



Extension Specialist  
Curriculum Vitae

## **I. FACULTY MEMBER**

**A. NAME:** *Megan Clayton (Dominguez)*

**B. TITLE:** *Associate Professor & Extension Range Specialist*

**C. DEPARTMENT:** *Rangeland, Wildlife, and Fisheries Management*

**D. DATE:** *April 30, 2020*

**E. DATE OF INITIAL APPOINTMENT:** *September 1, 2010*

**F. DATE OF LAST PROMOTION:** *September 1, 2016*

## **II. POSITION DESCRIPTION (100% EXTENSION)**

### **A. PROGRAM PLANNING**

- Assist County Extension Agents with county-based program planning
- Assist in planning of educational programs, symposiums and workshops on a county, district, state, regional, and national level
- Assist Department of Rangeland, Wildlife, and Fisheries Management (RWFM) with planning and priority emphasis of Extension programs

### **B. FACULTY AND STAFF TRAINING AND ASSISTANCE**

- Provide subject matter expertise and training to individual county agents as requested
- Provide subject matter expertise and training to groups of county agents through in-service training as needs arise

### **C. IMPLEMENTATION OF EDUCATIONAL PROGRAMS**

- Develop programs and assist county agents with county, multi-county, and district based educational programs to address priorities and clientele needs
- Transfer new technologies through a variety of educational activities including individual consultation, group teaching methods, demonstrations, and field tours
- Develop and distribute Extension publications and support materials including newsletters, publications, teaching materials, and use of mass media

- Develop and refine new technologies through applied research and report on findings through the appropriate channel(s)

#### ***D. FINANCIAL AND PROGRAM SUPPORT OF EXTENSION ACTIVITIES***

- Evaluate, communicate, and report significant Extension activities within the RWFM program unit
- Communicate Extension activities to the general public
- Solicit appropriate industry-based sponsorships to support Extension educational programs and activities
- Actively seek outside grant funding sources when appropriate

#### ***E. COORDINATION AND COOPERATION***

- Coordinate, where appropriate, with other Extension specialists within Districts 11 and 12, and statewide when appropriate
- Coordinate with other Extension specialists within the RWFM Program Unit
- Develop a working relationship with appropriate industry, agency, and other resource groups
- Coordinate with Extension, Research, Teaching, and Regulatory staff from within and outside of Texas when appropriate

#### ***F. OTHER DUTIES***

- Remain active in appropriate professional societies
- Serve on internal and professional committees when appropriate
- Actively pursue personal professional improvement
- Respond positively to supervision

### **III. EDUCATION**

Texas A&M University – Kingsville  
Kingsville, Texas  
Ph.D. (Wildlife Science), August 2009

Texas A&M University – Kingsville  
Kingsville, Texas  
M.S. (Range & Wildlife Management), December 2006

Texas A&M University  
College Station, Texas  
B.S. (Wildlife & Fisheries Sciences), May 2003

## IV. REPORT OF ASSIGNED EXTENSION ACTIVITIES

### A. EXTENSION AWARDS AND RECOGNITION

**Table 2.** Awards and recognition directly related to Extension activities.

Year	Award/Recognition
2019	Nominated for Texas A&M Association of Former Students Distinguished Achievement Award in University Level Extension, Outreach, Continuing Education and Professional Development
2018	<b>Vice Chancellor's Award in Excellence for Diversity: Bennett Trust Women's Conference Team</b>
2018	District 12 Specialist Outstanding Support Award
2018	Nominated for Texas A&M Association of Former Students Distinguished Achievement Award in University Level Extension, Outreach, Continuing Education and Professional Development
2017	Nominated for Texas A&M Association of Former Students Distinguished Achievement Award in University Level Extension, Outreach, Continuing Education and Professional Development
2015	Texas County Agricultural Agents Association Specialist of the Year

### B. EDUCATION IN SUPPORT OF COUNTY EXTENSION PROGRAMS

#### 1. Contacts in direct support of County Extension programs

**Table 6.** Yearly contacts with clientele through office visits, work sites, phone calls, emails, and during formal presentations in direct support of County Extension programs. Presentation totals qualifying for a Texas Department of Agriculture Pesticide Applicator Continuing Education Unit (CEU) and the number of counties Dr. Clayton supported with presentations are indicated in the far-right columns.

Year	Office	Site	Phone	Email	Presentation Contacts	Presentation Contact Hours	County CEU Support	
							# Presentations	# Counties
2020	0	40	34	431	536	561	9	10
2019	5	125	111	828	2109	1963	35	36
2018	11	80	73	661	2576	1266.90	28	24
2017	8	173	102	1171	1448	1579.15	31	44
2016	5	154	116	1129	1995	2023	28	51
2015	3	152	106	955	2000	2220.75	39	54
2014	2	109	48	348	841	747.75	41	20
2013	3	263	86	243	1422	874	38	28
2012	16	144	98	259	593	450	30	23
2011	17	158	90	200	433	431	38	30
2010					267	247	9	10
<b>TOTAL</b>	<b>70</b>	<b>1,398</b>	<b>864</b>	<b>6,225</b>	<b>14,220</b>	<b>12,364</b>	<b>326</b>	<b>330</b>

## 2. Formal Presentations for County Extension programs by topic

**Table 7.** List of formal presentation topics made during County Extension programs by main topic. Presentation totals qualifying for a Texas Department of Agriculture Pesticide Applicator Continuing Education Unit (CEU) are indicated in the far-right column.

Year	Topics						Total	Pesticide CEU Eligible
	Noxious Brush/Weed Management	Pesticide Safety	Range/Forage Management	Soil/Plants	Wildlife	UAV/Drones		
2020	5	0	0	2	0	2	9	5
2019	16	0	4	10	1	4	35	30
2018	14	3	5	2	1	3	28	19
2017	11	1	6	4	2	7	31	17
2016	8	4	8	4	3	1	28	18
2015	15	6	8	9	1		39	20
2014	17	2	14	7	1		41	22
2013	19	2	9	7	1		38	29
2012	10	2	14	1	3		30	28
2011	16	2	14	2	4		38	32
2010	4	1	3	0	1		9	6
<b>Total</b>	<b>135</b>	<b>23</b>	<b>85</b>	<b>48</b>	<b>18</b>	<b>17</b>	<b>326</b>	<b>226</b>

### C. EDUCATION OUTSIDE OF COUNTY EXTENSION PROGRAMS

#### 1. Contacts outside of County Extension programs

**Table 8.** Yearly contacts with clientele through office visits, work sites, phone calls, emails, and during formal presentations *outside* of direct County Extension programs or support. Years shaded grey are contacts prior to last promotion.

Year	Office	Site	Phone	Mail/Email	Presentation Contacts	Contact Hours	Total Presentations
2020	0	36	17	509	579	313.58	8
2019	30	164	106	1852	1672	1346.15	32
2018	3	114	93	982	1618	1156.7	29
2017	8	202	49	845	1994	1391.43	33
2016	9	91	62	643	971	913.75	19
2015	1	144	88	807	891	743.05	23
2014	15	151	119	1307	1793	2197.5	26
2013	19	189	220	1183	1821	2156	19
2012	31	311	63	743	2207	1802	18
2011	13	217	105	410	2005	2028	14
2010					267	247	2
<b>Total</b>	<b>129</b>	<b>1,619</b>	<b>922</b>	<b>9,281</b>	<b>15,818</b>	<b>14,295</b>	<b>223</b>

#### 2. Invited or Specialist-initiated presentations/events outside of County Extension programs by topic

**Table 9.** List of formal presentation topics made *outside* of County Extension programs by main topic. Presentation totals qualifying for a Texas Department of Agriculture Pesticide Applicator Continuing Education Unit (CEU) are indicated in the far-right column.

Year	Topics						Total	Pesticide Applicator CEU Eligible
	Youth	Noxious Brush/Weed Management	Range	Soil/Plants	Wildlife	UAV/Drone		
2020	0	2	5	0	1	0	8	3
2019	1	8	9	5	3	6	32	6
2018	3	6	8	4	2	6	29	6
2017	2	7	9	3	4	8	33	12
2016	1	5	7	2	3	1	19	3
2015	2	9	8	1	3		23	4
2014	2	4	11	7	2		26	7
2013	6	5	5	1	2		19	8
2012	2	5	7	3	1		18	5
2011	4	1	6	1	2		14	2
2010	0	0	0	2	0		2	0
<b>Total</b>	<b>23</b>	<b>52</b>	<b>75</b>	<b>29</b>	<b>23</b>	<b>21</b>	<b>223</b>	<b>56</b>

### 3. Select Invited presentations outside of County Extension programs

#### County/Local

1. Drones in Agriculture. 26 April 2019. Bandera Soil and Water Conservation District Land Management Conference, Bandera, Texas. 20 adults. 30 mins.
2. Identifying and Managing Unwanted Plants on Rangelands. 7 June 2019. Matagorda County Soil and Water Conservation District Beef & Forage Seminar, Bay City, Texas. 50 adults. 1 hour.
3. Drone Use in Science. December 2017. St. Pius X Catholic School Science Club, Corpus Christi, Texas. 15 youth and 10 adults. 2 hours.

#### Regional

4. Invasive Plant Species. 3 April 2019. Witte Museum, San Antonio, Texas. 25 adults. 0.5 hour.
5. Prescribed burning. 19 June 2019. TWA South Texas Buckskin Brigade, Sinton, Texas. 45 youth. 10 adults. 20 mins.
6. Rangeland Management Training. February 2018. Gideon Lincecum Master Naturalists, Winedale, Texas. 35 adults. 2.5 hours.
7. Stewardship in the Edward's Plateau: The Next Generation. October 2017. Bennett Trust Women – Takin' on the Stewardship Challenge Conference, Fredericksburg, Texas. 75 adults. 1 hour.

