



South Dakota Wing Roundup



CIVIL AIR PATROL • SPRING 2018 • UNITED STATES AIR FORCE AUXILIARY



**South Dakota Wing has been assigned a Civil Air Patrol Glider!
Our bright yellow L-23 Super Blanik, a two-person, all aluminum glider, will be used to provide orientation rides to our cadets beginning in the summer of 2018**



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The Civil Air Patrol is a non-profit volunteer organization federally chartered by Congress under 36 U.S.C. §§201-28, which is dedicated to emergency services, aerospace education and motivation of America's youth to the highest ideals of leadership and public service. Funds received by the advertising sales are used to support this publication and to support various CAP activities throughout the state of South Dakota.

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SUPPORT OUR CADETS
. THEY ARE OUR FUTURE!!!

SOUTH DAKOTA WING GETS A GLIDER



*By Lt. Col. Buck DeWeese, CAP
South Dakota Wing Vice Commander*

Look! Up in the sky – it’s a Super Blanik L-23! After last summer’s very successful Aerospace Education Week South Dakota Wing (SDWG) started looking for our own glider. We accepted North Central Region’s offer to transfer a bright yellow Super Blanik L-23, two-person, all aluminum glider from Minnesota Wing to us. Over Thanksgiving weekend Lt. Col. Bill Strandell and I travelled to Stanton, MN where we accepted transfer of the aircraft, its travel trailer and the associated documents. On 25 November, Lt. Col. Strandell towed the glider in its trailer to Sioux

Falls on the first leg of the journey to its new home. It completed its journey to Spearfish in December. Why Spearfish, you ask? Many reasons:

- The uplift off the prairie winds on to the upslope of the Black Hills is ideal for sustained operations.
- Spearfish has minimal IFR/commercial/VFR traffic which must yield to airborne gliders. So minimal interference.
- We already have three rated Glider Pilots and Tow Pilots in Spearfish and Rapid City.
- Spearfish offers free hangar space for the glider



Cadets receive a pre-flight briefing on the glider’s controls. The cadet pilot sits in the front seat.



Glider coming in for a landing after a cadet orientation flight.

by one of our own members, fully assembled or in the trailer.

- The Clyde Ice Field Airport manager and Airport has given their blessing for full support of the Glider Operation.
- We have two other nearby airports (Belle Fourche and Sturgis) for landing out.
- The Black Hills offer the ideal thermal lift conditions for Glider Operations.

The L-23 is a glider, not a sailplane. The L-23 has a 23-1 glide ratio whereas most modern sailplanes have a 50-1 or higher greater ratio. Sailplanes are designed to sail on the winds aloft taking advantage of thermals and updrafts. The winds blowing off the prairie hit the west and north upslopes of the Black Hills for a tremendous mechanical advantage. While the L-23 is capable of taking advantage of this its much lower glide ratio basically allows it to glide to the nearest

airport for a landing.

The CAP National Fleet consists of 46 two-place gliders. As a Wing, we are expected to conduct at least 200 aircraft sorties (flights) per year. Having a glider will give us 200 additional aircraft sorties per year since we will use our Cessna- 182T, tail number N832CP, as the tow plane to launch the glider. It already has a tow-hook installed on it, one of only a handful in CAP's inventory. We expect 50 to 100 sorties training and requalifying SDWG pilots as tow pilots and glider pilots. The three we have on staff now needs to at least double, hopefully before June, 2018. So consider this a callout to all former and interested pilots to get their glider rating and tow pilot qualification.

We will be busy developing training programs, time lines and scheduling initial and re-qualification training so we can start Glider Orientation Rides in the summer of 2018. Each cadet is entitled

to 5 glider rides just as in powered aircraft. We hope to offer at least one weekend per month to accommodate that along with the annual Aerospace Education Weekend.

Exciting times are ahead! Cadets – can earn their Glider Solo Wings. We hope that having an active Glider Training Program for both cadets and officers in SDWG will enhance recruiting, retention and everyone's overall experience in Civil Air Patrol. 🇺🇸



Lt. Col. DeWeese and Lt. Col. Strandell unhitch the glider's transport trailer during its stopover in Sioux Falls.

TWO SOUTH DAKOTA CADETS EARN THEIR SOLO WINGS

*By Lt. Col. Craig Goodrich, CAP
Wing Director of Operations*



Cadet 2nd Lt. Julia Lair at the controls.

