

El Dorado County Sheriff's Office



Annual Military Equipment Report and Use Policy

2022



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Introduction

In September of 2021, the State of California approved AB481 which created California Government Code 7070 – 7075. These government codes require California law enforcement agencies to report the ownership, purchasing, and use of certain “military style” equipment defined by the statute. This annual report is designed to meet these requirements.

The ultimate goal in any high-risk incident is a peaceful resolution. The use of the equipment listed in this policy is to provide Sheriff's Office staff with the tools to keep our community safe without placing them in additional danger. These tools allow the Deputies and Correctional Officers to de-escalate incidents, stop violence when it occurs, and keep our community a safe place to live, work, and play.

"A modern approach to traditional law enforcement values; Total enforcement on crime and criminals; Total care for victims, witnesses and the community; Total professionalism, through training and by example"

-Sheriff Jeff Leikauf



Unmanned Aircraft Systems (UAS) and Ground Vehicles

Unmanned Aircraft Systems (UAS) are portable, commercially available aircraft commonly known as “drones”. In 2022, the Sheriff’s Office used UAS to assist in search and rescues, to assist with firefighting operations, and to assist law enforcement operations in gathering information during dangerous incidents without placing deputies in harms way. Unmanned Ground Vehicles are portable, remote controlled, tracked, or wheeled robots. In 2022, the Sheriff’s Office used unmanned ground vehicles for explosive ordinance disposal (EOD) and to perform tasks or make observations during dangerous incidents.

DJI Matrice	
Description	Unmanned Aircraft System (UAS) with the associated equipment necessary to control it remotely.
Quantity	1
Capability	UAS weighing approximately 8 pounds with advanced camera/zoom capabilities and up to 5 minutes of flight time.
Life Span	3-5 years.
Manufacturer's Desc	The ultimate platform for aerial productivity combines a rugged design and simple configurability to work as a solution for a variety of industrial applications.
Purpose	Major collision investigations, Search for missing persons, Natural disaster management, Crime scene photography, SWAT tactical or other public safety and life preservation missions, In response to specific requests from local, state or federal fire authorities for fire response and/or prevention.
Authorized Usage	Only assigned operators who have completed the required training shall be permitted to operate any UAS during approved missions.
Initial Cost	\$21,158.00
Ongoing Cost	\$2000, annual maintenance and battery replacement.
Legal and Procedural Rules	Use is established under FAA Regulation 14 CFR Part 107. It is the policy of EDSO to utilize UAS only for official law enforcement purposes, and in a manner that respects the privacy of our community, pursuant to State and Federal law.
Training	All Department UAS operators are licensed by the Federal Aviation Administration for UAS operation. In addition, each operator must attend department training to maintain proficiency and an active FAA license.

DJI Inspire	
Description	Unmanned Aircraft System (UAS) with the associated equipment necessary to control it remotely.
Quantity	2
Capability	UAS with a single-color camera, weighs approx. 7.5 pounds and has video recording capabilities, approx. 30 minutes of flight time, training use only.



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Life Span	3-5 years.
Manufacturer's Desc	Cinematic aerial performance for filmmakers.
Purpose	Major collision investigations, Search for missing persons, Natural disaster management, Crime scene photography, SWAT tactical or other public safety and life preservation missions, In response to specific requests from local, state or federal fire authorities for fire response and/or prevention.
Authorized Usage	Only assigned operators who have completed the required training shall be permitted to operate any UAS during approved missions.
Initial Cost	\$1,200
Ongoing Cost	\$2,000, annual maintenance and battery replacement.
Legal and Procedural Rules	Use is established under FAA Regulation 14 CFR Part 107. It is the policy of EDSO to utilize UAS only for official law enforcement purposes, and in a manner that respects the privacy of our community, pursuant to State and Federal law.
Training	All Department UAS operators are licensed by the Federal Aviation Administration for UAS operation. In addition, each operator must attend department training to maintain proficiency and an active FAA license.

DJI Mavic Enterprise	
Description	Unmanned Aircraft System (UAS) with the associated equipment necessary to control it remotely.
Quantity	3
Capability	UAS that has a color and inferred camera as well as audible speaker and light. Capable of video recording and weighs 899 grams, approx. 30 minutes of flight time.
Life Span	3-5 years.
Manufacturer's Desc	Designed to empower a new generation of workers, the Mavic 2 Enterprise is the ultimate expression of a tool that delivers beyond expectation to meet current workplace challenges and future demands.
Purpose	Major collision investigations, Search for missing persons, Natural disaster management, Crime scene photography, SWAT tactical or other public safety and life preservation missions, In response to specific requests from local, state or federal fire authorities for fire response and/or prevention.
Authorized Usage	Only assigned operators who have completed the required training shall be permitted to operate any UAS during approved missions.
Initial Cost	\$3,350
Ongoing Cost	\$2,000, annual maintenance and battery replacement.
Legal and Procedural Rules	Use is established under FAA Regulation 14 CFR Part 107. It is the policy of EDSO to utilize UAS only for official law enforcement purposes, and in a manner that respects the privacy of our community, pursuant to State and Federal law.
Training	Major collision investigations, Search for missing persons, Natural disaster management, Crime scene photography, SWAT tactical or other public safety and life preservation missions, In response to specific



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	requests from local, state or federal fire authorities for fire response and/or prevention.
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DJI Mavic Mini	
Description	Unmanned Aircraft System (UAS) with the associated equipment necessary to control it remotely.
Quantity	4
Capability	UAS that has 30 minutes of flight time and weighs 49 g.
Life Span	3-5 years.
Manufacturer's Desc	The everyday flycam.
Purpose	Major collision investigations, Search for missing persons, Natural disaster management, Crime scene photography, SWAT tactical or other public safety and life preservation missions, In response to specific requests from local, state or federal fire authorities for fire response and/or prevention.
Authorized Usage	Only assigned operators who have completed the required training shall be permitted to operate any UAS during approved missions.
Initial Cost	\$369
Ongoing Cost	\$2,000, annual maintenance and battery replacement.
Legal and Procedural Rules	Use is established under FAA Regulation 14 CFR Part 107. It is the policy of EDSO to utilize UAS only for official law enforcement purposes, and in a manner that respects the privacy of our community, pursuant to State and Federal law.
Training	Major collision investigations, Search for missing persons, Natural disaster management, Crime scene photography, SWAT tactical or other public safety and life preservation missions, In response to specific requests from local, state or federal fire authorities for fire response and/or prevention.

DJI Phantom	
Description	Unmanned Aircraft System (UAS) with the associated equipment necessary to control it remotely.
Quantity	2
Capability	UAS that weighs approx. 3 pounds, 30 min flight time and a 3-axis gimbal mounted camera and IR capable.
Life Span	3-5 years.
Manufacturer's Desc	Pro-Level Aerial Imaging
Purpose	Major collision investigations, Search for missing persons, Natural disaster management, Crime scene photography, SWAT tactical or other public safety and life preservation missions, In response to specific requests from local, state or federal fire authorities for fire response and/or prevention.
Authorized Usage	Only assigned operators who have completed the required training shall be permitted to operate any UAS during approved missions.
Initial Cost	\$1,500



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Ongoing Cost	\$2,000, annual maintenance and battery replacement.
Legal and Procedural Rules	Use is established under FAA Regulation 14 CFR Part 107. It is the policy of EDSO to utilize UAS only for official law enforcement purposes, and in a manner that respects the privacy of our community, pursuant to State and Federal law.
Training	Major collision investigations, Search for missing persons, Natural disaster management, Crime scene photography, SWAT tactical or other public safety and life preservation missions, In response to specific requests from local, state or federal fire authorities for fire response and/or prevention.