#### State

8. Invasive bluestem management. 13 July 2019. Texas Wildlife Association Convention, San Antonio, Texas. 50 adults. 1 hour.
9. Wildlife Management: The Past. 10 October 2019. Texas Section Society for Range Management Annual Meeting, Kerrville, Texas. 50 people. 20 minutes.
10. Using Drones to Support Management Decisions on Rangelands and Pastures. 11 December 2019. Texas Plant Protection Conference, College Station, Texas. 40 adults. 15 mins.

11. Grazing Rotations for Maximum Cattle and Wildlife Benefit. February 2018. Houston Livestock Show and Rodeo Ranching and Wildlife Expos Educational Seminars, Houston, Texas. 50 adults. 30 mins.
12. Use of Drones in Cattle Production. June 2018. Independent Cattleman’s Association Conference, College Station, Texas. 48 adults. 45 mins.
13. Integrating Herbicides into Wildlife Habitat Management. March 2017. Texas Southwestern Cattle Raisers Association Convention, San Antonio, Texas. 115 adults. 20 mins. Presented in conjunction with Charlie Hart and Jim Ansley.
14. Brush Busters. October 2017. Texas Master Naturalist State Conference, Corpus Christi, Texas. 18 adults. 2 hours.
15. UAV Research in Range and Pasture. October 2017. Texas A&M AgriLife Research and Oracle Meeting, College Station, Texas. 14 adults. 15 mins.

#### National

16. Drone Use in Sheep Ranching. 18 July 2019. Colorado Wool Growers Association, Montrose, Colorado. 50 adults. 1 hour.
17. Responsible Grazing as a Wildlife Habitat Management Strategy. 6 August 2019. Beef Cattle Short Course, College Station, Texas. 105 adults. 45 mins.
18. Using Drones in Your Buffalo Ranching Operation. 25 October 2019. Intertribal Buffalo Council, Las Vegas, Nevada. Adobe Connect. 60 adults. 45 minutes.
19. Cow Poop Analyzer Application. January 2018. GrassWorks Grazing Conference, Wisconsin. 35 adults. 10 mins.
20. South Texas Ranching and Hunting Enterprises. May 2017. SARE National Agent Tour, Kerrville, Texas. 13 adults. 1 hour.

#### International

21. Rangeland Management. July 2017. Texas/Mexico Border Coalition’s Women Conference, San Manuel, Texas. 63 adults. 45 mins.
22. Range Management Toolbox. September 2017. The Wildlife Society Conference Range 101 Workshop, Albuquerque, NM. 25 adults. 20 mins.
23. Smartphone Apps for Use in Range Science. September 2017. The Wildlife Society Conference Range 101 Workshop. 25 adults. 15 mins.
24. Weed Management. November 2016. Corpus Christi Structural Applicators Association, Corpus Christi, Texas. 20 adults. 1 hour.

#### **D. WEBSITE AND SOCIAL MEDIA PRESENCE**

**Table 10.** Texas Range Extension Facebook page contact numbers by year. Page followers have chosen to regularly see all the posts in their main Facebook feed page. The number of people reached are those who saw our posts. This number is much higher than “followers” due to post “shares” which greatly extends the audience reach.

Year	Page Followers at year end	Number of Posts	Number of People Reached
2020	3592	37	100,624
2019	2434	93	224,806
2018	2434	105	238,087
2017	1509	106	149,277

2016	1031	103	112,340
2015	540	98	51,551
2014	221	48	4185
<b>Total</b>	<b>3,592</b>	<b>590</b>	<b>880,870</b>

**South Texas Rangelands Website:**

**Table 11.** South Texas Rangelands website (SouthTexasRangelands.tamu.edu) pageviews and unique visitors by year. Unique visitors are website contacts only counted once regardless of how often they visit.

Year	Pageviews	Unique Visitors
2020	1718	352
2019	4572	1259
2018	5383	1471
2017	4954	1426
2016	4722	1080
2015	2493	653
2014	3124	602
2013	1126	469
2012	475	149
<b>Total</b>	<b>28,567</b>	<b>7,461</b>

## V. REPORT OF TEACHING ACTIVITIES

### A. TEACHING AWARDS AND RECOGNITION

**Table 12.** Awards and recognition directly related to Teaching activities (some through mentorships). Shaded boxes are awards received prior to last promotion.

Year	Award/Recognition
2017	1 <sup>st</sup> Place Research Poster – 2017 USDA Hispanic Serving Institutions Conference (Lead author, Graduate student Laura Carbajal, Texas A&M – Corpus Christi)
2015	1 <sup>st</sup> Place Research Poster – 2015 Texas County Agricultural Agents Association Meeting (Lead presenter, Michael Hiller, Jackson County Extension Agent)
2013	2 <sup>nd</sup> Place Young Professionals’ Presentation Award – Texas Section Society for Range Management (Lead presenter, Undergraduate Intern Hannah Sawers, Texas A&M – Kingsville)
2012	Texas Section Society for Range Management – Outstanding Young Range Professional Award

## B. FACULTY AND STAFF TRAINING AND ASSISTANCE

### 1. Group programs

**Table 13.** Group programs conducted to educate County Extension Agents.

Year	Training	Location	Audience
2019	District 11 Agent Plant ID Contest	Refugio, TX	District 12
	Healthy South Texas Specialist Promotion Process	Corpus Christi, TX	South Region
	SARE Restoring Ecosystem Function with Affordable Ag Techniques	D'Hanis, TX	Statewide
2018	South Region Agent Plant ID Contest	San Antonio, TX	South Region
	District 11 Agent Plant ID Contest	Hallettsville, TX	District 11
	Wildlife and Livestock Management & Grass Identification Training	Port Mansfield, TX	District 12
	SARE Plant Species Inventory for Wildlife Training	Via WebEx	Statewide
2017	SARE Ag Business Basics Training	San Antonio, TX	Statewide
	District 11 TCAA Retreat Hot Topics	Sinton, TX	District 11
	Brush Control & Invasive Grass Management Training	Banquete, TX	District 11
	South Region Agent Plant ID Contest	San Antonio, TX	South Region
2016	4-H Range Evaluation Training Webinar	Via Adobe Connect	Districts 11 & 12
	SARE Farm & Ranch to Table Training	D'Hanis, TX	Statewide
	Practical Use of Webinars in County Programs	Brenham, TX	Southeast Region
	Sustainable Ranch Tour	Poteau, OK	Statewide
	South Region Agent Plant ID Contest	San Antonio, TX	South Region
	District 11 Agent Plant ID Contest	Rosenberg, TX	District 11
2015	District 12 Agent Plant ID Contest	San Antonio, TX	District 12
	District 11 Agent Plant ID Contest	Goliad, TX	District 11
	Range Program Update	Rosenburg, TX	Districts 9 & 11
	Restoration Agriculture Training	Boerne, TX	Statewide
2014	EDEN Wildfire Resources Update	Via Lync Technology	Statewide
	District 12 Agent Plant ID Contest	Laredo, TX	District 12
	Range Program Update	Laredo, TX	District 12
	Range Program Update	Rosenburg, TX	Districts 9 & 11
	ESSM Extension Program Update	Via Lync Technology	Districts 8 & 10
	SARE Sustainable Agriculture	San Antonio, TX	Statewide
	District 11 Agent Plant ID Contest	Corpus Christi, TX	District 11
	Prescribed Burn Agent Training	Via Lync Technology	Statewide
2013	EDEN Wildfire & Demo Resources	Via Lync Technology	Statewide
	District 12 Agent Plant ID Contest	Corpus Christi, TX	District 12
	Range Program Update	Corpus Christi, TX	District 12
	Range Program Update	Edna, TX	District 11
	District 11 Agent Plant ID Contest	Sealy, TX	District 11
2012	Pasture Recovery Training	Via Lync Technology	South Region
	Multi-Day Brush, Forage, Soil Training	Ben Bolt, TX	South Region
	Natural Resource Leadership Trip	Corpus Christi, TX	Statewide
	District 12 Agent Plant ID Contest	Laredo, TX	District 12



Year	Training	Location	Audience
	Range Program Update	Laredo, TX	District 12
	Range Program Update	Corpus Christi, TX	District 11
	District 11 Agent Plant ID Contest	Kenedy, TX	District 11
2011	District 11 Agent Plant ID Contest	El Campo, TX	District 11
	District 12 Agent Plant ID Contest	Kingsville, TX	District 12
	Range Program Update	Kingsville, TX	District 12
	Range Program Update	Edna, TX	District 11
2010	Introduction and My Background	Cuero, TX	District 11

