ROSCOMMON EQUIPMENT CENTER

Project Number 69 **June 2009**

Utility Terrain Vehicle Specifications

National Association of State Foresters
in Cooperation with
Michigan's Forest Fire Experiment Station

REC Project No. 69

Utility Vehicle Specifications

Table of Contents

Disclaimer 1
Introduction 2
UTV Characteristics 2
Conclusion 5
Appendix A 5

Roscommon Equipment Center
c/o Forest Fire Experiment Station
1337 East Robinson Lake Road
P.O. Box 68
Roscommon, Michigan 48653
Telephone: (989) 275-5211
Fax: (989) 275-8249
Email: info@RoscommonEquipmentCenter.com
Web Site: www.RoscommonEquipmentCenter.com

Disclaimer

Introduction

Wildfire agencies are continually looking for better methods and equipment to do their work more effectively and safely. With the introduction of All Terrain Vehicles (ATV's), another tool was potentially added. The Roscommon Equipment Center (REC) assisted by publishing a report discussing the uses and characteristics of these vehicles. REC Project No. 55, Fire Control Use of All Terrain Vehicles, was published in 1990.

ATV's have been used for many fireline duties such as patrolling or scouting, building fireline with leaf blowers or a towed line building device, mini engine with water handling capability, line ignition, hauling equipment to the fireline on the unit or in trailers, etc. However, the inability of these units to handle very much payload other than the operator, limited their usefulness and increased the risk of accidents when hauling equipment.

ATV manufacturers recognized the need for a unit that is more work oriented and began to market the Utility Terrain Vehicles (UTV's).

UTV Characteristics

UTV's differ from ATV's in that UTV's typically have a side by side seating arrangement, many have seat belts and roll over protection, and most have a cargo box at the rear of the vehicle. The UTV's generally have a higher payload capability and are longer and wider than ATV's.

While most ATV's can carry 125 to 200 lbs. of cargo in addition to the operator's weight, the UTV payloads run from 800 to 1350 lbs. above the operator/passenger's weight. The payload is usually carried on a UTV below the top of the tires as opposed to an ATV where the load is carried above the fenders. This lower load positioning can drastically lower the vertical center of gravity which will increase stability.

The extra width and length of a UTV also increases the unit's stability but reduces its maneuverability when compared to an ATV.
Given the increased availability of UTV's and their potential advantages over an ATV, REC conducted a market search of manufacturers that produce UTV's to assist agencies in determining what might suit their needs.. The specifications of the units found are compiled in Appendix A. The information contained in Appendix A was obtained through manufacturers' websites, contacting dealers, direct measurements, or mathematical calculations. While every effort was made to assure this data was accurate when obtained, it may have changed and should only be used as a guideline.

As can be seen in Appendix A, UTV's come in a number of different configurations. Some have four tires on the ground some have six or more. How these differences affect the operation of the UTV's can be confusing.

In an effort to clear up this area REC studied two units produced by the same manufacturer. These units are basically the same except one has an extra axle in the rear so it is rated for a higher payload.

Most of the functions required of these units within wildfire suppression operations have at least two aspects in common. The machines are required to work off road and to carrying equipment. Working off road requires the unit to maneuver around obstacles and over rough terrain. Carrying equipment requires the strength to haul a load and the ability to stay on top of softer ground. REC has put together some information to hopefully assist in understanding these aspects and how they relate to the different UTV configurations.

Three of the main factors determining maneuverability are width, length, and wheelbase. As illustrated in Table 1, increasing any of these factors will adversely affect maneuverability.

4X4	6X6
A 4x4 UTV will normally have a shorter wheelbase and thus a shorter turning radius.	The wheelbase of a 6x6 will be longer and having tandem rear axles requires tire scuffing when cornering. These factors both contribute to a longer turning radius
The width of comparable 4x4 and 6x6 UTV's is the same.	The width of comparable 4x4 and 6x6 UTV's is the same.
Overall length of a 4x4 is normally shorter.	Overall length is longer for a 6x6. However, the cargo area is larger because of the extra length.