Brinc Lemur	
Description	Unmanned Aircraft System (UAS) with the associated equipment necessary to control it remotely.
Quantity	2
Capability	UAS weighing 2.4 pounds designed for tactical applications that has 2-way communication ability, white and IR light options, glass break tool, live video, and the ability to push open door partially ajar. Approximate flight time of 31 minutes.
Life Span	3-5 Years
Manufacturer's Desc	The LEMUR 2 has been proven in real-world call-outs. It is a highly-reliable, tactical tool that can help to de-escalate dangerous situations, and save lives.
Purpose	Major collision investigations, Search for missing persons, Natural disaster management, Crime scene photography, SWAT tactical or other public safety and life preservation missions, In response to specific requests from local, state or federal fire authorities for fire response and/or prevention.
Authorized Usage	Only assigned operators who have completed the required training shall be permitted to operate any UAS during approved missions.
Initial Cost	\$16,000
Ongoing Cost	\$2,000, annual maintenance and battery replacement.
Legal and Procedural Rules	Use is established under FAA Regulation 14 CFR Part 107. It is the policy of EDSO to utilize UAS only for official law enforcement purposes, and in a manner that respects the privacy of our community, pursuant to State and Federal law.
Training	Major collision investigations, Search for missing persons, Natural disaster management, Crime scene photography, SWAT tactical or other public safety and life preservation missions, In response to specific requests from local, state or federal fire authorities for fire response and/or prevention.

Remotec Andros F6-A	
Description	Bomb disposal and utility unmanned ground vehicle (robot).
Quantity	1
Capability	F6A is a heavy-duty robot. It has stair climbing ability and an arm capable of lifting 65lbs. The F6A also offers multiple communications



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	options, a chassis and manipulator that allow for accessories and tool combinations, and quick-release pneumatic wheels for rapid width reduction.
Life Span	8-10 years.
Manufacturer's Desc	The "ANDROS" (collectively a part of the RONS- "Remote Ordinance Neutralization System") is a class of remotely-controlled bomb disposal robot used by the American military as well as by SWAT and law enforcement groups.
Purpose	To be used to remotely gain visual/audio data, deliver CNT phone, open doors, disrupt packages, and clear buildings.
Authorized Usage	Only assigned operators who have been trained shall be permitted to operate the robots. Use is established by the SWAT Team, Bomb Squad Commander and or Incident Commander.
Initial Cost	\$215,000
Ongoing Cost	\$3,000 annual maintenance and battery replacement cost.
Legal and Procedural Rules	It is the policy of EDSO to utilize a robot only for official law enforcement purposes, and in a manner that respects the privacy of our community, pursuant to State and Federal law.
Training	All robot operators must complete specialized training prior to operating the robot platforms.

Telerob Telemax Pro	
Description	Bomb disposal and utility unmanned ground vehicle (robot).
Quantity	1
Capability	The Telemax Pro is a heavy-duty robot with greater articulation and tool combinations than the Andros counterpart. It has a more compact operating frame, making it better suited for tighter spaces.
Life Span	8-10 years.
Manufacturer's Desc	With their advanced, specialized precision manipulators, autonomous functionality and intuitive operation, our rugged, all-terrain Telemax UGVs accommodate a high degree of mission flexibility while enabling the operator to focus on what matters most: completing the mission safely even under the most demanding conditions.
Purpose	To be used to remotely gain visual/audio data, deliver CNT phone, open doors, disrupt packages, and clear buildings.
Authorized Usage	Only assigned operators who have been trained shall be permitted to operate the robots. Use is established by the SWAT Team, Bomb Squad Commander and or Incident Commander.
Initial Cost	\$319,000
Ongoing Cost	\$4,000 annual maintenance and battery replacement cost.
Legal and Procedural Rules	It is the policy of EDSO to utilize a robot only for official law enforcement purposes, and in a manner that respects the privacy of our community, pursuant to State and Federal law.
Training	All robot operators must complete specialized training prior to operating the robot platforms.

ICOR Mini-Caliber



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Description	SWAT unmanned ground vehicle (robot).
Quantity	1
Capability	The ICOR Mini-Caliber is a lightweight, modular robot that can be carried by hand to a deployment location. It is a more nimble, less complicated operating platform that is used in tactical situations by the EDSO SWAT Team.
Life Span	8-10 years.
Manufacturer's Desc	Designed for rapid tactical missions, the robot is simple to operate and quick to deploy for searching rooms, hallways, stairwells and confined spaces. With rubber tracks and articulating front and rear flippers, the Mini-CALIBER effortlessly climbs stairs. It also includes an extendible rotating claw arm that simplifies opening door handles.
Purpose	To be used to remotely gain visual/audio data, deliver CNT phone, open doors, disrupt packages, and clear buildings.
Authorized Usage	Only assigned operators who have been trained shall be permitted to operate the robots. Use is established by the SWAT Team, Bomb Squad Commander and or Incident Commander.
Initial Cost	\$47,370
Ongoing Cost	\$3,000 annual maintenance and battery replacement cost.
Legal and Procedural Rules	It is the policy of EDSO to utilize a robot only for official law enforcement purposes, and in a manner that respects the privacy of our community, pursuant to State and Federal law.
Training	All robot operators must complete specialized training prior to operating the robot platforms.



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Armored Vehicles

The Sheriff's Office's armored vehicles are commercially available vehicles which provide ballistic protection. They are designed to be used in high-risk incidents to increase the safety of the users and for victim rescue. In 2022, the Sheriff's Office used armored vehicles on multiple high risk incidents for ballistic coverage.

Lenco Bearcat G2	
Description	Commercially produced wheeled armored personnel vehicle utilized for law enforcement and rescue purposes.
Quantity	1
Capability	The Lenco Bearcat G2, is an armored vehicle that seats 10-12 personnel with open floor plan that allows for rescue of down personnel. It can stop various projectiles, which provides greater safety to citizens and deputies beyond the protection level of shield and personal body armor. The bearcat is equipped with a ram and chemical agent insertion tool.
Life Span	25 Years
Manufacturer's Desc	The Lenco BearCat G2 is the standard tactical armored vehicle for special operations units within the US Law Enforcement community. Since the early 2000s, agencies such as LAPD, LASD SEB, NYPD ESU, Boston PD and hundreds of Federal, State and Local Law Enforcement agencies have made the BearCat G2 part of their standard operating procedure. The G2 has excellent on-road driving characteristics and maneuverability in tight urban settings. The large floor plan seats 10 – 12 fully equipped officers with a long list of tactical features only found on the Lenco BearCat line of armored SWAT vehicles for Police and Government.
Purpose	To be used in response to critical incidents to enhance deputy and community safety, improve scene containment and stabilization, and assist in resolving critical incidents.
Authorized Usage	The use of armored vehicles shall only be authorized by a watch commander or SWAT commander, based on the specific circumstances of a given critical incident. The use of armored vehicles shall be used only by deputies trained in their deployment and in a manner consistent with Office policy and training.
Initial Cost	\$291,399
Ongoing Cost	\$5,000 annual maintenance.
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize the armored vehicle only for official law enforcement purposes, and pursuant to State and Federal law.
Training	All driver/operators shall attend formalized instruction and be trained in vehicle operations and practical driving instruction.

Ring Power Rook Tactical Armored Vehicle	
Description	Commercially produced armored personnel vehicle utilized for law enforcement and rescue purposes.