Congratulations to Cadet 2nd Lt. Julia Lair of Sioux Falls Composite Squadron who, on 25 November, successfully completed her first solo flight in her quest to earn a private pilot's license! The 25th was especially special as it was Julia's sixteenth birthday, the first day she could legally fly by herself. When asked by a KDLT reporter "How long have you been waiting for this day?" she replied "Basically my whole life." Looking on from the ground was her flight instructor, her father Greg Lair, an F-16 fighter pilot and Vice Commander of the 114th Fighter Wing of the South Dakota Air National Guard as well as a pilot for United Airlines. Col. Lair has been teaching Julia how to fly since last spring, cheering her on from the right-hand seat. Julia flew her solo flight out of the airport in Tea, SD. Julia successfully completed four take-off and landings. To commemorate this special event after she landed, in a time honored ritual her instructor pilot cut off the tail of Julia's



Cadet 2nd Lt. Julia Lair preflights her aircraft prior to her solo flight.

t-shirt to symbolize her achievement.

Congratulations to Cadet Chief Master Sgt. Branden Spence of Rushmore Composite Squadron who, on 25 November, successfully completed his first solo flight in his quest to earn a private pilot's license! Looking on from the ground was his flight instructor, Lt. Col. Craig Goodrich, a very experienced pilot as well as the Director of Operations of the South Dakota Wing of the Civil Air Patrol and a pilot for FedEx. He has been teaching Brandon how to fly since last May. They had completed 11 flights with Goodrich in the right-hand seat. Flying out of the Rapid City airport, Branden successfully completed three solo takeoffs and landings. To commemorate this special event after he landed, in a time honored ritual his flight instructor cut off the tail of Branden's t-shirt to symbolize his achievement.



Flight instructor Lt. Col. Craig Goodrich presents Cadet Chief Master Sgt. Branden Spence with his solo certificate.



Cadet Chief Master Sgt. Branden Spence with the tail of his t-shirt inscribed with his achievement.



Commander's Note

By Col. David G. Small Jr., CAP
South Dakota Wing Commander

Invest in our Future

Critical Pilot Shortage Threatens to Ground Air Travel!

I'm sure that you all have seen similar headlines over the past year or so. As one who spends a lot of time on commercial airliners these headlines grab my attention. As a passenger I not only want an airline that is on time – I want excellent pilots.

We don't have to look any further than our cadet corps to see where many of tomorrow's pilots will come from. Two of our outstanding cadets soloed at either end of the state last Thanksgiving weekend. It is impressive to see a mid-teen up in the air by themselves. Before anyone is allowed to solo they have to demonstrate maturity of judgement, quick action under

pressure and clarity of thought. Often we do not associate these qualities with teenagers – but we should with our CAP cadets.

This leads me to the main point of this monologue; we need your help. Cadet pilots don't just happen. It takes a lot of commitment of time from both the cadet and from their dedicated instructors. And yes, it takes a fair amount of money. No better bargain exists on earth than CAP when it comes to teaching young people to fly. Our CFI's do not charge anything for their time and expertise. Cadets have to come up with funds to cover the use of the aircraft and study materials. When a teen makes \$10 or less per hour coming up



with \$100 or more per flight-hour is very daunting.

The South Dakota Wing has set up a new flight scholarship fund for cadets. This fund is built from member and friend donations. You can help by making a tax-free donation to the South Dakota Wing, Civil Air Patrol. Put a note on the check that it is for cadet flight scholarships. The Civil Air Patrol is a 501(C)3 non-profit organization so all donations are tax deductible (yes, even under the new tax plan).

*Please invest in our
youth, our future.*

***SUPPORT OUR CADETS . . .
THEY ARE OUR FUTURE!!!***



FACT SHEET 2017

OUR MISSION

Supporting America's communities with emergency response, diverse aviation and ground services, youth development, and promotion of air, space and cyber power.



ABOUT CAP

Civil Air Patrol is congressionally chartered and operates as a 501(c)(3) nonprofit corporation. CAP performs services for the federal government as the official civilian auxiliary of the U.S. Air Force and for states/local communities as a nonprofit organization. CAP is made up of eight geographic regions consisting of 52 wings (the 50 states, Puerto Rico and the District of Columbia). It is a strategic partner of the Air Force, serving as a member of its Total Force. CAP has three primary missions — Emergency Services, Cadet Programs and Aerospace Education.

Marking its 75th anniversary this year, Cadet Programs can track its beginnings to Oct. 1, 1942 — 10 months after the formation of CAP itself. More than one million cadets have benefited from the Cadet Programs' leadership, character development, fitness and aerospace/STEM education curriculum.