Table 1

There are also two main factors that need to be considered when comparing load carrying capability, payload, and ground pressure. Payload, the amount of weight a vehicle can carry, is usually a direct comparison between types of units. Most, if not all manufacturers, publish payload capacities for their products. However, the resulting ground pressure (force per square inch), exerted on the ground from this payload is not as easily compared.

Figure 1 compares this one manufacturer's 4x4 and 6x6 units directly. The numbers below each axle or axle set reflect the amount of weight on the axle(s). The weight on an axle divided by the tire contact area (usually two tires per axle) equals the ground pressure in pounds per square inch for that axle. Given the same tire size, the weights on each axle will reflect the difference in ground pressure. These weights were calculated using the weight of the vehicle plus two occupants (200 lbs. each), for the "No Payload" weights. Then for "with payload" numbers, the remainder of the rated payload was applied at the center of the rear axle(s).

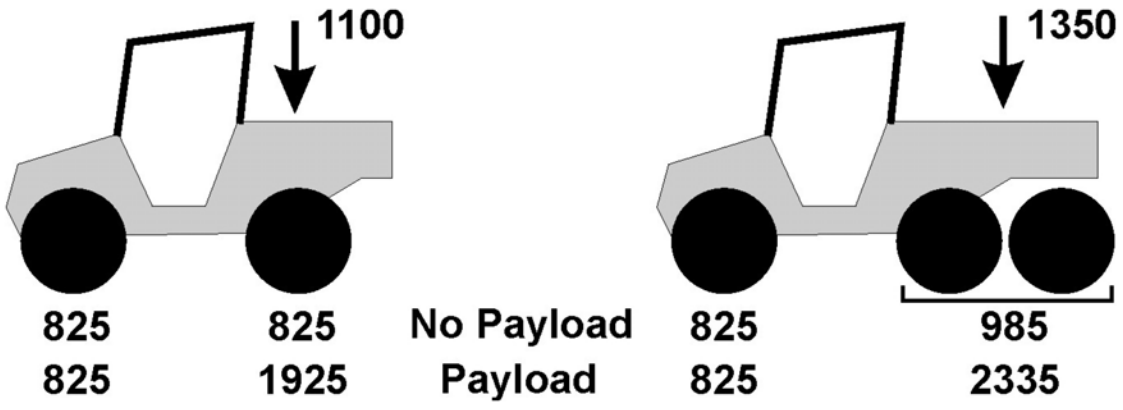

Figure 1

As can be seen in Figure 1, the front axle weights between the 4x4 and the 6x6 units are equal for both unloaded and loaded conditions. By design the units are set up to carry any payload beyond the weight of the passengers, directly centered on the rear axle or axle set. Given these conditions the projected ground pressure for the front axle would be the same for either the 4x4 or the 6x6.

However, with the rear axle(s) there is a decrease in the weight per axle by adding a second axle. The projected ground pressure would be 40 percent less on the 6x6 under an empty vehicle situation, despite being a heavier vehicle. The 6x6 unit would also have 40 percent less ground pressure on the rear axles under a loaded vehicle condition, even with almost 23 percent more rated payload.

Conclusion

UTV's in many ways better support the needs of the wildfire community than ATV's. They have better stability and higher payloads. However, there are still inherent dangers with off road operation. Managers and operators must fully understand the vehicles capabilities and limit their use to situations for which they are designed. All manufacturers' operation information and safety precautions should be reviewed, understood, and followed by all involved in the use of UTV's. While these units can make fire suppression operations more efficient, doing it safely is still the primary objective

The information presented here is intended to assist agencies in determining which UTV might best fit their needs. However, selecting the proper vehicle will require further research and a good understanding of the situations of how and where it will be used.

Click here to view Appendix A as one sheet.