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Quantity	1
Capability	The Rook is a single person, armored, tracked vehicle which provides ballistic deployment for operators. It's size allows it to access tight areas and it has several utility attachments including an armored deployment/rescue platform, a hydraulic ram, a grapple claw, and an vehicle lifting tool.
Life Span	25 years.
Manufacturer's Desc	The Rook is used by law enforcement forces across the United States for the purpose of providing protection and support in high-risk situations. The Rook is equipped with a variety of specialized tools, including an armored deployment platform, hydraulic breaching ram (equipped with a chemical agent dispenser system), grapple claw, and a vehicle extraction tool.
Purpose	To be used in response to critical incidents to enhance deputy and community safety, improve scene containment and stabilization, and assist in resolving critical incidents.
Authorized Usage	Armored vehicles shall be used only by deputies trained in their deployment and in a manner consistent with Office policy and training.
Initial Cost	\$492,083
Ongoing Cost	\$5,000 annual maintenance.
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize the armored vehicle only for official law enforcement purposes, and pursuant to State and Federal law.
Training	All driver/operators shall attend formalized instruction and be trained in vehicle operations and practical driving instruction.



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Command and Control Vehicles

Command and Control Vehicles are vehicles which have been outfitted with communications, logistical, and shelter equipment to act as mobile incident command centers for any public safety emergency. In 2022, the command vehicles were on scene at several major law enforcement and natural disaster incidents allowing the Sheriff's Office to effectively respond and provide a safe working environment for staff.

Freightliner Chassis Vehicle (custom built)	
Description	A vehicle used as a mobile office that provides shelter, access to department computer systems, communication networks during extended events.
Quantity	1
Capability	The Freightliner vehicle is a mid-size vehicle that can also be utilized for SWAT/CNT and other critical incidents, preplanned large events, searching for missing persons, natural disasters, and community events.
Life Span	This is a secondary vehicle that has already exceeded it's expected lifespan.
Manufacturer's Desc	This is a custom built vehicle that does not have a manufacturer's description.
Purpose	To be used based on the specific circumstances of a given critical incident, large event, natural disaster or community event that is taking place.
Authorized Usage	Only employees trained in their deployment and operations in a manner consistent with Office policy and training are authorized to operate the mobile command vehicles. Situations which the mobile command vehicles are authorized for use would include but not be limited to critical incidents, emergencies, and natural disasters.
Initial Cost	Not recorded
Ongoing Cost	\$3,000
Legal and Procedural Rules	It is the policy of the Sheriff's Office to use the mobile command vehicles only for official law enforcement purposes, and in accordance with California State law regarding the operation of motor vehicles.
Training	The driver/operator shall receive training in the safe handling of the vehicle on a closed training course. Once the operator has shown competence in vehicle handling, the driver/operator will drive the vehicle throughout the county with an experienced driver. Driver/operators shall also undergo California Department of Motor Vehicles commercial vehicle testing.

Trivan Mobile Command Trailer	
Description	A trailer used as a mobile office that provides shelter, access to department computer systems, communication networks during extended events.
Quantity	1
Capability	The Trivan command vehicle is a large 5 th wheel trailer equipped with technology for communications, connectivity, and observation. This



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	vehicle is designed to be a stand-alone mobile command post for large scale critical incidents or natural disasters. It has also been used as a re-population logistical center.
Life Span	20
Manufacturer's Desc	This is a custom designed trailer without a manufacturer's description.
Purpose	To be used based on the specific circumstances of a given critical incident, large event, natural disaster or community event that is taking place.
Authorized Usage	Only employees trained in their deployment and operations in a manner consistent with Office policy and training are authorized to operate the mobile command vehicles. Furthermore, only employees who have completed the California State Class B Commercial driving school and become properly licensed will be allowed to drive the Trivan mobile command vehicle. Situations which the mobile command vehicles are authorized for use would include but not be limited to critical incidents, emergencies, and natural disasters.
Initial Cost	\$420,274
Ongoing Cost	\$8,000
Legal and Procedural Rules	It is the policy of the Sheriff's Office to use the mobile command vehicles only for official law enforcement purposes, and in accordance with California State law regarding the operation of motor vehicles.
Training	The driver/operator shall receive training in the safe handling of the vehicle on a closed training course. Once the operator has shown competence in vehicle handling, the driver/operator will drive the vehicle throughout the county with an experienced driver. Driver/operators shall also undergo California Department of Motor Vehicles commercial vehicle testing.



Firearms/Ammunition of .50 Caliber or Greater

.50 caliber rifles systems are designed to defeat armor, intermediate barriers, or to disable vehicle engines in defense of human life. These tools were used for training, but were not deployed during any incidents in 2022.

McMillan TAC50	
Description	Bolt action firearm that is designed for precision shooting and designed to defeat armor and intermediate barriers.
Quantity	1
Capability	This utilizes a heavy .50 bullet which can defeat armor, intermediate barriers, or disable vehicle engines.
Life Span	10+ years.
Manufacturer's Desc	Rifle has been discontinued by manufacturer.
Purpose	To address a threat with greater precision, to defeat intermediate barriers, and/or greater distances than a handgun, if present and feasible.
Authorized Usage	Only members that have successfully completed the EDSO rifle training course by a POST certified instructor may carry a patrol rifle. Specialty rifles such as the .308 and .50 caliber rifles are only authorized to be carried by EDSO snipers who have completed a POST Sniper class.
Initial Cost	\$11,891
Ongoing Cost	\$50 per rifle.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 312. It is the policy of the Sheriff's Office to utilize rifles only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force.
Training	Prior to using a rifle, deputies must be certified by POST instructors in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification two times a year.

Hornaday 50 BMG A-MAX Match	
Description	.50 BMG ammunition.
Quantity	35 cases of 100.
Capability	.50 750 grain bullet with a muzzle velocity of approximately 2820 and a ballistic coefficient of 1.050.
Life Span	No expiration.
Manufacturer's Desc	We carefully select every component to ensure uniformity, then load to exacting specifications to provide pinpoint accuracy. Each cartridge is loaded with either Hornaday® A-MAX® bullets, our high-performance boattail hollow points, or the new, radically superior ELD® Match bullets.
Purpose	To address a threat with greater precision, to defeat intermediate barriers, and/or greater distances than a handgun, if present and feasible.



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Authorized Usage	Only members that have successfully completed the EDSO rifle training course by a POST certified instructor may carry a patrol rifle. Specialty rifles such as the .308 and .50 caliber rifles are only authorized to be carried by EDSO snipers who have completed a POST Sniper class.
Initial Cost	\$520
Ongoing Cost	None
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 312. It is the policy of the Sheriff's Office to utilize rifles only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force.
Training	Prior to using a rifle, deputies must be certified by POST instructors in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification two times a year.



Specialized Firearms and Ammunition

Specialized firearms are rifles defined in Sections 30510 and 30515 of the Penal Code and precision rifles utilized by the trained deputies for the defense of human life. The rifles which meet the definition of Sections 30510 and 30515 of the Penal Code are semi-automatic rifles which are commonly carried throughout the nation by law enforcement and known as “patrol rifles”. Precision rifles are utilized by specially trained deputies, usually in high-risk incidents. In 2022, specialized rifles were carried on by deputies on patrol and during high-risk incidents.

Colt Carbine	
Description	Firearms that are discharged from shoulder level, having a long spirally grooved barrel intended to make bullets spin and thereby have greater accuracy over a long distance.
Quantity	195
Capability	These rifles fire an intermediate-power cartridge (.223/5.56) which is more powerful than a standard pistol but less powerful than a standard rifle. The EDSO SWAT Team uses a short-barreled version of the rifle to be lighter weight and more maneuverable in tight spaces. All carbine rifles currently in use by EDSO are semi-automatic.
Life Span	15+ Years
Manufacturer's Desc	Throughout the world today, Colt's reliability, performance, and accuracy provide our Armed Forces the confidence required to accomplish any mission. Colt's LE6920 series shares many features of its combat-proven brother, the Colt M4.
Purpose	To be used as precision weapons to address lethal threats with more precision and/or greater distances than a handgun, if present and feasible.
Authorized Usage	Only members that have successfully completed the EDSO rifle training course by a POST certified instructor may carry a patrol rifle.
Initial Cost	\$1,000
Ongoing Cost	\$50, per rifle.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 312. It is the policy of the Sheriff's Office to utilize rifles only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force.
Training	Prior to using a rifle, deputies must be certified by POST instructors in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification two times a year.