75

MEASURING OUR IMPACT

80

Saves an average of 80 lives per year

560

Operates one of the largest fleets of single-engine piston aircraft in the world, with 560 planes currently in the fleet

56,000

Consists of 1,437 squadrons and approximately 56,000 volunteer youth and adult members nationwide

104,500

Flew over 104,500 hours in 2016

167 million

Contributed nearly \$167 million in man-hours in past year, serving the disaster relief and emergency service needs of communities, states and the nation



CADET PROGRAMS

- ▲ Attracts nearly 24,000 members ages 12-20.
- ▲ Educates youth in four main program areas — leadership, aerospace, fitness and character development.
- ▲ Enriches school curricula through after-school programs.
- ▲ Offers orientation flights in powered and glider aircraft, as well as flight training scholarships.
- ▲ Provides activities and competitions for cadets at the local, state, regional and national levels.
- ▲ Presents opportunities for community

involvement through emergency service missions and color guard/drill teams.

- ▲ Challenges youth to be ambassadors for a drug-free lifestyle.
- ▲ Encourages cadets to “Aim High”; about 10 percent of each U.S. Air Force Academy class is comprised of CAP cadets.
- ▲ Allows cadets who have earned the Gen. Billy Mitchell Award the opportunity to enlist in the Air Force at a higher pay grade.
- ▲ Participates in the International Air Cadet Exchange program.
- ▲ Awards college scholarships in several disciplines.

EMERGENCY SERVICES

- ▲ Conducts 90 percent of inland search and rescue in the U.S. as tasked by the Air Force Rescue Coordination Center and other agencies.
- ▲ Coordinates Air Force-assigned missions through CAP National Operations Center at Maxwell AFB, Ala., at a cost of \$120-\$165 per flying hour.
- ▲ Trains more than 6,900 aircrew members and over 30,700 emergency responders to FEMA standards.
- ▲ Provides 450 chaplains and 500 character development instructors who minister to youth and adult members and help comfort survivors and victims of disasters.
- ▲ Performs aerial reconnaissance for

homeland security.

- ▲ Provides air intercept training, impact assessment, light transport, communications support and low-level route surveys for the Air Force.
- ▲ Provides disaster-relief photography and support to local, state and national agencies.
- ▲ Transports time-sensitive medical materials, blood products and body tissues when commercial resources are unavailable.
- ▲ Assists federal, state and local law enforcement agencies in the War on Drugs.
- ▲ Maintains an extensive nationwide VHF and HF communications network.



AEROSPACE EDUCATION

- ▲ Educates adult and cadet members and the community on the importance of aerospace.
- ▲ Develops, publishes and distributes national academic standards-based science, technology, engineering and mathematics (STEM) aerospace education curricula for kindergarten through college classrooms, affecting about 200,000 K-12 students nationwide.
- ▲ Generates interest in STEM careers through aviation, space and technology focused activities and CAP “STEM Kits” associated with astronomy, flight simulations, model and remote-control aircraft, robotics, rocketry, weather, hydraulic engineering and computer programming.
- ▲ Provides educators with free educational programs, products and services, including airplane orientation flights.
- ▲ Offers grant and college credit opportunities for adult and teacher members.
- ▲ Provides aerospace support for educational conferences and workshops nationwide.





Citizens Serving Communities

Aerospace Education, Cadet Programs & Emergency Services

Have you ever wanted to serve your country, but weren't sure how?

In Civil Air Patrol, a humanitarian and educational nonprofit organization, you CAN serve the United States as a civilian volunteer of the Air Force's auxiliary. Join more than 54,000 members who expand and share their expertise with CAP in a wide variety of fields.



Cadet Programs

Youth 12 to 18 years old can develop leadership and technical skills, learn about aviation and enjoy training in search and rescue, model rocketry, physical fitness, sports, advanced technologies and much more.



Officer Program

Adult members are part of a team of volunteers from all walks of life. And, regardless of your background, you can choose to train in any CAP position. Opportunities are available in writing, flying, radio operations, teaching, emergency services, finance, law, and much, much more.



Civil Air Patrol...Citizens Serving Communities
United States Air Force Auxiliary

For more information go to www.gocivilairpatrol.com

CAPabilities and Aircraft

INTRODUCTION

The Civil Air Patrol (CAP) is the Air Force Auxiliary and a national community service organization made up of professionally trained civilian volunteers. CAP has a modern, well-equipped fleet of aircraft, vehicles and equipment that is exercised and utilized daily. CAP is a locally-available talent and asset pool for federal, state and local government entities.

