

Redstone Rocket

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'Skunk Works' comes through for air defense project

BY SKIP VAUGHN

In November 1988, the planners of a new Army weapon system had a problem. They had to come up with a realistic-looking representative of their system so that it could be used in live fire testing.

This new requirement was not in the original plans for their Line of Sight Forward-Heavy air defense system. So the project office and the program executive office literally had to start from scratch. For assistance, they turned to the system contractors and the Prototype Engineering Division here.

Prototype Engineering Division, affectionately known by the Li'l Abner comic strip nickname "Skunk Works," came through. Last week the Line of Sight Forward-Heavy live fire test vehicle was shipped to Aberdeen Proving Ground, Md., for the vulnerability tests slated for mid-February through April. It met the revised delivery schedule and cost less than originally estimated.

"Our original estimate the test people came up with was just under \$6 million to fabricate the fire unit to accomplish the tests, and we're going to be under budget. That doesn't reflect the big savings," said Doug Hart, a technical management engineer in Line of Sight Forward-Heavy Project Office. "The big savings is that we're not blowing up a real fire unit, that we're able to go in there and get the information we need utilizing a surrogate fire unit."

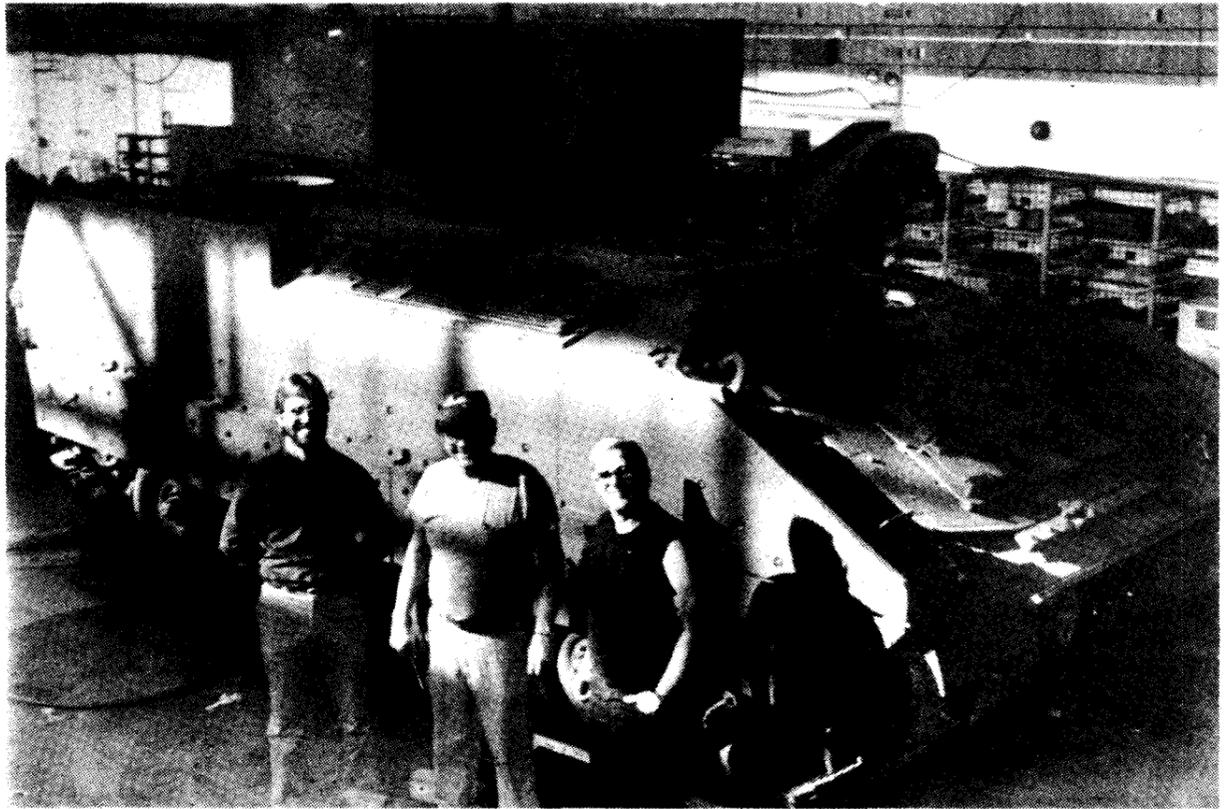
Target for tests

The test vehicle will be used as a stationary target in a series of 12 engagements by the Combat Systems Test Activity at Aberdeen. The idea is to shoot at it with artillery rounds and bomblets to test its ability to survive. "If we put a full-up system there it would cost us about \$11 million," Hart said. "So for between \$2-3 million we've got something out there that will accomplish the tests."

Hart credits the Prototype Engineering Division, particularly a young engineer in that division, with meeting the requirement and saving the government money. "They really kicked off about June (1989) in earnest when they started receiving drawings. And basically since that time we've really turned them loose," he said. "Stan Sherrod is the key that's really done the work on this program; he's interfaced with FMC Corporation, Martin Marietta Missile Systems, and the test agencies. We've had our meetings where we've wrapped it all up, but Stan has really done all the legwork for us."

Stan Sherrod, a mechanical engineer, considers it a team effort of the prototype engineering division. The division is part of the Systems Engineering and Production Directorate of the Research, Development and Engineering Center. Robert Forgey is chief of the division, and John Byrd is the shop supervisor.

"We were initially tasked with this project approximately a year ago," Sherrod said. "It took a lot more work than we thought it was going to; it was more detailed than we initially thought. We spent actually the first five months or so in planning and obtaining



FINISHED PRODUCT — Standing in front of the live fire test vehicle are, from left, Stan Sherrod, Alvie Hughey and Pete Croft, all of Prototype Engineering Division.

necessary drawings, and we actually began fabrication in August."

Representatives traveled last February to St. Jean, Canada, to see the actual fire units that were in production at Oerlikon Aerospace, a subcontractor to Martin Marietta. They then went to FMC Corporation in San Jose to see the M3A2 Bradley, the modified fighting vehicle used for the system. A very used Bradley vehicle was obtained and then modified at FMC. Martin Marietta provided drawings and parts to assist in the final assembly.

"We took the modified Bradley hull from FMC and the turret hull from Martin Marietta and we fabricated surrogate parts which represented the electronics, the gears, the guidance systems, the missiles and so forth that are on the actual fire units," Sherrod said. "Everything is basically a surrogate. We designed the surrogate parts and had them fabricated here at this place and installed them on that vehicle."

Objective

The objective was to build a realistic-looking vehicle that would have all of the potential hazard sources, such as fuel and the pressurized hydraulic system, and the finishes that could possibly produce toxic fumes in case of fire. Rather than the actual parts, empty aluminum boxes called witness panels will tell the testers where live-fire fragments went. At least two

mannequins are to be placed inside with instruments that convey their injuries.

Two technicians in prototype engineering, Pete Croft and Alvie Hughey, were responsible for fabricating and installing the surrogate components. Seven machinists in the division built parts. They included Wayne Shockley, Bobby Hurst, T.J. LaPointe, John O. Harris, Bob C. Miller, Ben Donaldson and Ed Bentley. Two welders, Ken Martz and Vince Davis, also worked on the project.

"It was a team effort," Sherrod said. "If you took away one person's work, we'd be hurting. Everybody did a fairly good job."

Sherrod, one of nine engineers in the division, was involved in the design work and coordination. He traveled to Orlando, Fla., San Jose, Calif., Fort Hunter Liggett, Calif., and planned to go to Aberdeen to support the tests. Like the shop workers, he worked some overtime but "not as much as they did." It has been his most detailed project in his four and a half years here. Sherrod, 23, spent the first three years as a co-op student from the University of Alabama in Huntsville. He received a bachelor's degree in mechanical engineering from UAH in August 1988.

"I feel a sense of accomplishment, a project that's been here a year finally being completed. And also thankfulness for the guys in the shop for the hard work and all the hours they put in for this project," Sherrod said.

Budget cuts

Pentagon reports steps to improve defense management

WASHINGTON — Top Pentagon officials on Jan. 11 summarized "major cultural changes" in the way the Department of Defense is run and in the way its purchasing system works.

Secretary Dick Cheney, Deputy Secretary Don Atwood and Under Secretary for Acquisition John Betti described the changes when they presented a progress report on their efforts to improve management of the DOD. The officials stressed that the changes, made in accordance with the Defense Management Report, are achieving the results they envision.

The Defense Management Report was issued by the department in July 1989, five months after President

Bush directed Sec/Def to devise a plan to implement fully the recommendations of the Packard Commission, improve the performance of the defense acquisition system and manage more effectively the department and its resources.

"The changes in the nature of the threat around the world and the realities of the budget mean that our defense budgets are going to be leaner in the years ahead," Cheney said. "So every dollar that we can cut out of the cost of running the Pentagon is a dollar we don't have to cut from force structure, readiness or the quality of life for our men and women in uniform."

The management improvements are based on in-

itiatives by the three services and several task forces working to comply with the recommendations of the report. These initiatives cover a variety of areas from reducing micromanagement to maintaining military strength while reducing overhead costs.

Changes outlined

Atwood, who supervises the continuing work to implement the recommendations of the report, emphasized that savings will occur through management efficiencies and consolidations in the areas of logistics, administration, automated management information

(See Budget cuts, cont'd on page 3)



Civilian basketball

Editor:

Monday night, Jan. 8, was the first night of the Civilian Welfare Basketball League season. I said to myself, this is the year that the league will finally get its act together by having some organization and a good gym facility in which to play the games. Unfortunately, I was very wrong. But, before I get started on the things that went wrong, I want to state that I know the post gym No. 2 floor was recently renovated and the recent cold weather ruined the new floor (among other things). Now back to what went wrong. First, the team I play for was told by the president of the league, on three separate occasions, that our game would start at 6:15. Once arriving at the post gym No. 2, I received word that our game was not scheduled until 7:15. This meant we had to wait an entire hour until we could play. This also caused a scheduling conflict with one of our players who then had to leave before the game started. Another player of ours did not show up because he was told by associates of the league president that games were canceled (due to the condition of the gym) causing him not to show up. Second, the gym floor had not been swept and had at least a month's worth of dust and dirt (probably due to the weather problems and a complete lack of dry and usable brooms). Third, heat was nonexistent (also weather related). It felt like the temperature inside the gym was about 40 degrees. Fourth, there wasn't any running water (also weather related). This meant no drinking water or water to operate the bathrooms. But there was water still standing in the bathrooms and on the sideline of the gym's playing surface. This made the bathrooms smell terrible and the sideline dangerous. Fifth, the scoreboard had about half of its lights inoperable making it impossible to tell how many minutes remained and what the actual score was. There are two scoreboards in the gym and only one is being used. Seems you could use the lights in the one not being used to replace the burned-out lights of the operable scoreboard. Finally, the scorekeeper was busier socializing than paying attention and had to be told several times to either start or stop the clock. This unprofessional attitude should not have to be tolerated.

I visited the NASA gym this week and could not believe how nice their gym facility looked. I said to myself, how in the world was NASA able to fund this? I'm unsure where the true problems lie, whether it is poor funding or just poor organization. It's probably a combination of both. If this is an example of a

civilian morale builder, then I see where civilians fit in "The Big Picture." Even in the condition the gym was in before the cold weather problems, I would not have invited non-civilian friends to "our" gym. It would have been too embarrassing. Most of the problems could have been alleviated if there was swift reaction to the damage. Another thing that seems to be forgotten is that more people might use the facility if the facilities were nice enough and available. Why not make this facility the workout/basketball/running facility the civilians would use? Studies have shown that people who exercise are more productive and use less sick leave. It seems that the initial cost of such upgrades to "our" facility could be recouped in the first year just from productivity increases alone.

The league president is not responsible for the weather related damages to the gym. However, the league president is responsible for the league's organization and to a certain extent the condition of the gym. Someone has to make sure that the gym is playable and that the problems with the facilities are brought to the attention of maintenance personnel. If not the league president, then who? Something must be done and that usually means spending some money.

Name withheld by request

Roster facts

Editor:

In response to a letter to the *Redstone Rocket* in the Jan. 10 edition regarding the MICOM Post Duty Roster, some facts need to be addressed.

The equitable distribution of duty assignments is a primary concern of the Support Troops commander and the NCOs that manage the rosters for him. Continuous efforts are made to ensure all eligible soldiers, in accordance with Army Regulation 220-45, MICOM Reg 616-9, and MICOM Reg 600-5, are on the duty rosters, to include quarterly reviews of all approved regulatory exemptions and 100 percent name screens. There are currently only four NCOs within MICOM with approved exemptions from duty.

The writer's view of thinking that anyone added to a duty roster should start out with any number other than a number "1" IAW AR 220-45, has us all worried in knowing that he may someday be a first sergeant running his own duty rosters.

Another fact the writer didn't mention, was that he was scheduled to pull Post Staff Duty during the Christmas holidays and was looking for an excuse to avoid it. He should be asking himself if he is more important than any of the other NCOs on this post.

CSM Gary D. Ensign, Support Troops CSM
Capt. Charles S. Basham, HHC MICOM commander
SFC James O. Dresser,
Support Troops PAC supervisor
SFC Gary M. Shirley, HHC MICOM 1st Sgt.
Sgt. Elias T. Lucero, Duty Roster NCO

Secretaries

Editor:

On Jan. 8, I received the Commander's Award for Civilian Service from Col. James Boddie, commandant, U.S. Army Ordnance Missile and Munitions Center and School. This was a very satisfying occasion for me because it again proved that I made the right career decision years ago. I feel deeply honored to receive this award and sincerely thank those who labored to write, type, review, and approve it. I've been extremely fortunate to have had supervisors during my career who've given me latitude in managing my office in a way that allows maximum fulfillment of my secretarial abilities and have pushed me to the limit, at times making me stretch further than I thought possible.

I've learned that it is most unusual for an employee in my series and grade to receive the Commander's Award, an award normally reserved for higher grade personnel who are retiring. I personally know secretaries employed in civil service today who are just as deserving, if not more so, as I. They have worked diligently for many years building splendid reputations for being the professional they are and yet they have not been recognized with an award that has the significance of the Commander's Award.

I am thankful for getting the Commander's Award for Civilian Service and my hope is that this will lay the groundwork and set the precedent so that other deserving secretaries will be recognized by their superiors. It is a definite morale booster and can put to rest the old adage that a secretaries' place is behind the typewriter eight hours a day with little or no incentive to branch out and learn more about what makes a secretary a professional. Due to the strong interaction on this post between military and civilian supervisors, it behooves both to review their method of recognition to the one individual that will keep the office in gear while all about them, the walls are tumbling down.

So, supervisors, please allow your secretaries to become part of the team. If you allow them to enter into the decision making process, you may find an unexpected source of wisdom who will be more than willing to work with you and go above and beyond what is expected of them.

Mary E. Patton

Sign your letter

Letters will not be considered for publication in the *Redstone Rocket* unless they are signed and contain an address or phone number for the writer. Names are withheld on request but unsigned letters will not be used. Send letters to: *Redstone Rocket*, AMSMI-IN.

Post talent show open for entrants

If you can sing, dance, play a musical instrument or have any other showbiz talent, this is your chance.

The 269th Ordnance Brigade will sponsor a postwide talent show Feb. 9 at 6 p.m. at the Post Theater. Anyone on post can sign up and participate.

Prize money will be awarded for first, second and third place winners in each category: dance, vocalist, musician and miscellaneous. Plans are to award \$100 for first, \$75 for second and \$50 for third, according

to 2nd Lt. Johnny Cox, coordinator for the show. The first such event was held last November, and shows are to be held periodically.

"We're going to try to boost the morale of our troops and give them something to look forward to periodically in the new year," said Cox, executive officer for B Company, 73rd Ordnance Battalion.

The entry deadline is Feb. 2. To sign up, call Cox at 876-7353/6717.

Free tax help offered here

Tax season is approaching and Redstone Arsenal is again offering free assistance to soldiers, family members and military retirees.

Beginning Feb. 1, active duty soldiers can get assistance from their unit tax advisor while retirees should contact an ACS volunteer tax assister.

Unit tax advisors and ACS volunteers will be trained by the Internal Revenue Service and the Alabama Department of Revenue under the VITA volunteer income tax assistance program.

