

MONTANA OUTDOORS MAGAZINE LITERACY PROGRAM EVALUATION

"Moving Right Along"		name:		
1. For decades Montana Fish migration routes and habitats establish migration routes for	that are critical t	o seasonal movements. Wh		•
business owners	teachers	construction workers	ranchers	hunters
2. Why are barbed wire fence	s more of an obst	tacle for pronghorn antelop	e than they are for do	eer or elk?
3. Which technology has beer migration?	n used by Brett Do	orak (FWP Biologist in Malta) to better understar	nd barriers to pronghorn
4. In some cases FWP helps ra pronghorn to get through fen		odify their fences. What are	two modifications th	nat make it easier for
5. To help pronghorn migrate, does he keep his cows where			ed many of the fence	es on his property. How
5. As Montana's human popul migration?	lation grows, wha	at are two other obstacles (b	pesides fences) that i	nterfere with wildlife
7. Bears don't migrate, but do Depuyer. What are two strate with producers (ranchers) as I	gies used by Wes	sley Sarmento, FWP's bear r	nanagement specialis	
3. What two technologies hav	e made the publi	c more aware of wildlife mi	grations than they w	ere decades ago?
9. How have Montana's migra	iting wild animals	benefited from a 2018 ord	er from the Secretary	of the Interior.



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10. Why does Harry Liss feel compelled to protect the bighorn sheep that spend time on his property?
11. Jeff Klein is okay with elk migrating through his ranch, but he has made to some changes to keep the elk away from his cows. Why does he keep the two species apart?
12. An important part of Gary Burnett's job as executive director of the Heart of the Rockies is to facilitate negotiations. What is the goal of his negotiations, and who are the two groups he works with?
13. Why is Lauri Hanuska-Brown (FWP wildlife project coordinator) optimistic about the future of wildlife migration projects.?
14. What does Hanuska-Brown think is the most effective tool in removing wildlife migration barriers?
15. Take some time to look at the photographs and read the captions. What have the Confederated Salish and Kootenai Tribes and the Department of Transportation have done to enhance animal migrations and movements on the Flathead Reservation?
16. Read the sidebar titled "Implications of gathering data". Why are wildlife management agencies such as FWP careful about sharing data about migrations routes?
17. Look at the map showing the movements of radio-collared mule deer in Carbon County. List two man-made impediments that the deer may have to cross as they move from their winter range to their summer range.



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Teachers . . .

- 1. Begin by discussing animal migration. Here are some possible bell-ringers . . .
 - a. Which of Montana's wild animals migrate?
 - b. What are some reasons animals migrate?
 - c. What is a wildlife corridor?
 - d. For higher level students, you might ask, "What is habitat fragmentation?".
- 2. Give students a copy of the article. Have them read it silently, read it as a class, or read it to them.
- 3. Give students a copy of the evaluation (worksheet), and have them answer the questions.
- 4. If the assignment seems to be too much for the grade level you teach, consider assigning a certain number of questions (you decide how many, and then each student gets to pick which ones they answer). Any questions they answer correctly beyond the required number can count as extra credit.

Answer Key

- 1. Ranchers
- 2. Pronghorn don't jump fences they crawl under them.
- 3. GPS collars
- 4. Raising the lowest wire, and using smooth wire for the lowest strand.
- 5. Barthelmess uses shock collars (vencing).
- 6. Highways/roads, subdivisions (towns, residential areas)
- 7. He moves carcasses away from ranches and towns, and uses electric fencing.
- 8. GPS collars and remote camera traps have increased awareness.
- 9. The 2018 order provided funding for projects to enhance migration and seasonal movement.
- 10. He knows that he built his house on their winter range.
- 11. Elk carry brucellosis, disease that he doesn't want his cows to become infected with.
- 12. The goal is to reach agreements that promote wildlife migration. He works with public agencies (FWP, etc.) and private landowners.
- 13. She believes there is funding and renewed energy (enthusiasm) for such projects.
- 14. Landowner tolerance for having wildlife on their property.
- 15. They have built 42 passageway culverts (tunnels) under Highway 93.
- 16. FWP doesn't want the data to be used by hunters.
- 17. Answers will vary possibilities include highways, fences, residential areas.