CAP'S BENEFITS

◆ Professionally trained National Incident Management System (NIMS) qualified personnel ◆ Rapid response ◆ Low cost ◆ Located in all 50 states plus Puerto Rico and the District of Columbia

CAP'S CUSTOMERS

◆ DoD ◆ FEMA ◆ USCG ◆ CBP ◆ USFS ◆ USGS ◆ EPA ◆ DEA ◆ BLM ◆ NOAA ◆ NWS ◆ NGA ◆ plus hundreds of state and local agencies



CAP ASSETS/RESOURCES AVAILABLE

◆ 31,000 trained volunteers ◆ 550 aircraft and over 900 vehicles owned by CAP
 ◆ Over 10,000 VHF-FM and HF interoperable radios ◆ Fixed digital nationwide radio network with over 500 repeaters ◆ 133 tactical (portable) repeaters
 ◆ 900 ground teams ◆ Over 500 chaplains

CAP MISSION TYPES

◆ Search and Rescue ◆ Disaster Response ◆ Drug Interdiction ◆ Law Enforcement Support ◆ Homeland Security ◆ Environmental Monitoring and Response
 ◆ Air Intercept and Radar Evaluation Targets ◆ Low-Level Route Surveys
 ◆ Fire Spotting ◆ Traffic Monitoring ◆ Ground and Aerial Digital Imaging & Reconnaissance ◆ Hyperspectral Imaging ◆ Endangered Species Tracking
 ◆ Air and Ground Communications Support

CAP MISSION DETAILS

◆ Airborne reconnaissance of border and coastal areas, ports and harbors, and critical infrastructure as "presence" missions; impact and damage assessment and recovery support for disaster areas
 ◆ Damage assessment and disaster recovery with trained ground teams able to augment civil and military authorities
 ◆ Aerial transportation of personnel, equipment, blood, tissue, organs and various customer-supplied sensor packages (subject to FAA reimbursement rules)
 ◆ Communications support, nationwide VHF-FM and HF capability to include fixed site and tactical (ground and air) repeaters
 ◆ CAP has ICS/NIMS trained emergency services personnel available to serve at all levels in the Incident Command System mission organization
 ◆ Chaplain and critical incident stress management support



Gippsland GA-8 (16)



Cessna 182 (285)



Cessna 206 (22)



Cessna 172 (195)

Can operate with 2500' runway
 VHF AM and FM radio
 100 aircraft have satellite phones

Cruise speed 110-135 kts

Range 520-730 NM

CADET BLING

*By Lt. Col. Bruce Kipp, CAP
South Dakota Wing Assistant Historian*

When a Civil Air Patrol (CAP) cadet obtains their first dress blue uniform it is bare of what is often referred to as “bling”. This bare condition doesn’t last long as a cadet begins working their way up the eighteen-step Cadet Program. For each step a cadet earns a decoration in recognition of their achievement to wear on their uniform. In addition, decorations are also awarded for participation in a broad spectrum of CAP activities. Within a short time any cadet can begin to acquire an impressive, colorful “ribbon rack”.



Rank insignia and the accompanying decoration (ribbon) for the first nine achievements of the CAP Cadet Program.

Cadet Program consists of four “phases”, each phase consists of several “achievements”. Each achievement equates to a specific rank, from Cadet Airman at the bottom to Cadet Colonel at the top. Completion of each achievement results in promotion to the next higher rank and the award of a ribbon. In addition, cadets can also receive medals and badges for various achievements.



Rank insignia and the accompanying decoration (ribbon) for the second nine achievements of the CAP Cadet Program.

In addition, there are decoration, medals and badges that recognize a single act of heroism, a single meritorious achievement, a continuous period of meritorious service, for participation in CAP events such as an encampment, for recruiting new members, for taking part in community service activities, for participation in National Cadet Special Activities in aviation, aerospace education, science, technology, engineering or mathematics (STEM) programs, as well as flight academies (powered, gliding, hot air ballooning), cadet competitions (at wing, region and national level), music, aircraft maintenance, emergency services (search and rescue, ranger, field medic), computer forensics, leadership academies and symposiums, and the International Air Cadet Exchange program.



CAP dress blue uniform coat of a Cadet Colonel displaying the wide variety of ribbons, medals and badges that a cadet can earn through participation in the Civil Air Patrol and its Cadet Programs.