"The benefit of VITA is obvious when one considers that a taxpayer will be charged an average of \$50 when seeking outside tax assistance," said Capt. Dick Rosseau, chief legal assistance attorney and VITA coordinator at Redstone Arsenal.

Those seeking tax assistance must bring W-2 forms from all employers, interest statements from banks, form 1099 and a copy of last year's return if available. Any other relevant information about income and expenses would be helpful.

Active duty soldiers must see their unit tax advisor for assistance. Retirees and dependents of soldiers who are not assigned to a unit on Redstone Arsenal should contact ACS for an appointment at 876-2859.

For more information call Capt. Rosseau 876-9015 or Spec. Suttle 876-9005. (Contributed by the office of the Staff Judge Advocate.)

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Army budget decisions have long-range effects

WASHINGTON — Drastic slashing of the \$300 billion annual military budget will have long-range and important effects on all the military services over the next five years, according to Army budget officials.

The 1990 Army budget, originally submitted for \$80.5 billion, was reduced more than \$2.4 billion with revised Army estimates and congressional adjustments. The remaining appropriation was reduced an additional \$500 million under Gramm-Rudman-Hollings to a new total of \$77.6 billion.

The new budget of \$77.6 billion will be spent to ensure essential force readiness, maintain current quality-of-life programs and provide 3.6 percent pay raises for military and civilian personnel effective Jan. 1, 1990.

Budget reductions for active military personnel of more than \$554 million will affect military personnel strength and may have some impact on readiness, according to Army budget officials. Yet, this impact will be lessened in the near future because of cost-saving and cost-sharing decisions by Army leaders.

The Army proposes to partially offset the Gramm-Rudman-Hollings cutbacks in active military personnel by transferring money from procurement accounts, according to Army budget officials.

This transfer will cover nearly 40 percent of the loss to the FY 90 personnel appropriation, but at a cost to Army procurement programs and research and development.

Programs that will be protected and sources for the transfer of funds have been identified to help ease some of the impact of the loss of funds.

Officials explain that the exact magnitude of these internal actions will depend on contract negotiations and program requirements.

The expected financial changes will have a major effect upon current Army funding for programs that will be reduced as part of the deficit-reduction package.

Army officials caution that even though the budget reductions appear to be severe, they will not significantly degrade the overall ability of the Army to perform mission-essential training and assignments.

Reduction in the Army budget is expected to have the greatest effect with the loss of personnel during the next fiscal year.

The total active-Army strength for the end of the current fiscal year will be down by more than 20,000 from its budgeted strength of 764,400. This force of 744,169 will be the smallest active Army since 1950, before the Korean War.

The Reserve component's end strength will be reduced by 10,000 National Guard and 9,500 Reservists all from reduced accessions.

The Army intends to take the majority of its personnel reductions by limiting entry into the Army and by not replacing normal losses, according to Lt. Gen. Allen K. Ono, deputy chief of staff for personnel.

Of greatest concern to Army leaders is how these budget reductions will affect soldiers and family members over the next several years.

"The guiding principles we've accepted and are trying to carry out will be centered on the soldier and the Army family," says Ono. "These principles will protect the quality of our soldiers, those coming into the service and those staying in; shape and define the force of the future to provide the very best equipment and technology to our soldiers; sustain the needs of the soldier and the family in all aspects of Army life; and demonstrate consistent care, compassion and common sense in working with and for all members of the Army."

The cost-saving measures will also affect Army reserve units. Personnel strength reductions will account for more than \$20 million in savings, while other savings will come from reduced initial activated duty training.

Operation and maintenance funds will be reduced by more than \$12 million as the U.S. Army Reserve increases its backlog of maintenance and repair and shortfall of organizational clothing and individual equipment, while the Army National Guard will see total reductions of more than \$28 million.

Army research, development and acquisition accounts will have reductions in FY90 aircraft and development, test and evaluation programs for a savings of nearly \$125 million.

According to budget personnel, the operations and maintenance, Army (OMA) appropriation was not subject to the fund sequestration yet the appropriation act reduced the OMA account by \$935 million. This reduction absorbed a part of the civilian pay increase and funding Champus will result in other reductions to civilian personnel, travel, administrative and support costs.

Army officials caution that even though the budget reductions appear to be severe, they will not significantly degrade the overall ability of the Army to perform mission-essential training and assignments.

Funding for training and major equipment modernization programs were also preserved to ensure that the Army's readiness would be maintained throughout the budget reduction process.

As the Army moves into a new era of reduced worldwide tensions and openness among the super powers, its role will be modified to meet the nation's needs. Army leaders say this need will be met by maintaining the readiness of the Army by developing a quality, trained and supported force. (Arnews)

Budget cuts

(Cont'd from page 1)

systems, base operations and facilities and finance, procurement and contract management. Further efficiencies will be sought through a series of legislative proposals and policy changes.

As Atwood outlined the changes, management will be improved by such initiatives as:

- Better control of supplies. The Army, for example, will streamline the Army Materiel Command. The Air Force will restructure its Systems, Logistics and Communications commands. The Navy will reduce overhead costs in Naval shipyards, aviation depots and other maintenance activities.

- Reduction in the use of consultants, outside advisers and other contractually arranged assistance.

- Creation in each service of an acquisition corps of full-time experts who will report through a streamlined chain of command to top department officials.

- Elimination of unnecessary paperwork. A regulatory task force has reviewed more than 1,200 self-imposed department directives and policy memoranda, 512 of them directly affecting acquisition. The task force recommended elimination of 61, cancellation of 176, revision of 63 and retention of only 83. Also targeted for cancellation, cancellation and combination, or revision and reissuance are 274 of 431 Defense Federal Acquisition Regulations Supplements (DFARS) clauses, 52,450 of 66,665 lines of DFARS

text and 61 of 80 department/agency contract clauses.

The management improvements will generate \$2.3 billion in savings for FY 91 and an estimated \$39 billion through FY 95.

The improvements make it possible to trim the logistics and management workforce of 580,000 civilian and military personnel by as many as 8,000 civilians and 8,000 military personnel in FY 91 and by 18,000 civilians and 24,000 military personnel by the end of FY 95. These efficiency related reductions do not include force structure reductions associated with the FY 91 budget.

"This is a dynamic effort that is moving on many different fronts," Atwood said. "We are making cultural changes in the defense environment by streamlining, reducing unnecessary duplication, improving lines of communication and promoting smarter management." He added that he will continue to monitor the report implementation effort and will issue additional progress reports as necessary.

Army's initiatives

The following are excerpts from the Department of Army Announcement Text:

- The Army estimates it will save \$10 billion during this five year period (through FY95) beginning with \$750 million in FY91.

- The \$10 billion includes planned reductions of approximately 10,000 civilians and 1,000 military person-

nel, about 7.5 percent of the Army's acquisition workforce as defined by DOD in July 1989. The \$10 billion also includes savings from converting about 5,000 positions from military to civilian.

- Net losses to the Army of the cuts and conversion to civilian spaces will be about 6,000 military and 5,000 civilians. Details of where some losses will occur will be available after Jan. 29, the date the President's budget is scheduled to be sent to Congress.

- Areas where the Army anticipates it will achieve savings are acquisition, logistics, administration, automated management information systems, base operations and facilities and financial, procurement and contract management.

- One of the key initiatives to be undertaken by the Army will be establishment of the Army Acquisition Corps. When fully implemented, the corps will consist of about 3,000 officers and 1,300 civilians. Officers will enter the program in their eighth year of service. Civilians will be drawn from other career programs at grade GS-13. The program will produce a dedicated group of acquisition experts to develop, field and manage weapon systems.

- As a result of the Defense Management Report and Army Management Review, Army Project Managers and Program Executive Officers are resourced directly from Department of the Army instead of receiving manpower and dollars from materiel commands.

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Events planned for Black History Month observance

Redstone Arsenal will join in the annual observance of Black History Month in February.

The Missile Command's Equal Opportunity Office formed a committee last November to plan and conduct events for Black History Month. This committee is under the guidance of Bonnie Kilgore, Black Employment Program Manager, and SFC Terry Little, MICOM Equal Opportunity Adviser.

"The purpose of Black History Month is to highlight the contributions of black Americans throughout the years," Little said.

Theme for this year's observance is "The Father of Black History, Carter G. Woodson: A Living Legacy." Woodson, 1875-1950, was a noted black historian who founded the Association for the Study of Negro Life and History in 1915 and a quarterly publication called *The Journal of Negro History* in 1916.

The committee has planned the following events:

- Opening ceremony, 1-2 p.m. Feb. 1 at the Post Theater. Scheduled speakers include Maj. Gen. William Chen, commander of the Missile Command and Redstone Arsenal, and Dr. Oscar Montgomery, professor at Alabama A&M University. Music will be provided by the Alabama A&M choir and by Lady Tucker, a professional opera singer. This event is open to the public.

- Military dining facilities on post will be serving ethnic meals from Feb. 1-15; these meals are only for soldiers authorized to eat at the dining facility.

- Brotherhood Run, a 10-kilometer (6.2 mile) road race, 9 a.m. Feb. 10 at Pagano Gym. Registration before Feb. 3 costs \$8 and includes a T-shirt the day of the race. Those who register Feb. 4 or later will pay \$10 and receive their T-shirt the week after the race. Trophies will be awarded to the top two finishers in all age groups in the 10K. Age groups include 12 and under, 13-17, 18-29, 30-39, 40-49, 50-59, and 60 and over. To register call Capt. Fred Wilson 876-3655, Capt. Charles Basham 876-4850 or Little 876-9223. You do not have to be affiliated with Redstone Arsenal to enter the race.

- Gospel singing program, 5 p.m. Feb. 17 at Bicentennial Chapel. Local church choirs will sing. This event is also open to the public.

- Music show featuring Cornelius Brothers and Sister Rose, a professional band whose past hit records include "Treat Her Like a Lady," 8 p.m. Feb. 23 at

the Challenger NCO Club. Price is \$10; call the Challenger NCO Club 837-0750 for information.

- Fashion show with latest fashions on display, 7 p.m. Feb. 24 at the Challenger NCO Club. There is no charge to see this fashion show which is open to the public.

- Annual Black History Month Luncheon, 11 a.m.

Feb. 28 at the Challenger NCO Club. "At the present time we are still waiting on the speaker to make a firm commitment to speak," Little said. "Tickets will cost around \$6."

For more information on the events, call Little 876-9223 or Bonnie Kilgore 876-3918.



Changing Places

There comes a time when adult children and parents exchange roles. It can be an awkward and demanding situation for everyone involved.

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MPs can cite parents for childrens' bike violations

BY PAM ROGERS

Recent accidents and near-accidents involving cars and children on bicycles and tricycles have prompted the military police here to activate the right to issue Armed Forces tickets to parents of children who break traffic safety laws.

SFC Kenny Renew, operations sergeant in the Provost Marshal Office, explained that the new procedure is one that will be used when needed; MPs still have the option of making an on-scene correction, as they do now.

But if the infraction is severe, or if the child has repeatedly violated the law, MPs will take him or her home and issue a ticket to the parents.

Renew said he hopes parents won't view the new procedure in a negative way, since children need help in understanding how to ride their bikes safely, and those who are given on-the-spot corrections may not tell their parents.

"The responsibility rests with the parents," for bike safety, he said.

In an incident last Halloween night, an 11-year-old boy was struck while riding his bicycle in the housing area. In September a 4-year-old boy suffered a broken leg when his tricycle was struck by a car and dragged more than 30 feet. In both cases, it was determined the drivers were not at fault.

A bike rodeo is held by the Investigations Division of the Provost Marshal Office every spring. At the rodeo, children can register their bikes and learn about bike safety.

Since MICOM has no specific regulation governing bike safety for children, the post is allowed to assimilate Alabama law.

Here are the major points of the Alabama Bicycle Code, which bike riders may or may not already know. All points of the code apply only to bikes being ridden on streets or roadways.

- When riding your bike, always ride on the right side of the road, as close to the shoulder as possible, with no more than two bikes riding abreast.

- If there is a path or trail for bikes available beside

a road (such as on Goss Road), you must use it and not the road.

- If you're riding at night, your bike must be equipped with a red reflector in back which is visible from 100 to 600 feet and a white light in front which is visible for a distance of at least 500 feet.

- The brakes on your bicycle must have enough stopping power to make the bike skid on dry, clean, level pavement.

- If you're carrying a package, you must be able to keep at least one hand on the handlebars at all times.

- Bicycles should carry only as many people as they are equipped to carry. That means if it only has one seat, only one person should ride — no carrying friends on the handlebars.

- Never attempt to hang onto or attach your bike to a car or other vehicle traveling on the roadway.

Bike registration set for Saturday

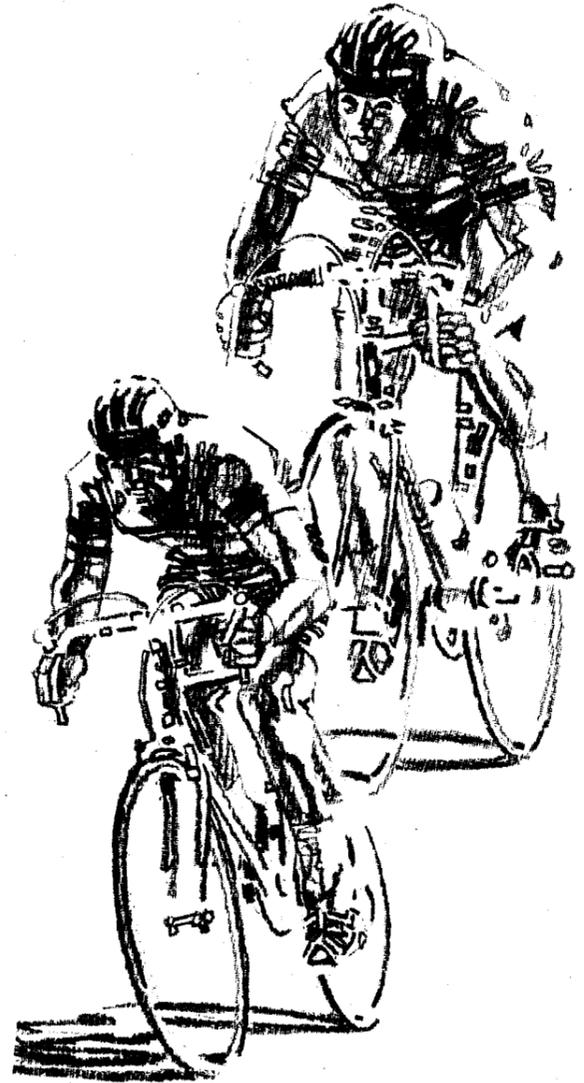
Youngsters on post should register their bicycles this Saturday at the Youth Center, building 3148.

The Investigations Branch of Provost Marshal Office and the Youth Center are sponsoring bicycle registration from 9-11 a.m. and 12:30-3 p.m. Jan. 20 at the center. Bicycle registration is required by Missile Command regulation 210-2.

T-shirts will be given away to the first 100 youngsters and adults registering their bicycles. A courtesy safety inspection will be conducted at the same time.

"We only do this about twice a year. We have a bicycle rodeo later on in the year. This is just a registration program," said Ray Clift, chief of the investigations branch.

For more information about the program, call 876-1369.



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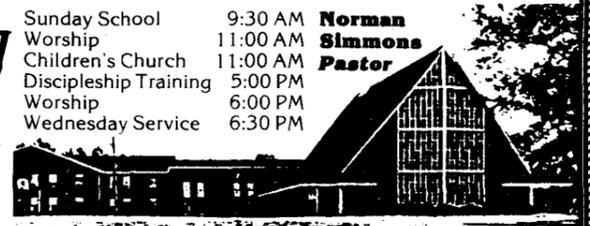
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1989 was average year for deer-vehicle strikes

BY PAM ROGERS

Redstone's deer-vehicle collisions have been totaled for 1989, and though the figure is lower than for 1988, the post still experienced an average year in terms of hits.

The total number of collisions for 1989 was 54, compared to 60 for 1988. Month-by-month figures for '89 were similar to those for the previous year, with the only notable exception being November. The November total for 1988 was 14. This year's figure for the same month was eight.

"We've taken some active measures to try to warn people about high deer strike zones, including the signs you see on Martin, Patton and Rideout Roads," said Capt. Wayne McGurk, chief of the Law Enforcement Branch of the Provost Marshal Office.