Remington 700	
Description	Bolt action firearm that is designed for precision shooting.
Quantity	4
Capability	This weapon utilizes a .308 projectile and is deployed when there is a potential need to engage a lethal threat with a greater level of precision or to engage a target behind an intermediate barrier.



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Life Span	10 years
Manufacturer's Desc	It's the number one bolt-action of all time, proudly made in the U.S.A. Since 1962, more Model 700s have been sold than any other bolt-action rifle before or since. The legendary strength of its 3-rings-of-steel receiver is now paired with a 5R barrel on every 700. Bearing the most popular bolt-action rifle in history. Top choice of military and law enforcement officers, the Model 700 is unequalled in precision. Whether defending freedom or pursuing big game, its out-of-the-box accuracy is unmatched.
Purpose	To be used as precision weapons to address lethal threats with more precision and/or greater distances than a handgun, if present and feasible.
Authorized Usage	Rifles such as the .308 and .50 caliber rifles are only authorized to be carried by EDSO snipers who have completed a POST Sniper class.
Initial Cost	\$3,741
Ongoing Cost	\$50 per rifle.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 312. It is the policy of the Sheriff's Office to utilize rifles only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force.
Training	Prior to using a rifle, deputies must be certified by POST instructors in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification two times a year.

Accuracy International AT	
Description	Bolt action firearm that is designed for precision shooting.
Quantity	
Capability	This weapon utilizes a .308 projectile and is deployed when there is a potential need to engage a lethal threat with a greater level of precision or to engage a target behind an intermediate barrier.
Life Span	10 years
Manufacturer's Desc	The AT (Accuracy Tactical) continues the legacy of the combat proven AW308 and takes the AW to new levels. The standard model has a fixed stock with 24 inch, quick change, plain barrel. There are options for colour, folding stock, barrels and suppressors and many accessories, which can be added. The AT is ideal for Law Enforcement and civilian users.
Purpose	To address lethal threats with more precision and/or greater distances than a handgun, if present and feasible.
Authorized Usage	.308 and .50 caliber rifles are only authorized to be carried by EDSO snipers who have completed a POST Sniper class.
Initial Cost	\$7,486
Ongoing Cost	\$50 per rifle.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 312. It is the policy of the Sheriff's Office to utilize rifles only for official law



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	enforcement purposes, and pursuant to State and Federal law regarding the use of force.
Training	Prior to using a rifle, deputies must be certified by POST instructors in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification two times a year.

Federal .223	
Description	.223 rifle ammunition.
Quantity	974 cases of 500.
Capability	55 Grain bullet with a muzzle velocity of approximately 3240 FPS and a ballistic coefficient of .269.
Life Span	No expiration.
Manufacturer's Desc	American Eagle® rifle ammunition offers consistent, accurate performance at a price that's perfect for high-volume shooting. The loads feature quality bullets, reloadable brass cases and dependable primers.
Purpose	To be used as with patrol rifles to address a threat with more precision and/or greater distances than a handgun, if present and feasible.
Authorized Usage	Only members that have successfully completed the EDSO rifle training course by a POST certified instructor may carry a patrol rifle.
Initial Cost	\$204 per case
Ongoing Cost	None
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 312. It is the policy of the Sheriff's Office to utilize rifles only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force.
Training	Prior to using a rifle, deputies must be certified by POST instructors in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification two times a year.

Hornaday TAP .223	
Description	.223 rifle ammunition.
Quantity	2125 cases of 200.
Capability	55 Grain bullet with a muzzle velocity of approximately 2852 FPS and a ballistic coefficient of .255.
Life Span	No expiration.
Manufacturer's Desc	TAP is the preferred choice for use in SBRs, carbines, and rifles when the probability for barrier penetration is low. Round designed to help prevent over penetration on non-barrier engagements. These factors make this bullet a great choice when collateral risk is high.
Purpose	To be used as with patrol rifles to address a threat with more precision and/or greater distances than a handgun, if present and feasible.
Authorized Usage	Only members that have successfully completed the EDSO rifle training course by a POST certified instructor may carry a patrol rifle.
Initial Cost	\$135 per case
Ongoing Cost	None



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Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 312. It is the policy of the Sheriff's Office to utilize rifles only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force.
Training	Prior to using a rifle, deputies must be certified by POST instructors in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification two times a year.

Hornaday .308 AMAX TAP	
Description	.308 ammunition.
Quantity	237 cases.
Capability	Match grade .308 168 grain, with a muzzle velocity of approximately 2665 FPS and a ballistic coefficient of .475.
Life Span	No expiration.
Manufacturer's Desc	The 168 gr. A-MAX® bullet is a traditional match grade bullet with the performance advantages of a polymer tip. This bullet demonstrates an increase in penetration and retained weight over the 155 gr. A-MAX® bullet.
Purpose	To address a threat with greater precision, to defeat intermediate barriers, and/or greater distances than a handgun, if present and feasible.
Authorized Usage	Only members that have successfully completed the EDSO rifle training course by a POST certified instructor may carry a patrol rifle. Specialty rifles such as the .308 and .50 caliber rifles are only authorized to be carried by EDSO snipers who have completed a POST Sniper class.
Initial Cost	\$210 per case
Ongoing Cost	None
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 312. It is the policy of the Sheriff's Office to utilize rifles only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force.
Training	Prior to using a rifle, deputies must be certified by POST instructors in the operation of the rifle. Additionally, all members that operate any rifle are required to pass a range qualification two times a year.



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Distraction Devices

Distraction devices emit a bright white light and atmospheric overpressure to distract or divert the attention of suspects in high-risk incidents. In 2022, specially trained deputies deployed distraction devices in training and during several high-risk incidents.

Defense Technology 12-Gram low roll #8902 Flash-Bang	
Description	Diversionsary device.
Quantity	44
Capability	Produces 175 dB of sound output at 5 feet and 6-8 million candelas for 10 milliseconds.
Life Span	5 Years.
Manufacturer's Desc	The Non-Reloadable Distraction Device® unit incorporates an M201A1 type fuse with hex design gun steel body. This is a compact version of the 8933 Low Roll® body Distraction Device is the newest version of the first reusable non-bursting canister that limits movement and rolling once deployed. The compact Distraction Device fits safely in your hand and packs all the power of the full-size Distraction Device. This is a smaller, lighter device with the same output.
Purpose	A distraction device is for distracting dangerous suspects during hostage rescue, room entry or other high-risk arrest situations. To produce atmospheric over-pressure and brilliant white light and, as a result, can cause short-term (6 - 8 seconds) physiological/psychological sensory deprivation.
Authorized Usage	Diversionsary Devices shall only be used: <ul style="list-style-type: none"> i) By SWAT deputies who have been trained in their proper use. ii) In hostage and barricaded subject situations. iii) In high-risk warrant (search/arrest) services where there may be extreme hazards to deputies. iv) During other high-risk situations where their use would enhance deputy safety. v) During training exercises.
Initial Cost	\$49.21
Ongoing Cost	None
Legal and Procedural Rules	Use is established EDSO SWAT procedures. It is the policy of the Sheriff's Office to utilize diversion devices only for official law enforcement purposes, and pursuant to State and Federal law regarding the use of force.
Training	Prior to use, EDSO SWAT deputies must attend distractionary device training that is conducted by POST certified instructors as part of an 80-hour Basic SWAT School.



Chemical Agents

Chemical agents are commercially available munitions which are less lethal and used to gain compliance when lethal force is prohibited or undesirable. In 2022, chemical agents were used to de-escalate high risk incidents.