MANUFACTURER	MODEL	ENGINE BRAND	FUEL TYPE	CARBUREATED	FUEL INJECTED	AIR COOLED	LIQUID COOLED	HORSEPOWER	TORQUE (ft.lbs)	DISPLACEMENT (in^3)	ELEC. SYSTEM (volts)	ALTERNATOR (watts)	ALTERNATOR (amps)	4X4	6x6	8x8	LENGTH (in)	WIDTH (in)	HEIGHT (in)	WHEEL BASE (in)	BOX HEIGHT (in)	BOX LENGTH (in)	BOX WIDTH(in)	GROUND CLEARANCE (in)	CURB WEIGHT (lbs.)
ARGO	CENTAUR 954G	B & S	GAS	X			X	31	50.5	952 CC	12	720	60			X	115.9	64.5	76.5	80.8	12.9	43	48	8	NA
	CENTAUR 954DT	B & S	DIESEL		X		X	31	55	952 CC	12	720	60			X	115.9	64.5	76.5	80.8	12.9	43	48	8	NA
	8X8 AVENGER 750 EFI	KOHLER	GAS		X		X	31	45	748 CC	12	300	25			X	119	60	74	79	17	40	47	8	NA
	8X8 AVENGER 700	KOHLER	GAS	X			X	26	37.9	674 CC	12	300	25			X	119	60	74	79	17	40	47	8	NA
	8X8 FRONTIER 650	B & S	GAS	X		X		23	30.2	627 CC	12	600	50			X	95	58	46.5	79	17	40	47	7	NA
ARTIC CAT	PROWLER 650 4x4 AUTOMATIC	ARTIC CAT	GAS	X			X	39.5	NA	641 CC	12	300	25	X			112	61.3	77.5	75	13	31.5	48.5	12.5	NA
	PRWLER XT 650 4X4 AUTO M4	ARTIC CAT	GAS	X			X	39.5	NA	641 CC	12	300	25	X			115	61.3	77.5	75	13	31.5	48.5	12.5	NA
	PROWLER XTX 700 H1 LE	ARTIC CAT	GAS		X		X	39.5	NA	695 CC	12	300	25	X			115	61.3	77.5	75	13	31.5	48.5	12.5	NA
BOBCAT	2200	KUBOTA	DIESEL		X		X	20	39.8	NA	12	600	50	X			124.6	57.8	77.6	81	10.9	48	49.8	NA	1475
	2200	KAWASAKI	GAS	X	X	X		23	NA	NA	12	NA	NA	X			124.6	57.8	77.6	81	10.9	48	49.8	NA	1339
	2300	KUBOTA	DIESEL		X		X	20	29	719 CC	12	600	50	X			124.6	57.8	77.6	81	10.9	48	49.8	6.4	1795
	TOOLCAT 5600	KUBOTA	DIESEL		X		X	56	NA	2000 CC	12	1080	90	X			181	60	81	87.6	10	56	51	8	5490
BRISTERS	Boss 390	HONDA	GAS	X		X		13	19	390 CC	12	156	13	X			102.5	47	73.75	71	10	34	42	6	NA
BUSH HOG	TH4400	HONDA	GAS	X		X		24	NA	670 CC	12	240	20	X			119	60	78	76	13.4	44	56.5	10	NA
	TH440	HONDA	GAS	X		X		20	NA	614 CC	12	240	20	X			110	49	75	72	13.4	38.5	46.5	9	NA
CLUB CAR	XRT 1550 SE	KAWASAKI	GAS	X		X		23	39.8	675 CC	12	480	40	X			157.6	60	78.6	114	10.9	48	49.8	7.4	NA
	XRT 1550 SE	KUBOTA	DIESEL		X		X	20	33	719 CC	12	720	60	X			157.6	60	78.6	114	10.9	48	49.8	7.4	NA
	XRT 1550	KAWASAKI	GAS	X		X		20	39.8	675 CC	12	480	40	X			124.6	60	78.6	81.5	10.9	48	49.8	7.4	NA
	XRT 1550	KUBOTA	DIESEL		X		X	23	33	719 CC	12	720	60	X			124.6	60	78.6	81.5	10.9	48	49.8	7.4	NA
	CARRYALL 295	KAWASAKI	GAS	X		X		20	39.8	675 CC	12	480	40	X			124.6	60	78.6	88.7	10.9	48	49.8	7.4	NA
	CARRYALL 295	KUBOTA	DIESEL		X		X	23	33	719 CC	12	480	40	X			124.6	60	78.6	88.7	10.9	48	49.8	7.4	NA
	CARRYALL 295 INTELLITACH	KUBOTA	DIESEL				X	20	33	719 CC	12	720	60	X			148.6	60	78.6	81.5	10.9	48.8	49.8	7.4	NA
CUB CADET	4 X 4 VOLUNTEER	KOHLER	GAS	X		X		20	32.6	624 CC	12	180	15	X			119	63.5	73	78	11.5	51.625	42	9	1500
