientas, equipo y electricidad; <https://attra.ncat.org/espanol/uofa/>;

Seguridad_en_la_granja_1.pptx

Seguridad en la granja 2: Animales, sustancias químicas y gases; <https://attra.ncat.org/uofa/>;

Seguridad_en_la_granja_2.pptx

Seguridad en la granja 3; Clima y fuego; <https://attra.ncat.org/uofa/>; Seguridad_en_la_granja_3.pptx

Seguridad en la granja 4; Varios; <https://attra.ncat.org/uofa/>; Seguridad_en_la_granja_4.pptx

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2012	YES

Citation

Online Course Modules in English and Spanish

Poultry Production

Chicken Breeds for Small Farms; <https://attra.ncat.org/uofa/>; SmallFarmsChickenBreeds.pptx

Meet Chicken Breeds for Small Farms; <https://attra.ncat.org/uofa/>; SmallFarmsMeatChickenBreeds.pptx

Egg Layer Breeds for Small Farms; <https://attra.ncat.org/uofa/>; SmallFarmsEggLayerBreeds.pptx

Safe Egg Handling; <https://attra.ncat.org/uofa/>; SafeEggHandling.pptx

Home Poultry Processing, Part One; <https://attra.ncat.org/uofa/>; HomePoultryProcessingPT1.pptx

Home Poultry Processing, Part Two; <https://attra.ncat.org/uofa/>; HomePoultryProcessingPT2.pptx

Pastured Poultry; <https://attra.ncat.org/uofa/>; PasturedPoultry.pptx

Molting in Layers; <https://attra.ncat.org/uofa/>; MoltingInLayers.pptx

Pastured Layers; <https://attra.ncat.org/uofa/>; PasturedLayers.pptx

Pastured Duck Production; <https://attra.ncat.org/uofa/>; Pasture_duck_production.pptx

Producción avícola

Manejo sanitario del huevo; <https://attra.ncat.org/uofa/>; Manejo_sanitario_del_huevo.pptx

Proteja la salud de sus aves; <https://attra.ncat.org/uofa/>; Proteja_la_salud_de_sus_aves.pptx

Razas de pollo para productores pequeños; <https://attra.ncat.org/uofa/>;

Razas_de_pollo_para_productores_pequeños.pptx

Razas de pollo para producción de carne; <https://attra.ncat.org/uofa/>; Razas_de_pollo_para_producción_de_carne.pptx

Producción de pollo en pastoreo; <https://attra.ncat.org/uofa/>; Produccion_de_pollo_en_pastoreo.pptx

Razas de pollo para producción de huevo; <https://attra.ncat.org/uofa/>; Razas_de_pollo_para_produccion_de_huevo.pptx
 Gallinas ponedoras de huevo en pastoreo; <https://attra.ncat.org/uofa/>; Gallinas_ponedoras_de_huevo_en_pastoreo.pptx
 Producción de patos en pastored; <https://attra.ncat.org/uofa/>; Produccion_de_patos_en_pastored.pptx
 Procesamiento casero de canales de pollo Parte 1; <https://attra.ncat.org/uofa/>;
 Procesamiento_casero_de_canals_de_pollo_Parte1.pptx
 Procesamiento casero de canales de pollo Parte 2; <https://attra.ncat.org/uofa/>;
 Procesamiento_casero_de_canals_de_pollo_Parte2.pptx
 Pelecha o desplume en gallinas para huevo; <https://attra.ncat.org/uofa/>;
 Pelecha_o_desplume_en_gallinas_para_huevo.pptx

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2012	YES

Citation

Online Course Modules in English and Spanish

Agroforestry

What is Agroforestry?; <https://attra.ncat.org/uofa/>; WhatIsAgroforestry.pptx

Agroforestry Practices; <https://attra.ncat.org/uofa/>; AgroforestryPractices.pptx

Agroforestry Riparian Buffers and Planning; <https://attra.ncat.org/uofa/>; Agroforestry_iparian_buffers_and_planning

Agroforesteria

Principios de agroforesteria; <https://attra.ncat.org/uofa/>; Principios_de_agroforesteria.pptx

Practicas de agroforesteria; <https://attra.ncat.org/uofa/>; Practicas_de_agroforesteria.pptx

Producción en silvopastoreo; <https://attra.ncat.org/uofa/>; Produccion_en_silvopastoreo.pptx