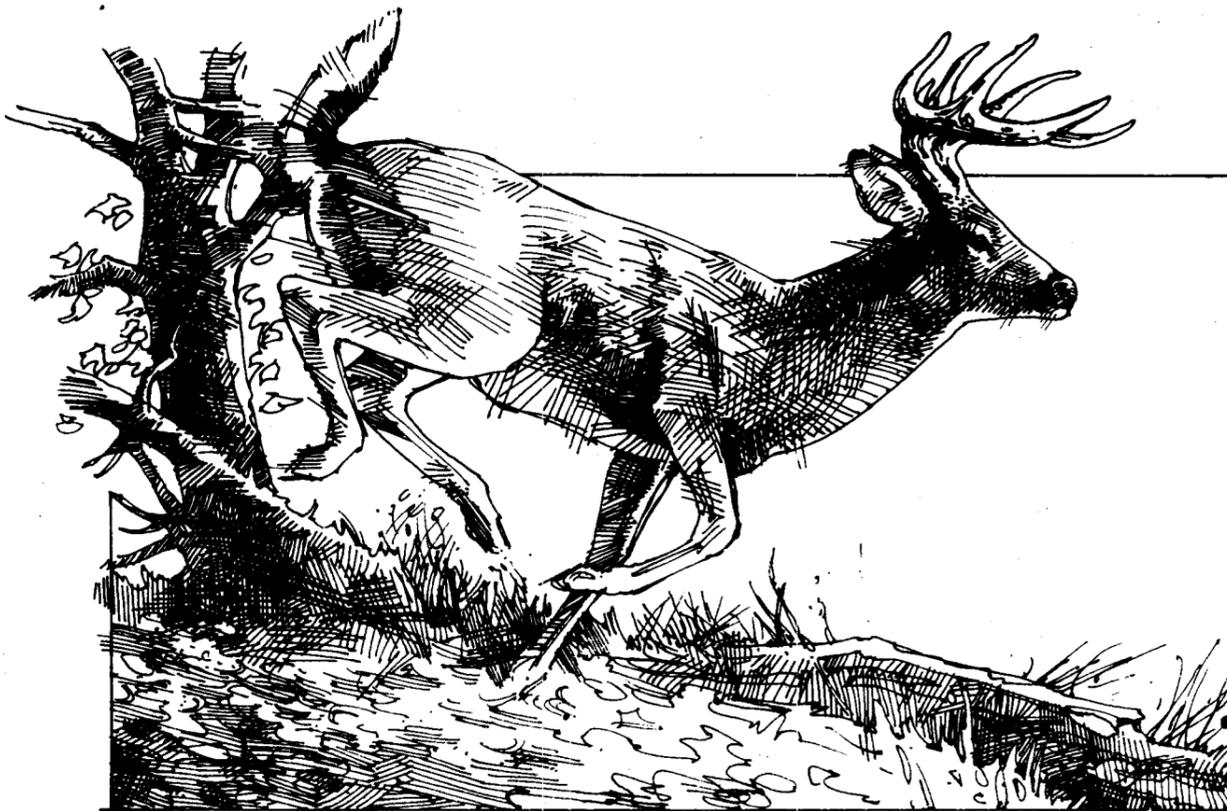
The warning signs are large, yellow and feature yellow blinking lights on each corner.

"They certainly grab your attention. I think drivers are more aware now. They know they're in a high deer strike zone, and can be more observant of what's going on," he said.

Other steps taken to reduce the number of deer-vehicle accidents include reflectors which have been installed in high-strike areas, MP squad cars with blue lights flashing parked on a rotating basis in high strike areas, during peak traffic hours and modification of deer hunting season.

The reflectors bend light from oncoming car headlights to the side of the road in an attempt to frighten deer from the roadway. This year there were five deer-vehicle collisions in the areas with reflectors.

Redstone's deer hunters were allowed to shoot either sex from the beginning of gun season, with an overall quota of 475 animals. Civilians were again allowed to hunt any day of the week, according to Bill Moreland, Outdoor Recreation director. The total as of yesterday was 438.



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Wisconsin firm wins contract to process health claims

Military families in five southeastern states, Puerto Rico, Canada and many overseas areas will have their claims processed by Wisconsin Physicians Service, beginning May 1.

The five states are Alabama, Florida, Georgia, Mississippi and Tennessee.

Champus' Southeastern Region claims processor also handles claims from Mexico, Central and South America and the West Indies, as well as for countries in Asia and the Pacific area, including Australia, Japan, Korea, the Philippines, China, India, Pakistan, Taiwan, Thailand and various other countries and Pacific islands.

Families in the Southeastern Region should continue to send their Champus claims to the current claims processor for the area, Blue Cross-Blue Shield of South Carolina, through April 30.

Information about mailing addresses and toll-free telephone numbers for the new Southeastern Region claims processor will be available in the near future.

The new \$22.7 million contract runs for one year, with four additional one-year option periods. The contract contains incentives for Wisconsin Physicians Service to perform well. This means that the firm will be subject to financial bonuses or penalties for speed and accuracy in paying claims. All Champus contractors now operate under this type of contract.

Champus — the Civilian Health and Medical Program of the Uniformed Services — is the Defense Department's health benefits plan for military families who receive medical care from civilian hospitals and doctors.

Also contained in the contract is a provision to operate a "managed-care" program within the region, which will involve comprehensive management and cost-effective delivery of health care services. This program will include a special network of health care providers with service families offered incentives to receive their care from these providers; coordination of patient care between the claims processor and military hospitals in the region; and frequent reviews of the type and quality of care provided.

Operating the managed-care program for Wisconsin Physicians Service will be HealthCare COMPARE Corp., of Downers Grove, Ill.

Champus — the Civilian Health and Medical Program of the Uniformed Services — is the Defense Department's health benefits plan for military families who receive medical care from civilian hospitals and

doctors. Private insurance companies, under contract with the government, process the claims through which Champus shares the cost of these medical bills.



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Survey reveals health care opinions

BY EVELYN D. HARRIS

AMERICAN FORCES INFORMATION SERVICE

Some 62 percent of military women are "satisfied" or "very satisfied" and only 18.5 percent are "dissatisfied" or "very dissatisfied" with treatment provided at military clinics and hospitals. Those findings come from the 1989 Active-Duty Health Care Survey.

The Defense Manpower Data Center conducted the survey under the sponsorship of the Office of the Assistant Secretary of Defense (Health Affairs) in response to a request from the Defense Advisory Committee on Women in the Services. It is the first survey the military has conducted on women's health care. The results were presented at the advisory committee's fall conference.

Overall, 71 percent of the 7,000 women randomly selected to receive surveys returned them. Bette Mahoney, chief of Survey and Market Analysis with Defense Manpower Data Center, prepared the report. She said such a high response rate indicates the level of interest active duty women hold in the subject. Slightly more officers (79 percent) than enlisted women (66 percent) returned surveys.

The survey indicates that military care is equal to, and sometimes superior to, civilian care. For example, 82 percent of pregnant active duty women receive prenatal care, compared with 66 percent of their civilian counterparts. Such findings put the military's problems in context, said Carol Galaty, survey program manager.

"The military will examine the context but will not use it to dismiss problems," she said. "Before, some critics were saying that military health care was in a state of crisis. The survey shows clearly this is not the case, but the fact we aren't in a crisis does not mean there are no problems that need fixing."

Military health officials were surprised by some findings. Based on anecdotal reports they'd received, they thought women would be more dissatisfied with their obstetric and gynecological care than with the care provided for other problems. But 68 percent of the women were satisfied or very satisfied with OB-GYN care, while only 56 percent were as satisfied with care for other problems.

Another surprise: Most military women don't care whether their health care provider is male or female. Officials had expected women to prefer female providers. Galaty said, "Such findings should be taken into account in assigning health care providers to particular treatment facilities."

The services are now developing plans to correct major problems that surfaced. Some corrections may be educational. For example, about 25 percent of the respondents expressed dissatisfaction with the time required to receive test results. Emphasizing and meeting turnaround times for test results would likely dispel that unhappiness, said experts.

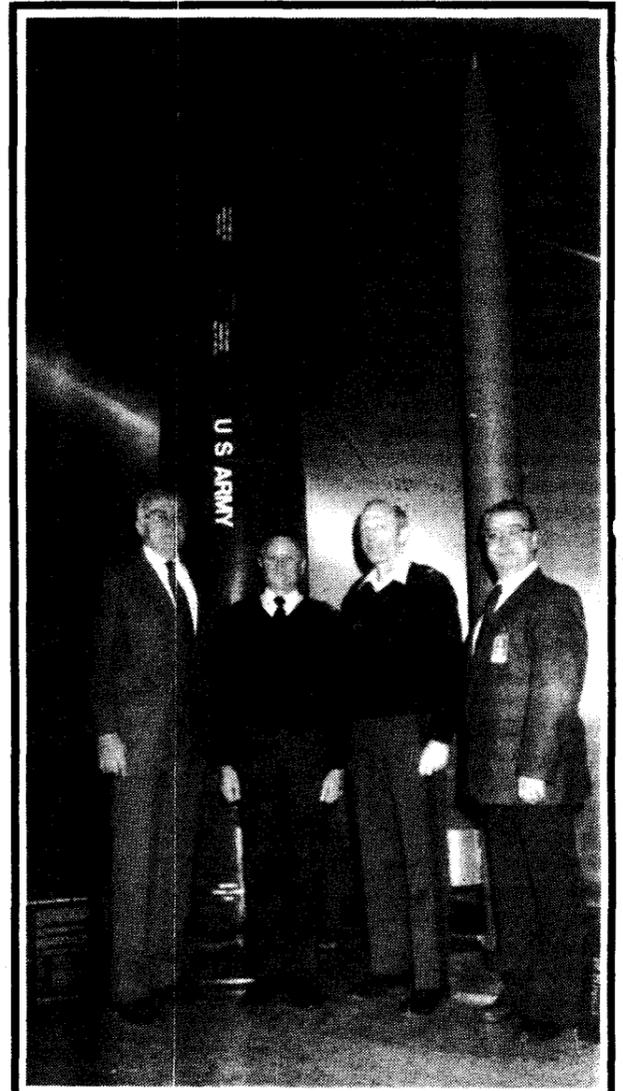
Other problems may be corrected easily. For example, less than half the active duty women felt they were being given preference at OB-GYN clinics. A suggested fix would be for appointment clerks to ask whether a woman is on active duty.

About half the women polled said their work areas had not been checked for hazards while they were pregnant. Military policy is to check every pregnant member's work area. Experts said work sites are usually checked at night or when the pregnant woman is not there. A proposed solution is for inspectors to put a sticker in the area to certify its safety.

Some survey areas show that health care is uneven. For example, most of the women had been taught to do their own breast examinations and received regular Pap smears and blood pressure checks. Thirty-four percent of women 35 years or older received a mammogram in the past year. (Mammograms are not recommended for women under 40 unless there is a medical requirement.)

About a third of the women said they had never received information about sexually transmitted diseases. Some 9 percent of women polled said they were "harassed" when they asked for birth control information.

Service health officials have to report to DoD Health Affairs their corrections for areas involving low satisfaction ratings or quality problems. The recommendations will be presented at the 1990 spring conference of the Defense Advisory Committee on Women in the Services.



NEW EXHIBIT — Standing before a new exhibit of the ATACMS and MLRS systems recently donated to the Alabama Space and Rocket Center by the Missile Command and LTV Electronics are, from left, Don Turis, vice president, LTV Huntsville Operations; Col. Thomas J. Kunhart, ATACMS project manager; Col. William Hecker, MLRS project manager and Ed Krall of the Space and Rocket Center.

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Calibrators in Panama see action but keep mission going

Members of TMDE Support Activity-CONUS were able to maintain telephone contact and learn that all was well with their calibration contingent in Panama during the U.S. "Just Cause" invasion even though calls were punctuated by the noise of gunfire in the background.

The TMDE Support Center in Panama has seven soldiers and five civilians assigned. The soldiers were issued weapons and helped the U.S. invasion force maintain order while some of the civilians were able to see and hear sporadic fighting in the streets outside their homes. And the people supporting them back at Redstone could hear what was going on over the telephone.

The soldiers were part of an area security force formed to repel attackers during the invasion. In its aftermath they joined medical and infantry units in providing security and humanitarian assistance to a

crowded refugee center set up in a school building in the Balboa/Quarry Heights district of Panama City.

"It was a big job," said Larry Ryan, chief of TMDE's Eastern Operations Division at Redstone. "They started out with two or three hundred refugees in an old high school. When our guys left a few days later, there were 10,000."

The fighting made calling within and from Panama difficult. "They couldn't call each other, or outside," said David Willis, TMDE's liaison officer at Redstone Arsenal to TMDE Support Center-Panama. But calls could be placed from Redstone to Panama and Willis and his boss, Ryan, used the telephone to stay in touch with the calibrators in Panama and relay messages to their families in the states.

Three of the TMDE soldiers were recommended for individual citations by their local commanders. The civilian calibrators survived the turmoil unscathed,

even though it did disrupt some of their plans. Tom Martin, a senior engineering technician, didn't get home to the United States in time for Christmas because of the invasion. Don Sturgeon, civilian chief of the Support Center, was in the United States but had to delay his return to Panama.

Other TMDE civilians assigned to the Panama Support Center include Merilee Mora and Panamanians Melinda Dehoyos and Rupert Goff.

The seven soldiers are SFC Charles Koch, SSgt. Jorge O'Farrill, SSgt. Douglas Wheeler, Sgt. Douglas Rader, Sgt. Billy Teeter, Spec. Gordon Murray and PFC James Zvirblis.

Despite the invasion, the calibrators never turned away a customer. They returned to work Christmas Eve, working 12-hour shifts around the clock until the TMDE support backlog was cleared.

Treasury puts one-year limit on check cashing

BY SGT. MAJ. RUDI WILLIAMS, USA
AMERICAN FORCES INFORMATION SERVICE

The Treasury Department is looking for a few old checks. More than \$2.5 billion worth of uncashed government checks is out there somewhere — maybe in attics, in drawers, under mattresses, in closets, or even buried, according to Treasury Department spokesman Andy Montgomery.

The government is obligated to honor the checks no matter how old they are, so the \$2.5 billion is currently part of the national debt. Congress, the president and treasury officials want to wipe the slate clean, however. That's what's behind Public Law 100-86, The Competitive Equality Banking Act of 1987, which became effective Oct. 1, 1989.

The law sets a one-year time limit on cashing checks, initiating claims and replacing government checks. A check not cashed within 12 months of the issue date will be void. Holders of checks issued before Oct. 1, 1989, have until Sept. 30, 1990, to cash them. Those who miss the 12-month deadline will not lose their money, but could create a problem for themselves.

"If their checks are canceled, they must go to the agencies that authorized the originals and request a new one," Montgomery said. "If they have a check issued by the Army, for example, they must ask the Army to reissue it. How long a reissue might take depends on the agency. The Treasury Department can reissue a check within 48 hours; DoD issues about 85 percent of its own checks, and we issue the remainder.

"We won't know how many checks are still un-

cashed until after Sept. 30," he said. Obligations for any remaining uncashed checks would be stricken, thus reducing the national debt.

The new law brings the federal government more in line with business and local government practices. "Some businesses void checks after three to six months," he said. "We wanted to void them after six months, but Congress said a year. We're putting 'Void After One Year' on all government checks issued after Oct. 1, 1989."

The value of the as-yet-uncashed checks varies from a few cents to thousands of dollars. "The smallest check we've received in the last couple of years was a 2-cent tax return from 1945 issued to a man from Massachusetts," Montgomery said. "The largest was an \$8,606 check dated April 9, 1954, for some sort of compensation to a man from Michigan. The oldest check we've received was for \$1.01 — the interest on a World War I Liberty Bond paid to a woman in Nebraska. It was dated in April 1919.

Military finance offices also receive a few old checks. As an example, last October, the Army Finance and Accounting Center at Fort Benjamin Harrison, Ind., received a \$107 check from years back. "They're normally from the World War II era," said Charlene Stratton, chief of the finance center's Cashiers Branch. "We normally get them when someone passes away and someone goes through their belongings. They send a death certificate along.

"We've gotten a few checks from World War II Leave Bonds," Stratton said. "Soldiers didn't have to

draw all their money on payday — they could leave some of it to draw interest."

