

# Kevin Jack Bush

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6500 Amarillo Blvd West  
Amarillo, TX 79106  
Email: [kjbush@ag.tamu.edu](mailto:kjbush@ag.tamu.edu)

Phone: (806) 677-5600  
Cell: (806) 683-6484

## Key Skills

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Endangered species surveys  
In-stream flow measurements  
Habitat suitability model development  
Habitat Evaluation Procedures (HEP)  
Bird banding  
Wildlife surveys  
Interpretive trail development  
Wildlife depredation management

Rangeland management  
Computer skills in MS Office including:  
Word, Excel, PowerPoint, ArcView GIS,  
and SPSS statistics  
GPS  
Technical report writing  
Biological statistics

## Relevant Experience

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*Technician I*  
Texas A&M University Research Center

2003 - Present  
Amarillo, TX

- Conducted air quality research
- Operated and maintained the Federal fine particulate monitoring station in Amarillo.
- Collected data at confined swine farms and cattle feedlots using TEOM machines, NH<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub> analyzers, and total suspended particulate samplers.
- Identified and corrected electronic, mechanical, and logistic problems in the field.
- Design, fabrication, and operation of experimental apparatus.
- Supervised student workers.
- Managed and analyzed large data sets using several Microsoft programs.
- Evaluated and revised sampling protocols.
- Wrote various technical reports.

*Crew leader*  
U.S. Forest Service (Glacier National Park)

Summer 2004  
West Glacier, MT

- Northern Continental Divide Grizzly Bear DNA Project
- Set hair snag traps to capture bear hair for DNA sampling
- Collected Grizzly bear hair/DNA samples
- Supervised field crews
- Trained new crew members in sampling protocols
- Located specific trap locations in remote areas using maps, compasses, and GPS units.
- Responsible for procurement and maintenance of field equipment and instruments.
- Responsible for obtaining permits and coordinating logistics for nine day backcountry collection sessions.

*Research assistant*  
West Texas A&M University

1999- 2002  
Canyon, TX

- Conducted research on the Cagle's map turtle (*Graptemys caglei*) including: Population estimation (capture mark recapture), and determination of habitat requirements using in-stream flow methodologies.
- Developed a habitat suitability model following U.S.F.W.S. protocol.
- Coordinated with Texas and federal endangered species specialists, Edwards Aquifer Authority and Guadalupe -Blanco River Authority.
- Worked closely with private landowners, and local agencies in *Caglei* study and provided management recommendations.
- Prepared a technical report on abundance, distribution, and habitat requirements for *Caglei*.
- Conducted aquatic insect surveys and identification of aquatic insects determining prey base, prey streamflow, and physical habitat requirements.
- Operated and maintained equipment including: motor boats, flow meters, GPS units, laser range finders, and surveying equipment.
- Produced morphometric maps using ArcView GIS software delineating *Caglei* locations, habitat, and select stream characteristics for use as a management tool.
- Prepared technical project status and summary presentations for the Authorities, State and Federal agency representatives and the public.

*Laborer* Summers of 1997 and 1998  
Haggerman National Wildlife Refuge Sherman, TX

- Built and maintained boundary and interior fences.
- Operated machinery including: tractors, dump trucks, mowers, and chainsaws.
- Welding and other metal fabrication used to build fences and water control structures used for wetland management and erosion control.
- Feral hog population management

*Americorps Program Volunteer* 1996 – 1997  
Muleshoe National Wildlife Refuge Muleshoe, TX

- Conducted waterfowl and other bird surveys.
- Conducted prairie dog survey and abundance estimation.
- Collected data for a grassland management plan and relocating grazing unit boundaries.
- Conducted a waterfowl banding project.
- Interpretive trail maintenance including mowing, rebuilding of eroded portions, and selected vegetation removal.
- Conducted surveys on plants and animals and designed and built interpretive sign posts which identify and describe species located along the trail.
- Designed brochure dealing with interpretive trail and observation tower.
- Assisted in general refuge management such as fence building and removal, clearing sand from buried fences, installing gates, and construction of observation tower.
- Hosted talks and presented refuge information to school groups, scout groups, and visitors.
- Conducted small mammal trapping.
- Cared for and rehabilitated injured animals brought to the Refuge.

## **Education**

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South Plains College 1996 – 1997

West Texas A&M University 1997 - 2002  
B.S. Wildlife Biology GPA: 3.467 2000

M.S. Wildlife Biology GPA: 4.0 2002  
Thesis: A Habitat Suitability Model for the Cagle's Map Turtle  
*Graptemys caglei*

### **Relevant Coursework**

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Introductory Wildlife Management	Genetics
Wildlife Management Techniques	Ecology
Human/ Landscape Ecology	Ornithology
Natural History of Vertebrates	Mammalogy
Conservation Biology	Herpetology
Plant Classification	Wildland soils
Animal Behavior	Arachnology
Fisheries Biology	Systematics
Marine Biology	Biometry
Plant Geography	Botany

### **Organizations**

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WTAMU Wildlife Club  
 WTAMU Environmental Science Society

### **Certifications and Professional Training**

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S-130 Wildland Firefighter Training  
 S-190 Introduction to Wildland Fire Behavior  
 Wilderness First Aid (Aerie Backcountry Medicine exp. 6/1/06)  
 Interpreting Indicators of Rangeland Health Seminar (USDA, NRCS September, 2004)

### **Publications**

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- Killebrew, F.C., W.J. Rogers, J. Babitzke, and K.J. Bush. 2002. Assessment of Instream Flow and Habitat Requirements for Cagle's Map Turtle *Graptemys caglei*. A report to the Edwards Aquifer Authority. San Antonio, TX.
- Koziel, Jacek A., Bok-Haeng Baek, Candace L. Bayley, Kevin J. Bush, Jarett P. Spinhirne, Adrian Bolota, and John M. Sweeten. 2004. NH<sub>3</sub>, H<sub>2</sub>S, CO<sub>2</sub>, PM, and Odor Animal Emission Data from the Six-State (APECAB) Project: Swine Finisher Buildings in Texas. Paper No. 1043. Proceedings of the ASAE. In Press.
- Koziel, Jacek. David B. Parker, Bok-Haeng Baek, Kevin J. Bush, Marty Rhoades, and Zena Perschbacher-Buser. 2004. Ammonia and Hydrogen Sulfide Flux from Beef Cattle Pens: Implications for Air Quality Measurement Methodologies and Evaluation of Emission Controls. Proceedings of the ASAE. In Press.