Defense Technology Triple-Chaser Separating Canister CS #1026	
Description	Chemical agent.
Quantity	15
Capability	When deployed, the munition separate into separate canisters and land approximately 20 feet apart allowing increased area coverage in a short period of time.
Life Span	5 years from date of manufacture.
Manufacturer's Desc	The Triple-Chaser CS consists of three separate canisters pressed together with separating charges between each. When deployed, the canisters separate and land approximately 20 feet apart allowing increased area coverage in a short period of time. This canister can be hand thrown or launched from a fired delivery system. The canister is 6.5 in. by 2.7 in. and holds an approximately 3.2 oz. of active munition payload. It has an approximate burn time of 20-30 seconds.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Only employees who have received POST certified training in the use chemical agents are authorized to use chemical agents.
Initial Cost	\$47
Ongoing Cost	None
Legal and Procedural Rules	Use is established under the EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize chemical agents only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Employees utilizing chemical agent canisters are certified by POST less lethal and chemical agent instructors.

Defense Technology Riot Control Continuous Discharge Grenade CS #1082	
Description	Chemical agent.
Quantity	32
Capability	This launchable grenade is 6.0 in. by 2.35 in. and holds approximately 2.7 oz. of active agent.
Life Span	5 years from date of manufacture.
Manufacturer's Desc	The Riot Control CS Grenade is designed specifically for outdoor use in crowd control situations with a high-volume continuous burn that expels its payload in approximately 20-40 seconds through four gas ports located on the top of the canister. This grenade can be used to conceal



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	tactical movement or to route a crowd. The volume of smoke and agent is vast and obtrusive
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Only employees who have received POST certified training in the use chemical agents are authorized to use chemical agents.
Initial Cost	\$47
Ongoing Cost	None
Legal and Procedural Rules	Use is established under the EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize chemical agents only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Employees utilizing chemical agent canisters are certified by POST less lethal and chemical agent instructors.

Defense Technology Flameless Tri-Chamber CS Grenade	
Description	Chemical agent.
Quantity	60
Capability	The grenade is designed primarily for indoor situations to detect and/or dislodge a barricaded subject. The design allows the contents to burn within an internal can and disperse the agent safely with the reduces risk of fire.
Life Span	5 years from date of manufacture.
Manufacturer's Desc	The Tri-Chamber Flameless Grenade provides the option of delivering a pyrotechnic chemical device indoors, maximizing the chemicals' effectiveness via heat and vaporization, while minimizing or negating the chance of fire to the structure. The Tri-Chamber Flameless Grenade is NOT to be launched utilizing a launching cup.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Only employees who have received POST certified training in the use chemical agents are authorized to use chemical agents.
Initial Cost	\$45
Ongoing Cost	None
Legal and Procedural Rules	Use is established under the EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize chemical agents only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Employees utilizing chemical agent canisters are certified by POST less lethal and chemical agent instructors.

Defense Technology Pocket Tactical CS grenade #1016	
Description	Chemical agent.
Quantity	20
Capability	The Pocket Tactical CS Grenade is small and lightweight at 4.75 in. by 1.4 inches in size. The 0.9 oz. of active agent will burn approximately 20-40 seconds.



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Life Span	5 years from date of manufacture.
Manufacturer's Desc	The 0.9 oz. of active agent will burn approximately 20-40 seconds. At 4.75 in. by 1.4 inches in size, it easily fits in most tactical pouches. This is a launchable grenade; however, it is normally used as a signaling or covering device. Though this device is slightly over four inches in length, it produces a smoke cloud so fast it appears to be an enveloping screen produced by a full-size tactical grenade.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Only employees who have received POST certified training in the use chemical agents are authorized to use chemical agents.
Initial Cost	\$47.60
Ongoing Cost	None
Legal and Procedural Rules	Use is established under the EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize chemical agents only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Employees utilizing chemical agent canisters are certified by POST less lethal and chemical agent instructors.

Defense Technology Maximum HC Smoke Military-Style #1083	
Description	Smoke canister.
Quantity	26
Capability	It is a slow burning, high volume, continuous discharge grenade designed for outdoor use in crowd management situations.
Life Span	5 years from date of manufacture.
Manufacturer's Desc	The Military-Style Maximum Smoke Grenade comes from the Defense Technology #3 smoke grenade. It is a slow burning, high volume, continuous discharge grenade designed for outdoor use in crowd management situations. Emits grey-white smoke only for approximately 1.5 to 2 minutes.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Only employees who have received POST certified training in the use chemical agents are authorized to use chemical agents.
Initial Cost	\$38 per unit.
Ongoing Cost	None
Legal and Procedural Rules	Use is established under the EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize chemical agents only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Employees utilizing chemical agent canisters are certified by POST less lethal and chemical agent instructors.

Combined Tactical Systems CS Baffled Canister Grenade #5230B	
Description	Chemical agent.



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Quantity	26
Capability	Pyrotechnic grenade designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire.
Life Span	5 years from date of manufacture.
Manufacturer's Desc	Pyrotechnic grenade designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire. This product is specifically used for the gas injection system on the Lenco Bearcat.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Only employees who have received POST certified training in the use chemical agents are authorized to use chemical agents.
Initial Cost	\$33.75 per unit.
Ongoing Cost	None
Legal and Procedural Rules	Use is established under the EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize chemical agents only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Employees utilizing chemical agent canisters are certified by POST less lethal and chemical agent instructors.

Defense Technology First Defense .7% MK-9 HV Vapor OC #43896	
Description	Chemical irritant.
Quantity	30
Capability	.7% MC OC aerosol product utilizes a vapor delivery method and is intended for use in crowd management. It will deliver 8-10 short bursts of OC at an effective range of 10-15 ft.
Life Span	5 years from date of manufacture.
Manufacturer's Desc	The MK-9S features an easy-to-use trigger handle, is intended for use in crowd management and will deliver 8-10 short bursts of OC at an effective range of 10-15 ft. This .7% MC OC aerosol product utilizes a vapor delivery method providing a high concentration of OC in a powerful mist inflaming the mucous membranes and exposed skin. Onset is immediate and very intense, resulting in an intense burning sensation that evaporates quickly when exposed to fresh air.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Only employees who have received POST certified training in the use chemical agents are authorized to use chemical agents.
Initial Cost	\$54.10 per unit.
Ongoing Cost	None
Legal and Procedural Rules	Use is established under the EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize chemical agents only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Employees utilizing chemical agent canisters are certified by POST less lethal and chemical agent instructors.



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Defense Technology, First Defense 1.3% MK-46V Stream OC Aerosol #43046	
Description	Chemical irritant.
Quantity	4 plus 6 refills
Capability	Chemical irritant for crowd control.
Life Span	5 years from date of manufacture.
Manufacturer's Desc	The MK-46 features a trigger handle, is intended for use in crowd management and will deliver 26 short bursts of OC at an effective range of 25-30 feet. This 1.3% MC OC aerosol product utilizes a stream delivery method providing a target-specific, strong concentrated stream for greater standoff.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Only employees who have received POST certified training in the use chemical agents are authorized to use chemical agents.
Initial Cost	\$495 per unit.
Ongoing Cost	None
Legal and Procedural Rules	Use is established under the EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize chemical agents only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Employees utilizing chemical agent canisters are certified by POST less lethal and chemical agent instructors.

Explosive Breaching tools



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Explosive breaching tools are commercially available tools and explosives. They are used by the Sheriff's Office for general explosives ordinance disposal use and can also serve a secondary function of explosive breaching to gain access to fortified structures in protection of human life. In 2022 the Sheriff's Office did not perform any explosive breaching.