Another part of the Treasury Department's campaign is to encourage government workers and military members to participate in direct-deposit payroll programs.

Besides avoiding the problems of checks "disappearing," not arriving on time or not being cashed, direct-deposit programs save the government money.

"It costs us 30 cents to issue a check," Montgomery said. "It costs only 4 cents to transfer money electronically into a direct-deposit account."



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Understanding the symbolism in Defense seal

BY TIM DOWNEY

AMERICAN FORCES INFORMATION SERVICE

Almost every military unit and DoD component displays an item that traces its history to ancient Mesopotamia 6,000 years ago. People scurry past it in auditoriums, commanders' offices and public meeting rooms with only a vague awareness of its significance. Chances are good, however, that it will outlast many of these same organizations.

Those unable to identify the mystery article as the DoD seal probably have lots of company. Seals have never attracted the public's interest as much as another symbol — the flag. If personal preference falls to "Old Glory," the DoD seal need not blush in recounting a lineage that dates to the rise of civilization itself.

Historians of heraldry who specialize in seals, known as sigillographers, have detailed their development. Important documents printed on clay tablets or papyrus scrolls in Egypt came to bear the imprint of seals. They attained their peak of popularity in medieval times, when they were used for daily commercial purposes such as securing jars, baskets and bales. Seals no longer play the important role they once served in daily life. Their popularity declined with the advent of printing and especially after the early 19th century as more and more people began signing documents.

Use of seals for official matters of state has never

diminished, however. Seals were important enough to America's Founding Fathers that they commissioned Benjamin Franklin, John Adams and Thomas Jefferson "to bring in a device for a seal for the United States of America." Efforts by these men and those of two succeeding committees resulted in the present-day form of the Great Seal of the United States. This seal was the pattern for succeeding military service and DoD seals.

The DoD seal and the Great Seal share many components: an eagle; arrows; the red, white and blue shield; stars; and olive branch. The eagle on the DoD seal appears on all service seals except one. The Army preferred to highlight the Liberty Bell and surrounded it with cannons and flags.

Most people correctly identify the major element of the DoD seal: the bald eagle. Long considered by the nation as a symbol of strength, the eagle looks to its right, indicating the field of honor. Its wings are horizontal. Grasped in its talons are three crossed arrows, symbolic of the three departments within DoD. The eagle's breast bears a shield whose upper one-third is blue set against the bottom two-thirds of alternating white and red stripes. The section of blue represents the Congress; the stripes stand for the 13 original states, hence the nation that the eagle defends.

Above the eagle is an arc of 13 stars with alternating rays that signify glory. Below the eagle, a wreath of

laurel signifying honors received in combat extends to the right and a wreath of olive — peace — extends to the left. On an encircling band are the inscriptions "Department of Defense" and "United States of America."

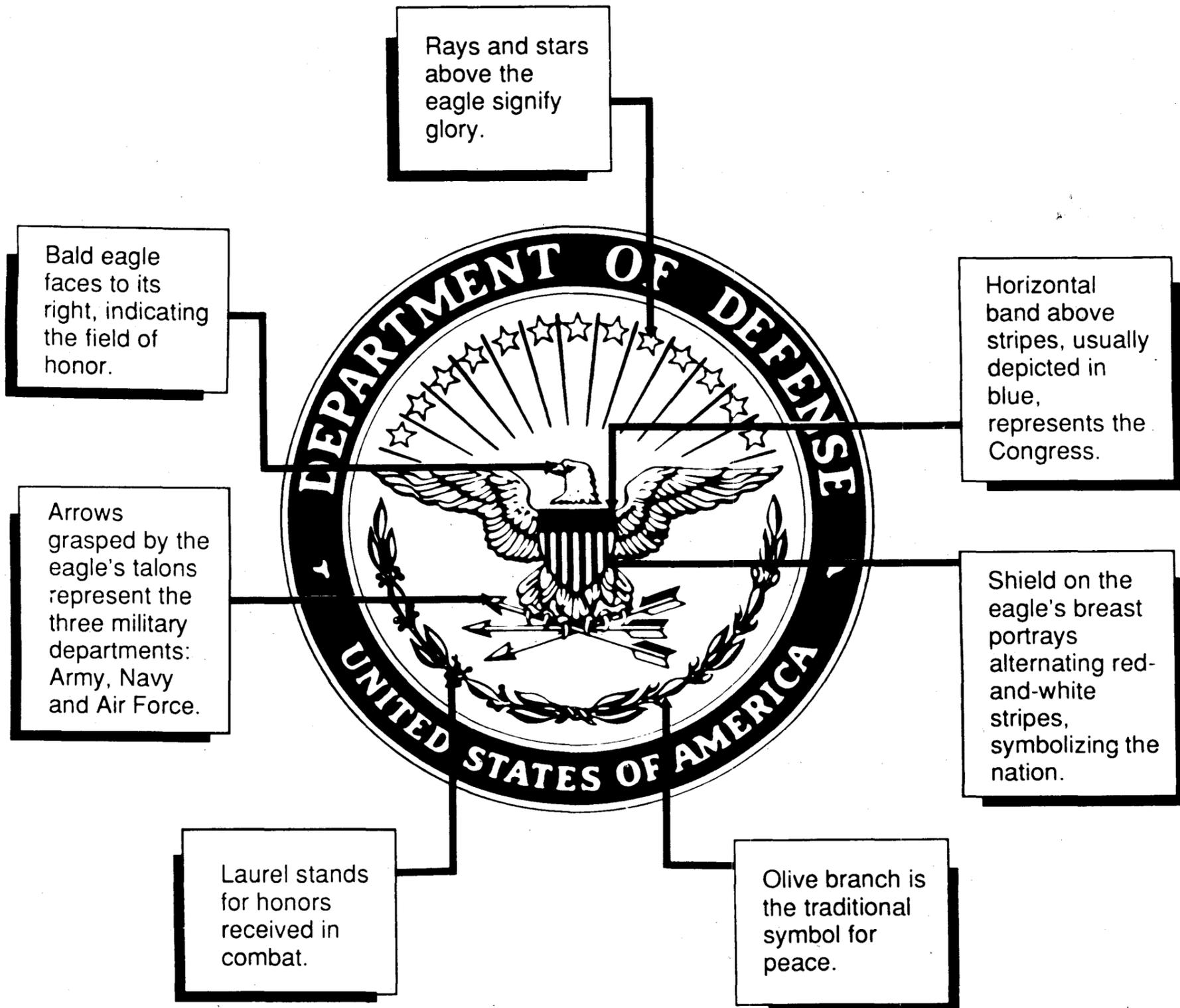
When the seal is displayed in color, the background shows as medium blue with the eagle and wreath in natural colors and the arrows, stars and rays in gold. The encircling band is dark blue with gold edges and the letters are white.

Even though the eagle is the focus of the seal, the bird's stately history apparently did not impress Benjamin Franklin.

As chairman of the three-man body set up to commission the seal, he suggested a depiction of Moses dividing the Red Sea. Two committees later recommended the eagle, which received approval. Franklin even preferred the turkey to the bald eagle as a national symbol, calling the eagle "a bird of bad moral character;...a rank coward."

The turkey retained a different place in American symbolism, leaving the eagle to represent the dignity and strength of the nation.

Seals: Are they relics of bygone eras or timeless symbols of enduring qualities? If the yardstick by which one measures success is time, the answer to that question is no mystery.



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- *****
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A study of the theory and practical design of antennas and arrays. Background: basic knowledge of electromagnetic theory. Instructor: Vernon W. Ramsey, Ph.D.; Boeing Military Airplane Company.
- 11-672 ADVANCED RADAR SYSTEMS II** MW 4:30-6:40 p.m.
A detailed study of advanced topics in radar systems. Background: basic knowledge of radar. Instructors: Stephen M. Gilbert, Ph.D.; Consultant; Larry D. Bennett, D.Sc.; U.S. Army Missile & Space Intelligence Center.
- 17-508 DATA STRUCTURES/ALGORITHMS** TT 4:30-6:40 p.m.
A study of data types, structures, and algorithms for program design. Background: basic knowledge of programming; Pascal desirable. Instructor: Robert R. Covelli, S.M.; John M. Cockerham and Associates, Inc.
- 17-547 RELIABLE COMPUTING** TT 4:30-6:40 p.m.
An examination of hardware and software techniques for highly reliable computing. Background: knowledge of computers and software. Instructor: J. B. White, Ph.D.; General Electric Company.
- 17-662 ADVANCED DATA NETWORKS II** MW 4:30-6:40 p.m.
A detailed study of topics in advanced digital networking, including local-area networks. Background: basic knowledge of data networks. Instructor: William J. Barksdale, Ph.D.; South TEC Associates.
- 17-671 ADVANCED SOFTWARE DESIGN** MW 6:50-9:00 p.m.
A detailed study of techniques used in the design of large software systems. Background: good knowledge of programming. Instructor: Clarence J. Rockey, D.Sc.; Teledyne Brown Engineering.
- 24-553 COST AND PRICE ANALYSIS** Sat. 8:00-12:00 noon
A study of cost principles and pricing for government contracts. Background: basic knowledge of contracts; accounting desirable. Instructor: Jack E. Simon, M.A.; Pentastar Electronics, Inc.
- 24-623 STRATEGIC MANAGEMENT** MW 4:30-6:40 p.m.
A study of decisions and actions needed to achieve organizational objectives. Background: basic knowledge of management. Instructor: Richard H. Shuford, Jr., D.B.A.; Management Consultant.
- 27-625 SYSTEM MODELING AND ANALYSIS** MW 6:50-9:00 p.m.
A study of techniques for modeling and analyzing large-scale man-machine-environment systems. Background: knowledge of quantitative methods. Instructor: Dean F. Cornwell, Ph.D.; W. J. Schafer Associates, Inc.
- 31-504 QUANTITATIVE ANALYSIS/CALCULUS** Sat. 8:00-12:00 noon
A survey of mathematical methods, including elementary calculus, for applications in management. Background: knowledge of college algebra. Instructor: Raymond C. Watson, Jr., Ph.D.; Southeastern Inst. of Technology.
- 31-617 APPLIED STOCHASTIC PROCESSES** TT 4:30-6:40 p.m.
An intensive study of stochastic processes, emphasizing informational applications. Background: knowledge of probability and random variables. Instructor: Mervin C. Budge, Ph.D.; Dynetics, Inc.
- 31-641 DYNAMICAL SYSTEMS MATHEMATICS** TT 6:50-9:00 p.m.
An examination of topics in mathematics for dynamic modeling, including catastrophe and chaos. Background: basic knowledge of differential equations. Instructor: John R. Glaese, Ph.D.; Control Dynamics Company.
- 34-631 ADVANCED OPTICAL SENSORS** TT 6:50-9:00 p.m.
A detailed study of optical detectors, arrays, and imaging systems. Background: basic knowledge of optical sensor systems. Instructor: Raymond C. Watson, Jr., Ph.D.; Southeastern Institute of Technology.

SHORT-TERM COURSES

- RADAR PRINCIPLES & APPLICATIONS** Jan. 29-Feb. 2; 8:00-12:00 noon
An intensive introduction to radar theory with applications in tactical and strategic defense systems. Primarily for non-radar engineers, system analysts, and technical managers. Instructor: Stephen M. Gilbert, Ph.D.; Consultant. Fee: \$500.
- DEFENSE COMMUNICATION SYSTEMS** Feb. 12-16; 8:00-12:00 noon
A concentrated study of military communication systems of the U.S. and NATO. Primarily for engineers and technical managers developing tactical and strategic defense systems. Instructor: Willard G. Preussel, B.S.E.E.; Dynetics, Inc. Fee: \$500.

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Handicapped employee recognized for her achievements

BY SANDA LAGER

A MICOM employee is the recipient of an Army Materiel Command honorable mention award in Department of the Army's handicapped employee of the year competition.

Jane Armstrong, a Stinger Project Office supply management representative, received the award Dec. 20 from Maj. Gen. William Chen, commander of MICOM and Redstone Arsenal.

Stricken with rheumatoid arthritis at age 11, Armstrong has been a government employee for 25 years, including employment at Marshall Space Flight Center, Strategic Defense Command and at the Missile Command for the past seven years.

Although her condition has worsened over the years — she has undergone a hip replacement and surgery on both elbows — she has been able to gradually cope with her arthritic condition, Armstrong said. Ninety-five percent of her joints are affected by the disease. She wears a hand brace on her left hand.

"You can be as independent as your disease allows. The important thing is to set goals — short-term as

well as long-term goals — one hour, one week goals. Give yourself strokes and treat yourself for your successes."

Armstrong said one thing a person with a handicap should always be aware of is that "you can't do it all."

"I've learned over the years how to slow down when I need to. Rest is very important. Also, compromise is important. You might have to find a different way of doing things."

Armstrong requires constant medication, and physical therapy and exercise are a part of her daily regimen, she said.

Despite her malady, Armstrong had a perfect sick-leave record for three years, 1984-86, a particularly significant achievement for a person seriously afflicted with arthritis.

Armstrong said her co-workers are very supportive and recently made available to her a telephone headset to lessen the pain she experiences when using her hands to hold a telephone receiver.

Armstrong is a magna cum laude graduate in business administration from Athens State College.

She completed the AMC intern training program in supply management at Texarkana, Texas, in 1983.

Armstrong said she receives a great deal of positive support from her relatives and friends. She is a native of Moulton, in Lawrence County, and has lived in Huntsville for 21 years.

She lists her hobbies as traveling, gardening and working with the North Alabama Chapter of Federally Employed Women and other local women support groups.

"My career comes first," said Armstrong, noting that she sometimes has to limit her extra activities in order to perform at full capacity on the job.

"I don't want people to think of me as handicapped, yet I still want people to know how crippling a disease arthritis is," she said.

(Editor's note: More than 36 million Americans suffer from arthritis, two-thirds of which are women. Osteoarthritis and rheumatoid arthritis strike women three times as often as men, affecting about 10.5 million and about 5 million American women, respectively.)



HONOREE — Armstrong's award cites her for showing uncommon courage and ability in performing her job, and serving as an inspiration to disabled persons both in and outside the government.

Troop bowling

Troop intramural bowling standings as of Jan. 12:

Tuesday's Conference	Won	Lost
TMDE Support Group	242	133
HHC MICOM-1	228	147
HHD 269th-1	226.5	148.5
HHD 832nd	214.5	160.5
MEDDAC-2	210	165
MEDDAC-3	205	170
D Company 73rd	195	180
C Co. 832nd	195	180
C Co. 73rd-2	183	192
MEDDAC-1	182.5	192.5
Marines	159	216
515th-1	144	231
515th-3	138	237
*Officer Advance Course	97.5	277.5

*new team — assumes old team's record

200 games bowled Jan. 9:

Dan Buckner (TMDE)	235
Jim Morrow (C Co. 73rd-2)	227
Doug Chambers (OAC)	210
Thurman Farmer (HHD 269th)	208 & 205
Steve Herring (HHD 832nd)	208
Everett Gray (Marines)	206
Duane Brandt (C Co. 73rd-2)	202
Curtis Murphy (TMDE)	202

Thursday's Conference	Won	Lost
C Company 73rd-1	265	110
B Company 73rd-2	259	116
A Company 73rd-1	255	120
D Company 832nd-2	247.5	127.5
A Company 73rd-2	239.5	135.5
A Company 73rd-3	201.5	173.5
B Company 73rd-1	193	182
Readiness Group	192	183
515th-2	153.5	221.5
D Company 832nd-1	136	239
MEDDAC-4	127.5	247.5
HHC MICOM-2	124	251
HHD 269th-2	107.5	267.5

*B Company 832nd
*forfeited out of league

200 games/600 series bowled on Jan. 11:

Boyd Conner (A Co. 73rd-2)	242 & 604 series
Jim Howard (HHC-2)	232
Jim Barnwell (A Co. 73rd-1)	231
Bruce Brinkley (A Co. 73rd-1)	222
Bill Hollifield (B Co. 73rd-2)	216
Gerald Setzke (A Co. 73rd-3)	211
Woody Davis (A Co. 73rd-1)	206
Leo Avizinis (C Co. 73rd-1)	203 & 292

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Course prepares officers for jobs in space operations

BY TOM JOYCE

AMERICAN FORCES INFORMATION SERVICE

A speck of paint so tiny that it wouldn't be noticed by anyone on Earth drew lots of attention after a recent flight of a U.S. space shuttle. Traveling at 17,000 miles per hour, the speck slammed into the front window of the shuttle, causing a small chip — had it been just a bit larger it might have shattered the window and possibly destroyed the orbiter.