### C. ACADEMIC INSTRUCTION

#### 1. Graduate and undergraduate mentoring

1. **Xiaoqing Shen**, Ph.D. Candidate, Soil and Crop Sciences Department, PI Dr. Jamie Foster: Using UAVs for forage, weed, and brush management
  - Summer 2019 to Present, Graduate Committee Member
2. **Morgan McCutchen**, M.S. Candidate, Agronomy at Texas A&M University – Kingsville, CoPIs Dr. Joshua McGinty and Dr. Alinna Umphres, Kleberg bluestem management
  - Fall 2019 to Present, Graduate Committee Member
3. **Meagan Lesak**, M.S., Animal Science at Texas A&M University – Kingsville, CoPIs Dr. Jamie Foster and Dr. Kim McCuiston, Management options for Old World bluestem control
  - June 2013-August 2016, Graduate Committee Member
  - Graduated August 2016
4. **William Colson**, Student worker, developed scripts and videos for Native Seeding online certification course
  - June 2017-2018, Supervisor
5. **Sierra Zavala**, Student worker, developed scripts and videos for Brush Busters online continuing education course
  - Oct 2016-May 2017, Supervisor
6. **Ashton Gulczewski**, Undergraduate intern, researched the timing of herbicide applications on introduced bluestems in South Texas
  - July 2014 & May 2015-August 2015, Mentor
7. **Hannah Sawers**, Undergraduate intern, researched the effect of the pH of water used in herbicide mixtures
  - May 2013-August 2013 & May 2015-August 2015, Mentor
  - Awarded 2<sup>nd</sup> place Young Professionals Presentation at the Texas Section Society for Range Management Meeting
8. **Roxanne Silguero**, Undergraduate intern, researched tanglehead management using broadcast herbicide applications
  - May 2012-August 2012
  - Selected to present research project in Washington, D.C. for grant supporters
9. **Emma Biediger**, Undergraduate intern, researched supplemental requirements of beef cattle fed native versus improved forage using fecal analyses
  - May 2012-August 2012
  - Selected to present research project in Washington, D.C. for grant supporters

## 2. University classroom guest lectures

1. Habitat Management Techniques – Cow. May 2020. Undergraduate Wildlife Habitat Management – Recorded lecture, Texas A&M University, College Station, Texas. 1 hour.
2. Management of Undesirable Plants. February 2019. Graduate Advanced Range Livestock Production. Texas A&M University – Kingsville, Kingsville, Texas. 15 adults. 1.25 hours.
3. Undesirable Plant Management. April 2018. Graduate Advanced Range Livestock Production. Texas A&M University – Kingsville, Kingsville, Texas. 16 adults. 1.25 hours.
4. Wildlife and Livestock Management and Forage Management. April 2016. Graduate Forage Management, Texas A&M University – Kingsville, Kingsville, Texas. 5 adults. 1.5 hours.
5. Managing Wildlife with Livestock and Forage and Livestock management. February 2015. Graduate Forage Management, Texas A&M University – Kingsville, Kingsville, Texas. 8 adults. 2.5 hours.
6. Landowner decision making: Brush control, wildlife, and cattle. February 2015. Graduate Habitat Management Class, Texas A&M University – Kingsville, Kingsville, Texas. 14 adults. 1.25 hours.
7. Managing wildlife with livestock and Forage and livestock management. February 2014. Graduate Forage Management, Texas A&M University – Kingsville, Kingsville, Texas. 8 adults. 2 hours.
8. Determining Forage Quantity and Stocking Rates. January 2013. Graduate Forage Management, Texas A&M University – Kingsville, Kingsville, Texas. 10 adults. 1 hour.
9. Wildlife and Livestock Operations. January 2013. Graduate Forage Management, Kingsville, Texas. 10 adults. 1.5 hours.
10. Using livestock to manage for wildlife habitat. January 2012. Graduate Forage Management. Texas A&M University – Kingsville, Kingsville, Texas. 8 adults. 1.5 hours.
11. Forage management strategies. January 2012. Graduate Forage Management. Texas A&M University – Kingsville, Kingsville, Texas. 8 adults. 1 hour.
12. Managing wildlife habitat with livestock. March 2011. WFSC 406 Undergraduate Class – Recorded Lecture, Texas A&M University, College Station, Texas. 20 people. 1 hour.
13. The landowner’s perspective to land management. January 2011. Graduate Forage Management, Texas A&M University – Kingsville, Kingsville, Texas. 8 people. 2.5 hours.

## VI. RESEARCH AND SCHOLARLY WORK

### A. SCHOLARLY AWARDS AND RECOGNITION

**Table 15.** Awards and recognition directly related to Scholarly activities.

Year	Award/Recognition
2019	Texas Section Society for Range Management Technical Publication Award
2018	Texas Section Society for Range Management Popular Publication Award
2017	Texas Section Society for Range Management Technical Publication Award
2017	Texas Section Society for Range Management Popular Publication Award
2016	Texas Section Society for Range Management Special Publication Award
2014	Texas Chapter of The Wildlife Society 3 <sup>rd</sup> Place Educational Video

Year	Award/Recognition
2014	Texas Chapter of The Wildlife Society Outstanding Technical Publication
2012	The Wildlife Society's National Leadership Institute
2011	Texas A&M – Kingsville Alumni Focus, Inaugural Javalina Today Magazine
2007-2009	South Texas Chapter of Quail Unlimited Scholarship
2007, 2009	Sportsmens' Club of Fort Worth Harry Tennison Scholarship
2008	Hispanic Leaders in Agriculture and the Environment Fellowship
2008	3 <sup>rd</sup> Place Cottam Research Presentation Award, Texas Chapter of The Wildlife Society
2006	Texas A&M – Kingsville "Be All You Can Be" Emerging Leader Award
2005, 2006	TAMUK Agriculture Dept. Outstanding Grad Student Nominee
2005, 2006	Houston Safari Club Scholarship Recipient

## B. APPLIED RESEARCH/RESULT DEMONSTRATION SITES SUPPORTED

### 1. Applied research and result demonstration sites established and evaluated

**Table 16.** Applied research/result demonstration sites established and evaluated, including the number of County programs the site supported. Shaded boxes are projects established prior to last promotion.

Project	Year	# Counties Supported	# Established	# Evaluated
Clematis/ Old Man's Beard	2019	3	3	2
	2018	1		4
	2017	1	2	6
	2016	1	2	4
	2014	1	1	1
Blackbrush	2019	1	1	
Euthamia	2015	1		1
	2014	1	1	1
	2013	1	1	
False Broomweed	2015	1		1
	2014	1		1
	2013	1	1	
Green Flatsedge	2017	1	1	
	2011	1	2	2
Honey Mesquite	2019	1	2	1
	2018	2	1	1
	2017	2		2
	2016	3	2	2
	2015	1		1
	2014	7		9
	2013	7	4	6
	2012	9	5	2
2011	2	2	1	
Huisache	2019	5	7	6
	2018	1	4	2

Project	Year	# Counties Supported	# Established	# Evaluated
	2017	2	8	2
	2016	5	5	3
	2015	7	1	9
	2014	12	3	15
	2013	8	8	4
	2012	8	6	1
	2011	1	1	
	2010	1		1
King Ranch/Kleberg Bluestem	2019	1	3	
	2018	1	1	3
	2017	1	1	
	2011	2	3	
Macartney rose	2019	2	3	1
	2014	1		1
	2013	1	1	1
	2012	2	1	2
	2011	1	1	
Mixed brush	2017	2		1
	2016	3		2
	2015	4	1	5
	2014	2		2
	2013	3	4	2
	2012	1	1	1
	2011	1		1
	2010	1	1	
Native reseeding	2015	2		2
	2014	2	2	1
	2013	3	2	2
	2012	2	2	
Passionflower Vine	2011	1	1	1
Prickly pear	2019	2	1	2
	2018	1		2
	2017	1	1	1
	2014	2		2
	2013	2		2
	2012	2	2	2
Retama	2015	2		2
	2014	2	2	
Salt cedar	2012	1		1
	2011	1		1
	2010	1	1	
Saw palmetto	2013	1		2
	2012	1	1	1
Soil Health: Deep soil ripping	2019	1	2	4
Tanglehead: Patch burn & graze ('14)	2019	1	1	
	2014	1	2	6
	2012	1	1	1

Project	Year	# Counties Supported	# Established	# Evaluated
Herbicide ('11-'12, '19)	2011	2	2	2
Twisted Acacia	2016	1	1	1
UAV (Forage & Brush)	2019	2	2	
Western ragweed	2012	1	1	1
Whitebrush	2019	2		3
	2018	2	3	
	<b>TOTAL</b>	<b>172</b>	<b>125</b>	<b>155</b>