Detonating Cord (PETN)	
Description	High speed fuse.
Quantity	5,800 feet.
Capability	The detonating cord is a thin, flexible plastic tube usually filled with pentaerythritol tetranitrate (PETN, pentrite). With the PETN exploding at a rate of approximately 6400 m/s, any common length of detonation cord appears to explode instantaneously. It is a high-speed fuse which explodes, rather than burns, and is suitable for detonating high explosives.
Life Span	Approximately 10 years, based on conditions.
Manufacturer's Desc	This is a generic tool that does not carry a manufacturers description.
Purpose	Fuse for detonating explosives.
Authorized Usage	Explosive breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field, and during training exercises.
Initial Cost	\$4,150.00
Ongoing Cost	\$100
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize breaching tools only for official law enforcement purposes, and pursuant to State and Federal law.
Training	Explosive breaching is only conducted by the EDSO EOD unit. Members of this unit must successfully complete a multi-week training course and show proficiency working with the items listed above.

Blasting Cap	
Description	Primary explosive.
Quantity	300
Capability	A blasting cap is a small sensitive primary explosive device generally used to detonate a larger, more powerful and less sensitive secondary explosive.
Life Span	Approximately 10 years, based on conditions.
Manufacturer's Desc	This is a generic tool that does not carry a manufacturers description.
Purpose	A blasting cap is a small sensitive primary explosive device generally used to detonate a larger, more powerful and less sensitive secondary explosive such as TNT, dynamite, or plastic explosive. Blasting caps come in a variety of types, including non-electric caps, electric caps, and fuse caps.



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Authorized Usage	Explosive breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field, and during training exercises.
Initial Cost	\$3,950
Ongoing Cost	\$100
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize breaching tools only for official law enforcement purposes, and pursuant to State and Federal law.
Training	Explosive breaching is only conducted by the EDSO EOD unit. Members of this unit must successfully complete a multi-week training course and show proficiency working with the items listed above.

Sheet Explosive (PETN)	
Description	Explosive ordinance.
Quantity	C-1 – 50 grams, C-2 6 pounds
Capability	Sheet explosives are materials formed by combining an explosive with a "rubberizer"—a flexible binding munition. The resulting compound is cast into a flat sheet which is typically pliable and deformable over a wide range of temperature. Typical products are generally shock-insensitive secondary explosives, requiring a blasting cap or other detonator.
Life Span	Approximately 10 years, based on conditions.
Manufacturer's Desc	This is a generic tool that does not carry a manufacturers description.
Purpose	To safely gain entry into structures or render safe dangerous items.
Authorized Usage	Explosive breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field, and during training exercises.
Initial Cost	\$1,000
Ongoing Cost	\$100
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize breaching tools only for official law enforcement purposes, and pursuant to State and Federal law.
Training	Explosive breaching is only conducted by the EDSO EOD unit. Members of this unit must successfully complete a multi-week training course and show proficiency working with the items listed above.

C4 (RDX)	
Description	Explosive ordinance.
Quantity	10 lbs.
Capability	C-4 or Composition C-4 is a common variety of the plastic explosive family known as Composition C, which uses RDX as its explosive munition. C-4 is composed of explosives, plastic binder, plasticizer to make it malleable, and usually a marker or odorizing taggant chemical. C-4 has a texture similar to modeling clay and can be molded into any



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	desired shape. C-4 is metastable and can be exploded only by the shock wave from a detonator or blasting cap.
Life Span	Unlimited.
Manufacturer's Desc	This is a generic tool that does not carry a manufacturers description.
Purpose	To safely gain entry into structures or render safe dangerous items.
Authorized Usage	Explosive breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field, and during training exercises.
Initial Cost	\$2,250
Ongoing Cost	\$100
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize breaching tools only for official law enforcement purposes, and pursuant to State and Federal law.
Training	Explosive breaching is only conducted by the EDSO EOD unit. Members of this unit must successfully complete a multi-week training course and show proficiency working with the items listed above.

Boosters (TNT/PETN)	
Description	Explosive ordinance.
Quantity	34
Capability	An explosive booster is a sensitive explosive charge that acts as a bridge between a (relatively weak) conventional detonator and a low-sensitivity (but typically high-energy) explosive such as TNT. By itself, the initiating detonator would not deliver sufficient energy to set off the low-sensitivity charge. However, it detonates the primary charge (the booster), which then delivers an explosive shockwave that is sufficient to detonate the secondary, main, high-energy charge.
Life Span	TNT Approximately 35 years, based on conditions. PETN approximately 10 years, based on conditions.
Manufacturer's Desc	This is a generic tool that does not carry a manufacturers description.
Purpose	To safely gain entry into structures or render safe dangerous items.
Authorized Usage	Explosive breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field, and during training exercises.
Initial Cost	\$700
Ongoing Cost	\$100
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize breaching tools only for official law enforcement purposes, and pursuant to State and Federal law.
Training	Explosive breaching is only conducted by the EDSO EOD unit. Members of this unit must successfully complete a multi-week training course and show proficiency working with the items listed above.



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HELIX Binary Explosive	
Description	Explosive ordinance.
Quantity	12 pairs, 6lbs.
Capability	A liquid explosive suitable for use in multiple end items such as shaped charges, bulk charges, disrupters, and common demolition configurations.
Life Span	Unlimited.
Manufacturer's Desc	HELIX™ High Energy Liquid Explosive is a powerful and versatile liquid explosive which eliminates the logistical difficulties usually encountered in shipping and storing high explosives. HELIX™ is sold as two components, the liquid and the activator, each of which can remain in long term storage.
Purpose	To safely gain entry into structures or render safe dangerous items.
Authorized Usage	Explosive breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field, and during training exercises.
Initial Cost	\$600
Ongoing Cost	\$100
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize breaching tools only for official law enforcement purposes, and pursuant to State and Federal law.
Training	Explosive breaching is only conducted by the EDSO EOD unit. Members of this unit must successfully complete a multi-week training course and show proficiency working with the items listed above.

TNT (Artillery Charges)	
Description	Explosive ordinance.
Quantity	22 at 11lbs.
Capability	Trinitrotoluene more commonly known as TNT, is a chemical compound with the formula C ₆ H ₃ CH ₃ . This yellow solid is occasionally used as a reagent in chemical synthesis, but it is best known as an explosive material with convenient handling properties. The explosive yield of TNT is considered to be the standard comparative convention of bombs and asteroid impacts.
Life Span	Approximately 35 years, based on conditions.
Manufacturer's Desc	This is a generic tool that does not carry a manufacturers description.
Purpose	To safely gain entry into structures or render safe dangerous items.
Authorized Usage	Explosive breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field, and during training exercises.
Initial Cost	\$1,1000
Ongoing Cost	\$100
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize breaching tools only for official law enforcement purposes, and pursuant to State and Federal law.



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Training	Explosive breaching is only conducted by the EDSO EOD unit. Members of this unit must successfully complete a multi-week training course and show proficiency working with the items listed above.
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Conical Shaped Charges (RDX)	
Description	Explosive ordinance.
Quantity	31
Capability	A shaped charge is an explosive charge shaped to focus the effect of the explosive's energy. Different types of shaped charges are used for various purposes such as cutting and forming metal, breaching solid surfaces, penetrating armor, or perforating wells in the oil and gas industry.
Life Span	Unlimited.
Manufacturer's Desc	This is a generic tool that does not carry a manufacturers description.
Purpose	To safely gain entry into structures or render safe dangerous items.
Authorized Usage	Explosive breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field, and during training exercises.
Initial Cost	\$750
Ongoing Cost	\$100
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize breaching tools only for official law enforcement purposes, and pursuant to State and Federal law.
Training	Explosive breaching is only conducted by the EDSO EOD unit. Members of this unit must successfully complete a multi-week training course and show proficiency working with the items listed above.

