









Grazing

io Vendramir

UF FLORIDA

- Additional source of income to landowners
- · Promote plant diversity
- · Increase nutrient cycling
- Ecosystem services?

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Grazing

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- Recent release of a series of grazing terminology with little or no scientific evidence of benefits to grazing systems
 - Holistic grazing
 - Savory grazing
 - Intensive grazing
 - Adaptive Intensive Grazing
 - Adaptive grazing management (AGM)
 - Mob grazing
 - Etc.....

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Grazing

não Vondram

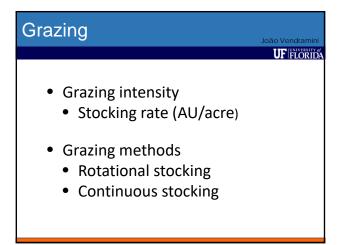
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"the vast majority of experimental evidence does not support claims of enhanced ecological benefits in intensive rotational grazing compared to other stocking strategies, including the capacity to increase storage of soil organic carbon." They concluded that of all the practices one may adopt for grazing, stocking rate is the primary factor that controls the resultant sustainability of rangeland as a forage source.

Briske et al. (2014)

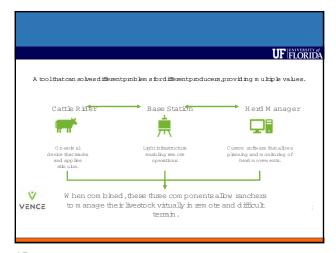














- Base Stations com m unicate with collars using LoRaW AN technology—ISM Band.
- CellularBackhaulbridges collardata to the internet.
- So hr Pane kallow independent operation in rem ote areas.
- Depending on the ranch topography, a base station has the capability to provide coverage for 10,000 acres orm ore.

• Pesigned to last 10+ years in the field with little to no maintenance.



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- GPS receiver determ in esan in als'position in relation to Vence boundaries.
- If the anim alencoaches on a Vence boundary, the collardep bys sound stimulus to lowed by sound + shock stimulus.
- The collarsm emory capacity allows autonomous operation even when out of range from Base Stations.

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- Anin als m anaged via pressure applied by the collarbased on location.
 When anin alfistappranches a boundary a sound warning kapplied.
 If anin alcontinue to enconach, a sound plus aversive sit hule is applied.
 Anin alsare trained to turn away from the collarpressure and return to the head.
 Vitual fence line is a 'Une way gate' anin als receive pressure lawing the inclusion zone but receive pressure lawing the inclusion zone the vitual fence turns back on.

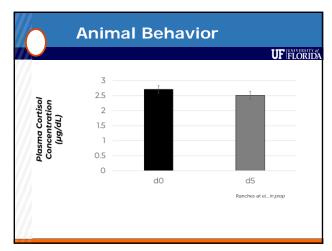
V VENCE

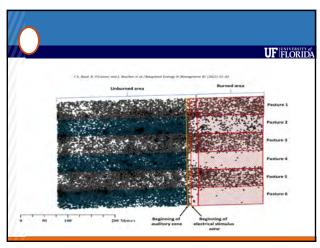


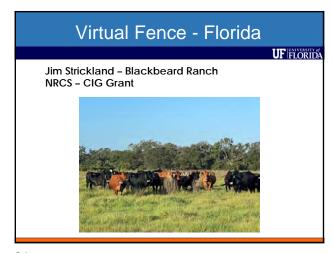
						UF	FLC
Item	Run 1	Run 2	Run 3	Run 4	Run 5	Largest SEM	P-1
	Collar off		Collar on		Collar of		
Chute score	1.40	1.25	1.30	1.30	1.40	0.109	0
Chute exit velocity, m/s	2.10	1.45	1.80	1.85	1.90	0.244	0
	1.45b	3.65ª	1.60b	1.30 ^b	1.25 ^b	0.197	< 0

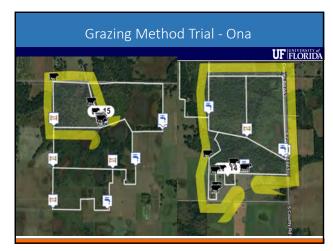
						UF	FLO
Behavior	Run 1	Run 2	Run 3	Run 4	Run 5	Largest SEM	P-vai
	Collar off		Collar on		Collar off		
Eating, %	47.7ª	3.85 ^b	0.955b	1.34 ^b	24.0ª,b	6.943	< 0.0
Browsing, %	10.8	5.60	12.0	6.65	19.9	5.09	0.3
Idling, %	21.9°	52.3ª	54.9°	57.8ª	36.6ª,b,c	6.95	< 0.0
Walking, %	15.9	17.8	24.9	26.0	18.8	4.01	0.3
Head shaking, %	0.466	3.50	0.970	1.70	0.250	1.018	0.1
Walking; head shaking, %	0.485	4.01	0.888	2.83	0.252	1.240	0.1
Running/trotting, %	0.00	1.14	0.92	0.88	0.00	0.962	0.8
Running/trotting; head shaking, %	0.00b	5.54°	1.60b	0.800b	0.00b	0.815	< 0.0
Jumping, %	0.00b	1.08a	0.232b	0.235b	0.00b	0.240	0.0
Jumping and head shaking, %	0.00 ^b	1.86ª	0.927 ^a	0.00 ^b	0.00 ^b	0.405	< 0.0
Bucking and running, %	0.00 ^b	1.25ª	0.232a,b	0.00b	0.00b	0.307	0.0

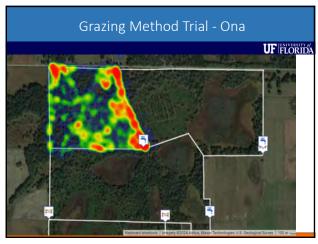


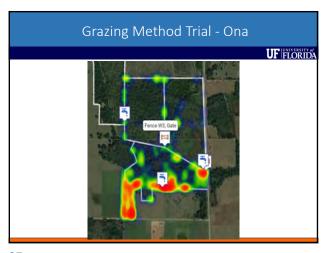












Grazing Method Trial - Ona								
				UF FLORII	ÖÆ			
	Continuous	Rotational	SE	<i>P</i> value				
ADG (lb/d)	0.1	0.0	0.08	0.45				
BCS initial	5.6	5.7	0.3	0.82				
BCS final	5.8	5.8	0.3	0.94				
BCS change	0.2	0.1	0.1	0.47				

