

Pasture	Average Prod	Slope	Acres	Available Pounds	Authorized Pounds	AUMs	Animals for 12 months
McInturff	350 0 - 10		135	48263	Capacity calculation is based on Tonto National Forest coverage data and is not exact but will provide an estimate. How to estimate capacity: You need: - Slope - Production - Distance from water (not used here due to ALL are riparian) In GIS: - Create a slope layer that reclassifies in 0-10%, 11-30%, 31-60%, 61-100% - Gather production data at points and then use kriging - Use Tabulate Intersection to provide how many designations (see columns B-D) Calculate: MULTIPLY (average lbs. of production)(acres)(slope) SUM all available pounds MULTIPLY by (0.40 allowable utilization) = authorized pounds DIVIDE (authorized pounds per pasture)/790 = AUMs		
	350 11 - 30		183	45796			
	350 31 - 60		21	3003			
	350 61 - 100		0	0			
	475 0 - 10		289	137275			
	475 11 - 30		361	120033			
	475 31 - 60		36	6840			
	525 0 - 10		646	339150			
	525 11 - 30		427	156923			
	525 31 - 60		149	31290			
	525 61 - 100		17	0			
	575 0 - 10		604	347300			
	575 11 - 30		856	344540			
	575 31 - 60		441	101430			
	575 61 - 100		45	0			
	625 0 - 10		242	151250			
	625 11 - 30		194	84875			
	625 31 - 60		13	3250			
	675 0 - 10		123	83025			
	675 11 - 30		118	55755			
	675 31 - 60		33	8910			
	675 61 - 100		0	0			
	815 0 - 10		170	138550			
	815 11 - 30		121	69031			
	815 31 - 60		2	652			
			5226	2277139	910856	1153	96
Lost Salt	350 0 - 10		118	41235			
	350 11 - 30		420	102897			
	350 31 - 60		390	54615			
	350 61 - 100		20	0			
	475 0 - 10		106	50198			
	475 11 - 30		666	221563			
	475 31 - 60		473	89818			
	475 61 - 100		24	0			
	525 0 - 10		139	73231			
	525 11 - 30		835	306707			
	525 31 - 60		638	133886			
	525 61 - 100		58	0			
	575 0 - 10		299	172006			
	575 11 - 30		1403	564590			
	575 31 - 60		1330	305895			
	575 61 - 100		68	0			
			2116639	846656	1072	89	
Potato Butte	350 0 - 10		165	57750			
	350 11 - 30		174	42630			
	350 31 - 60		50	7000			
	350 61 - 100		2	0			
	475 0 - 10		73	34675			
	475 11 - 30		43	14297.5			
	475 31 - 60		8	1520			
	475 61 - 100		1	0			
	525 0 - 10		53	27825			
	525 11 - 30		28	10290			
	525 31 - 60		8	1680			
	525 61 - 100		1	0			
	575 0 - 10		11	6325			
	575 11 - 30		12	4830			
	575 31 - 60		6	1380			
	575 61 - 100		2	0			
	625 31 - 60		0	0			
	625 61 - 100		1	0			
			210203	84081	106	9	
Naeglin	350 0 - 10		67	23450			
	350 11 - 30		329	80605			
	350 31 - 60		250	35000			
	350 61 - 100		20	0			
	475 0 - 10		51	24225			
	475 11 - 30		273	90773			
	475 31 - 60		235	44650			
	475 61 - 100		5	0			
	525 0 - 10		85	44625			
	525 11 - 30		677	248798			
	525 31 - 60		337	70770			
	525 61 - 100		2	0			
	575 0 - 10		433	248975			
	575 11 - 30		1113	447983			
	575 31 - 60		532	122360			
575 61 - 100		58	0				
			1482213	592885	750	63	
Valentine	525 0 - 10		341	179025			
	525 11 - 30		1127	414173			
	525 31 - 60		889	186690			
	525 61 - 100		165	0			
	575 0 - 10		154	88550			
	575 11 - 30		491	197628			
	575 31 - 60		781	179630			
	575 61 - 100		216	0			
			1245695	498278	631	53	
Brady Canyon	575 0 - 10		54	31050			
	575 11 - 30		66	26565			
	575 31 - 60		0	0			
	625 0 - 10		346	216250			
	625 11 - 30		782	342125			
	625 31 - 60		528	132000			
	625 61 - 100		252	0			
	675 0 - 10		43	29025			
	675 11 - 30		147	69457.5			
	675 31 - 60		362	97740			
	675 61 - 100		158	0			
	815 0 - 10		10	8150			
	815 11 - 30		31	17685.5			
	815 31 - 60		96	31296			
	815 61 - 100		33	0			
			1001344	400538	507	42	

Capacity calculation is based on Tonto National Forest production utilization monitoring and GIS coverage data and is not exact but will provide an estimated figure for management purposes.