Royal Remington 870 Breaching Shotgun	
Description	12-gauge shotgun specifically designed for breaching.
Quantity	2
Capability	This weapon allows for breachers to safely utilize shotgun breaching rounds in order to destroy deadbolts, locks, and hinges. The stand-off that is attached to the end of the barrel allows for positive placement of the gun into the correct position and vents gases to prevent overpressure. This weapon can also defeat windows and sliding glass doors with a flash bang round. A less lethal 2.4-inch 12-gauge shotgun round firing a ballistic fiber bag filled with 40 grams of lead shot at a velocity of 270-290 feet per second (FPS).
Life Span	25 years.
Manufacturer's Desc	Royal Arms Breaching Shotgun starts out with the Remington 870 Express Synthetic 12 Ga Shotgun as its base. We then completely modify it with our custom CNC machined parts to be the ultimate Breaching Shotgun. Royal Arms invented the Breachers and Breaching shotguns.



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Purpose	To safely gain entry into structures or render safe dangerous items.
Authorized Usage	Explosive breaching may only occur after authorization by the Incident Commander or SWAT Commander in the field, and during training exercises.
Initial Cost	\$500
Ongoing Cost	\$100
Legal and Procedural Rules	It is the policy of the Sheriff's Office to utilize breaching tools only for official law enforcement purposes, and pursuant to State and Federal law.
Training	Explosive breaching is only conducted by the EDSO EOD unit. Members of this unit must successfully complete a multi-week training course and show proficiency working with the items listed above. Shotgun breaching may only be conducted by EDSO SWAT personnel who have been trained in the technique by a POST certified instructor.



Less Lethal Platforms and Munitions

Less lethal platforms are tools which fire munitions specifically designed to provide a kinetic impact which is not lethal when used within manufacturers guidelines. In 2022 the Sheriff's Office used less lethal tools to de-escalate dangerous incidents where the use of lethal force was prohibited or undesirable.

Defense Technology 40mm Single Shot Launcher #1425	
Description	40MM less lethal impact and chemical agent launcher.
Quantity	9
Capability	The 40MM Single Launcher is a tactical single shot launcher. It will fire standard 40mm less lethal ammunition, up to 4.8 inches in cartridge length. It will launch a 40MM less lethal round up to 131 feet.
Life Span	25 Years
Manufacturer's Desc	The 40LMTS is a tactical 40mm single shot launcher that features an expandable stock and an adjustable Integrated Front Grip (IFG) with a light rail. The Ambidextrous Lateral Sling Mount (LSM) and QD mounting systems allow both a single and two point sling attachment. The 40LMTS will fire standard 40mm Less Lethal ammunition, up to 4.8 inches in cartridge length.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Situations for use of the less lethal weapon systems may include, but are not limited to: <ul style="list-style-type: none"> i) Self-destructive, dangerous and/or combative individuals. ii) Riot/crowd control and civil unrest incidents. iii) Circumstances where a tactical advantage can be obtained. iv) Potentially vicious animals. v) Training exercises or approved demonstrations.
Initial Cost	\$1,000
Ongoing Cost	\$50 per launcher.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize the 40mm only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Sworn members utilizing 40MM less lethal chemical agents or impact rounds are trained in their use by POST certified less lethal and chemical agent instructors.

Penn Arms 40MM Tactical Single Shot Launcher, ML140	
Description	40MM less lethal impact and chemical agent launcher.
Quantity	2
Capability	The 40MM Single Launcher is a tactical single shot launcher. It will fire standard 40mm less lethal ammunition, up to 4.8 inches in cartridge length. It will launch a 40MM less lethal round up to 131 feet.



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Life Span	15 years.
Manufacturer's Desc	A 40mm compact single-shot break-open frame launcher with a rifled barrel and folding stock. Features include: Double-action trigger, trigger lock push button and hammer lock safeties.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Situations for use of the less lethal weapon systems may include, but are not limited to: <ul style="list-style-type: none"> i) Self-destructive, dangerous and/or combative individuals. ii) Riot/crowd control and civil unrest incidents. iii) Circumstances where a tactical advantage can be obtained. iv) Potentially vicious animals. Training exercises or approved demonstrations.
Initial Cost	\$735
Ongoing Cost	\$50 per launcher.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize the 40mm only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Sworn members utilizing 40MM less lethal chemical agents or impact rounds are trained in their use by POST certified less lethal and chemical agent instructors.

Penn Arms 40MM Multi Launcher, P540	
Description	40MM less lethal impact and chemical agent launcher.
Quantity	3
Capability	The multi launcher provides multi-shot capability in an easy to carry launcher. It will launch 40MM less lethal rounds up to 131 feet.
Life Span	15 Years
Manufacturer's Desc	A 40mm pump-action advance magazine drum launcher with a fixed stock and combo rail. It has a six-shot capacity and rifled barrel. Previously labeled the PGL-65, the features include: Double-action trigger, trigger lock push button and hammer lock safeties.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Situations for use of the less lethal weapon systems may include, but are not limited to: <ul style="list-style-type: none"> v) Self-destructive, dangerous and/or combative individuals. vi) Riot/crowd control and civil unrest incidents. vii) Circumstances where a tactical advantage can be obtained. viii) Potentially vicious animals. Training exercises or approved demonstrations.
Initial Cost	\$2,638
Ongoing Cost	\$50 per launcher.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize the 40mm only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.



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Training	Sworn members utilizing 40MM less lethal chemical agents or impact rounds are trained in their use by POST certified less lethal and chemical agent instructors.
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VLTOR 40MM Multi Launcher, MGL-L TL	
Description	40MM less lethal impact and chemical agent launcher.
Quantity	1
Capability	Multi-round 40MM option to launch less lethal or chemical agent rounds in critical incidents. The VLTOR multi launcher has a ratcheting cylinder that once engaged, allows for faster round deployment for 6 rounds.
Life Span	15 Years
Manufacturer's Desc	Developed with our partner company, Abrams Airborne Manufacturing, The 40mm Multi-Shot Less-Lethal Tactical Launcher (LTL) was manufactured with the needs of the modern tactical team at the forefront. The launcher is capable of firing a wide variety of 40mm LTL ammo.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Situations for use of the less lethal weapon systems may include, but are not limited to: <ul style="list-style-type: none"> ix) Self-destructive, dangerous and/or combative individuals. x) Riot/crowd control and civil unrest incidents. xi) Circumstances where a tactical advantage can be obtained. xii) Potentially vicious animals. Training exercises or approved demonstrations.
Initial Cost	\$3,8000
Ongoing Cost	\$50 per launcher.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize the 40mm only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Sworn members utilizing 40MM less lethal chemical agents or impact rounds are trained in their use by POST certified less lethal and chemical agent instructors.

Defense Technology 40MM Exact Impact Sponge Round	
Description	Less Lethal 40mm impact munition.
Quantity	52
Capability	A less lethal 40mm lightweight plastic and foam projectile fired from a single or multi-round purpose built 40mm launcher with a rifled barrel at 325 FPS. The 30-gram foam projectile delivers 120 ft/lbs. of energy on impact.
Life Span	15 years.
Manufacturer's Desc	The eXact iMPact™ 40 mm Sponge Round is a point-of-aim, point-of-impact direct-fire round. This lightweight, high-speed projectile consisting of a plastic body and sponge nose that is spin stabilized via the incorporated rifling collar and the 40 mm launcher's rifled barrel. The



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	round utilizes smokeless powder as the propellant, and, therefore, have velocities that are extremely consistent. Used for Crowd Control, Patrol, and Tactical Applications.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Situations for use of the less lethal weapon systems may include, but are not limited to: xiii) Self-destructive, dangerous and/or combative individuals. xiv) Riot/crowd control and civil unrest incidents. xv) Circumstances where a tactical advantage can be obtained. xvi) Potentially vicious animals. Training exercises or approved demonstrations.
Initial Cost	\$18
Ongoing Cost	None
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize the 40mm only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Sworn members utilizing 40MM less lethal chemical agents or impact rounds are trained in their use by POST certified less lethal and chemical agent instructors.