### C. PUBLICATIONS AND EDUCATIONAL SUPPORT MATERIALS DEVELOPED

#### 1. Extension numbered publications

1. Lyons, R.K., **M.K. Clayton**, W. Hamilton, L. Redmon, B. Rector, C. Kneuper. 2020. Chemical Weed and Brush Control Suggestions for Rangeland. Texas A&M AgriLife Extension Service, Publication ERM-1466: 5/20 Revision.
2. Krause, A.C., **M.K. Clayton**, C.L.S. Morgan, S. Hetrick, N.M. Shigley, D.B. Wester. 2020. Deep Soil Ripping as an Effective and Affordable Water Capture Tool. Texas A&M AgriLife Extension Service. In Press.
3. **Clayton, M.K.**, E. Kimura, and A. James. 2019. Ranch Stewardship Activity Booklet – Revised Edition. Texas A&M AgriLife Extension Service. RREA Project for Youth Education.
4. **Clayton, M.K.**, E. Kimura, and A. James. 2018. Ranch Stewardship Activity Booklet. Texas A&M AgriLife Extension Service. RREA Project for Youth Education.
5. Lyons, R.K., **M.K. Clayton**, W. Hamilton, L. Redmon, B. Rector, C. Kneuper. 2018. Chemical Weed and Brush Control Suggestions for Rangeland. Texas A&M AgriLife Extension Service, Publication ERM-1466: 2/18 Revision.
6. **Clayton, M.K.**, A.M. Young, L.A. Redmon, and F.S. Smith. 2017. Using Goals and Profitability to Determine What to Plant in Pastures. Texas A&M AgriLife Extension Service Publication ERM-033.
7. **Clayton, M.K.**, J.L. Foster, K.C. McCuiston, T.W. Teinert, and M.M. Lesak. 2017. Introduced Bluestem Grasses: Management on Native Lands. Texas A&M AgriLife Extension Service Publication ERM-036.
8. Lyons, R.K., and **M.K. Clayton**. 2017. Brush Busters: How to Control Huisache. Texas A&M AgriLife Extension Service Publication ERM-040.
9. McGinty, J., V. Corriher-Olson, **M. Clayton**, and R. Lyons, Krause, and J.W. Smith. 2016. Quick Reference for Common Rangeland and Pasture Herbicides. Texas A&M AgriLife Extension Publication ESC-046.
10. **Clayton, M.K.**, A.C. Krause, and J.W. Smith. 2015. Starting a Sustainable Agriculture Business. Texas A&M AgriLife Extension Publication RM-015.
11. **Clayton, M.K.**, R.K. Lyons, J.A McGinty. 2014. Huisache Ecology and Management. Texas A&M AgriLife Extension Publication ERM-001.
12. **Clayton, M.K.**, F. S. Smith, K.A. Pawelek, and A.D. Falk. 2014. Reseeding Natives in South Texas: Top 10 Mistakes to Avoid. Texas A&M AgriLife Extension Publication ERM-003.
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- Texas: Site Preparation. Texas A&M AgriLife Extension Publication ERM-004.
14. **Clayton, M.K.**, F. S. Smith, K.A. Pawelek, and A.D. Falk. 2014. Reseeding Natives in South Texas: Planting Techniques and Equipment. Texas A&M AgriLife Extension Publication ERM-005.
  15. **Clayton, M.K.**, F. S. Smith, K.A. Pawelek, and A.D. Falk. 2014. Reseeding Natives in South Texas: Selecting the Seed Mix. Texas A&M AgriLife Extension Publication ERM-006.
  16. **Clayton, M.K.**, F. S. Smith, K.A. Pawelek, and A.D. Falk. 2014. Reseeding Natives in South Texas: Post-Planting Management. Texas A&M AgriLife Extension Publication ERM-007.
  17. **Clayton, M.K.**, F. S. Smith, K.A. Pawelek, and A.D. Falk. 2014. Reseeding Natives in South Texas: Targeting Noxious Plant Species. Texas A&M AgriLife Extension Publication ERM-008.
  18. R.K. Lyons, J.A. Ansley, W. Hamilton, L. Redmon, B. Rector, and **M.K. Clayton**. 2014. Chemical Weed and Brush Control: Suggestions for Rangeland. Texas A&M AgriLife Extension Publication ER/ERM-1466.
  19. Alldredge, B., L. Redmon, **M. Clayton**, and J.C. Cathey. 2013. Native grassland monitoring and management. Texas A&M AgriLife Extension Service WF-001.
  20. **Clayton, M.**, M. Young, R. Lyons, and S. Klose. 2013. Controlling brush with herbicides to increase ranch profits. Texas A&M AgriLife Extension Publication E-629.
  21. Thigpen, K., B. Alldredge, J. Whiteside, S. Locke, L. Redmon, **M. Dominguez**, and J. Cathey. 2012. Native grassland restoration in the Middle Trinity River Basin. Texas AgriLife Extension Publication SP-469.
  22. Young, M., **M. Dominguez**, J. Paschal, S. Klose. 2011. Economic impact of beef cattle best management practices in South Texas: Stocking strategies during drought. FARM Assistance Focus 2011-6.

## 2. Educational videos

1. Krause, A.C., **M.K. Clayton**, A. Cayard. 2020. Deep Soil Ripping for Water Conservation. YouTube: <https://youtu.be/ovKRjsGMUaA>
2. **Clayton, M.K.** 2020. Mesquite Management with Herbicides. Facebook Video: Texas Range Extension Page. 10,794 views.
3. **Clayton, M.K.** 2020. Tracking Soil Temperature. Facebook Video: Texas Range Page. 1,234 views.
4. **Clayton, M.K.**, A. James, and E. Kimura. 2019. Can't Stop Ranching. YouTube: <https://www.youtube.com/watch?v=Y7b4ScmoN20&t=61s>. Revised.
5. **Clayton, M.K.** 2018. Brush Busters 101. Facebook Live Event: Val Verde County Extension Page. 3,117 views.
6. **Clayton, M.K.** 2018. Drone Use in Agriculture. Facebook Live Event: Val Verde County Extension Page. 1,414 views.
7. **Clayton, M.K.** 2018. Range Management Toolbox. Facebook Live Event: Val Verde County Extension Page. 1,470 views.
8. **Clayton, M.K.** 2018. Starting an Agricultural Business. Facebook Live Event: Val Verde County Extension Page. 596 views.
10. **Clayton, M.K.**, A. James, and E. Kimura. 2017. Can't Stop Ranching. YouTube: <https://www.youtube.com/watch?v=dDjrsc9DJCw>.
11. Flores, P. and **Clayton, M.K.** 2016. Sharpen Brush Cutter Blades for Cut Stump Treatment.

YouTube: <https://www.youtube.com/watch?v=Pd3FlaiNQfo>.

12. Fattorini, A., **M. Clayton**, and M.C. Krause. 2015. Faces of Sustainable Agriculture. Texas A&M AgriLife Extension Service. <https://www.youtube.com/watch?v=YD3XM0N8dGY>
13. Flores, P. and **Clayton, M.K.** 2015. Cut Stump Demonstration, Equipment and Herbicide. YouTube: <https://search.yahoo.com/yhs/search?p=megan+clayton%2C+cut+stump+treatment%2C+youtube&ei=UTF-8&hspart=mozilla&hsimp=yhs-003>.
14. **Clayton, M.** and P. Flores. 2014. Cut Stump Demonstration, Equipment, and Herbicides. Texas A&M AgriLife Extension Service. You Tube Video [www.youtube.com/watch?v=xgdIXBjK-rU&list=UU9L0nv5SJwA\\_qbSbb8HWzGw](http://www.youtube.com/watch?v=xgdIXBjK-rU&list=UU9L0nv5SJwA_qbSbb8HWzGw)
15. **Clayton, M.**, F. Smith, K. Pawelek, T. Falk. 2013. Reseeding Land with Native Grasses and Plants. Texas A&M AgriLife Extension Service. You Tube Video <http://www.youtube.com/watch?v=KmSv9kCD7uU>
16. **Clayton, M.**, F. Smith, K. Pawelek, T. Falk. 2013. Preparing Land for Seeding Native Grasses and Plants. Texas A&M AgriLife Extension Service. You Tube Video <http://www.youtube.com/watch?v=8HXjTXNqYYs>
17. **Clayton, M.**, F. Smith, K. Pawelek, T. Falk. 2013. Understanding Native Seed Tags, Storage, and Handling. Texas A&M AgriLife Extension Service. You Tube Video <http://www.youtube.com/watch?v=aLKu3lExXlw>
18. **Clayton, M.**, F. Smith, K. Pawelek, T. Falk. 2013. Choosing Native Seeds for a Planting Mix. Texas A&M AgriLife Extension Service. You Tube Video <http://www.youtube.com/watch?v=bhZwroeq2dl>
19. **Clayton, M.**, F. Smith, K. Pawelek, T. Falk. 2013. Parts of a Seed Drill and Calibration. Texas A&M AgriLife Extension Service. You Tube Video <http://www.youtube.com/watch?v=VhMlfapT1vQ>
20. **Clayton, M.**, F. Smith, K. Pawelek, T. Falk. 2013. When to Plant Native Seed and Expectations. Texas A&M AgriLife Extension Service. You Tube Video <http://www.youtube.com/watch?v=jGGq8TrQtC4>
21. **Clayton, M.**, F. Smith, K. Pawelek, T. Falk. 2013. Keeping Brush out of Native Grasses and Plants. Texas A&M AgriLife Extension Service. You Tube Video <http://www.youtube.com/watch?v=00TjO-t4Ze0>
22. Alldredge, B., A. Reid, **M. Clayton**, and J. Cathey. 2013. Shredding/Mowing for Wildlife Management in Texas. Texas A&M AgriLife Extension Service. You Tube Video <http://www.youtube.com/watch?v=u2i78QdR6MU>
23. Alldredge, B., **M. Clayton**, J. Cathey. 2013. Disking for Wildlife Management. Texas A&M AgriLife Extension Service. You Tube Video <http://www.youtube.com/watch?v=sX6Jfn8N98c>
24. Alldredge, B. **M. Clayton**, and J. Cathey. 2013. Rangeland Monitoring Techniques for Livestock and Wildlife. Texas A&M AgriLife Extension Service. You Tube Video [http://www.youtube.com/watch?v=Sxb\\_xYk88fo](http://www.youtube.com/watch?v=Sxb_xYk88fo)

### 3. Professional papers/proceedings/poster

1. **Clayton, M.K.**, D. Nolte, R. Burton, K. Schumacher, C. Baldwin, and K. VerCauteren. October 2020. Wild Pigs in Wildlife Habitat and Rangelands. The Wildlife Society 27<sup>th</sup> Annual Conference, Louisville, Kentucky. Accepted Symposium.
2. McCutchen<sup>1</sup>, M. J. McGinty, **M.K. Clayton**, A.M. Umphres, and G. Schuster. Management