Dodging orbiting debris is one of many challenges facing the Department of Defense as it increases its role in space. One of DoD's bigger challenges, however, is to make sure it has enough trained military officers to manage its critical space assets.

The latter challenge is being addressed through the Undergraduate Space Training Course, conducted by the 3301st Space Training Squadron, Lowry Air Force Base, Colo. There, select officers from all the military services undergo 14 weeks of rigorous classroom instruction to prepare them for careers in space operations.

Many people believe, wrongly, that the military role in space is limited to the Strategic Defense Initiative. Actually, SDI is only a small fraction of the space-related work performed by the military. Day-to-day military space activities in the past decade include work with satellites and other space vehicles used for communications, weather forecasting and intelligence collection.

Undergraduate Space Training, however, focuses almost exclusively on the fundamentals required to operate in three areas: space surveillance and missile warning, satellite operations, and command and control.

"Our graduates have to have a strong working knowledge about the science and technology of space, and they have to know how each of the many satellite systems in the U.S. inventory interoperate," said Lt.

Col. Joseph D. Dumoulin, commander of the training squadron. "They have to be able to tell their commanders how the available space assets can help them perform their missions."

Fourteen weeks isn't much time to learn the basics of esoteric subjects such as astronautics and rocket design. That's probably why most of the students entering the training have extensive backgrounds in the engineering sciences. Each officer has been through a rigorous screening before being accepted to the program.

The course is heavily scientific — 154 hours of science fundamentals alone. Courses include mechanics, thermodynamics, electricity and magnetism, optics, space environment and orbital mechanics. The officers leave with a working knowledge of how objects are put into orbit, how those satellites operate while there and what they can do for their commanders.

Students also receive extensive training on satellite operations, U.S. and foreign launch systems, command center operations and space law.

The growth of the military role in space has been slow and steady, and appears to have unlimited potential. For example, Air Force organizational changes will put the service's satellite, anti-satellite and ballistic missile defense programs on an equal footing with its bomber, fighter and transport missions. The Army's SDI role and the Navy's reliance on space-based command, control and communications systems also support an increased role in space.

A career in space operations did not always appear so bright. That might help explain why most officers attending Undergraduate Space Training are second lieutenants. However, there are field grade officers being trained to fill personnel gaps created by a lull in military space activities in the 1970s.

That lull has ended.

"Our military satellites today provide support that is so vital to the conduct of operations that no modern military force could operate without them," said Air Force Gen. Robert T. Herres, most recently vice chairman of the Joint Chiefs of Staff and a former commander of the U.S. Space Command.

The Defense Space Policy, signed Feb. 4, 1987, calls military space activities critical to national security. It concludes that military space operations are as important to national security as land, sea and air operations.

Many of the students attending Undergraduate Space Training consider themselves pioneers, akin to the Wright Brothers in 1903 at Kitty Hawk, N.C. There is a feeling among them that they are on the cutting edge, as they learn about how much DoD will rely on them in the future.

Still, only a few believe that they will ever experience space firsthand. "U.S. space activity has increased rapidly since the first American satellite was launched in 1958," one student said. "But I don't believe there will be a need during my career to have a strong physical presence in space. Our role will most likely be limited to command, control and communications."

After graduation, students may be assigned to missile warning or space surveillance units, satellite operations centers for command and control of DoD satellites, or command centers that support the national command authorities. Their assignments can take them from Cheyenne Mountain, Colo., to Shemya, Alaska, and Choejong, South Korea.

America is back in space in a big way, so these space operations officers can expect increasing moments in the limelight. They may be the people who get military satellites to perform their glamorous high-tech missions. But even if they quietly track space junk, no one can say that job's dull — unless that's what one calls keeping the nation's security, astronauts and space shuttles out of harm's way.

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Some Army commissaries prepare for base closings

FORT LEE, Va. — Congress' acceptance of the recommendations of the Defense Secretary's Commission on Base Realignment and Closure, have prompted officials at the Army Troop Support Agency to reassess the needs and priorities of 19 of its commissaries.

Closings have impact on three commissaries: Presidio of San Francisco, Fort Sheridan, Ill., and Cameron Station, Alexandria, Va.

Four commissaries at Forts Bliss, Texas; Monmouth, N.J.; Meade, Md.; and Huachuca, Ariz., are projected to have decreases in sales due to military population shifts.

Commissaries at Forts Carson, Colo.; Devens, Mass.; Benjamin Harrison, Ind.; Knox, Ky.; Leonard Wood, Mo.; Jackson, S.C.; Belvoir, Myer and Lee, Pa.; Lewis, Wash.; and Tobyhanna Army Depot, Pa., are expected to have increases in sales.

Several actions have been initiated to prepare for closures and to establish augmented facilities at other locations.

Commissary shoppers were surveyed to determine where they'd shop when the Cameron Station commissary closes. Forty-nine percent indicated that they'd use the Fort Belvoir, Va., commissary, while 30 percent indicated they'd do business with the commissary at Fort Myer, Va. Plans are under way to build new facilities at Forts Belvoir and Myer to absorb the increase in shoppers.

Plans are being developed to relocate the Lexington-Bluegrass Army Depot commissary from the Lexington activity which will close to the Bluegrass activity which will remain open.

Also, plans are under way to expand the Fort Benjamin Harrison commissary to support increases in shoppers and the proposed new facility at Fort Devens will accommodate customers from nearby Pease Air Force Base which is on the closing list.

Increases in the Jackson, Carson, Knox, Leonard Wood, Lee, Lewis and Tobyhanna commissaries are negligible and, at the present time, do not warrant renovation to accommodate the influx of soldiers on the installations. (Troop Support Agency news release)

Cheney issues hiring freeze

Secretary of Defense Dick Cheney has issued a prohibition on hiring of civilian employees for the rest of this year.

He states in a Jan. 11 memorandum, "Effective immediately, the hiring of civilians for positions within the Department of Defense during fiscal year 1990 is prohibited." Prior commitments, essential medical, safety and security personnel, and a few others are ex-

cepted, but high-level approval is required for exceptions.

The memorandum also tasks the assistant secretary of defense for force management and personnel to prepare by April 11 "a plan for reduction over the long term of the Department's civilian work force to the full extent consistent with the effective performance of the Department's missions."

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- Requests for applications must be postmarked on or before January 31, 1990.
- Upon receipt of your request, the Department of Employment Security will mail you an application. Completed applications are to be mailed to the Tennessee Department of Employment Security using the above address.
- Applications must be returned by February 13, 1990.
- Applications meeting qualifications established by Bridgestone (U.S.A.), Inc., will be forwarded to Bridgestone for consideration.

Contact with the Department of Employment Security should be by mail only. The Tennessee Department of Employment Security is the only applicant referral source for these positions.

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BRIDGESTONE



Medical clerks help Fox Hospital run smoothly

BY SKIP VAUGHN

Medical clerks at Fox Army Community Hospital have a tough job, and many times the patrons they deal with daily don't appreciate it.

They're the ones who schedule appointments and serve as receptionists in the clinics. They answer calls for appointments — usually more than one at the same time — and serve as the initial contact for people who understandably aren't in the best of moods.

"I think they're probably one of the most important people in the system. The way we're set up, they're just as important as the health care provider the patient eventually sees," said Capt. Ed Stevens, chief of the clinical support division at Fox Hospital.

There are 14 medical clerks — seven appointment clerks and seven receptionists — in the clinical support division. They are assigned to various areas in the hospital. Several years ago, the hospital converted from a centralized appointment system to a decentralized appointment system in which each clinic handles its own scheduling. "This division is responsible for the total administrative support of all the clinics and that patient appointment system is just one part of it," Stevens said.

It gets hectic at times. In the family practice clinic alone, for example, from 150 to 200 appointments a day might be made for the seven physicians. There are four incoming phone lines and two walk-up windows. "Sometimes it gets real hectic up there at the appointment desk," Stevens said. "That's one thing people should realize when they make an appointment, that they've also got three lines on hold."

The hospital had 10,028 scheduled visits for last November. Some 210 of those proved to be no-shows — people who failed to appear for their appointment without canceling in advance. If they had called ahead of time, the hospital could have scheduled someone else.

Appointments are made for active duty military and their family members, retired military and their family



BUSY JOB — Darnell Mallard, sitting behind counter, is a medical clerk at the GYN/Surgical Clinic.

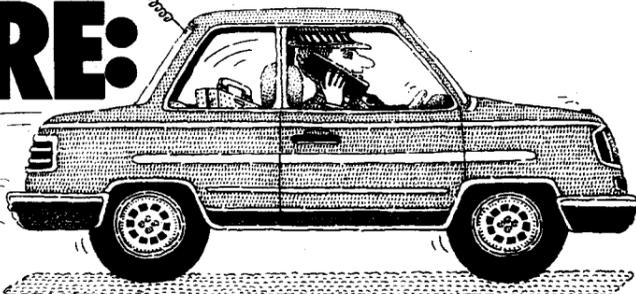
members in all branches of service. The hospital plans to convert soon to a new computer system that will enable each clinic to access the schedule for other clinics. This system should be faster and more convenient than the present computer system, according to Stevens. Efforts are under way to have the first terminal in operation in family practice in early February.

"I think they (the medical clerks) do a good job considering the situation that they're in," said SFC John Jackson, the patient appointment system supervisor and NCO-in-charge of the clinical support division. "They're sort of the buffer between the patient and the provider. So, sometimes they have to take a lot of abuse. I think they're a big asset in terms of keeping the hospital running smoothly."

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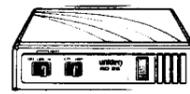
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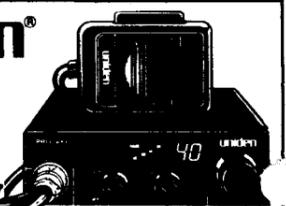
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Announcements

Movies

Here's the Post Theater schedule; starting times are 7 p.m.: Thursday, Jan. 18 — *Halloween 5: the Revenge of Michael Myers*, rated R, 97 minutes. Friday, Jan. 19 — *Dad*, PG, 117 minutes. Saturday, Jan. 20 — *Peter Pan*, G, 77 minutes. Sunday, Jan. 21 — *Harlem Nights*, R, 115 minutes. Tuesday, Jan. 23 — *Harlem Nights*. Admission is \$1.50 for adults, \$1 for children.

Ordnance scholarships

The Ordnance Corps Association has extended the period for its special year-end scholarship grant offering due to the holiday season. Applications will now be accepted for this offering through April 1. The scholarship grants will be offered in the following amounts: \$1,000, first place; \$750, second place; \$500, third place; and \$250, fourth place. The grants are offered to further educational pursuits in accredited institutions, and are "in line with the purpose of the Association as outlined in its constitution." The grant criteria, outlined in the application, includes a short essay on the Ordnance Corps and a composition outlining why the candidate should warrant the grant. For an application, write to the Ordnance Corps Association, P.O. Box 377, Aberdeen Proving Ground, Md. 21005.

AUSA meeting

Michael P.W. Stone, secretary of the Army, will be the guest speaker at the Redstone-Huntsville Chapter of the Association of the United States Army general membership meeting set for Jan. 24. The evening meeting will be held at the Officers Club. For reservations or more information, call Bekye Cristen 880-4500.

Green Beret recruits

Recruiters for the Army's Special Forces will visit Redstone Arsenal next week to talk with soldiers interested in joining the Green Berets. The Special Forces will hold discussions Jan. 25 from 10 a.m. to 1 p.m. at the Support Troops Classroom in building 3437. For more information, call Pvt. Cory Hebbeln 876-3145.

Basic skills

"Do you fall short in your GT score? Want another stripe? Need a new MOS? Long to be a warrant?" The Basic Skills Education Program (BSEP) can help make your wishes come true. Call 876-3205 or visit the staff at building 3218.

W-2 forms

Wage and Tax Statements (TD Forms W-2) for military personnel will be distributed with the January leave and earnings statements. Non-receipt, lost, destroyed or TD forms requiring correction due to incorrect money amounts reflected on the statement should be reported to the Military Pay Section, building 3619, phone 876-6147. That office will contact the Army Finance and Accounting Center for the tax statement to be reissued. Soldiers should be prepared to provide substantiating documents to correct irregularities in their TD Form W-2 and a current mailing address. Reissued statements will be processed on a first-in, first-out basis. Allow three to five weeks for delivery. Soldiers discharged or retired during 1989 are scheduled to receive their TD Form W-2 by Jan. 31. Soldiers discharged during 1989 who do not receive a TD Form W-2 by Jan. 31 should call (317) 542-2787/2788 or (317) 543-2797/2798. Retired soldiers who do not receive their TD Form W-2 should call 1-800-428-2290.

Personal finances

Army Community Service will conduct a personal finance workshop from Tuesday, Feb. 6 through Thursday, Feb. 16. "This workshop is tailored to the needs of younger soldiers and their spouses." Topics will include the Army Pay System, Family Budgeting, Banking and Credit Union Services, Checking Account Management and Investment. Classes will be held each Tuesday and Thursday from 4-6 p.m. at ACS, building 3491. Seating will be reservation only, and is limited. For a reservation, call Dan Kelly 876-2859.

Future scientists

Applications are available for the DoD Science and Engineering Apprentice Program. This program is designed for high school students who have demonstrated strong aptitude in science and mathematics and show promise for careers in the sciences, mathematics, engineering, and computer applications/science/programming. U.S. citizens in grades nine through 12 are eligible for this program. Children of MICOM employees are eligible for participation. The deadline for receipt of application and supporting materials is Jan. 31. Applications have been mailed to science and math teachers at public and private high schools in Madison, Morgan and Limestone counties. Students should request applications from the teachers. If applications are unavailable, students should contact Dr. Katie Blanding 876-9296, Research Directorate, building 7770, room 116.

Sci-fi group

North Alabama Science Fiction Association will meet 7 p.m. Jan. 20 at the First American Federal Bank building, 4008 University Drive West. Five modern science fiction short stories from recent anthologies and magazines will be presented. The North Alabama Science Fiction Association is a local literary organization interested in speculative fiction and fantasy. Meetings are usually held on the third Saturday of the month. For more information, call 772-3587 after 10 a.m.

Alcoholics Anonymous

Alcoholics Anonymous meets every Wednesday at noon and Friday at 5:15 p.m. in room 11 of the Bicentennial Chapel.

Performance managers

Huntsville Chapter of the Performance Management Association will have its monthly membership meeting Thursday, Jan. 18 at the Officers Club. Social hour will begin at 5 p.m. and the meeting at 5:30 p.m. William Fiorentino, retired brigadier general, is to speak on "Controlling of Cost and Schedule as a Shared Responsibility between Government and Contractor." For information, call Bill Werner 461-3493 or Deborah Christian 895-4927.

Singles group

"Singles, would you like to build your communication skills while gaining confidence in all aspects of life?" Join Toastmaster Singles 6:30 Friday evenings at Shoney's across from stadium. For more information, call James Marr 882-2863.

Girl Scout cookies

Girl Scouts this week began delivering Girl Scout cookies across northern Alabama and southern Tennessee. "If you have not ordered those great tasting Girl Scout cookies, or you want to order more, you can buy them directly!" Girl Scouts in Huntsville and Madison County will be having booth sales at Parkway City Mall, Wal-Mart and K-Mart stores Jan. 20, 27, Feb. 3 and 10. You may also purchase Girl Scout cookies through Feb. 8 at the Girl Scout Service Center, 4704 Whitesburg Drive, Monday through Friday 8 a.m. to 5 p.m. and Saturdays from 9 a.m. to 1 p.m.

Cancer support group

The American Cancer Society Breast Cancer Support Group, "Bosom Buddies," meets the fourth Tuesday of every month at 7 p.m. in the Community Education Annex of Humana Hospital. This free support group is open to all women who have experienced breast cancer. The January meeting will convene on Jan. 23 at 7 p.m. For more information and to register, call "Humana On Call" 532-5895.