Per CAP regulations, subsequent awards of the same decoration are denoted by a bronze triangular clasp, or a bronze or silver star worn on the ribbon of the original award. Civil Air Patrol ribbons and badges are worn immediately above the left breast pocket of coats, jackets and shirts when worn as an outer garment.



RANSOMWARE



By Capt. Robert Ball, MTWG Director of IT

Reprinted with permission from Montana Wing from Northern Skies Magazine, Fall 2017

“Ransomware is a type of malicious software that blocks access to the victim’s data or threatens to publish or delete it until a ransom is paid” - Wikipedia. There has been a significant uptick in ransomware attacks lately. The goal in most cases is to get money out of you or businesses that are infected. These ransoms usually must be paid in BitCoin or other similar virtual currency. One thing to keep in mind is there is no guarantee that you will receive the unlock/decrypt code after you pay. Infections typically come via e-mail, a compromised website, or in the latest case of Petya via some sort of existing auto-updater.

How do you protect yourself you may ask? One of the things these latest attacks are showing is how little users and businesses patch their systems. For businesses this is understandable as there is probably a testing and deployment process for new patches to make sure the patch doesn’t break anything. The WannaCry malware which was released in May took advantage of a security flaw that was patched in March. The Petya virus which was released in June took advantage of a security vulnerability that was patched in May. There are a few items you can and should start doing immediately if you are not already.

- Be suspicious of all e-mail attachments and links.
 - Even if you know who the message came from, be suspicious. In some cases it may be worth calling the sender and asking if they really sent you something.
- You should take immediate steps to fully patch your computers and software on a regular basis.
 - The second Tuesday of every month has been nicknamed “Patch Tuesday” this is when Microsoft releases most of their patches. You should try to have all of these patches installed by that Friday if not sooner.
 - Update your browsers IE gets updated with Windows Updates, Google Chrome, Firefox, and others have their own update process.
 - Update other special software on your computers if patches are available.
- You need to have a backup solution and use it regularly. This solution should not be always connected, or if you want to leave a solution connected you should rotate through 2 or more different disks, or backup to tape and rotate through tapes.
 - If your machine is compromised by a crypto program or ransomware. You can simply rebuild it and recover your files from backup. If your backup solution is always connected it may also end up encrypted which is why it is good to use tape or rotate through external disks.
- You should have a credible Antivirus solution installed on your computer and update it daily or more often.
- If you have time start reading security blogs or subscribe to some security alerts.
 - <https://www.us-cert.gov/> is one that I use, it’s free. Sometimes they are ahead of current attacks, sometimes they are a few days behind. If you are not tech savvy you can usually get the basics of the message.

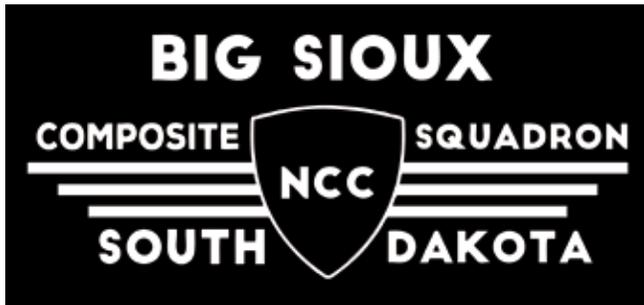
Sources - <https://en.wikipedia.org/wiki/Ransomware>, and https://en.wikipedia.org/wiki/Patch_Tuesday

Heraldry of the

2017 SDWG National Cadet Competition Team

*By Lt. Col. Bruce Kipp, CAP
South Dakota Assistant Wing Historian*

Sixteen teams of CAP cadets from across America gathered at Wright State University in Dayton, OH from 29 June to 4 July for the 2017 National Cadet Competition. The six members of “Team Big Sioux” consisted of three members of Big Sioux Composite Squadron in Brookings and three members of Sioux Falls Composite Squadron in Sioux Falls. Team Big Sioux was one of two teams that represented CAP’s North Central Region at the 2017 national competition.



Design on the back of the Team Big Sioux tee-shirt.