- Of King Ranch and Kleberg Bluestems in South Texas. 73<sup>rd</sup> Annual Subtropical Agriculture and Environments Society Meeting, Weslaco, Texas. Abstract for Poster Presentation in 2020.
3. **Clayton, M.K.**, J. Foster, A. Chang, M. Starek, X. Shen<sup>1</sup>, N. Dube, D. Gonzalez. December 2019. Using drones to support management decisions on rangelands and pastures. 31<sup>st</sup> Annual Texas Plant Protection Conference, College Station, Texas. Oral Presentation.
  4. **Clayton, M.K.**, A.M. Young, L.A. Redmon, F.S. Smith. February 2018. Using Goals and Profitability to Determine What to Plant in Pastures. Texas Chapter of The Wildlife Society Conference, Dallas, Texas.
  5. Medlin, C.R., C.W. Hanselka, A. McGinty, R.K. Lyons, **M.K. Clayton**, W. Thompson. March 2018. Treatment Life and Economic Comparisons of Brush Management Applications. Western Society of Weed Science Annual Meeting. Poster Presentation.
  6. Medlin, C.R., C.W. Hanselka, A. McGinty, R.K. Lyons, **M.K. Clayton**, W. Thompson. March 2018. Treatment Life of Mesquite Herbicides: Beyond Two Years after Application. Western Society of Weed Science Annual Meeting. Oral Presentation.
  7. **Clayton, M.K.** and R.K. Lyons. December 2018. Physical and environmental factors influencing broadcast herbicide huisache control. 30th Annual Texas Plant Protection Conference, Bryan, Texas. pp. 30
  8. Fox, W., J. Angerer, J. Pluhar, D. Tolleson, **M. Clayton**, and R. Lyons. December 2018. Forage Forecasting/Nutritional Analytics: Decision-Support for Rangeland/Grazingland Ecosystems – A Web-based Dashboard. National Grazing Land Coalition Meeting, Reno, NV. Oral Presentation.
  9. Hart, C.R, J. Ansley, **M.K Clayton**, D.C. Cummings. January 2017. Benefits of Selective Control of Huisache and Honey Mesquite. Society for Range Management Annual Meeting.
  10. Cummings, D., C. Hart, R. Lyons, **M. Clayton**, J. Jackson. January 2017. Beyond Honey Mesquite: Broadening the Uses of Sendero Herbicide. Society for Range Management Annual Meeting, St. George, Utah.
  11. Carbajal, L., M. Starek, J. Foster, **M. Clayton**. February 2017. Evaluation of UAS-Based Remote Sensing for Measuring Forage Properties at an Experimental Rangeland. USDA Hispanic Serving Institutions Conference, New Mexico.
  12. **Clayton, M.K.**, A.M. Young, L.A. Redmon, F.S. Smith. November 2017. Using Goals and Profitability to Determine What to Plant in Pastures. America’s Grassland Conference, Fort Worth, Texas.
  13. Hiller, M. and **M.K. Clayton**. January 2016. Comparisons of Herbicides and application methods for control of huisache. National Association County Agricultural Agents Meeting, Little Rock, Arkansas.
  14. Hart, C.R., J. Ansley, **M K. Clayton**, and D.C. Cummings. February 2016. Benefits of Selective Control of Huisache and Honey Mesquite. 69<sup>th</sup> Annual Society for Range Management Meeting, Corpus Christi, Texas.
  15. Lesak, M.M.<sup>1</sup>, J.L. Foster, K.C. McCuistion, **M.K. Clayton**, T. Teinert. February 2016. Management of Invasive Old World Bluestems to Restore Native Grasslands. 69<sup>th</sup> Annual Society for Range Management Meeting, Corpus Christi, Texas.
  16. Lyons, R.K. and **M.K. Clayton**. February 2016. Plant Height and Other Factors Influencing Broadcast Herbicide Huisache Control. 69<sup>th</sup> Annual Society for Range Management Meeting, Corpus Christi, Texas.
  17. Lesak, M. M.<sup>1</sup>, J.L. Foster, K.C. McCuistion, **M.K. Clayton**, T. Teinert. October 2015.



- Management of invasive old world bluestems to restore native grasslands: where are we now? The Wildlife Society Annual Meeting, Winnipeg, Manitoba, Canada
18. Hiller, M. and **M.K. Clayton**. July 2015. Comparisons of Herbicides and application methods for control of huisache. Texas County Agricultural Agents Association Meeting. Corpus Christi, Texas.
  19. Lesak, M.M.<sup>1</sup>, J.L. Foster, K.C. McCuistion, **M.K. Clayton**, T. Teinert. April 2015. Management of invasive old world bluestems to restore native grasslands: where are we now? Javalina 6th Annual Research Symposium, Kingsville, Texas.
  20. **Clayton, M. K.**, R. L. Lyons, E. Montemayor. February 2015. Tanglehead management with patch burning and grazing. 68<sup>th</sup> Annual SRM Meeting, Sacramento, California.
  21. Lesak, M. M<sup>1</sup>, J. L. Foster, K. C. McCuistion, **M. K. Clayton**, and T. Teinert. February 2014. Management of Old World Bluestems to Restore Native Grasslands: Where do we go from here? 50th Annual Texas Chapter of The Wildlife Society Meeting, Austin, Texas.
  22. **Clayton, M. K.**, R. L. Lyons, E. Montemayor. December 2014. Tanglehead management with patch burning and grazing. Texas Plant Protection Conference, College Station, Texas.
  23. **Clayton, M.**, D. Elmore, J. Haufler, R. Lanka, L. Redmon, T. Riley, M. Rowland, and W. Vodehnal. 2014. Forgotten Grasslands of the East: Managing Forest-Grassland Mosaics for Wildlife. Symposium of The Wildlife Society, Pittsburg, Pennsylvania.
  24. Lesak, M.M.<sup>1</sup>, J.L. Foster, K.C. McCuistion, **M.K. Clayton**, and T.W. Teinert. February 2014. Management of Old World Bluestems to Restore Native Grasslands: Where do we go from here? Texas Chapter of The Wildlife Society Annual Meeting, Austin, Texas.
  25. **Clayton, M.K.** April 2013. Pestman and Web Soil Survey. Texas Weed and Brush Symposium Proceedings. Abilene, Texas.
  26. Sawers, H.<sup>2</sup>, **M.K. Clayton**, and S.E. Henke. October 2013. The pH of Water in Your Herbicide Mix: Should you be Concerned? Texas Section Society for Range Management Annual Meeting, Fredericksburg, Texas.
  27. Biediger, E.<sup>2</sup>, R. Silguero<sup>2</sup>, **M. Clayton**, S. Prince, B. Yanta, G. Gonzales, R. Stanko, and S. Nelson. 2012. Supplementation requirements for beef cattle fed native and improved forage using fecal analyses. Texas Section Society for Range Management Annual Meeting, Fredericksburg, Texas.
  28. Silguero, R.<sup>2</sup>, E. Biediger<sup>2</sup>, **M. Clayton**, R. Lyons, E. Montemayor, H. Martinez, R. Stanko, and S. Nelson. 2012. Invasive tanglehead management using broadcast herbicide applications. Texas Section Society for Range Management Annual Meeting, Fredericksburg, Texas.
  29. Arsuffi, T. L., **M. K. Dominguez**. 2011. Texas Hill Country land and water stewardship: Multiple approaches and stakeholders at Llano River Field Station. Ecological Society of America International Conference, Austin, Texas.
  30. Arsuffi, T. L., **M. K. Dominguez**, and Z. Thomas. 2011. Water and watershed stewardship in the Texas Hill Country: Innovative multiple approaches and stakeholders at the Llano River Field Station. Texas Academy of Science Annual Meeting, Austin, Texas.
  31. **Dominguez, M. K.**, T. L. Arsuffi, and Z. Thomas. 2010. Using demonstration sites to educate landowners and youth. North American Association of Environmental Education Annual Meeting, Buffalo, New York.
  32. Arsuffi, T. L., **M. K. Dominguez**, Z. Thomas, and J. Strovas. 2010. Texas Hill Country environmental education: Multiple approaches and stakeholders. North American Association of Environmental Education Annual Meeting, Buffalo, New York.