HONDA	BIG RED	NA	GAS		X		X	NA	NA	675 CC	NA	NA	NA	X			NA	NA	NA	NA	NA	NA	NA	NA	NA
HUSQVARNA	HUV4421D	KUBOTA D722	DIESEL		X		X	20	29	719 CC	12	720	60	X			120	60	80	81	10.9	48	49.8	7.4	NA
	HUV4421DXP	KUBOTA D722	DIESEL		X		X	20	29	719 CC	12	720	60	X			122	60	80	81	10.9	48	49.8	7.4	NA
	HUV4421G	KAWASAKI FH 680D	GAS	X		X		23	39.8	675 CC	12	240	20	X			120	60	80	81	10.9	48	49.8	7.4	NA
	HUV4421GXP	KAWASAKI FH 680D	GAS	X		X		23	39.8	675 CC	12	240	20	X			122	60	80	81	10.9	48	49.8	7.4	NA
JOHN DEERE	XUV 620 i	KAWASAKI	GAS		X		X	23	34.6	617CC	12	306	25.5	X			113	59.3	74.375	79	9	43.9	49	11	1383
	HPX 4X4	KAWASAKI	GAS	X	X		X	20	32	617 CC	12	252	21	X			113	59.3	73.5	75.2	9	43.9	59.3	6	1296
	M-GATOR A1	YANMAR	DIESEL		X		X	20.8	34.6	854 CC	12	480	40		X		108	60	49.6	79	9.2	45.2	59.2	6.5	1087
KAWASAKI	Mule 4010 Trans4X4	KAWASAKI	GAS	X	X		X	20	29	617 CC	12	168	14	X			130.1	58.5	75.8	85.2	11.3	50.4	47.7	7	1563
	Mule 4010 4X4	KAWASAKI	GAS	X	X		X	20	29	617 CC	12	168	14	X			118.3	62	75.8	73.6	11	46	51	7	NA
	MULE 610 4x4	KAWASAKI	GAS	X		X		13.5	17.7	401 CC	12	168	14	X			107.1	52.6	70.9	70	9.6	41.1	35.4	6.7	NA
	TERYX 750 4X4	KAWASAKI	GAS	X			X	42.7	44.8	749 CC	12	168	14	X			115.4	58.7	75	76	11.2	32.7	44.1	11.3	NA
KUBOTA	RTV 900	KUBOTA	DIESEL		X		X	21.6	40.5	898 CC	12	720	60	X			119.3	59.8	79.1	77.4	11.4	46.7	52	7.5	1984
	RTV 1100	KUBOTA	DIESEL		X		X	24.8	40.5	1123 CC	12	900	75	X			128.4	66.5	82.8	77.4	11.4	46.7	52	7.5	2469
LAND PRIDE	4410ST	HONDA	GAS	X		X		20	32.5	614 CC	12	240	20	X			116	56	71	76	11	48	52	9.5	1234
	4420ST	HONDA	GAS	X		X		20	32.5	614 CC	12	240	20	X			116	56	71	76	11	48	52	9.5	1234
POLARIS	RANGER XP	POLARIS	GAS		X		X	40	NA	683 CC	12	360	30	X			113	60	75	76	11.5	36.5	54	11	NA
	RANGER 6X6	POLARIS	GAS		X		X	40	NA	683 CC	12	360	30		X		120	60	75	90	11.5	42.5	54	7.2	NA
	RANGER CREW	POLARIS	GAS		X		X	40	NA	683 CC	12	360	30	X			145	60	75	108	11.5	36.5	54	11	NA
	RANGER 4X4 EFI- 500 & 700	POLARIS	GAS		X		X	30	NA	499 CC	12	360	30	X			113	60	75	76	11.5	36.5	54	11	NA
	RANGER RZR	POLARIS	GAS		X		X	NA	NA	760CC	12	216	18	X			102	50	69	77	NA	22	42	10	NA
	RANGER 4 X 4 DEFENSE	POLARIS	GAS		X		X	40	NA	683 CC	12	360	30	X			113	60	75	76	11.5	36.5	54	11	NA
	RANGER 6 X 6 DEFENSE	POLARIS	GAS		X		X	40	NA	683 CC	12	360	30		X		120	60	75	90	11.5	42.5	54	7.2	NA
TORO	WORKMAN 4200	B&S DAIHATSU	GAS	X			X	31	45.2	952 CC	12	480	40	X			136	65	75.8	70	11	62.5	50.7	7	1993
	WORKMAN 4300	B&S DAIHATSU	DIESEL	X			X	26.5	38.6	952 CC	12	480	40	X			136	65	75.8	70	11	62.5	50.7	7	2029
YAMAHA	RHINO 700	YAMAHA	GAS		X		X	45.6	NA	686 CC	14	469	33.5	X			113.6	54.4	73	75.2	12	32	44.25	12.1	NA
	RHINO 450	YAMAHA	GAS	X			X	26.1	NA	421 CC	12	336	28	X			113.6	54.5	73	75.2	12	32	44.25	12.1	NA