Contract managers

Huntsville Chapter of National Contract Management Association will meet at 11:30 a.m. Jan. 25 at the Officers Club. Dr. Martin Marquardt, of the Florida Institute of Technology, is to speak on "Continuing Education in Contracting Management." Cost is \$5 for lunch. Everyone is welcome. RSVP to 536-1527.

Preseparation orientation

The next preseparation orientation (not retiree orientation) for military personnel with ETS or Release from Active Duty dates through May 25 will be held 8-noon Jan. 25 in building 3495 (Toftoy Hall), auditorium room 119. Representatives from Veteran Affairs, Employment Services, Military Pay Division, and others will brief attendees and answer questions pertaining to post-separation plans. Spouses are encouraged to attend. It is mandatory for specified personnel to attend.

Red Cross blood program

Jan. 18 — *Thiokol (bus)*, 7:30 a.m. to 12:30 p.m., contact Mary Cash 882-8220. Jan. 19 — *building 5681 (bus)*, 7-noon, Sallie Johnson 876-1395. Jan. 26 — *building 4505 (bus)*, 7:30 a.m. to 12:30 p.m., Bertiera Humphrey 876-5511.

Comptroller careerists

A MACARS — MICOM Automated Career Appraisal and Referral System — panel for Comptroller (CP-11) careerists in grades GS-11 and GS-12 will be held in March. Any initial submissions, changes, or updates should be forwarded by Feb. 16 to AMSMI-RM-MS, building 5250, room A-304; send original and three copies. In accordance with Civilian Personnel Office bulletin 438, dated April 26, 1989, careerists should not request a rating higher than a demonstrated/potential 3. For more information, call 876-6188.

Government accountants

North Alabama Chapter of the Association of Government Accountants (AGA) will meet Thursday, Jan. 18 at the Hilton Hotel, 401 Williams Ave. Social hour begins at 5:30 p.m. with dinner and program to follow. Scheduled speaker is Rep. Ronnie Flippo of Alabama. For reservations call Sharal Huegele 544-7286.

Parents Without Partners

The Huntsville Chapter of Parents Without Partners is growing; "we need more good people." Single parents, with or without custody of their children, are invited to come share the fun and games of both children and adult activities. Meetings are held Tuesdays from 8-9 p.m. at Brahan Springs Recreation Center. For more information, call 882-1302 or 852-0923.

Comedy show/dance

C Company, 73rd Ordnance Battalion will have its first annual comedy show and dance featuring three comedians, starring John King, and a disc jockey; the event will be held March 2 from 8 p.m. to 2 a.m. at the Challenger NCO Club. Cost is \$6.50 per person; there will be free hors d'oeuvres. For more information, call SSgt. Parker 876-2622.

Post Exchange

The PX annual inventory will be held Monday, Jan. 22. The following activities will close that day: Military Clothing Sales Store, building 3220; Troop PX, building 3479; Service Station Retail Store, building 3240, closes at 1 p.m. but the gas lanes will remain open all day. All other facilities will be open.

Property managers

The National Property Management Association will meet Jan. 23 at 5 p.m. at the Red Lobster Restaurant on University Drive. Election of officers will be held. For more information, call Robbye Petroski 544-5370.

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Five Points

Ride wanted from building 3730 to Five Points Area (Toll Gate Road), to be picked up 4 p.m. Joe Buck 876-8967.

classifieds

Federal law makes it illegal to advertise any preference, limitation or discrimination in housing based on race, color, religion or national origin. The REDSTONE ROCKET will not knowingly accept advertising that is in violation of the law, and readers and advertisers are hereby informed that all dwellings advertised in this paper are available on an equal opportunity basis.

According to the Inspector General, the use of office phone numbers in classified advertising is contrary to regulation. Please submit home numbers only.

FOR SALE: 1975 Datsun, 280Z 2 plus 2, automatic, am/fm stereo. 141K miles, not running, ready to be restored. \$1300 or best offer. Serious offers only. Call 882-3254.

FOR SALE: 1978 Ford Courier, long bed, roll bar, step bumper, brush guard, 2.3 litre, 5 speed, 127K miles. One owner. \$900 or best offer. 882-3254.

FOR SALE: 1979 Yamaha 750 Special, black, engine crash bar, back rest/rack, garage kept-extra sharp. 10K miles. \$900. Call 882-3254.

FOR SALE: Honda 50, year unknown, not running, needs work. \$50. Call 882-3254.

HOUSE FOR SALE: 9 year old all brick rancher with 12x16 foot deck, 6x27 feet front porch and attached 2-car garage. 1577 square feet of heating space; large bedrooms, 2 full baths, large greatroom and 7x25 feet laundry room. New carpet throughout in April '87. R-30 insulation in the roof and R-19 in the floor plus double pane windows. Central heat and air, wall heaters and a nice wood heater with blower. Custom drapes and mini blinds. Approximately 1 acre lot with several shade trees, fenced back yard, 14 feet wide drive lines with cross-ties. Located 10 miles East of Arab, 13 miles West of Cullman, and 35 miles from Building 5681. Price is \$62,900 or \$10,000 equity and take up payments of \$458 per month (insurance and taxes are included in the monthly payment). Call 796-5587 any time till 10 p.m.

FOR SALE: 1982 Chevy Silverado Pickup. New engine, paint, tires and interior. Towing equipment. Sharp! \$4000. Call 498-2283 after 4 p.m.

FOR SALE: 1.5 acre lot in Northwood Estates, Arab. Borders Twin Lakes golf course. Beautiful wooded lot. 586-6039.

HYUNDAI FOR SALE: 1989 Excel GL. Automatic, air conditioning, sun roof, am/fm stereo cassette, extra clean, just over 4000 miles. Will sell for NADA loan value, or \$500 down and take over payments or refinance. Call 881-7385.

FOR SALE: 1984 Mustang, 4 cylinder, automatic, am/fm, air conditioning, power steering, power brakes. Low average, local mileage. Asking \$2300. Call 883-6115 after 5 p.m.

FOR SALE: 1979 Ford F-150 pickup with 351 V-8, automatic, power steering, power brakes, air conditioning, \$1300; 8-2600 E Kubota diesel lawn tractor with turf tires and 48" mid-mount deck, \$2500; 110 volt wall insert heater; Maytag automatic washer. 881-9626.

FOR SALE: Girl's infant clothes, size 0-12 months, assorted infant items. Evenflow (Easy Rider) car seat with tray, canopy, rocker and carrier. Ladies' peach color coat size M. Men's black suede coat, size M. Everything in very good condition. Call 721-9877 anytime.

LOT FOR SALE: Holly Tree Subdivision. 150x200 (1/4 acre) lot, ready to build, in well developed, restricted subdivision, Sam Thomas Road, 1 mile north of University Drive between Madison and Monrovia. \$17,000. 837-9755.

FOR SALE: Sears car-top carrier, \$35. Antique, sewing machine cabinet, \$45. 2 Mercedes 280S halogen headlamps, \$30. Antique, solid oak dresser, \$110. Antique, solid oak German sleigh bed, twin size, very old, \$200. 2 German bicycles, male and female, 3 speeds, \$40 each. Call 882-2305 after 5 p.m.

FOR SALE: "Typing at home" magazine. Original cost \$29.95, sell for \$10. Call 830-6476 after 5 p.m.

FOR SALE: 1969 14 foot V Bottom boat, motor, and trailer with 4 life vests, trolling motor and battery. The motor is a 1978 Johnson 33 hp electric start. Asking \$750 for everything. Contact Roy Brown at 859-9636 after 4 p.m.

FOR SALE: Kenmore gas dryer, excellent condition, \$75; Microwave oven, \$25; Boy's BMX style bike, \$25. Call 830-5287.

WANTED TO BUY: Any older baseball cards, 1990's to 1960's. Will buy entire collections, large or small. Call Scott at 881-1030 after 10 a.m. any day.

FOR RENT: Available early January, clean 3-bedroom, 1 1/2 bath, house convenient to arsenal, just outside Gate 10; well insulated with storm windows and doors; central heat and air conditioning; also wood heater available; heavy window shades; built-in range top and oven; insulated utility room with dryer and washer connections; TV cable and telephone connections; 1 carport; fenced yard. Rent \$400 per month, references and deposit required, small pets. 881-2586 after 5 p.m. or 544-2420.

FOR SALE: 1987 Oldsmobile Delta 88. White with burgundy interior, 4-door, power windows, power steering, automatic transmission, power door locks, power antenna, am/fm cassette stereo, air conditioning, cruise, rear window defroster, intermittent wipers, good tires, well maintained with complete records. immaculate condition. \$8300. 880-6167 after 4:30 p.m.

FOR SALE: Glass dinette set with 4 chairs, \$200; Oak bedroom set, \$325; Refrigerator, \$100; Kitchen table, \$15; Chairs, \$8 each; Pool table, \$175 (needs minor repair); Color console t.v., 25", \$150. All items are negotiable! Call 851-7524 or leave message.

FINDING OF NO SIGNIFICANT IMPACT for Central Waste Water Treatment Plant at Redstone Arsenal, Alabama

An Environmental Assessment (EA) has been written for the construction and operation of a new, centrally located waste water treatment plant at Redstone Arsenal, Alabama. The Central Waste Water Treatment Plant (CWWT) will be financed, constructed, operated, and maintained by a third party contractor (Proctor/Davis/Ray). Redstone Arsenal will pay an annual depreciation cost plus a per thousand gallon treatment cost on a monthly basis. The new CWWT will replace four existing outdated and hard to maintain waste water treatment plants located in various and separate sites around Redstone Arsenal. The new plant will be of the best available technology.

The contractor, will be obligated to meet all the requirements of the Clean Water Act of 1975 and obtain his own National Pollutant Discharge Elimination System (NPDES) permit from the Alabama Department of Environmental Management (ADEM). The contractor will be solely responsible for operating the plant and meeting waste water discharge limitations in accordance with this NPDES permit.

The CWWT will be sited on the south side of Suxton Road, approximately 100 feet west of Building 8027 (Finance and Accounting). The plant will occupy approximately 7.0 acres. The plant will be of an oxidation ditch type of treatment and the discharge will be to the existing gravity outfall sewer which already connects to the Tennessee River near TR mile 323.

Several alternatives to constructing this plant were examined including regional waste water treatment connections, upgrade of existing plants, alternate methods of treatment and doing nothing. Regional linkups were discouraged by the affected parties. Upgrading the existing plants would still leave the operation in nearly fifty year old facilities that are difficult to maintain with four separate discharges. Alternate methods were either more expensive or not as technically sound. Doing nothing would leave the system as it is, nearing end of usefulness and in a state of not being able to comply with the present NPDES permit.

Impacts to the environment will be minimal as the plant site is in an area that has been used for borrowing of earth for construction projects as well as disposal of clean excess dirt from these same projects. There are no archeological sites located on this project area. There are no threatened or endangered species utilizing this area. The project is not located in a flood plain. Construction impacts will be short term and associated only with the project site. The contractor will be required to control runoff and minimize erosion.

The EA concludes that this project will not have a significant impact on the environment. An Environmental Impact Statement (EIS) is not required.

Inquiries about this EA may be directed to Mr. Elbert Ray, Proctor/Davis/Ray, Lexington, KY, (606) 223-8000; Mr. David S. Branham, Director, Directorate of Engineering and Housing, Redstone Arsenal Support Activity, 875-3518; or Mr. David G. Harris, MICOM Public Affairs Officer, 876-4161.

FOR SALE: Must sell new Kenwood receiver (\$175), Aiwa CD player (\$175), Akai CD player (\$150), new large Cerwin-Vega speakers (\$300), new infinity large speakers (\$250), smaller Fisher speakers (\$50), small outdoor patio speakers (\$10), heat pump for spa (\$800), spa filter (\$40), spa bubbler (\$30), Kirby vacuum cleaner with attachments (\$150), Hoover vacuum cleaner (\$40), Oskar food processor (\$20), Flotation waterbed (double) with box spring/mattress (\$100), wood crib with mattress (\$50), wooden 2 seat swing (\$20), large Amana microwave (\$50), smaller Toshiba microwave (\$50), Sunbeam mixer (\$5), Patterson black and white photo studio for home use with enlarger, timer, lights, etc. (\$150), small indoor electric heaters (\$20-\$25), Akai turntable (new) (\$90), Minolta XG5 camera with 50mm lens (\$175), Minolta SR101 with 50mm lens (\$150), antique small wicker rocker (\$125), off white queen size sleeper sofa (\$150). Call after 5 p.m., 721-0604.

NOW BOOKING: 1990 Angling Adventures on Lakes Guntersville, Wheeler and Wilson. Call 880-3079 to reserve your trip. Area guides urged to register also.

FOR SALE: Treadmill exercise, like new (not electric), \$125. Two cushion love seat, soft shade of green and gold on white background, \$125. Zenith stereo console, pecan cabinet, beautiful piece of furniture, works fine, \$100. Call 536-4718.

FOR SALE: 1 26" toddlers seat with belts for bicycle, \$5; 1 back glass for S-10/S-15 truck, \$75 or best offer. Complete Husky trailer receiver to fit Astro or Safari Mini Van with trans. cover. Handles 500 pounds tongue weight/5000 pounds load weight. 1 year old, used three times, retail \$325, will sell for \$250 or best offer. Call 837-6625 after 5 p.m.

FOR SALE: Men's Goretex ski jacket, costs \$120, will sell for \$50. Outdoor charcoal grill, \$10. Artificial Christmas tree, \$10. Visions cookware, full set, \$20. 536-6934.

FOR SALE: 3 bedroom, 1250 square foot home just outside Gate 10. Large fenced yard with lots of mature trees. Newly wallpapered and painted, gas heat, central air, TVA package, large storage building, \$4,500 equity and assume \$480 payment on 9.5 percent fixed loan. See at 4418 Millvale Drive or call 536-6934.

MOVING SALE: German 11 piece living room schrank, 3 piece living room suite, coffee and end table, kitchen table and 4 chairs, washer and dryer, desk, waterbed, 2 nightstands, 4 drawer chest, 7 drawer dresser with hutch mirror, child's German-made bedroom suite, stereo and much, much more. For more information call between the hours of 7 a.m.-7 p.m., 721-9877.

HOUSE FOR SALE BY OWNER: Custom VIP home on 3 acres. Large courtyard with fountain, deck, 20x40 beautiful pool, oversized 2 car garage, solarium and great room. Large kitchen. Too many extras to mention. Appointment only. 830-1477.

FOR SALE: 1986 Chevy Van, 4 reclining captain seats, back seat converts to bed, front and rear air, am/fm/stereo radio cassette, t.v., drink table, cooler, clothes rack, much more. Leaving country, must sell. \$10,500 or best offer. 830-1969.

FOR SALE: 1974 Caprice Station Wagon. 400 C.I. small block. Needs rear brake shoes. \$200 as is. 721-0687.

FOR SALE: Okimate 20 color printer with C/64 interface and cable. 1 case of color ribbons and 1 case of black ribbons. All for \$100. 721-0687.

FOR SALE: Pair 16x63 Sears fiberglass shutters, \$35. Pair Radio Shack home stereo speakers, \$60. Panasonic telephone answering machine, \$45. 4 Sears adult lifevests, \$35. Sears Craftsman bench grinder, \$35. Sears Craftsman cordless screwdriver, \$30. 880-3355 after 4 p.m.

FOR SALE: All original 1973 Dodge Charger automatic with 440 CID (engine not running), triple black, real good body and interior. \$450. 379-3341.

FOR SALE: 1973 12x60 mobile home. Super clean, excellent condition. Located in nice park, convenient to Redstone. \$5200. 837-7464.

FOR SALE: 1987 Sable, one owner, low mileage, all options. \$8700 firm. 1985 Pontoon, 50 hp Evinrude, power trim, trailer, trolling motor and battery, \$6500. Complete storm door (34"x82"), \$25. Oak dresser, antique, \$300. Door, 2 each, birch, excellent condition, \$20 each. Hot Point electric stove, excellent condition, \$100. Beautiful oak half bed, box springs and mattress, excellent condition. \$125. Call 881-8638.

FOR SALE: 1988 Mustang GT, fully loaded, 5 speed, tinted windows, red with titanium trim, 140 Motorsport speedo, RAM-AIR (plus 25 hp), Crimestopper remote alarm system, well-maintained, never smoked in or abused. \$10,999 or best offer. 830-2891 or 722-0636.