33. Arsuffi, T. L., **M. K. Dominguez**, and K. Rylander. 2010. Engaged scholarship, education and outreach on water and watersheds using multiple approaches at multiple scales with multiple stakeholders in the Texas Hill Country. Southwestern Association of Naturalists Annual Meeting.
34. **Dominguez, M. K.**, W. Simon, and T. L. Arsuffi. 2010. Scientific method: Unleashed, uncut, and outdoors. National Science Teachers Association Conference, Philadelphia, Pennsylvania.
35. **Dominguez, M. K.**, W. Simon, and T. L. Arsuffi. 2010. Scientific Method: Unleashed, uncut, and outdoors. T-STEM Best Practices Conference, Lubbock, Texas.
36. Arsuffi, T. L., and **M. K. Dominguez**. 2010. A teacher's Challenge: Instilling Environmental Ethics in the Face of a Weakening Relationship to the Environment. T-STEM Best Practices Conference, Lubbock, Texas.
37. **Dominguez, M. K.**, W. Simon, and T. L. Arsuffi. 2010. Scientific Method: Unleashed, Uncut, and Outdoors. T-STEM Best Practices Conference, Lubbock, Texas.
38. Arsuffi, T. L., **M. K. Dominguez**, and Z. Thomas. 2009. Engaged scholarship, education, and outreach on water and watersheds using multiple approaches at multiple scales with multiple stakeholders in the Texas Hill Country. Land, Water People Conference. Texas State University. San Marcos, Texas.
39. **Dominguez, M. K.**, W. Simon, and T. L. Arsuffi. 2009. Scientific Method: Unleashed, Uncut, and Outdoors. Science Teachers Association of Texas Conference, Galveston, Texas.
40. **Dominguez, M. K.**, D. G. Hewitt, and S. Parsons. 2009. The Effectiveness of Landowner Management Workshops. The Wildlife Society Meeting, Monterey, California.
41. **Dominguez, M. K.**, D. G. Hewitt, S. Parsons, W. P. Kuvlesky, S. DeMaso, and S. Glasscock. 2009. Wild about turkeys: Workshops educating landowners in Texas. 4<sup>th</sup> Annual National Conference of American Association of Hispanics in Higher Education, San Antonio, Texas.
42. **Dominguez, M. K.**, D. G. Hewitt, S. Parsons, W. P. Kuvlesky, S. DeMaso, and S. Glasscock. 2009. Educating landowners: The effectiveness of wild turkey management workshops. 44<sup>th</sup> Annual Meeting of the Texas Chapter of The Wildlife Society, Lubbock, Texas.
43. Kauffman, E., A. Fedynich, and **M. K. Dominguez**. 2008. Survey of blood parasites in Rio Grande wild turkey of South Texas. Parasitology Meeting.
44. **Dominguez, M. K.**, D. G. Hewitt, W. P. Kuvlesky, and S. DeMaso. 2008. Nutrition of wild turkeys during winter in South Texas. 43<sup>rd</sup> Annual Meeting of the Texas Chapter of The Wildlife Society, San Antonio, Texas.
45. Vasquez, S., W. P. Kuvlesky, D. G. Hewitt, E. Reyes, S. DeMaso, and **M. K. Dominguez**. 2007. Mortality rate of Rio Grande wild turkeys on the King Ranch. 42<sup>nd</sup> Annual Meeting of the Texas Chapter of The Wildlife Society, Amarillo, Texas.
46. **Dominguez, M. K.**, D. G. Hewitt, W. P. Kuvlesky, and S. DeMaso. 2006. Impact of winter nutrition in wild turkeys. Annual meeting of The Wildlife Society, Anchorage, Alaska.
47. **Dominguez, M. K.**, D. G. Hewitt, W. P. Kuvlesky, S. DeMaso, and C. Kistler-Williams. 2006. Determining Rio Grande wild turkey winter food habits in south Texas through crop analysis. 25<sup>th</sup> Anniversary of Caesar Kleberg Wildlife Research Institute Poster Session, Kingsville, Texas.
48. Gonzalez, C., D. G. Hewitt, and **M. K. Dominguez**. Maintenance energy requirements for Rio Grande wild turkey hens in south Texas. April 2006. 25<sup>th</sup> Anniversary of Caesar Kleberg Wildlife Research Institute Poster Session, Kingsville, Texas.

49. **Dominguez, M. K.**, D. G. Hewitt, W. P. Kuvlesky, and S. DeMaso. 2006. Overwinter nutrition on Rio Grande wild turkey hens in south Texas: A Summary from two years of data collection. 41<sup>st</sup> Annual Meeting of the Texas Chapter of The Wildlife Society, South Padre Island, Texas.
50. **Dominguez, M. K.**, D. G. Hewitt, W. P. Kuvlesky, S. DeMaso, and C. Kistler-Williams. 2006. Determining Rio Grande wild turkey winter food habits in south Texas through crop analysis. 41<sup>st</sup> Annual Meeting of the Texas Chapter of The Wildlife Society, South Padre Island, Texas.
51. Gonzalez, C., D. G. Hewitt, and **M. K. Dominguez**. 2006. Maintenance energy requirements for Rio Grande wild turkey hens in south Texas. 41<sup>st</sup> Annual Meeting of the Texas Chapter of The Wildlife Society, South Padre Island, Texas.
52. **Dominguez, M. K.**, D. G. Hewitt, W. P. Kuvlesky, and S. DeMaso. 2005. The impact of overwinter nutrition on Rio Grande wild turkey productivity in south Texas: Preliminary Data Analyses. 40<sup>th</sup> Annual Meeting of the Texas Chapter of The Wildlife Society, Amarillo, Texas.
53. **Dominguez, M. K.**, D. G. Hewitt, W. P. Kuvlesky, and S. DeMaso. 2004. The impact of overwinter nutrition on Rio Grande wild turkey hens in south Texas. Texas Parks and Wildlife Turkey Research Progress Meeting, Austin, Texas. Given by Dr. David Hewitt.

<sup>1</sup> Indicates graduate student where I serve on graduate committee

<sup>2</sup> Indicates undergraduate student intern under my supervision

#### 4. Books/chapters/manuals

1. **Clayton, M.**, S. Contreras Walsh, L. Redmon, and R. Shaw. 2020. Bluestem Grasses in Texas: Field guide to native and introduced species. Texas A&M AgriLife Extension Service, College Station, Texas. In press.
2. Rosario, R.G., **M.K. Clayton**, I.T. Gates. 2018. Chapter 17: Use of Unmanned Aerial Vehicles in Wildlife Ecology in Wildlife Techniques Manual, N. Silvy, editor.
3. Harper, C.A., R.D. Elmore, A.L. Deck, R.N. Williams, **M.K. Clayton**, R.N. Chapman, W.J. Higginbotham, R.R. Mathenia, J.L. Avery, D. Drake, S.N. Frey, and B.B. Gourley. 2015. The National 4-H Wildlife Habitat Education Program: 4<sup>th</sup> Edition. University of Tennessee Institute of Agriculture.

#### 5. Refereed articles

1. **Clayton, M.K.**, R.K. Lyons. 2019. Factors influencing broadcast-herbicide control of huisache (*Vachellia farnesciana*). *Weed Technology* 33(6): 773-777.
  2. Medlin, C.R., W.A. McGinty, C.W. Hanselka, R.K. Lyons, **M.K. Clayton**, W.J. Thompson. December 2019. Treatment life and economic comparisons of honey mesquite (*Prosopis glandulosa*) and huisache (*Vachellia farnesciana*) herbicide programs in rangeland. *Weed Technology* 33 (6): 763-772.
  3. Wester, D.B., F.C. Bryant, A.D. Tjelmeland, J.L. Grace, S.L. Mitchell, J.T. Edwards, F. Hernandez, R.K. Lyons, **M.K. Clayton**, S. Rideout-Hanzak, R.V. Machen, J.A. Ortega-S. April 2018. Tanglehead in Southern Texas: A Native Grass with an Invasive Behavior. *Rangelands*. pp. 37-44.
- A.M. Young, **M.K. Clayton**, J.C. Paschal, and S.L. Klose. 2018. Economic Impact of Beef Cattle Best Management Practices in South Texas: Stocking Strategies during

- Drought. 2018. *Journal of Applied Farm Economics* 2, no. 1 (Spring 2018).
5. Pawelek, K. A., F. S. Smith, A. D. Falk, **M. K. Clayton**, K. W. Haby, and D. W. Rankin. 2015. Comparing three common seeding techniques for pipeline restoration: A case study in South Texas. *Rangelands* 37(3): 99-105.
  6. Reyes-Ramirez, E., **M. K. Clayton**, C. W. Lawson, S. M. Burns, R. Guarneros-Altimirano, S. J. DeMaso, W. P. Kuvlesky, Jr., D. G. Hewitt, J. A. Ortega-Santos, and T. A. Campbell. 2012. Home ranges of female Rio Grande turkeys (*Meleagris gallopavo intermedia*) in southern Texas. *The Southwestern Naturalist* 57(2): 198-201.
  7. Erxleben, D. R., M. J. Butler, W. B. Ballard, M. C. Wallace, M. J. Peterson, N. J. Silvy, W. P. Kuvlesky, Jr., D. G. Hewitt, S. J. DeMaso, J. D. Hardin, **M. K. Dominguez**. 2011. Wild Turkey (*Meleagris gallopavo*) association to roads: implications for distance sampling. *European Journal of Wildlife Research* 57(1): 57-65.

## 6. Popular press articles

1. **Clayton, M.K.** 2020. King Ranch Bluestem: Eradicate, Manage, or Do Nothing. *Texas Wildlife: Texas Wildlife Association Magazine*, April 2020. pp 36-37.
2. **Clayton, M.K.** 2019. The Grass Bad Dreams are Made of. *The AgMag*. July/August Issue 30.
3. Hadachek, A. 2019. Texas grazing preview: focus on South Texas. *Livestock Wx*. 1 May 2019.
4. **Clayton, M.K.** 2018. A Land Ethic for the Next Generation – It’s on YOU. *Hunter’s Horn: Houston Safari Club Magazine*, Spring 2018.
5. Fears, R. and J. Fears. 2018. Control Brush and Save Brush for Habitat. *The Cattleman Magazine*, May 2018. Contributor
6. Fears, R. 2018. Replanting a Pasture: Does it Make Dollars? *Land and Livestock Post*. March 2018. Contributor
7. **Clayton, M.K.** 2018. Guidelines for Flying UAVs. *Progressive Cattleman Magazine*. Issue 11, November 2018. pp 34-35.
8. **Clayton, M.K.** 2018. Texas Range Facebook Page: 25 posts contributed.
9. **Clayton, M.K.** 2018. Replanting a Pasture: Is It Economically Feasible or Just Risky? *Progressive Forage Magazine*.
10. **Clayton, M.K.** 2017. Is Planting a Pasture Worth It? *Victoria Advocate Newspaper*, July 30, 2017 print.
11. **Clayton, M.K.** 2017. Green Flatsedge – Love It or Hate It. *Victoria Advocate Newspaper*, August 27, 2017 print.
12. **Clayton, M.K.** 2017. Did You Know? *Victoria Advocate Newspaper*, September 24, 2017 print.
13. **Clayton, M.K.** 2017. Why It’s Easy to Overgraze with Cattle. *Victoria Advocate Newspaper*, October 22, 2017 print.
14. **Clayton, M.K.** 2017. Rangeland Management: Things You Can Do This Winter. *AgMag*, Winter Edition.
15. **Clayton, M.K.** 2017. Using Drones for Ranch Management. *Victoria Advocate Newspaper*, November 26, 2017 print.
16. **Clayton, M.K.** 2017. Texas Range Facebook Page: 25 posts contributed.
17. Hart, C., R. Lyons, J. Ansley, and **M. Clayton**. 2016. Integrating Herbicides in Wildlife Habitat Management: A technical guide for brush management with herbicides. *Dow AgroSciences Publication*.

