

# ***Headquarters U.S. Air Force Safety***

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*Safeguarding Airmen - Protecting Resources - Preserving Combat Readiness*

CLEARED  
For Open Publication

Sep 11, 2018

Department of Defense  
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

## ***USAF Bird/wildlife Aircraft Strike Hazard/SMR update***



**USAF BASH Team**  
**USDA Wildlife Services**

**U.S. AIR FORCE SAFETY**

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# Objective



## USAF BASH Team Program and Initiatives



*Safeguarding Airmen - Protecting Resources - Preserving Combat Readiness*



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# Overview

- **HQ AFSEC/SEFW Personnel**
- **BASH Staff Assistance Visits**
- **AFI 91-212**
- **Training**
- **BASH Equipment/Weapons**
- **Bird/Drone Detection Radars**
- **Research**



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# ***HQ AFSEC/SEFW Personnel***

## **■ HQ AFSEC/SEFW**

- Currently 2 biologist and 1 Reservist (remaining time on station unknown)**
  - Mr. Kyle Russell – New BASH Deputy Chief (reported 30 July)**
- AFSEC BASH and USDA Agreement**
  - USDA-WS Liaison at Safety Center**
  - Utilize Selected WS biologist for SAVs**
- Two AF Positions Unfilled (Lt/Captain: 61C)**
- Supplement with Guard/Reserve?**



# **AF BASH Staff Assistance Visits**

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- **Current SAVs**
  - **Incirlik AB, Aviano AB, Chievers AB (Aug. 2018)**
- **Upcoming SAVs**
  - **CONUS: McGuire AFB, Sheppard AFB, Columbus AFB, Langley AFB & Dobbins AFB**
  - **OCONUS: Misawa, Yokota, Kadena (Oct/Nov), Hickam AFB & Wake Island (Jan/Feb), RAF Fairford (Spring 2019)**
- **USDA-WS Biologists Will Supplement USAF BASH Team – AFSEC Rep Will Be Present**



# ***New BASH AFI 91-212***

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- **Combined AFPAM 91-212 & AFI 91-202**
  - **Corrections needed – Guidance Memos/Interim Changes**
    - **Tier System Amendment**
      - Airfield Vegetation Height Waiver: Should be Tier 1 (AFSEC) not Tier 2 (MAJCOM)
  - **Pictures for Wildlife Identification**
    - **ID by Smithsonian or BASH Team**
  - **Mandated Formal Wildlife Surveys**
  - **Wildlife Hazard Assessment**



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# ***AFSEC Training***

- **Increasing BASH Training at AFSEC**
  - **Currently for COS, ASPM and IFSO (2 hrs.)**
  - **Future BASH Training at AFSEC**
    - **FSNCO**
      - **Currently conducted in San Antonio**
      - **SEFW developing curriculum 2-3 days at AFSEC**
      - **Involve USDA-WS liaison as instructor**
    - **Pest Management, Natural Resources, Airfield Management**
      - **Multiple AF agencies together for BASH training**
      - **Debate, Ideas, Conflicts – increase communication amongst AF agencies**



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# ***BASH Equipment/Weapons***

- **Currently Approved for AF Pers. (AFI 91-212)**
  - **Pyrotechnics**
    - **Bangers, Screamers, CAPA high altitude pyrotechnic, shell crackers**
  - **Laser**
    - **Avian Dissuader (Red)**
  - **BASH Shotgun (Remington 870)**
    - **2/installation – Small Arms Distributes upon request**
    - **COTS approved 12 ga. Ammo: Steel shot # 2, 4, 6, BB & lead slug**





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# ***BASH Equipment/Weapons***

- **Looking to the Future for AF personnel**
  - **GPS Units to Assist Mandated Surveys**
    - **Download Directly into AFSAS/GIS**
  - **Green Laser Approval**
    - **Color/wavelength – Species Specific effectiveness**
  - **Single-shot break-open 12 ga. Shotgun**
    - **Used for Shell Crackers**
  - **M24 Rifle for Large Mammal Removal**
    - **AF BASH Team must develop CONOPS and Ammo Approval prior to use**



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# ***Bird/Drone Detection Radars***

- **AF BDRs (DeTect, Inc.)**
  - **Dare County Range, Whiteman, Beale, Dover, Offutt and Randolph**
  - **Modified to Detect Birds and Drones**
  - **DeTect MERLIN unit**
    - **Dual Function Simultaneously**
      - **One output providing bird target/strike risk**
      - **Separate track providing drone target/detection**
      - **Algorithms to differentiate (site specific)**
      - **Drone tracks different than birds**



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# Research

- **AFI 91-212 & AFI 91-202**
  - **HQ AFSEC SEFW: Identify Air Force BASH research requirements, developing and managing research projects**
    - **Understanding the prevalence of vultures in SE U.S. w/ implications for reducing wildlife strikes with USAF aircraft**
    - **Estimating the costs of wildlife strikes and the benefits of wildlife strike management at USAF installations**
    - **Develop aircraft lighting to decrease wildlife strikes**



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# ***BASH Team***



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