MANUFACTURER	MODEL	DRY WEIGHT (lbs.)	REAR TIRE SIZE (in)	FRONT TIRE SIZE (in)	TREAD TYPE / NAME	GROUND SPEED (mph)	SUSPENSION	STEERING TYPE	BRAKE TYPE	TRANSMISSION TYPE	FULL TIME 4WD or SHIFTABLE	REVERSE	FINAL DRIVE	TOWING CAPACITY (lbs.)	BED PAYLOAD (lbs.)	PAYLOAD W/ PASSENGERS (lbs.)	CONTACT AREA FULLY LOADED (in^2)
ARGO	CENTAUR 954G	2100	25X11.5-9	25X11.5-9	MUD	28	TIRE INFLATION	HYDRO SKID	HYD. DISC	CVT	FT	X	CHAIN	2000	NA	1500	
	CENTAUR 954DT	2420	25X11.5-9	25X11.5-9	MUD	28	TIRE INFLATION	HYDRO SKID	HYD. DISC	CVT	FT	X	CHAIN	2000	NA	1500	
	8X8 AVENGER 750 EFI	1195	25X11.5-9	25X11.5-9	MUD	20	TIRE INFLATION	BRAKING/POWER	HYD. DISC	CVT	FT	X	CHAIN	1800	NA	1150	
	8X8 AVENGER 700	1195	25X11.5-9	25X11.5-9	MUD	20	TIRE INFLATION	BRAKING/POWER	HYD. DISC	CVT	FT	X	CHAIN	1800	NA	1150	
	8X8 FRONTIER 650	961	22X10-8	22X10-8	MUD	19	TIRE INFLATION	BRAKING/POWER	HYD. DISC	CVT	FT	X	CHAIN	1400	NA	1000	
ARTIC CAT	PROWLER 650 4x4 AUTOMATIC	1160	26 X 11-14	26X9-14	MUD	49	2 X A-ARM	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	1500	600	NA	
	PRWLER XT 650 4X4 AUTO M4	1160	26 X 11-14	26X9-14	MUD	49	2 X A-ARM	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	1500	600	NA	
	PROWLER XTX 700 H1 LE	1165	26 X 11-14	26X9-14	MUD	55	2 X A-ARM	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	1500	325	NA	
BOBCAT	2200	NA	25X 11-12	NA	MUD	25	2 X A-ARM	RACK & PINION	HYD DISC	CVT	FT	X	SHAFT	800	800	1200	
	2200	NA	25X 11-12	NA	MUD	25	2 X A-ARM	RACK & PINION	HYD DISC	CVT	FT	X	SHAFT	800	800	1200	
	2300	NA	25X 11-12	NA	MUD	25	2 X A-ARM	RACK & PINION	HYD DISC	CVT	FT	X	SHAFT	800	800	1200	
	TOOLCAT 5600	NA	27x10.5-8	NA	MUD	18	4 WHEEL INDEP.	HYDRAULIC	HYDRO	HYDRO	FT	X	SHAFT	4000	2000	4200	
BRISTERS	Boss 390	900	22X11-10	22X9-10	PATHFINDER	20	STRUT/INDEP.	RACK & PINION	HYD. DISC/DRUM	CVT	SHIFTABLE	X	BELT	1100	400	900	
BUSH HOG	TH4400	1500	25X11-12	25X10-12	ALL TERRAIN	25	STRUT/INDEP.	RACK & PINION	HYD. DISC	CVT	ON DEMAND	X	SHAFT	1500	1000	1500	
	TH440	1320	23X10-12	23X8-12	ALL TERRAIN	25	STRUT/INDEP.	RACK & PINION	HYD. DISC	CVT	ON DEMAND	X	SHAFT	1500	750	1150	