18. **Clayton, M.** 2015. Rangeland Practices You Can Do This Winter. Texas Landowner Association Magazine Winter 2015 (pp 66-68)
19. **Clayton, M.** 2015. 28 Facebook Posts. Texas Range Facebook Page
20. **Clayton, M.**, and A. McDonald. 2014. Native Rangeland Restoration in the Midst of Oil and Gas Activity Summary. Texas A&M AgriLife Extension nEXT Talk Series.
21. **Clayton, M.** and L. Redmon. 2014. Native vs. Introduced Pastures. Texas Landowner Association Magazine Fall 2014 (pp 58-60).
22. **Clayton, M. K.** Notes From the Chair. Rangeland Wildlife Working Group Newsletter. May 2014.
23. Alldredge, B. and **M. Clayton.** Managing Cattle during Drought. Texas Landowner Association Magazine. May 2014.
24. Santa Ana, R. Smartphone app for livestock producers now available. February 21, 2014. AgriLife Today/Reprinted in GulfCoast Cattleman. Contributor.
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26. **Clayton, M. K.** 2013. Lytle Blankenship Celebrating Our Wildlife Heritage Interview. The Wildlife Society.
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5. Ledbetter, K. 2019. Generation Next School Open for Registration. AgriLife Today. July 2019.
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7. Rodriguez, R. Ranchers face ongoing battle with brush. KRIS Channel 6 News in Corpus Christi. Aired 12 June 2018.
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9. Schattenberg, P. Generation Next Course to Be Held. January 2018.
10. Aldaco, A. South Texas Farm & Ranch Show Special Edition. Victoria Advocate Newspaper. September 2017.
11. Voth, K. Cow Poop Analyzer App Estimates Forage Quality. On Pasture August 7, 2017 edition. <https://onpasture.com/2017/08/07/cow-poop-analyzer-app-estimates-forage-quality/>. August 2017.
12. Schreiber, C. Study Shows Not All Brush Herbicides Bad for Wildlife. Livestock Weekly July 6, 2017 edition, pps 10-11. July 2017
13. Ledbetter, K. More Women Taking on Agriculture Land Ownership. AgriLife Today. October 2016.
14. Cargo, K. Importance of Forage and Plant Identification. The Victoria Advocate Newspaper. September 2016.
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16. Hopkins, J. Wildlife and its Effects on Rangelands. The Battalion Newspaper. August 2015.
17. Cole, R. Generation Next: Our Turn to Ranch. KRIS TV Corpus Christi. April 2015.
18. St. James, T. Rangeland Management Practices. All Ag Radio Network. April 2015.
19. Fannin, B. Rangeland Management Practices. Texas Radio Stations. April 2015.
20. Rosentswieg, A. Generation Next: Our Turn to Ranch. Bryan Broadcasting Publications: At Home Magazine. January 2015.
21. Smith, C. Native vs. Introduced Forages. Lone Star Outdoors Radio Show. December 2014.
22. Osborn, M. Native Reseeding in South Texas for Quail. WFSC Extension Blog. July 2014.
23. Hunt, J. Texas Range Webinar Series. KGNC Radio Amarillo. May 2014.
24. Terrell, C. Smartphone Apps. Gulf Coast Cattleman. April 2014.

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26. Gully, J.R. Agricultural Lync Conference Coming Soon. Down on the Farm. Radio Show KTFX Corpus Christi Affiliate. May 2013.
27. Garrett, L. Landowner Wildfire Prevention. Southern Livestock Standard. February 2013.
28. Rural Free Delivery Television. Dow Agrosiences Heritage Tour Interview. May 2012.
29. Garza, A. Texas A&M University – Kingsville Javelina Today Magazine: Alumni Focus. Volume I: Page 30. 2011.
30. Channel 3 Television News – Corpus Christi. Wild Turkey management and upcoming landowner workshop opportunities. 2007.
31. National Public Radio (NPR) Interview. Caesar Kleberg Wildlife Research Institute and the Houston Safari Club. 2006.

## 8. Research reports

1. **Clayton, M.K.** 2019. Corteva South Texas Data Summary Report 2019. Texas A&M AgriLife Extension Service, Corpus Christi, Texas.
2. **Clayton, M.K.** 2019. Bayer South Texas Data Summary Report 2019. Texas A&M AgriLife Extension Service, Corpus Christi, Texas.
3. **Clayton, M.K.** 2019. South Texas Research: 2019 Data Report. Texas A&M AgriLife Extension Service, Corpus Christi, Texas.
4. Wester, D.B., S. Rideout-Hanzak, **M.K. Clayton**, D.A. Golembiewski. 2019. Current Research: Managing tanglehead with prescribed fire and herbicides. Caesar Kleberg Wildlife Research Report, July 2019.
5. **Clayton, M.K.** 2019. Aerial Huisache Research Proposal. O’Connor Families/Greta Ranch, August 2019.
6. **Clayton, M.K.** 2018. Corteva South Texas Data Summary Report 2018. Texas A&M AgriLife Extension Service, Corpus Christi, Texas.
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8. **Clayton, M.K.** 2017. South Texas Research: 2017 Data Report. Texas A&M AgriLife Extension Service, Corpus Christi, Texas.
9. Falk, A.D, F.S. Smith, K.A. Pawelek, D. Rankin, **M.K. Clayton**, and K. Haby. 2013. Evaluation of pipeline reseeding techniques. CKWRI 2013 Annual Report. Texas A&M University – Kingsville, Kingsville, Texas.
10. Kauffman, Ed C., **M. K. Dominguez**, D. G. Hewitt, A. M. Fedynich, T. W. Schwertner. 2007. Survey of Blood Parasites in Rio Grande Wild Turkey from South Texas. Caesar Kleberg Wildlife Research Institute: Current Research 2006-2007.
11. **Dominguez, M. K.**, D. G. Hewitt, W. P. Kuvlesky, Jr., S. J. DeMaso. 2007. Wild Turkey Management in Texas: The Effectiveness of Landowner Workshops. Caesar Kleberg Wildlife Research Institute: Current Research 2006-2007.
12. **Dominguez, M. K.**, D. G. Hewitt, W. P. Kuvlesky, Jr., S. J. DeMaso. 2007. The Impact of Overwinter Nutrition on Rio Grande Wild Turkey Productivity. Caesar Kleberg Wildlife Research Institute: Completed Research 2006-2007.
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## 9. Online courses developed

1. **Clayton, M.K.** 2019. Generation Next: Our Turn to Ranch. Platform: D2L/AgriLife Learn. Assisted by Mandy Krause, Annette Cayard, Caitlyn Calvert
2. **Clayton, M.K.** 2018. Generation Next: Our Turn to Ranch. Platform: Moodle. Assisted by Mandy Krause, Pete Flores, Holly Jarvis Whitaker
3. **Clayton, M.K.** 2016. Generation Next: Our Turn to Ranch. Platform: Adobe Connect. Assisted by Pete Flores, Mandy Krause

## 10. Computer applications/websites developed

1. *Generation Next: Our Turn to Ranch* Website: [<https://generationnext.tamu.edu>] **Clayton, M.** and P. Flores
2. *South Texas Rangelands* Website: [<http://southtexasrangelands.tamu.edu/>] **Clayton, M.**
3. *CowPoopAnalyzer* Android and Apple Application: 2015. **Clayton, M.** and R. Lyons.
4. *GrazingCalc* Smartphone Application: Released February 2014. Alldredge B., T. Sink, **M. Clayton**, R. Lyons, J. Pettingill, N. Madole, and C. Sink.

## 11. Miscellaneous materials developed

1. **Clayton, M.K.**, and M. Treadwell. 2018. Texas A&M AgriLife Extension Service Prescribed Burn Guidelines.
2. **Clayton, M.K.**, and R.K. Lyons. 2018. Guidelines for Data Submission to the Texas A&M Herbicide Use Committee and Example Submission form.

## D. FINANCIAL SUPPORT OF EXTENSION ACTIVITIES

### 1. Grants/Contracts Funded

**Table 18.** Select External Competitive Grants and contracts funded to support Extension research and educational activities including total awarded and Dr. Clayton's portion.