FOR SALE: GE washer & dryer set, 2 years old, \$450/set. Kenmore side-by-side refrigerator, 1 year old, \$600. Exercise machine, \$80. Rocking chair, \$60. Hanging light, \$30. Exercise bike, \$80. Barbecue grill, propane, \$100. Call 830-4154 after 5 p.m. All prices negotiable.

FOR SALE: Pop up camper, sleeps 6, excellent condition, \$1500. Call 776-2032 after 3 weekdays, anytime on weekends.

FOR SALE: VHS camcorder, Panasonic, 4 batteries, all attachments, carrying case, manual, 3 years old, perfect condition. \$650. Call Allen Alexander at 852-4420.

FOR SALE: Grammer guitar, 1966, with hardshell case. Comparable to Martin D-28. \$750 firm. Classical guitar, student, with hardshell case. \$100. 539-9346.

MUST SELL: Hummel figurines. Large "Umbrella Girl," sells for \$309, will take \$235. Also, large "Umbrella Boy," sells for \$309, will take \$235. Antique mahogany chest of drawers, circa 1825, \$285 or best offer. Call 721-9785 after 4 p.m.

FOR SALE: Lily Fagg club membership. Swimming and tennis. South Huntsville residents. Call 882-6431 and leave message.

FOR SALE: Three nice northwest homes with 7000 down on each and owner financing the equity. Will sell one or all. Also have a fixer-upper for \$29,900 and some owner financing. Call Bob Rice, 880-3235.

FARM FOR SALE: 10 acres with spring fed pond, large workshop, 40x50 barn, fenced pasture. Nice home with approximately 1525 square feet, 2 bedrooms, 1 1/2 baths, large kitchen, wood burning stove and a lot of comfort. Located 10 miles south of Tennessee River on Highway 231 to Arab. \$85,000. Call 1-498-3278.

FOR RENT: 2 bedroom house, 1 car garage, 1 bath in the Lakewood Subdivision. If interested, call 883-4781, can leave message.

AVAILABLE FEBRUARY 1: Hunters Ridge. 2 bedroom in fourplex by owner. 1 1/2 bath, fireplace, washer & dryer, all appliances, cable & water furnished. New carpet and wallpaper throughout. References required. Deposit required. \$375 per month. 539-0584.

HOUSE FOR SALE: 9 year old all brick rancher with 12x16 foot deck, 6x27 feet front porch and attached 2-car garage. 1577 square feet of heating space; large bedrooms, 2 full baths, large greatroom and 7x25 feet laundry room. New carpet throughout in April '87. R-30 insulation in the roof and R-19 in the floor plus double pane windows. Central heat/air, wall heaters and a nice wood heater with blower. Custom drapes and mini blinds. Approximately 1 acre lot with several shade trees, fenced back yard, 14 foot wide drive lines with cross-ties. Located 10 miles West of Arab, 13 miles east of Cullman and 35 miles from building 5681. Price is \$62,900 or \$10,000 equity and take up payments of \$458 per month. (insurance and taxes are included in the monthly payment.) Call 796-5587 anytime till 10 p.m.

FOR SALE: Brass bed, \$300. Brand new, queen size, heat/foot board with frame, complete set. Call 830-6476 after 5 p.m.

FOR SALE: Full size bedroom suite with good mattress and box springs. Perfect for child's room, has bed, dresser and nightstand. \$100. 883-0780 or 895-4359.

FOR SALE: Childcraft books, all annuals, '78-'89 included. Like new. \$250. 883-0780 or 895-4359.

FOR SALE: Youth German-made bedroom suite. Consists of 3 section wall unit including lighted adjustable desk, record stand and assorted storage areas, bed that converts into daybed. For more information call 721-9877.

FOR SALE: Pontiac turbo 400 transmission, \$90. Ford 429 engine and transmission, \$325. Edelbrock 2-4bbl aluminum intake for 88 Chevy, \$175. Call 379-3341.

HOUSE FOR RENT: 2104 Sycamore, Huntsville. 2 bedroom, 1 bath, central heat/air, washer and dryer, stove and refrigerator, dishwasher, dining room has built-in cabinets and shelves, bedrooms have hardwood floors with carpet and pad for insulation, all windows have venetian blinds, all windows have curtains, storage shed or workshop, covered carport, fenced yard, good closet space, close to Westlawn Middle School. \$425 per month plus \$400 deposit. Deposit can be broken into 2 payments. \$25 pet deposit. Call 883-6041.

TWO LOTS FOR SALE: Thistle Down Subdivision. Both lots at the end of cul-de-sac. One on Fio Drive. Approximately 1/4 acre. One on McCrater. Approximately 1/2 acre. Appraised value, \$16,000 each. Will sell for \$13,000 each. Call Marvin. 882-3486.

FOR SALE: Queen size, fiber filled, low motion, Big Sur Waterbed Hibernation Series bladder. Brand new, need to sell! \$75. 837-3490 Nights.

FOR RENT: \$500 per month, 3 bedroom, only 2 years old. Located on 72 West, 2 miles West of Madison. Available February 1. Call 233-1135.

LOT FOR SALE: Holly Tree Subdivision. 150x200 (1/4 acre) lot, ready to build, in well developed, restricted subdivision, Sam Thomas Road, 1 mile north of University Drive between Madison and Monrovia. \$17,000. 837-9755.

FOR SALE: Commodore 128 computer system, RGB monitor, 1571 disk drive, modem, color printer, books, software, extras. \$500. 830-0624.

HALF A DOZEN WAYS TO EARN AN EARLY RETIREMENT.

1. Eat high-fat, high-cholesterol foods.
2. Smoke.
3. Ignore your high blood pressure.
4. Heavily salt everything you eat.
5. Put on extra weight.
6. Stop exercising regularly.

Follow these steps and you could retire from work, and from life, sooner than you planned.



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WERE FIGHTING FOR YOUR LIFE

HOW TO PLACE A REDSTONE ROCKET CLASSIFIED AD

The Redstone Rocket provides the Rocket Classified section as a free service to active duty military personnel and army civil service personnel at Redstone Arsenal.

To place a Rocket Classified ad:

Type or legibly print a brief description of what you want to sell on an 8 1/2 x 11 inch piece of paper (no 3 x 5 cards or torn paper will be accepted).

Only home numbers will be listed in the advertisement. No office phone numbers will be accepted. Sign the ad, and list some type of identification, such as a building number, badge number, etc.

The deadline is 5 p.m. on Friday before the Wednesday publication. Ads will run for one week only. You may resubmit them.

The Redstone Rocket will not accept classified ads for business. A business classified ad or for those who are not military or civil service is \$5.75 (1 column x 1 1/4 inches, bordered, about 20-30 words).

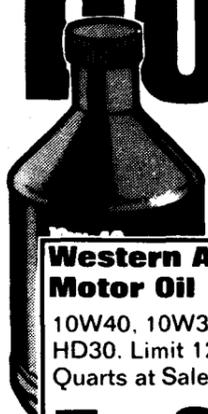
If you submit more than one classified at a time, place each one on a separate piece of paper.

Mail Rocket Classified ads to: Sara Grant & Associates, Attn: Redstone Rocket Classifieds, P.O. Box 5351, Huntsville, Alabama 35801.

The Redstone Rocket will not accept any classified ads by telephone.

The Redstone Rocket is not responsible for typographical errors or for omissions in this section. Classifieds will be published as space permits. First come, first served basis.

DOLLAR DAYS SALE



Western Auto Motor Oil
10W40, 10W30 or HD30. Limit 12 Quarts at Sale Price.
5 Qts. for 3⁰⁰



Quality AC Oil Filters
For many cars and light trucks, except diesels. Limit 2.
2 For 4⁰⁰



AC Brand Spark Plugs
Standard type or resistor type at one low, low price.
6 Plugs for 5⁰⁰

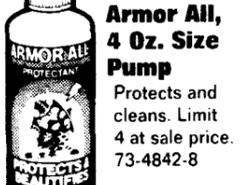
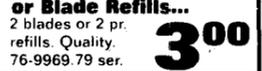
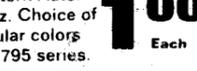


Prestone Anti-Freeze
All-year protection for your car's engine. Limit 4. 78-8122-0
7⁰⁰



ABS Plastic Wheel Cover
European-look. 13, 14 or 15 in. Rugged. Limit 8. 22-6060-62
4⁰⁰ Each

Western Auto LOW, LOW DISCOUNT PRICES...EVERYDAY!

 <p>Auto. Trans. Fluid 4 Quarts For 3⁰⁰ Western Auto. Type F or Dexron. Limit 8 37-3094.95</p>	 <p>Brake Shoes or Disc Brake Pads For most U.S. cars. Shoes with each. One year warr. 6⁰⁰ Axle Set</p>	 <p>Master Cylinder Cast iron units. Composite...24.00/Step Bore...56.00 16⁰⁰ Exch.</p>	 <p>Tough One 65 Month Sale.....39.00 Rebate.....3.00 36⁰⁰ With Trade</p>	 <p>Tough One 75 Month Sale.....49.00 Rebate.....5.00 44⁰⁰ With Trade</p>	 <p>Gunk Puncture Seal 3 Cans For 2⁰⁰ Tire sealant. Manufacturer may vary. Limit 8. 78-4537-3</p>
 <p>Armor All, 4 Oz. Size Pump Protects and cleans. Limit 4 at sale price. 73-4842-8 1⁰⁰ Each</p>	 <p>Semi-Metallic Brake Pads O.E. quality. Limited lifetime warranty. 15⁰⁰ Brake Service Available</p>	 <p>Front Wheel Bearings 10% OFF All Others OE quality. Reg. to 7.99. Now... 4⁰⁰ Each</p>	 <p>Truck and Van Battery Power-packed. Up to 630 CCA. 60 Mo. Warranty. 49⁰⁰ With Trade</p>	 <p>Deico Freedom II Original equip. type battery. 60 Mo. Warranty. 46⁰⁰ With Trade</p>	 <p>Quality Spray Paint Western Auto. 11 oz. Choice of popular colors 73-1795 series. 1⁰⁰ Each</p>
 <p>GUNK 5-Min. Motor Flush Cleans engine in 5 minutes. 30 oz. Limit 2. 78-1503-8 1⁰⁰</p>	 <p>Moly Lithium Grease Cart. Western Auto. 14.5 oz. size cartridge. Limit 2. 78-3330-4 1⁰⁰</p>	 <p>CHILTON Repair and Tune-Up Guides Popular titles. 74-4031 series 8⁰⁰</p>	 <p>AC Air Filters Many U.S. cars. Round-type. Panel-type...4.00 3⁰⁰</p>	 <p>ROBERK Wiper Blades or Blade Refills... 2 blades or 2 pr. refills. Quality. 76-9969.79 ser. 3⁰⁰</p>	 <p>5-Gallon Air Tank Sale.....22.00 Rebate.....2.00 20⁰⁰</p>
 <p>Simoniz Tuff Stuff 16 oz. foam. All-purpose cleaner. 73-4827-9 2⁰⁰</p>	 <p>Pine Tree Air Freshener Forest-fresh! 3-pak. 22-1371-9 THREE PACK 1⁰⁰</p>	 <p>ROBERK Wiper Blades or Blade Refills... 2 blades or 2 pr. refills. Quality. 76-9969.79 ser. 3⁰⁰</p>	 <p>5-Gallon Air Tank Sale.....22.00 Rebate.....2.00 20⁰⁰</p>	 <p>Quality Spray Paint Western Auto. 11 oz. Choice of popular colors 73-1795 series. 1⁰⁰ Each</p>	 <p>Quality Spray Paint Western Auto. 11 oz. Choice of popular colors 73-1795 series. 1⁰⁰ Each</p>

YOU CAN'T CHOOSE THE RIGHT TIRE, IF YOU DON'T HAVE A CHOICE!

<p>30,000 MILE Deluxe All-Season</p> <p>4 TIRES FOR \$69</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>EACH</th> <th>SET OF 4</th> </tr> </thead> <tbody> <tr><td>P155/80R13</td><td>17.25</td><td>\$ 69</td></tr> <tr><td>P165/80R13</td><td>21.25</td><td>85</td></tr> <tr><td>P175/80R13</td><td>22.00</td><td>88</td></tr> <tr><td>P185/80R13</td><td>23.25</td><td>93</td></tr> <tr><td>P185/75R14</td><td>24.25</td><td>97</td></tr> <tr><td>P195/75R14</td><td>25.50</td><td>102</td></tr> <tr><td>P205/75R14</td><td>26.75</td><td>107</td></tr> <tr><td>P215/75R14</td><td>27.75</td><td>111</td></tr> <tr><td>P205/75R15</td><td>28.25</td><td>113</td></tr> <tr><td>P215/75R15</td><td>29.50</td><td>118</td></tr> <tr><td>P225/75R15</td><td>31.25</td><td>125</td></tr> <tr><td>P235/75R15</td><td>32.75</td><td>131</td></tr> </tbody> </table> <p>16-8600 series</p>	SIZE	EACH	SET OF 4	P155/80R13	17.25	\$ 69	P165/80R13	21.25	85	P175/80R13	22.00	88	P185/80R13	23.25	93	P185/75R14	24.25	97	P195/75R14	25.50	102	P205/75R14	26.75	107	P215/75R14	27.75	111	P205/75R15	28.25	113	P215/75R15	29.50	118	P225/75R15	31.25	125	P235/75R15	32.75	131	<p>40,000 MILE Steel Belted Radial</p> <p>4 TIRES FOR \$89</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>EACH</th> <th>SET OF 4</th> </tr> </thead> <tbody> <tr><td>155/80R13</td><td>22.25</td><td>\$ 89</td></tr> <tr><td>165/80R13</td><td>26.25</td><td>105</td></tr> <tr><td>175/80R13</td><td>27.00</td><td>108</td></tr> <tr><td>185/80R13</td><td>30.25</td><td>121</td></tr> <tr><td>185/75R14</td><td>29.25</td><td>117</td></tr> <tr><td>195/75R14</td><td>30.50</td><td>122</td></tr> <tr><td>205/75R14</td><td>31.75</td><td>127</td></tr> <tr><td>215/75R14</td><td>32.75</td><td>131</td></tr> <tr><td>205/75R15</td><td>33.25</td><td>133</td></tr> <tr><td>215/75R15</td><td>34.50</td><td>138</td></tr> <tr><td>225/75R15</td><td>36.25</td><td>145</td></tr> <tr><td>235/75R15</td><td>38.75</td><td>155</td></tr> </tbody> </table> <p>16-8000 series</p>	SIZE	EACH	SET OF 4	155/80R13	22.25	\$ 89	165/80R13	26.25	105	175/80R13	27.00	108	185/80R13	30.25	121	185/75R14	29.25	117	195/75R14	30.50	122	205/75R14	31.75	127	215/75R14	32.75	131	205/75R15	33.25	133	215/75R15	34.50	138	225/75R15	36.25	145	235/75R15	38.75	155	<p>50,000 MILE Classic All-Season</p> <p>4 TIRES FOR \$113</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>EACH</th> <th>SET OF 4</th> </tr> </thead> <tbody> <tr><td>P155/80R13</td><td>28.25</td><td>\$113</td></tr> <tr><td>P165/80R13</td><td>32.25</td><td>129</td></tr> <tr><td>P175/80R13</td><td>33.00</td><td>132</td></tr> <tr><td>P185/80R13</td><td>36.25</td><td>145</td></tr> <tr><td>P185/75R14</td><td>35.25</td><td>141</td></tr> <tr><td>P195/75R14</td><td>36.50</td><td>146</td></tr> <tr><td>P205/75R14</td><td>37.75</td><td>151</td></tr> <tr><td>P215/75R14</td><td>38.75</td><td>155</td></tr> <tr><td>P205/75R15</td><td>39.25</td><td>157</td></tr> <tr><td>P215/75R15</td><td>40.50</td><td>162</td></tr> <tr><td>P225/75R15</td><td>42.25</td><td>169</td></tr> <tr><td>P235/75R15</td><td>44.75</td><td>179</td></tr> </tbody> </table> <p>16-8950 series</p>	SIZE	EACH	SET OF 4	P155/80R13	28.25	\$113	P165/80R13	32.25	129	P175/80R13	33.00	132	P185/80R13	36.25	145	P185/75R14	35.25	141	P195/75R14	36.50	146	P205/75R14	37.75	151	P215/75R14	38.75	155	P205/75R15	39.25	157	P215/75R15	40.50	162	P225/75R15	42.25	169	P235/75R15	44.75	179	<p>60,000 MILE Ultra 775 All-Season</p> <p>4 TIRES FOR \$137</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>EACH</th> <th>SET OF 4</th> </tr> </thead> <tbody> <tr><td>P155/80R13</td><td>34.25</td><td>\$137</td></tr> <tr><td>P165/80R13</td><td>38.25</td><td>153</td></tr> <tr><td>P175/80R13</td><td>39.00</td><td>156</td></tr> <tr><td>P185/80R13</td><td>42.25</td><td>169</td></tr> <tr><td>P185/75R14</td><td>41.25</td><td>165</td></tr> <tr><td>P195/75R14</td><td>42.50</td><td>170</td></tr> <tr><td>P205/75R14</td><td>43.75</td><td>175</td></tr> <tr><td>P215/75R14</td><td>44.75</td><td>179</td></tr> <tr><td>P205/75R15</td><td>45.25</td><td>181</td></tr> <tr><td>P215/75R15</td><td>46.50</td><td>186</td></tr> <tr><td>P225/75R15</td><td>48.25</td><td>193</td></tr> <tr><td>P235/75R15</td><td>50.75</td><td>203</td></tr> </tbody> </table> <p>16-9100 series</p>	SIZE	EACH	SET OF 4	P155/80R13	34.25	\$137	P165/80R13	38.25	153	P175/80R13	39.00	156	P185/80R13	42.25	169	P185/75R14	41.25	165	P195/75R14	42.50	170	P205/75R14	43.75	175	P215/75R14	44.75	179	P205/75R15	45.25	181	P215/75R15	46.50	186	P225/75R15	48.25	193	P235/75R15	50.75	203
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P235/75R15	50.75	203																																																																																																																																																													

• ALL SEASON RADIALS • PERFORMANCE CAR TIRES AT LOW DISCOUNT PRICES!