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2012	YES

Citation

Online Course Modules in English and Spanish

Business Development

Start a Farm; <https://attra.ncat.org/uofa/>; StateAFarm.pptx

Developing a Business Plan; <https://attra.ncat.org/uofa/>; DevelopingBusinessPlan.pptx

Developing a Personal Plan; <https://attra.ncat.org/uofa/>; DevelopingPersonalPlan.pptx

Financial Record Keeping; <https://attra.ncat.org/uofa/>; FinancialRecordKeeping.pptx

The Balance Sheet and Statement of Cash Flows; <https://attra.ncat.org/uofa/>; BalanceSheetStatements.pptx

Arkansas's Right-to-Farm Law; <https://attra.ncat.org/uofa/>; Right2Farm_Arkansas.pptx

Legal Issues in Food Safety; <https://attra.ncat.org/uofa/>; FoodSafety_Legal.pptx

Contracting Issues in Agriculture; <https://attra.ncat.org/uofa/>; Contracting_issues_in_Agriculture.pptx

Desarrollo de Negocios

Aspectos legales sobre sanidad alimenticia en la granja; <https://attra.ncat.org/uofa/>;

Aspectos_legales_sobre_sanidad_alimenticia_en_la_granja.pptx

El derecho a la producción Agrícola en Arkansas; <https://attra.ncat.org/uofa/>;

El_derecho_a_la_produccion_Agricola_en_Arkansas.pptx

El plan de negocios; <https://attra.ncat.org/uofa/>; El_plan_de_negocios.pptx

Contratos en agricultura; <https://attra.ncat.org/uofa/>; Contratos_en_agricultura.pptx

Como empezar un negocio Agrícola; <https://attra.ncat.org/uofa/>; Como_empezar_un_negocio_Agricola.pptx

El desarrollo de un plan personal; <https://attra.ncat.org/uofa/>; El_desarrollo_de_un_plan_personal.pptx

La hoja de balance y flujos de capital; <https://attra.ncat.org/uofa/>; La_hoja_de_balance_y_flujos_de_capital.pptx

Registros financieros; <https://attra.ncat.org/uofa/>; Registros_financieros.pptx

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2013	YES

Citation

Online Course Modules in English and Spanish

Livestock

The Basics of Goat Production; <https://attra.ncat.org/uofa/>; GoatProductionsBasics.pptx

Goat Production and in Pasture; <https://attra.ncat.org/uofa/>; GoatProductionPasture.pptx

Common Health in Goats and Sheep <https://attra.ncat.org/uofa/>; Common_health_problems_in_small_ruminants.pptx

Sheep Production; <https://attra.ncat.org/uofa/>; Sheep_production.pptx

Producción de cabras y borregos

Producción de cabras en pastoreo; <https://attra.ncat.org/uofa/>; Producción_de_cabras_en_pastoreo.pptx

Producción de cabras; <https://attra.ncat.org/uofa/>; Producción_de_cabras.pptx

Producción de ovejas; <https://attra.ncat.org/uofa/>; Producción_de_ovejas.pptx

Problemas de salud communes en pequeños ruminates; <https://attra.ncat.org/uofa/>;

Problemas_de_salud_communes_en_pequeños_ruminates.pptx

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2013	YES

Citation

Online Course Modules in English and Spanish

Sustainable Agriculture

Water; <https://attra.ncat.org/uofa/>; SustainableAgricultureWater.pptx

Soil; <https://attra.ncat.org/uofa/>; SustainableAgricultureSoil.pptx

Integrated Pest Management Principles; <https://attra.ncat.org/uofa/>; IntegratedPestManagementPrinciples.pptx

Sustainable Agriculture; <https://attra.ncat.org/uofa/>; Sustainable_agriculture.pptx

Integrated Farms; <https://attra.ncat.org/uofa/>; Integrated_farms.pptx

Agriculture Sustentable

Agricultura sustentable – Suelo; <https://attra.ncat.org/uofa/>; AgriculturaSustentableSuelo.pptx

Agricultura sustentable – Agua; <https://attra.ncat.org/uofa/>; AgriculturaSustentableAgue.pptx

Principios de manejo integrado de plagas; <https://attra.ncat.org/uofa/>; Principios_de_manejo_integrado_de_plagas.pptx

Agriculture sustentable; <https://attra.ncat.org/uofa/>; Agriculture_sustentable.pptx

Granjas integradas; <https://attra.ncat.org/uofa/>

Other Products**Product Type**

Educational Aids or Curricula

Description

Small Farms Training Course

Changes/Problems

{Nothing to report}