How to estimate capacity:

You need:

- Slope

- Production

- Distance from water (not used here due to ALL areas being within 2 miles of water)

In GIS:

- Create a slope layer that reclassifies in 0-10%, 11-30%, 31-60%, and 61-100% breaks

- Gather production data at points and then use kriging to connect the dots

- Use Tabulate Intersection to provide how many acres per pasture are made up of each of these designations (see columns B-D)

Calculate:

MULTIPLY (average lbs. of production)(acres)(slope modifier)= available pounds per classification

SUM all available pounds

MULTIPLY by (0.40 allowable utilization) = authorized pounds per pasture

DIVIDE (authorized pounds per pasture)/790 = AUMs per pasture

Cline Mesa	575 0 - 10	1	575			
	575 11 - 30	15	6038			
	575 31 - 60	16	3680			
	575 61 - 100	3	0			
	625 0 - 10	17	10625			
	625 11 - 30	89	38938			
	625 31 - 60	35	8750			
	625 61 - 100	7	0			
	675 0 - 10	128	86400			
	675 11 - 30	141	66623			
	675 31 - 60	84	22680			
	675 61 - 100	44	0			
	815 0 - 10	995	810925			
	815 11 - 30	1024	584192			
	815 31 - 60	1157	377182			
	815 61 - 100	280	0			
			2016607	806643	1021	85
Walnut	350 0 - 10	319	111650			
	350 11 - 30	713	174685			
	350 31 - 60	283	39620			
	350 61 - 100	14	0			
	475 0 - 10	213	101175			
	475 11 - 30	545	181213			
	475 31 - 60	216	41040			
	475 61 - 100	8	0			
	525 0 - 10	117	61425			
	525 11 - 30	337	123848			
	525 31 - 60	57	11970			
	575 0 - 10	99	56925			
	575 11 - 30	246	99015			
	575 31 - 60	23	5290			
	575 61 - 100	0	0			
	625 0 - 10	190	118750			
	625 11 - 30	410	179375			
	625 31 - 60	220	55000			
	625 61 - 100	19	0			
	675 0 - 10	152	102600			
	675 11 - 30	407	192308			
	675 31 - 60	210	56700			
	675 61 - 100	28	0			
	815 0 - 10	196	159740			
	815 11 - 30	171	97556			
	815 31 - 60	3	978			
			1970861	788344	998	83

520 TOTAL animals on Driveway per 12 months

Average Prod	Slope	Acres	Available Pounds	Authorized Pounds	AUMs	Animals for 12 months
350	0 - 10	708	253110			
350	11 - 30	2600	650650			
350	31 - 60	1557	222651			
350	61 - 100	142	0			
475	0 - 10	959	342843			
475	11 - 30	2471	618368			
475	31 - 60	1304	186472			
475	61 - 100	151	0			
525	0 - 10	714	255255			
525	11 - 30	2557	639889			
525	31 - 60	2521	360503			
525	61 - 100	570	0			
575	0 - 10	755	269913			
575	11 - 30	1633	408658			
575	31 - 60	1474	210782			
575	61 - 100	406	0			
625	0 - 10	878	313885			
625	11 - 30	1500	375375			
625	31 - 60	750	107250			
625	61 - 100	122	0			
675	0 - 10	620	221650			
675	11 - 30	899	224975			
675	31 - 60	425	60775			
675	61 - 100	125	0			
815	0 - 10	527	188403			
815	11 - 30	819	204955			
815	31 - 60	147	21021			
815	61 - 100	3	0			
			6137381	2454953	3108	259
						TOTAL animals on Bar X per 12 months

Average Prod	Slope	Acres	Available Pounds	Authorized Pounds	AUMs	Animals for 12 months
350	0 - 10	477	170528			
350	11 - 30	2156	539539			
350	31 - 60	1419	202917			
350	61 - 100	141	0			
475	0 - 10	661	236307.5			
475	11 - 30	2144	536536			
475	31 - 60	1192	170456			
475	61 - 100	137	0			
525	0 - 10	132	47190			
525	11 - 30	918	229729.5			
525	31 - 60	916	130988			
525	61 - 100	168	0			
575	0 - 10	5	1787.5			
575	11 - 30	35	8758.75			
575	31 - 60	36	5148			
575	61 - 100	3	0			
		10540	2279885	911954	1154	96
						TOTAL animals on in Colcord Pasture per 12 months

Pasture	Slope	% of Pasture	Acres	Adjusted %
Potato Butte	10	47	302	
	30	40	258	
	60	11	72	
	100	1	5	
			637	80
Brady Canyon	10	15	453	
	30	35	1026	
	60	34	986	
	100	15	443	
			2908	53
Cline Mesa	10	28	1140	
	30	31	1269	
	60	32	1292	
	100	8	334	
			4035	62
Lost Salt	10	9	662	
	30	48	3323	
	60	40	2830	
	100	2	171	
			6986	59
McInturff	10	42	2209	
	30	43	2261	
	60	13	696	
	100	1	62	
			5228	78
Naeglin	10	14	636	
	30	53	2393	
	60	30	1354	
	100	2	84	
			4467	64
Valentine	10	12	495	
	30	38	1615	
	60	39	1663	
	100	9	378	
			4151	54
Walnut	10	25	1287	
	30	54	2830	
	60	19	1013	
	100	1	68	
			5198	71

Pasture	Buffer	% of Pasture	Acres	Adjusted %
Potato Butte	1 mile			
	2 mile			
	more			
			637	0.00
Brady Canyon	1 mile			
	2 mile			
	more			
			2937	0.00
Cline Mesa	1 mile			
	2 mile			
	more			
			4077	0.00
Lost Salt	1 mile	0.80	5560	
	2 mile	0.20	1422	
	more	0.00	4	
			6986	0.90
McInturff	1 mile			
	2 mile			
	more			
			5236	0.00
Naeglin	1 mile			
	2 mile			
	more			
			4474	0.00
Valentine	1 mile			
	2 mile			
	more			
			4233	0.00
Walnut	1 mile			
	2 mile			
	more			
			5198	0.00