

PI Name: Stacey Barta
Montana DNRC
406 Grazing Academy

Learning Objective	Teaching Method/Activity	Outcome	Assessment
Increase knowledge of sustainable grazing practices (including stocking rates, using grazing as a tool for invasive plant management, using fencing as a tool to mitigate riparian area issues, managing for wildlife, how to manage during a drought, how to manage after a wildfire, and increased awareness and familiarity with resources and tools available ie: Soil Survey and Rangeland Analysis Program (RAP)).	<ul style="list-style-type: none"> • In-class PowerPoints, • In-class discussions, • Hands-on field workshop, • Optional follow-up site visit, • Campfire speaker, • Interactions/networking. 	<ul style="list-style-type: none"> • Lands that are more sustainably used with conservation and regenerative management practices implemented, • Grazing is used as a tool to benefit not only livestock for economic purposes, but wildlife and fisheries for ecological and recreational usage. • Increased carbon cycling ability of lands managed sustainably by 406 Academy graduates. • Relationship building and networking with experienced guest speaker ranchers, state and federal agency personnel, university and Extension professors and staff. 	<ul style="list-style-type: none"> • Pre and post survey • Follow-up check-in 1 year post attendance to evaluate if tools learned are being used and if so, how? • If theory has been applied successfully and the 406 experience has driven change on the operation, the ranch may be featured in future tours to showcase 406 GA successes.
Increased ability to identify invasive plant species.	<ul style="list-style-type: none"> • In-class PowerPoints, • In-class discussions, • Hands-on in-class workshop. 	<ul style="list-style-type: none"> • Greater understanding of why invasive plants need to be managed (i.e.: economic and environmental impacts highlighted and understood). • Highlight the resources that are available to assist with weed management (Montana Dept of Ag, County Weed Districts, Extension, etc.). 	<ul style="list-style-type: none"> • Pre and post survey • Inquire if resources highlighted have been used post attendance of the 406GA. An example may be applying for a Noxious Weed Trust Fund Grant or similar.
Increased understanding of why stock water developments, riparian fencing, and mineral placement are essential for healthy streams and rivers.	<ul style="list-style-type: none"> • In-class PowerPoints • In-class discussions • Optional follow-up site visit • Campfire speaker interactions/networking 	<ul style="list-style-type: none"> • Improved recreational usage and value for sustainably managed streams and rivers, • Fencing used as a tool to mitigate and reduce potential degradation of streams and rivers. 	<ul style="list-style-type: none"> • Pre and post survey • Follow-up check-in 1 year post attendance to evaluate if tools learned are being used and if so, how? • Highlight successes.
Increased knowledge of wildlife and livestock interactions and how to manage those.	<ul style="list-style-type: none"> • In-class PowerPoints, • In-class discussions, • Hands-on field workshop, 	<ul style="list-style-type: none"> • Lands that are more effectively managed to be beneficial to wildlife which benefits all Montanans. 	<ul style="list-style-type: none"> • Pre and post survey • Follow-up check-in 1 year post attendance to evaluate

	<ul style="list-style-type: none"> • Optional follow-up site visit, • Campfire speaker • Interactions/networking. 		<p>if tools learned are being used and if so, how?</p> <ul style="list-style-type: none"> • Highlight successes.
Increased knowledge of how to set up monitoring methods and keep monitoring records.	<ul style="list-style-type: none"> • In-class PowerPoints, • In-class discussions, • Hands-on field workshop, • Optional follow-up site visit, • Campfire speaker, • Interactions/networking. 	<ul style="list-style-type: none"> • Establishing attainable goals in terms of 1. Setting a schedule for monitoring and doing it, 2. Use data to adjust management strategy to obtain goals. • Possess the knowledge and confidence to effectively use the rangeland monitoring kit given at the 406GA to establish and conduct evaluations to determine if set goals are being achieved. • Possess the knowledge to change direction or reach out for help if management goals are not being achieved within the parameters of the management goals and objectives. 	<ul style="list-style-type: none"> • Pre and post survey • Follow-up check-in 1 year post attendance to evaluate if tools learned are being used and if so, how? • Highlight successes.