Defense Technology Ferret 40MM Barricade Penetrator #2262, #2292, #2290, #2260	
Description	A less lethal 40MM round used to penetrate barriers and instantaneously delivers a small chemical payload.
Quantity	121
Capability	A less lethal 40MM round used to penetrate barriers, such as windows, hollow core doors, wallboard and thin plywood. Upon impacting the barrier, the nose cone ruptures and instantaneously delivers a small chemical payload inside of a structure or vehicle.
Life Span	5 years.
Manufacturer's Desc	A less lethal 40MM round used to penetrate barriers, such as windows, hollow core doors, wallboard and thin plywood. Upon impacting the barrier, the nose cone ruptures and instantaneously delivers a small chemical payload inside of a structure or vehicle.
Purpose	To limit the escalation of conflict where employment of lethal force is prohibited or undesirable.
Authorized Usage	Situations for use of the less lethal weapon systems may include, but are not limited to: xvii) Self-destructive, dangerous and/or combative individuals. xviii) Riot/crowd control and civil unrest incidents. xix) Circumstances where a tactical advantage can be obtained. xx) Potentially vicious animals. Training exercises or approved demonstrations.
Initial Cost	\$23
Ongoing Cost	None



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Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize the 40mm only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	Sworn members utilizing 40MM less lethal chemical agents or impact rounds are trained in their use by POST certified less lethal and chemical agent instructors.

Remington 870 Shotgun (Less Lethal)	
Description	Less Lethal Shotgun used to deploy the less lethal 12-gauge Drag Stabilized Beanbag rounds.
Quantity	62
Capability	The Remington 870 Less Lethal Shotgun is used to deploy the less lethal 12-gauge Drag Stabilized Beanbag Round up to a distance of 75 feet.
Life Span	25 Years
Manufacturer's Desc	If the Model 870™ were introduced today, it would be hailed as a major advance in pump-action shotgun design - the ultimate in strength, durability, silky-smooth bind-free action, and sleek classical lines. Yet this remarkable shotgun has been around for more than half a century, and has become the best-selling shotgun of any type in history, with over 11 million made.
Purpose	The range of the weapon system helps to maintain space between deputies and a suspect reducing the immediacy of the threat which is a principle of De-escalation.
Authorized Usage	Situations for use of the less lethal weapon systems may include, but are not limited to: <ul style="list-style-type: none"> i) Self-destructive, dangerous and/or combative individuals. ii) Riot/crowd control and civil unrest incidents. iii) Circumstances where a tactical advantage can be obtained. iv) Potentially vicious animals. v) Training exercises or approved demonstrations.
Initial Cost	\$496
Ongoing Cost	\$50, annual maintenance per less lethal shotgun.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize the less lethal shotgun only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	All deputies are trained in the 12 gauge less lethal shotgun as a less lethal option by in-service training. SWAT personnel receive additional training internally when they transfer to the unit.



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Defense Technology 12-Gauge Drag Stabilized Beanbag Round	
Description	Less lethal 12-gauge Drag Stabilized Beanbag rounds.
Quantity	1,600
Capability	This round has a velocity of 270 fps. This round provides accurate and effective performance when fired from not fewer than twenty (20) feet. The maximum effective range of this munition is up to 75 feet from the target.
Life Span	5 Years.
Manufacturer's Desc	A less lethal 12-gauge shotgun round with a 40-Gram tear shaped bag made from a cotton and ballistic material blend and filled with #9 shot. This design utilizes four stabilizing tails and utilizes smokeless powder as the propellant. The 12-Gauge Drag Stabilized Round has secured its place as the Law Enforcement Communities' number one choice for specialty impact munitions. This round has a velocity of 270 fps with a maximum effective range of 75 feet.
Purpose	The range of the weapon system helps to maintain space between deputies and a suspect reducing the immediacy of the threat which is a principle of De-escalation.
Authorized Usage	Situations for use of the less lethal weapon systems may include, but are not limited to: <ul style="list-style-type: none"> vi) Self-destructive, dangerous and/or combative individuals. vii) Riot/crowd control and civil unrest incidents. viii) Circumstances where a tactical advantage can be obtained. ix) Potentially vicious animals. Training exercises or approved demonstrations.
Initial Cost	\$5.35
Ongoing Cost	None.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize the less lethal shotgun only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	All deputies are trained in the 12 gauge less lethal shotgun as a less lethal option by in-service training. SWAT personnel receive additional training internally when they transfer to the unit.

Defense Technology 12-Gauge Rubber Ball Round, #3016	
Description	Less lethal 12 gauge munition.
Quantity	90
Capability	Maximum effective range of approximately 25 feet and a velocity of 500 fps/91 mph.
Life Span	5 years.
Manufacturer's Desc	It is a translucent 12-Gauge shell loaded with approximately eighteen 32-Caliber rubber balls. The Stinger utilizes smokeless powder as the propellant. The 12-Gauge Stinger is generally considered a low to medium pain compliance round for close range deployment. The round has a maximum effective range of approximately 25 feet and a velocity of 500 fps/91 mph.



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Purpose	The range of the weapon system helps to maintain space between deputies and a suspect reducing the immediacy of the threat which is a principle of De-escalation.
Authorized Usage	Situations for use of the less lethal weapon systems may include, but are not limited to: <ul style="list-style-type: none"> x) Self-destructive, dangerous and/or combative individuals. xi) Riot/crowd control and civil unrest incidents. xii) Circumstances where a tactical advantage can be obtained. xiii) Potentially vicious animals. Training exercises or approved demonstrations.
Initial Cost	\$8.00
Ongoing Cost	None.
Legal and Procedural Rules	Use is established under EDSO Policy Sections 300 and 308. It is the policy of the Sheriff's Office to utilize the less lethal shotgun only for official law enforcement purposes, and pursuant to State and Federal law, including those regarding the use of force.
Training	All deputies are trained in the 12 gauge less lethal shotgun as a less lethal option by in-service training. SWAT personnel receive additional training internally when they transfer to the unit.



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Future Equipment

In the 23/24 fiscal year, the Sheriff's Office is currently planning to purchase equipment which falls under the definition of military equipment per Government Code 7070. Much of the equipment is replacing consumed supplies or replacing items which have reached the end of their useful life expectancy.

Approximate Quantity	Item Description	Approximate Cost	Funding Source
1	M30T UAS System- UAS	\$24,000.00	General Fund
1	SWAT Robot- SWAT	\$64,000.00	Homeland Security Grant
Assorted	Misc. Explosives- EOD	\$1,500.00	General Fund
4	DJI Mavic Enterprise 3- UAS	\$1,500.00	General Fund
4	DJI Arvata- UAS	\$500.00	General Fund
Assorted	Less Lethal Munitions- Custody	\$6,000.00	General Fund
6	Colt M4 style rifles- Support Services	\$1,000.00	General Fund
Assorted	.223 Ammunition- Support Services	\$137,000.00	General Fund



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Complaints, Concerns, and Violations of Policy

In 2022, there were no complaints, concerns, or policy violation relating to the use of the equipment listed in this report.

Any member of the public can register a question or concern regarding military use equipment by contacting the El Dorado County Sheriff's Office at 530-621-5655. Inquiries will be routed to the Support Services Division. A response to the question or concern will be completed by the Office in a timely manner. Inquiries will be routed to the Support Services Division. A response to the question or concern will be completed by the Office in a timely manner. Any member of the public can submit a complaint to any member of the Sheriff's Office in any form i.e., in person, telephone, email, etc.