Project Year(s)	Grant	Title	Awarded (\$)	Clayton Portion
2019	USDA-NIFA-AFRI Education & Workforce Development	Connecting Healthy Habitats with Healthy Agriculture in Secondary Education	170,735	12,862
2017-2020	USDA – Conservation Innovation Grant	Forage Forecasting/Nutritional Analytics: Decision-Support for Rangeland/Grazingland Ecosystems	613,745	62,126
2014	Sustainable Ag Research &	Farming for the Future	55,904	55,904



Project Year(s)	Grant	Title	Awarded (\$)	Clayton Portion
	Education: Prof Devel. Grant			
2012	Texas Parks & Wildlife Department Wildlife Research	Management of Invasive Bluestems to Restore Native Grasslands	185,308	36,000
2010-2011	The Hal & Charlie Peterson Found.	Educational Habitat Demo Sites	9,895	9,895
2010-2011	Partners for Fish & Wildlife	Educational Habitat Demo Sites	13,500	13,500

## VII. REPORT OF SERVICE ACTIVITIES

### A. SERVICE WITHIN TEXAS A&M UNIVERSITY

1. Extension Director Sounding Board Representative, 2020
2. Texas A&M AgriLife Digital Agriculture Advisory Board, 2019-2020
3. Texas A&M University Graduate Faculty Member, 2019-2020
4. Texas A&M University Herbicide Use Committee, 2014-2020
5. National EDEN Delegate, 2013-2020
6. Texas A&M University – Kingsville Graduate Faculty Member, 2012-2017, 2019-2020
7. Texas A&M Extension Director Search Committee, 2018-2019
8. Vice Chancellor’s Awards Committee, 2019
9. Department Restructuring Committee (ESSM/WFSC), 2019
10. Department of Soil and Crop Sciences Extension Weed Specialist Search Committee, 2017
11. Chair of Wildfire Incident Resource Team, 2012-2014
12. Dept. of Ecosystem Science and Management Department Head Search Committee, 2013
13. Dept. of Ecosystem Science and Management Extension Specialist Search Committee, 2013
14. Texas A&M University – Kingsville Doctoral Program Review Committee Member, 2011

### B. SERVICE WITHIN THE DEPARTMENT OF RANGELAND, WILDLIFE, AND FISHERIES MANAGEMENT (RWF; FORMERLY DEPARTMENT OF ECOSYSTEM SCIENCE AND MANAGEMENT; ESSM)

1. Chair of Uvalde Extension Range Specialist Search Committee, 2020
2. RWF Faculty Advisory Committee, Mission & Vision Subcommittee, 2020
3. Dr. Maureen Frank Mentor Committee, 2020
4. ESSM Tenure and Promotion Committee, 2016-2020
5. Coordinator, Texas Range Webinar Series, 2013-2020
6. Chair of James Jackson Mentor Committee, 2017-2020
7. ESSM/WFSC Department Restructuring Committee, 2019
8. ESSM Awards Committee Member, 2017, 2019
9. ESSM Outreach & Integration Sub-committee, 2015
10. ESSM Department Head Search Committee, 2013-2014
11. ESSM Academic Review Team, 2014

12. San Angelo Extension Range Specialist Search Committee, 2013
13. PestMan Review Panel, 2012

### **C. SERVICE WITHIN TEXAS A&M AGRILIFE EXTENSION**

1. Chair of Uvalde Extension Range Specialist Search Committee, 2020
2. Dr. Maureen Frank Mentor Committee (100% RWF), 2020
3. Southeast Region Beef and Forage Initiative Planning Team, 2020
4. Chair of James Jackson Mentor Committee, 2017-2020
5. Dr. Scott Nolte Mentor Committee (100% SCS), 2017-2020
6. Texas Sustainable Ag Research and Education Advisory Council, 2016-2020
7. Dr. Emi Kimura Mentor Committee (100% SCS), 2015-2020
8. Bennett Trust Educational Programs Committee, 2014-2020
9. Texas A&M Herbicide Use Committee, 2014-2020
10. National EDEN Delegate for Texas A&M AgriLife Extension, 2013-2020
11. Texas A&M AgriLife Extension Director Search Committee, 2018-2019
12. Co-chair of Extension Prescribed Burn Guidelines Review Committee, 2018
13. Soil & Crop Sciences Weed Specialist Search Committee, 2016-2017
14. Southeast Region Ag and Natural Resources Committee, 2016
15. Texas Extension Agent Pesticide Certification Committee, 2016
16. District 12 First Step Committee for New Agents, 2016, 2020
17. National Wildlife Habitat Evaluation Contest Committee, 2013-2016
  - Past-Chair 2015-2016
  - Chair 2014-2015
  - Chair-Elect 2013-2014
18. Quail Initiatives Extension Committee, 2014-2015
19. Wildfire IRT Committee, 2011-2014
  - Chair of committee 2013-2014
  - Co-Chair of committee 2011-2013
20. Chair of Extension Prescribed Burn Guidelines Review Committee, 2014
21. Corpus Christi Extension Agronomist Search Committee, 2014
22. Prescribed Fire Advisory Committee, 2011-2012
23. Texas Wildlife Habitat Evaluation National Contest Hosting Committee, 2012
24. Rainwater Harvesting Task Force, 2012

### **D. LEADERSHIP AND PARTICIPATION IN PROFESSIONAL SOCIETIES**

- |   |                |
|---|----------------|
| 1. Society for Range Management (International)       | 2010 – Present |
| • Finance Committee Member                            | 2017 – 2020    |
| • Wildlife Habitat Committee Member                   | 2013 – Present |
| • Nominations Committee Member                        | 2013 – 2016    |
| • 2016 Conference Program Committee/Publicity Chair   | 2014 – 2016    |
| • Academic Interview Workshop Chair                   | 2013           |
| • Graduate School Workshop Committee Co-Chair         | 2012           |
| • Graduate Student Research Presentation Judge        | 2011           |
| 2. Texas Section Society for Range Management (State) | 2010 – Present |
| • Board of Directors                                  | 2019 – 2021    |

- 2020 Annual Meeting Program Co-chair 2020
  - Grass Roots Award Committee Member 2014 – 2019
  - Publication Awards Committee Member 2011 – 2018
  - Youth Range Workshop Director 2012, 2013
  - Land Management Awards Committee Member 2012, 2013
  - Exhibitor/Sponsorship Sub-Committee Chair 2012
3. The Wildlife Society (International) 2003 – Present
    - Treasurer of Rangeland Wildlife Working Group 2017 – Present
    - Member of Rangeland Wildlife Working Group 2012 – Present
    - Leadership Institute Committee Member 2012 – Present
    - Member of Education & Outreach Working Group 2014 – Present
    - Conservation Education Award Committee 2017 – 2019
    - Past Chair of Rangeland Wildlife Working Group 2017 – 2018
    - Range 101 Workshop Coordinator 2017 – 2018
    - Chair of Rangeland Wildlife Working Group 2012 – 2016
    - Working Group Symposium Committee 2015
    - Symposium Proposal Committee/Moderator 2014 – 2015
    - Chair of Excellence in Wildlife Education Committee 2014
    - Leadership Institute Member 2012
    - Founded Rangeland Wildlife Working Group 2012
  4. The Southwest Section of The Wildlife Society (Regional) 2012 – Present
  5. Texas Chapter of The Wildlife Society (State) 2001 – Present
    - Conservation Camp Committee Member 2005 – Present
    - Women in Natural Resource Leadership Speaker 2018
    - Annual Meeting Local Arrangements Committee 2014 – 2015
    - Conservation Camp Director 2009, 2011
    - Scholarship Committee Member 2011
  6. Texas Wildlife Association 2007 – Present
    - Buckskin Brigade Educator 2018 – 2019
    - Youth Hunt Mentor 2007
    - Feathered Forces Brigade Counselor 2006
  7. North American Association of Environmental Educators 2010 – 2012
  8. Texas Association of Environmental Educators 2010 – 2012
  9. Texas A&M Chapter of The Wildlife Society 2000 – 2003
    - President 2003
    - Career & Graduate School Committee 2001 – 2003
    - Fundraising Committee 2001 – 2003
    - Education Chair 2002
  10. Wildlife and Animal Science Graduate Student Organization 2003 – 2009
    - New Student Manual Committee 2009
    - President 2006
    - Secretary 2005
  11. South Texas Chapter of Quail Unlimited 2005 – 2009
    - Fundraising Banquet Volunteer 2005 – 2008
    - Coordinator of Volunteers 2006
  12. National Wild Turkey Federation 2006 – 2010

- |                                 |             |
|---------------------------------|-------------|
| 13. Ducks Unlimited             | 2007 – 2009 |
| • Fundraising Banquet Volunteer | 2005 – 2008 |

#### **E. EDITORIAL REVIEWS**

1. Texas A&M AgriLife Extension Publication, 2019
2. Texas A&M AgriLife Extension Publication, 2019
3. Hatch Project Proposal Review, 2018
4. Caesar Kleberg Wildlife Research Institute Internal Review, 2018
5. Southern Sustainable Agriculture Research and Education (SARE) Professional Development Grant Pre-proposals (4), 2018
6. Texas A&M AgriLife Extension Publication, 2018
7. Texas A&M AgriLife Extension Publication, 2018
8. Rangeland Ecology and Management, 2018
9. Rangeland Ecology and Management, 2018
10. Texas A&M AgriLife Extension Publication, 2015
11. Journal of Forage and Grazinglands, 2014
12. USDA – NIFA Grant Proposals (3), 2014
13. Journal of Rangeland Applications, 2013
14. Journal of Wildlife Management, 2013
15. Texas A&M AgriLife Extension Publication, 2011
16. Texas A&M AgriLife Extension Publication, 2011

#### **F. NOTEWORTHY PROFESSIONAL DEVELOPMENT ACTIVITIES**

##### **Certifications/Licenses**

1. Texas Department of Agriculture Non-political Commercial Pesticide Applicator License, renew annually, earn 5 Continuing Education Units annually, 2010-2020
2. Federal Aviation Administration Part 107 sUAV Pilot License, renew biennially, 2017-2020

##### **Trainings**

1. Texas A&M GIS Mapping Training, College Station, 2011
2. King Ranch Institute Prescribed Burn Lectureship, 2011
3. Riparian Stewardship & Watershed Stewardship Trainings, 2010