All members of Team Big Sioux wore a black tee-shirt with a single color logo on the front and a single color design and



Design on the front of the Team Big Sioux tee-shirt.

wording across the back. The logo on the front of the tee-shirt is the traditional shield shape with an outer border of white. On the field of the shield is the white outline of two crossed flags that represent the American and State flag used during SDWG Color Guard ceremonies. The crossed flags also symbolize



Team Big Sioux poses with North Central Region Commander Col. Regena Aye at the 2017 National Cadet Competition.

personnel of two squadrons uniting to form Team Big Sioux. At the bottom of the shield’s field is the wording “NCC 2017” in white representing the National Cadet Competition for 2017. Below the lower tip of the shield is a partial rendering of the team name.

The logo on the front of the tee-shirt was created by then Cadet Chief Master Sgt. Annabelle Klosterman. The design and wording on the back of the tee-shirt was created by then Cadet Chief Master Sgt. Mariel Klosterman, both of the Big Sioux Composite Squadron in Brookings, and now both Cadet Officers. They created their designs in June 2017. The designs were approved for wear by Maj. Nicholas Gengler, SDWG Chief of Staff, in June 2017.

Wildlife - Tracking Tiger and Felix

*By Maj. Robert Adam, CAP
South Dakota Wing Headquarters Squadron*



South Dakota Wing flew a proof of capability flight in late 1999 flying Cessna-172P Skyhawk, tail number N97947. At that time N97947 was totally equipped with “steam gauges” a far cry from the Garmin panel it has today. In April of 2000 SD Wing CAP began assisting South Dakota State University (SDSU) with wildlife tracking.



The first SDSU student –tracker was a young lady and she named each of the collared mountain lions that she tracked. The best picture of a lion with collar I have is of Tiger. Felix was the most fun to track

as he was a young male and could not survive in any area that an Alpha male lion had marked. Felix would be on Battle Mountain near Hot Springs and three days later be near Edgemont, three days after that he would be 100 miles North in Wyoming. We flew over Felix a good number of times, but like all the big kitties I never saw one from the air. Evidently Felix still holds a tiny space in my heart, because I think “Run Felix Run” and I hope he has offspring all over the black hills.



North Central Region's First Cadet Honor Academy

*By Cadet 2nd Lt. Annabelle Klosterman, CAP
Cadet Public Affairs Officer, 2017 North Central Region Cadet Honor Academy*

From 3-5 November 2017, approximately 50 cadets from the Minnesota, South Dakota, Nebraska, Missouri, and Wisconsin Wings gathered at Camp Ripley, a Minnesota Army National Guard base, to participate in the first North Central Region Cadet Honor Academy.

The goal of the Cadet Honor Academy program was to prepare cadets to serve on Color Guards and Honor Guards while simultaneously furthering their individual character development. It imparts timeless values of patriotism, community service, ethical leadership, and personal honor. Cadets were trained on the finer points of Air Force-style drill and ceremonies.



Indoor Color Guard performance inspection.



Outdoor Color Guard ceremony instruction on flag folding.



Honor Guard marching practice.

One of the topics cadets learned was how to perform the outdoor flag-raising ceremony. This includes marching to and from the flagpole, raising and lowering the flag and folding the flag. Other courses taught were: manual of arms, marching, innovative drill, and indoor presentation of the colors.

Not only did cadets learn Color Guard, they got the opportunity to learn a little about Honor Guard. 1st Lt. Samuel Huntington from the Rushmore Composite Squadron, a former Honor Guard Academy attendee, demonstrated the various rifle skills he had learned at the Academy. He was able to share his experience and give some insight on the different aspects of Honor Guard.

The weekend concluded with the graduation ceremony recognizing the cadets' hard work. Congratulations to Cadet Airman Novia Pelz

from the Red Wing Composite Squadron, on the 'Most Improved' award, Cadet Chief Master Sgt. Joshua Brown from the Lees Summit Composite Squadron, for the 'Distinguished Graduate' award, Cadet Senior Airman Benjamin Wachtel from the Mankato Composite Squadron, on the 'Esprit De Corps' award, and Cadet 1st Lt. Emily Zimmer from the 130th Composite Squadron, on receiving the 'Outstanding Cadet Staff' award.

Cadets were encouraged to share what they have learned with their own squadron, giving them the quality instruction needed to help create their squadron's Color Guard and Honor Guard program. Special thanks to activity director, Lt. Col. Bonnie Braun, NCR Drug Demand Reduction Coordinator, and to the cadet activity director, Cadet Lt. Col. Boaz Fink, NCR Cadet Activities Officer, for putting on a successful activity. 🇺🇸



Outdoor Color Guard ceremony flag folding drill.



Honor Guard manual of arms practice.

CIVIL AIR PATROL CADETS



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FITNESS
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