CLUB CAR	XRT 1550 SE	1605	25X 11-12	25X 11-12	MUD	NA	2 X A-ARM/INDEP	RACK & PINION	HYD DISC	CVT	AUTO	X	SHAFT	1050	800	1600	
	XRT 1550 SE	1786	25X 11-12	25X 11-12	MUD	NA	2 X A-ARM/INDEP	RACK & PINION	HYD DISC	CVT	AUTO	X	SHAFT	1050	800	1450	
	XRT 1550	1430	25X 11-12	25X 11-12	MUD	NA	2 X A-ARM/INDEP	RACK & PINION	HYD DISC	CVT	AUTO	X	SHAFT	1050	800	1450	
	XRT 1550	1539	25X 11-12	25X 11-12	MUD	NA	2 X A-ARM/INDEP	RACK & PINION	HYD DISC	CVT	AUTO	X	SHAFT	1050	800	1450	
	CARRYALL 295	1430	25X 10.5-12	25X 10.5-12	MUD	25	2 X A-ARM/INDEP	RACK & PINION	HYD DISC	CVT	AUTO	X	SHAFT	1050	1050	1450	
	CARRYALL 295	1559	25X 10.5-12	25X 10.5-12	MUD	25	2 X A-ARM/INDEP	RACK & PINION	HYD DISC	CVT	AUTO	X	SHAFT	1050	1050	1450	
	CARRYALL 295 INTELLITACH	1709	25X 10.5-12	25X 10.5-12	MUD	25	2 X A-ARM/INDEP	RACK & PINION	HYD DISC	CVT	AUTO	X	SHAFT	1050	800	1700	
CUB CADET	4 X 4 VOLUNTEER	NA	25X 11-12	25X10-12	ALL TERRAIN	25	2 X A-ARM/INDEP	RACK & PINION	HYD. DISC	CVT	FT	X	SHAFT	1300	900	1300	
HONDA	BIG RED	NA	NA	NA	NA	NA	2X WISHBONE	NA	NA	NA	FT	X	NA	NA	NA	NA	NA
HUSQVARNA	HUV4421D	1587	25 X 10.5-12	25 X 10.5-12	TRAIL	25	2 X A-ARM/INDEP	RACK/PINION	HYD. DISC	CVT	AUTO	X	SHAFT	800	800	1200	
	HUV4421DXP	1687	25 X 11-12	25 X 11-12	MUD	25	IND. 2X A-SWING ARM	RACK/PINION	HYD. DISC	CVT	AUTO	X	SHAFT	800	800	1200	
	HUV4421G	1450	25 X 10.5-12	25 X 10.5-12	TRAIL	25	2 X A-ARM/INDEP	RACK/PINION	HYD. DISC	CVT	AUTO	X	SHAFT	800	800	1200	
	HUV4421GXP	1450	25 X 11-12	25 X 11-12	MUD	25	IND. 2X A-SWING ARM	RACK/PINION	HYD. DISC	CVT	AUTO	X	SHAFT	800	800	1200	
JOHN DEERE	XUV 620 i	NA	25 X 10-12	25 X 10-12	AGR. TREAD	30	IND. STRUT	RACK/PINION	HYD DISC	CVT	AUTO	X	BELT	1300	1000	1400	
	HPX 4X4	NA	24X12-10	24x9.5-10	AGR. TREAD	25	IND. STRUT	RACK & PINION	HYD DISC	CVT	AUTO	X	BELT	1300	1000	1400	
	M-GATOR A1	NA	25X13-9	NA	HVY_DTY/RF	20	IND SPRING	RACK & PINION	WET DISC	CVT	FT	X	CHAIN	1400	1400	1650	
KAWASAKI	Mule 4010 Trans4X4	NA	23X 11-10	23X 11-10	MUD	25	INDEP/LEAF	RACK & PINION	HYD DRUM	CVT	SHIFT	X	SHAFT	1200	400	1330	
	Mule 4010 4X4	1314	23X 11-10	23X 11-10	MUD	25	INDEP/LEAF	RACK & PINION	HYD DRUM	CVT	SHIFT	X	SHAFT	1200	800	1330	