<p>Western Auto Ultra 770 All-Season Radial 65,000 MILE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>P175/70SR13</td><td>44.97</td></tr> <tr><td>P185/70SR13</td><td>49.97</td></tr> <tr><td>P195/70SR13</td><td>51.97</td></tr> <tr><td>P185/70SR14</td><td>52.97</td></tr> <tr><td>P195/70SR14</td><td>53.97</td></tr> <tr><td>P205/70SR14</td><td>54.97</td></tr> <tr><td>P215/70SR14</td><td>55.97</td></tr> <tr><td>P225/70SR15</td><td>58.97</td></tr> <tr><td>P235/70SR15</td><td>59.97</td></tr> </table> <p>16-9200 series</p>	P175/70SR13	44.97	P185/70SR13	49.97	P195/70SR13	51.97	P185/70SR14	52.97	P195/70SR14	53.97	P205/70SR14	54.97	P215/70SR14	55.97	P225/70SR15	58.97	P235/70SR15	59.97	<p>MICHELIN XA4 All-Season Steel Radials 2 Steel Belts</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>P155/80R13</td><td>49.51</td></tr> <tr><td>P165/80R13</td><td>55.59</td></tr> <tr><td>P175/80R13</td><td>60.61</td></tr> <tr><td>P185/80R13</td><td>68.27</td></tr> <tr><td>P185/70R14</td><td>76.00</td></tr> <tr><td>P185/75R14</td><td>74.00</td></tr> <tr><td>P195/75R14</td><td>81.28</td></tr> <tr><td>P205/75R14</td><td>83.02</td></tr> <tr><td>P205/75R15</td><td>84.87</td></tr> <tr><td>P215/75R15</td><td>88.43</td></tr> <tr><td>P215/75R15</td><td>88.43</td></tr> <tr><td>P225/75R15</td><td>91.38</td></tr> <tr><td>P235/75R15</td><td>96.29</td></tr> </table> <p>16-8300 series</p>	P155/80R13	49.51	P165/80R13	55.59	P175/80R13	60.61	P185/80R13	68.27	P185/70R14	76.00	P185/75R14	74.00	P195/75R14	81.28	P205/75R14	83.02	P205/75R15	84.87	P215/75R15	88.43	P215/75R15	88.43	P225/75R15	91.38	P235/75R15	96.29	<p>Western Auto Performance Radial GT All-Season 40,000 MILE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>P175/70SR13</td><td>45.97</td></tr> <tr><td>P185/70SR13</td><td>46.97</td></tr> <tr><td>P195/70SR13</td><td>47.97</td></tr> <tr><td>P205/70SR14</td><td>49.97</td></tr> <tr><td>P215/70SR14</td><td>50.97</td></tr> <tr><td>P225/70SR15</td><td>50.97</td></tr> <tr><td>P235/70SR15</td><td>54.97</td></tr> <tr><td>P245/60SR15</td><td>62.97</td></tr> <tr><td>P245/60SR15</td><td>62.97</td></tr> <tr><td>P245/60SR15</td><td>68.97</td></tr> <tr><td>P245/60SR15</td><td>71.97</td></tr> <tr><td>P245/60SR15</td><td>79.97</td></tr> </table> <p>16-8300, 8400 series</p>	P175/70SR13	45.97	P185/70SR13	46.97	P195/70SR13	47.97	P205/70SR14	49.97	P215/70SR14	50.97	P225/70SR15	50.97	P235/70SR15	54.97	P245/60SR15	62.97	P245/60SR15	62.97	P245/60SR15	68.97	P245/60SR15	71.97	P245/60SR15	79.97	<p>MICHELIN Sport EP-X Performance Radials ROWL</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>P195/70SR14</td><td>79.67</td></tr> <tr><td>P205/70SR14</td><td>85.25</td></tr> <tr><td>P215/60SR14</td><td>86.09</td></tr> <tr><td>P215/65SR15</td><td>87.31</td></tr> <tr><td>P225/60SR14</td><td>90.10</td></tr> <tr><td>P225/70SR15</td><td>92.22</td></tr> <tr><td>P235/60SR15</td><td>96.55</td></tr> <tr><td>P245/60SR15</td><td>99.75</td></tr> </table> <p>17-4101 ser.</p>	P195/70SR14	79.67	P205/70SR14	85.25	P215/60SR14	86.09	P215/65SR15	87.31	P225/60SR14	90.10	P225/70SR15	92.22	P235/60SR15	96.55	P245/60SR15	99.75	<p>GOOD YEAR Eagle GT Steel Radials ROWL</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>P185/70R13</td><td>79.97</td></tr> <tr><td>P185/70R14</td><td>86.97</td></tr> <tr><td>P195/70R14</td><td>89.97</td></tr> <tr><td>P205/70R14</td><td>98.97</td></tr> <tr><td>P205/60R14</td><td>94.97</td></tr> <tr><td>P215/65R15</td><td>102.97</td></tr> <tr><td>P225/70R15</td><td>101.97</td></tr> <tr><td>P235/60R14</td><td>104.97</td></tr> <tr><td>P245/60R15</td><td>110.97</td></tr> <tr><td>P255/60R15</td><td>113.97</td></tr> </table> <p>17-4542 ser.</p>	P185/70R13	79.97	P185/70R14	86.97	P195/70R14	89.97	P205/70R14	98.97	P205/60R14	94.97	P215/65R15	102.97	P225/70R15	101.97	P235/60R14	104.97	P245/60R15	110.97	P255/60R15	113.97	<p>MICHELIN Michelin MXL Steel Radials • Tubeless • Blackwall</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>165/70SR13</td><td>47.86</td></tr> <tr><td>175/70SR13</td><td>53.04</td></tr> <tr><td>185/70SR13</td><td>58.39</td></tr> <tr><td>185/75R14</td><td>63.22</td></tr> <tr><td>195/75R14</td><td>67.02</td></tr> <tr><td>205/70SR14</td><td>70.32</td></tr> </table> <p>17-4187 ser.</p>	165/70SR13	47.86	175/70SR13	53.04	185/70SR13	58.39	185/75R14	63.22	195/75R14	67.02	205/70SR14	70.32	<p>BF Goodrich RADIAL T/A Speed Rated All Season Radial</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>P195/70SR13</td><td>59.97</td></tr> <tr><td>P195/70SR14</td><td>63.97</td></tr> <tr><td>P205/70SR14</td><td>64.97</td></tr> <tr><td>P215/70SR14</td><td>67.97</td></tr> <tr><td>P225/70SR14</td><td>69.97</td></tr> <tr><td>P225/70SR15</td><td>71.97</td></tr> <tr><td>P235/70SR15</td><td>73.97</td></tr> <tr><td>P215/65SR15</td><td>72.97</td></tr> <tr><td>P255/60SR15</td><td>79.97</td></tr> </table> <p>17-3273 series</p>	P195/70SR13	59.97	P195/70SR14	63.97	P205/70SR14	64.97	P215/70SR14	67.97	P225/70SR14	69.97	P225/70SR15	71.97	P235/70SR15	73.97	P215/65SR15	72.97	P255/60SR15	79.97	<p>PIRELLI P6 Performance Steel Belted Radial</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>185/60HR14</td><td>99.97</td></tr> <tr><td>195/60HR14</td><td>114.97</td></tr> <tr><td>195/60HR15</td><td>114.97</td></tr> <tr><td>205/60HR15</td><td>122.97</td></tr> </table> <p>17-546 ser.</p>	185/60HR14	99.97	195/60HR14	114.97	195/60HR15	114.97	205/60HR15	122.97
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• IMPORT & COMPACT RADIALS • LIGHT TRUCK AND VAN RADIALS... PRICED LOW!

<p>Western Auto Deluxe Sport Radial 30,000 MILE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>155/SR12</td><td>24.97</td></tr> <tr><td>155/SR13</td><td>26.97</td></tr> <tr><td>165/SR13</td><td>28.97</td></tr> <tr><td>175/70SR13</td><td>30.97</td></tr> <tr><td>185/70SR13</td><td>32.97</td></tr> <tr><td>185/70SR14</td><td>34.97</td></tr> </table> <p>16-5700 series</p>	155/SR12	24.97	155/SR13	26.97	165/SR13	28.97	175/70SR13	30.97	185/70SR13	32.97	185/70SR14	34.97	<p>Western Auto Ultra Sport Metric All-Season Radial 50,000 MILE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>155/SR12</td><td>30.97</td></tr> <tr><td>155/SR13</td><td>32.97</td></tr> <tr><td>165/SR13</td><td>34.97</td></tr> <tr><td>175/SR14</td><td>36.97</td></tr> <tr><td>185/TR14</td><td>38.97</td></tr> <tr><td>175/70TR13</td><td>36.97</td></tr> <tr><td>185/70TR13</td><td>38.97</td></tr> <tr><td>185/70SR14</td><td>40.97</td></tr> <tr><td>195/70SR14</td><td>42.97</td></tr> <tr><td>205/70TR14</td><td>44.97</td></tr> </table> <p>16-9700 ser.</p>	155/SR12	30.97	155/SR13	32.97	165/SR13	34.97	175/SR14	36.97	185/TR14	38.97	175/70TR13	36.97	185/70TR13	38.97	185/70SR14	40.97	195/70SR14	42.97	205/70TR14	44.97	<p>MICHELIN XXZ Steel Radials 2 Steel Belts</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>155/SR13</td><td>45.97</td></tr> <tr><td>165/SR13</td><td>49.97</td></tr> <tr><td>175/SR14</td><td>56.97</td></tr> <tr><td>185/SR14</td><td>60.97</td></tr> <tr><td>175/70SR13</td><td>33.04</td></tr> <tr><td>185/70SR13</td><td>38.39</td></tr> <tr><td>185/70SR14</td><td>41.38</td></tr> <tr><td>195/70SR14</td><td>44.38</td></tr> </table> <p>16-8300 series</p>	155/SR13	45.97	165/SR13	49.97	175/SR14	56.97	185/SR14	60.97	175/70SR13	33.04	185/70SR13	38.39	185/70SR14	41.38	195/70SR14	44.38	<p>Western Auto Sport King Steel All-Season Radial 40,000 MILE • Mud and snow rated</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>P205/75R14 B</td><td>49.97</td></tr> <tr><td>P205/75R15 B</td><td>51.97</td></tr> <tr><td>P215/75R15 B</td><td>54.97</td></tr> <tr><td>P235/75R15 B</td><td>56.97</td></tr> <tr><td>P235/75R15 C</td><td>59.97</td></tr> </table> <p>16-8004 series</p>	P205/75R14 B	49.97	P205/75R15 B	51.97	P215/75R15 B	54.97	P235/75R15 B	56.97	P235/75R15 C	59.97	<p>Western Auto Western Radial All-Terrain 40,000 MILE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>LT195/75R14-6</td><td>54.97</td></tr> <tr><td>LT235/75R15-6</td><td>78.97</td></tr> <tr><td>30x9.50R15-6</td><td>80.97</td></tr> <tr><td>31x10.50R15-6</td><td>86.97</td></tr> <tr><td>32x12.50R15-6</td><td>100.97</td></tr> <tr><td>LT235/85R16</td><td>96.97</td></tr> <tr><td>8.75R16.5</td><td>87.97</td></tr> <tr><td>9.50R16.5</td><td>98.97</td></tr> </table> <p>18-9100 series</p>	LT195/75R14-6	54.97	LT235/75R15-6	78.97	30x9.50R15-6	80.97	31x10.50R15-6	86.97	32x12.50R15-6	100.97	LT235/85R16	96.97	8.75R16.5	87.97	9.50R16.5	98.97	<p>MICHELIN Michelin XCH4 Steel Radials Raised Outline White Letters</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>LT215/75R15-6</td><td>99.66</td></tr> <tr><td>LT235/75R15-6</td><td>108.51</td></tr> <tr><td>30x9.50R15</td><td>114.34</td></tr> <tr><td>31x10.50R15</td><td>125.78</td></tr> <tr><td>32x12.50R15</td><td>134.92</td></tr> <tr><td>33x12.50R15</td><td>146.36</td></tr> </table> <p>17-4210 ser.</p>	LT215/75R15-6	99.66	LT235/75R15-6	108.51	30x9.50R15	114.34	31x10.50R15	125.78	32x12.50R15	134.92	33x12.50R15	146.36	<p>BF Goodrich Wrangler Steel Radials Excellent Traction Tubeless Outline White Letters</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>P205/75R15 B</td><td>74.97</td></tr> <tr><td>P215/75R15 B</td><td>77.97</td></tr> <tr><td>P235/75R15 B</td><td>85.97</td></tr> <tr><td>30x9.50R15-6</td><td>129.97</td></tr> <tr><td>31x10.50R15-4</td><td>132.97</td></tr> <tr><td>31x10.50R15-6</td><td>134.97</td></tr> <tr><td>31x11.50R15-4</td><td>124.97</td></tr> <tr><td>31x11.50R15-6</td><td>139.97</td></tr> </table> <p>17-4803 ser.</p>	P205/75R15 B	74.97	P215/75R15 B	77.97	P235/75R15 B	85.97	30x9.50R15-6	129.97	31x10.50R15-4	132.97	31x10.50R15-6	134.97	31x11.50R15-4	124.97	31x11.50R15-6	139.97	<p>BF Goodrich All Terrain</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>LT215/75R15</td><td>87.97</td></tr> <tr><td>LT235/75R15</td><td>96.97</td></tr> <tr><td>27x8.50R14-6</td><td>77.97</td></tr> <tr><td>30x9.50R15-6</td><td>95.97</td></tr> <tr><td>31x10.50R15-6</td><td>105.97</td></tr> <tr><td>31x10.50R15-6</td><td>109.97</td></tr> <tr><td>32x12.50R15-6</td><td>112.97</td></tr> <tr><td>33x12.50R15-6</td><td>120.97</td></tr> <tr><td>35x12.50R15-6</td><td>126.97</td></tr> <tr><td>35x12.50R15-6</td><td>143.97</td></tr> </table> <p>17-3333 ser.</p>	LT215/75R15	87.97	LT235/75R15	96.97	27x8.50R14-6	77.97	30x9.50R15-6	95.97	31x10.50R15-6	105.97	31x10.50R15-6	109.97	32x12.50R15-6	112.97	33x12.50R15-6	120.97	35x12.50R15-6	126.97	35x12.50R15-6	143.97
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