LISTENING - HOW WOLVES CHANGE RIVERS

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2 Complete the transcript. You can listen to the videoclip once	or twice,
until you have filled all the easiest gaps, then pause the video	to listen
several times to the most difficult words.	

One of the most exciting scientific	of the past half century has
been the discovery of widespread troph	nic cascades.
A trophic cascade is an ecological pro	cess which starts at the top of the
food and tumbles all the	way down to the bottom. And the
classic example is what happened in th	e Yellowstone National Park in the
United States when wolves were reint	troduced in Now, we-
we all know that wolves	various species of animals, but
perhaps we're slightly less aware tha	at they give to many
others.	#LIVEWORKSHEETS

Before the wolves turned up they'd been absent for years.
The- the numbers of deer, because there was nothing to hunt them had
built up and built up in the Yellowstone Park, and despite efforts by
humans to control them, they'd managed to reduce much of the
vegetation there to almost, they'd just grazed it away.
But as soon as the wolves arrived, even though they were in
number, they started to have the most remarkable effects. First, of course,
they killed some of the deer, but that wasn't a major thing. Much more
significantly, they radically the behaviour of the deer. The
deer started avoiding certain parts of the park, the places where they
could be trapped most easily, particularly the and the gorges.
And immediately those places started to regenerate. In some areas, the
of the trees quintupled in just six years. Bare valley sides
quickly became forests of aspen, and willow, and cottonwood. And as soon
as that happened, the birds started moving in. The number of song birds
and migratory birds started to increase greatly.
The number of beavers started to increase, because beavers like to- to eat
the trees. And beavers are like wolves, they're ecosystem,
they create niches for other species. And the dams they built in the rivers
uhm- provided habitats for otters, and musk rats, and ducks, and fish, and
reptiles, and amphibians.
The wolves killed coyotes, and, as a result of that, the number of rabbits
and mice began to, which meant more hawks, more weasels,
more foxes, more badgers. Ravens and bald eagles came down to feed on
the carrion that the wolves had left. Bears fed on it, too, and their
population began to rise, as well, partly also because there were more
berries growing on the shrubs. And the bears reinforced the
impact of the wolves by killing some of the calves of the deer.



But here's where it gets really interesting. The wolves changed the
of the rivers. They began to meander less, there is less
erosion, their channels narrowed, more pools formed, more riffle sections,
all of which were great for wildlife habitats. The rivers changed in
response to the wolves. And the reason was the regenerating forests
stabilised the banks so that they collapsed less often, so that the rivers
became more fixed in their course.

Similarly, by driving the deer out of some ______, and the vegetation recovering on the valley sides there is less soil erosion because the vegetation stabilised that as well.

So, the wolves, small in number, transformed not just the ecosystem of the Yellowstone National Park, this huge area of land, but also its physical

3.- Drag these words from the videoclip next to the correct phonemes:

been	kill			8	/eɪ/
most	thing			i i	
way	more				/aɪ/
down	place			0	
food	gorge				/iː/
now	those				/1/
know	tree				/1/
give	six				/au/
build	side	15		aş.	
graze	fish				/əʊ/
soon	mice				200 20
though	hawk				/uː/
they	bald			4	
course	feed				/ɔː/
	3	t-		VE	LIVEWORKSHEET