	MULE 610 4x4	979	24X 11-10	24X9-10	MUD	25	STRUT/SWNG AXLE	RACK & PINION	HYD DRUM	CVT	SHIFT	X	SHAFT	1100	400	926	
	TERYX 750 4X4	1276	26X 10-12	26X8-12	MUD	48	2 X A-ARM/INDEP	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	1300	500	1028	
KUBOTA	RTV 900	NA	25X 10-12	25X 10-12	BAR LUG	25	STRUT / LEAF	HYDRO	WET DISC	HYDRO	SHIFT	X	SHAFT	1300	1102	1653	
	RTV 1100	NA	25X 10-12	25X 10-12	BAR LUG	25	STRUT / LEAF	HYDRO	WET DISC	HYDRO	SHIFT	X	SHAFT	1300	1102	1631	
LAND PRIDE	4410ST	NA	25X 11-12	25X8-12	ALL TERRAIN	25	STRUT/INDEP.	RACK & PINION	HYD DISC	CVT	SHIFT	X	BELT	1200	950	1300	
	4420ST	NA	25X 11-12	23X8.5-12	ALL TERRAIN	30	STRUT/INDEP.	RACK & PINION	HYD DISC	CVT	SHIFT	X	BELT	1200	900	1300	
POLARIS	RANGER XP	1185	26X 11-12	26X8-12	ALL TERRAIN	50	STRUT/INDEP.	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	2000	1000	1500	
	RANGER 6X6	1410	25X 11-12	25X10-12	ALL TERRAIN	44	STRUT/INDEP.	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	2000	1250	1750	472
	RANGER CREW	1441	26X 11-12	26X9-12	ALL TERRAIN	44	STRUT/INDEP.	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	2000	1000	1750	
	RANGER 4X4 EFI- 500 & 700	1185	25X 11-12	25X10-12	ALL TERRAIN	41	STRUT/INDEP.	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	1500	1000	1500	
	RANGER RZR	945	25X 10-12	25X8-12	ALL TERRAIN	55	2 X A-ARM	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	1500	300	740	
	RANGER 4 X 4 DEFENSE	1185	26X 8-12	26X8-12	ALL TERRAIN	50	STRUT/INDEP.	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	2000	1000	1500	
	RANGER 6 X 6 DEFENSE	1410	25X 11-12	25X10-12	ALL TERRAIN	50	STRUT/SWING ARM	RACK & PINION	HYD DISC	CVT	SHIFT	X	SHAFT	2000	1250	1750	
TORO	WORKMAN 4200	NA	24X 12-12	20X10-10	TURF TREAD	20	LEAF & COIL	HYD. POWER	HYD. DRUM	TWIN AXLE	AUTO	X	SHAFT	1500	2535	2257	
	WORKMAN 4300	NA	24X 12-13	20X10-10	TURF TREAD	20	LEAF & COIL	HYD. POWER	HYD. DRUM	TWIN AXLE	AUTO	X	SHAFT	1500	2535	2221	
YAMAHA	RHINO 700	1049	25X 10-12	25X8-12	MUD	41	IND. WISHBONE	RACK/PINION	HYD.DISC	CVT	SHIFT	X	SHAFT	1212	400	2000	
	RHINO 450	1031	25X 10-12	25X8-12	MUD	40	IND. WISHBONE	RACK/PINION	HYD.DISC	CVT	SHIFT	X	SHAFT	1212	400	2000	

MANUFACTURER	MODEL	GROUND PRESSURE FULL LOADED (psi)	SEATING CAPACITY	ROPS	CERTIFIED ROPS	TRACK OPTION	PRICE MSRP	WARRANTY (yrs.)
ARGO	CENTAUR 954G		2	X	X	X	$30,500.00	1
	CENTAUR 954DT		2	X	X	X	$32,750.00	1
	8X8 AVENGER 750 EFI		6		X	X	$17,395.00	3
	8X8 AVENGER 700		6		X	X	$15,750.00	3
	8X8 FRONTIER 650		6		X	X	$13,795.00	2
ARTIC CAT	PROWLER 650 4x4 AUTOMATIC		2	X		X	$9,499.00	0.5
	PRWLER XT 650 4X4 AUTO M4		2	X		X	$10,699.00	0.5
	PROWLER XTX 700 H1 LE		2	X		X	$10,999.00	0.5
BOBCAT	2200		2	X	X	X	$10,730.00	2
	2200		2	X	X	X	NA	2
	2300		2	X	X	X	$15,090.00	2
	TOOLCAT 5600		2	X	X	X	$37,295.00	2
BRISTERS	Boss 390		2	X			$6,299.98	2
BUSH HOG	TH4400		3	X			$9,399.00	1
	TH440		2	X			$8,999.00	1
CLUB CAR	XRT 1550 SE		4	X	X		$10,500.00	2
	XRT 1550 SE		4	X	X		NA	2
	XRT 1550		4	X	X		$9,100.00	2
	XRT 1550		2	X	X		NA	2
	CARRYALL 295		2	X	X		$9,885.00	2
	CARRYALL 295		2	X	X		NA	2
	CARRYALL 295 INTELLITACH		2	X	X		$14,590.00	2
CUB CADET	4 X 4 VOLUNTEER		2	X	X	X	$8,699.00	2
HONDA	BIG RED	NA	2	NA	NA	NA	NA	NA
HUSQVARNA	HUV4421D		2	X	X		$10,999.00	2
	HUV4421DXP		2	X	X		$12,499.00	2
	HUV4421G		2	X	X		$9,999.00	2
	HUV4421GXP		2	X	X		$11,499.00	2
JOHN DEERE	XUV 620 i	14	2	X	X		$9,499.00	1
	HPX 4X4	14	2	X	X		$8,499.00	1
	M-GATOR A1	48	2	X	X		$19,599.00	1
KAWASAKI	Mule 4010 Trans4X4		4	X	X	X	$9,599.00	1
	Mule 4010 4X4		2	X	X	X	$9,599.00	1
	MULE 610 4x4		2	X	X	X	$6,699.00	1
	TERYX 750 4X4		2	X	X	X	$9,799.00	0.5
KUBOTA	RTV 900		2	X	X	X	$10,768.00	1
	RTV 1100		2	X	X	X	$17,199.00	1
LAND PRIDE	4410ST		2	X			$9,400.00	2
	4420ST		2	X			$9,800.00	2
POLARIS	RANGER XP		3	X	X	X	$10,499.00	0.5
	RANGER 6X6	20.33	3	X	X	X	$11,199.00	0.5
	RANGER CREW		6	X	X	X	$11,299.00	0.5
	RANGER 4X4 EFI- 500 & 700		3	X	X	X	$9,499.00	0.5
	RANGER RZR		2	X	X	X	$10,299.00	0.5
	RANGER 4 X 4 DEFENSE		2	X	X	X	$10,499.00	0.5
	RANGER 6 X 6 DEFENSE		2	X	X	X	$11,199.00	0.5
TORO	WORKMAN 4200		2	X	X		$19,300.00	2
	WORKMAN 4300		2	X	X		$20,600.00	2
YAMAHA	RHINO 700		2	X		X	$11,999.00	0.5
	RHINO 450		2	X		X	$8,299.00	0.5