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Title: These are the people who look after out water

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foung people from the area chop out invasive alien wattle. Grass is now growing where the wattle was, and water retention has improved greatly, with the water flow in springs maximised

igh up in the Drakensberg mountains near the Eastern Cape town of Mataticle, you can hear chopping and sawing and see smoke rising from kilns close to a tributary of the uMzimvubu River, one of South Africa's strategic water sources.

sources.

Here, you'll find a team of young people from the area, chopping out invasive alien wattle, chain-sawing it not logs and feeding it into the kilns to make chargeal.

make charcoal.

Not far from here, young men on rseback are herding communiowned cattle into fresh grasslands

ty-owned cattle into fresh grasslands as part of a communal cattle grazing programme in which many local communal farmers are participating. Charcoal entrepreneurs are helping to restore these grazing areas by removing the wattle, after which it returns to indigenous grass species, increasing the land available for live-stock grazing and restoring ecosys-tem function.

Springs in the area that have been ormant for years are reappearing, here is a noticeable recovery of the retlands and grasslands, and a re-uction in soil erosion.

duction in soil erosion.

'These are the people who are looking after South African's strategic water source area [SWSAs] that provide more than 50% of our entire country's surface water, including a significant proportion of the supply to all our major cities; was WWF-SA's water source areas manager Samir Randera-Rees, who works closely with the WWF Ned-bank Green Trust on several projects in SWSAs.

The uMzimvubu River is one of the largest river system in southern

he largest river system in southern Africa and one of South Africa's SWSAs. It drains over two million nectares, supplying water for hun-lreds of kilometres to regions as far

dreds of kilometres to regions as far as Port St Johns.

Matatiele is one of the regions where the WWF Neddank Green Trust and Nedbank have been supported in the state of the





ABOVE: The uMzimvubu River is one of the largest river systems in southern Africa and one of South Africa's strategic water source areas, ABOVE RIGHT: Charcoal entrepreneurs help to restore grazing areas by removing the wattle, burning it in kilns and making charcoal. PHOTOS: ERS

area, and then down from here all the way to the river mouth," says enviors well, which is reducing the flow way to the river mouth," says envi-

area, and then down from her all the way to the river mouth," says environmental scientists Nicky McLeod of Environmental and Rural Solutions (ERS), a non-profit social enterprise that the profit social enterpr

year as a result of the uncontrolled and rapid growth of black and silver wattle."

as well, which is considered and springs, and forcing boreholes to be dug deeper and deeper, resulting in a severe water deficit.

A number of corporates have set water sustainability targets to "replenish" every litre of water they take out of the system through their operations.

"Through WWF, we are facilitating voluntary 'payment for ecosystem

erations.

"Through WWF, we are facilitating a voluntary 'payment for ecosystem services' initiative,' Randera-Rees says. "Corporates are able to pay the stewards of our SWAs to maintain and restore landscapes in exchange for litres of water that they can report against their sustainability targets. "When more corporates, governments and communities recognise their dependence on the SWAs for their water, then formalised mechanisms for facilitating payment for ecosystem services can be developed,' Randera-Rees adds.

Matela says: "We would restore trillions of litres of water and the rivers would flow as they should if we could clear even one quarter of the 30000ha of wattle here in the upper ub/zimvubu River and other Extended Public Works Programmes are paid to clear imastive alien plants, so why not extend this to communities and oramisations doing the same in our

country's SWSAs?

"In areas cleared by the charcoal

country's SWSAs?

"In areas cleared by the charcoal entrepreneurs, the wattle is not re-invading the cleared areas. They have learnt how to remove it permanently and areas where they work are showing tremendous recovery."

Randera-Rees adds: "We owe a lot to the rural people living in the SWSAs."

"They are the stewards of our freshwater supply and green liftenstructure, and they are mostly financially poor rural people with very little access to services themselves, including water!"

South Africa needs to address active payment for ecosystem services, such as the freeing up of water. "The water bills we pay do not sufficiently take into account the people who are looking after the water, and a proportion of the money should go to them," says Matela. "The fee structure could be based on how much water would return to the environment per hechard eleared or managed. It is achievable and the whole process could be tightly audited."

McLeod says: "Our district municipality spends millions on contractors to put in huge piped water schemes that regularly break down as they are high-tech and rely on diesel and maintenance. It's not practical.

"Protecting the springs with simple, locally designed and locally built

Worryingly, the trees are not just using up rainwater, but groundwater organisations doing the same in our ple, locally designed and locally built

source areas.
arcoal. PMOTOS: ERS

spring capture systems offers people a safe, reliable, basic water supply in our area at very little cost."

To help address this, a WWF Ned-bank Green Trust project is partnering with Lima on the construction of 18 spring capture systems. These will offer drinking-quality water to 600 homesteads in 12 villages, where more than 4000 people live. With other funding, an additional 25 springs are being constructed. All the work on the springs is preceded by wattle removal to make sure that the water flow in the springs is maximised. "Keeping the springs flowing and healthy relies on the rehabilitation and maintenance of healthy and the healthy first the statement of the control of the capture of the capture of the control of the catchment area, which recharges the rivers and streams, forming a landscape 'sponge system', showly releases clean water throughout the year.

"Well-managed grazing systems for the cattle, sheep and goats, which are the key forms of income for people in our area, keep the grasslands and wetlands healthy, and the soil mantle intact. To do this, communities are forming rangeland associations and signing conservation agreements to forming rangeland associations and signing conservation agreements to eliminate unmanaged grazing which leads to grassland degradation and severe soil erosion."

The ERS team works in partner-ship with Matatiele's communal farmers in six chieftainships span-ing 55 rural villages to reintroduce some of the traditional methods of rotational grazing and rest, in com-bination with high-density, fast-rota-tion verified to invorce and vestore

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per five kilograms and to a business in Pietermaritzburg and Lesotho for

R2128,00 per ton. Our production model is to make 20 tons per month but we still have to scale up to that; at the moment we are making 12 tons." Production is labour-intensive and weather dependent, and they deal with theft of the wattle log and charcoal, and broken kilns. In a good month the total profit before paying salaries and expenses is about R60 000 or R18 000 per owner. Ramabele says they are passionate about making charcoal from wattle. "We want to help the environment where we are living as this wattle is growing everywhere, using a huge amount of water and invading space where the livestock should be grazing."

ing."

The charcoal teams monitor th The charcoal teams monitor the restoration of the landscape after they have cleared the wattle and treated the stumps to prevent regrowth, and regularly send photos to ERS. "They have a proper understanding of the landscape and they have managed to keep the wattle down," says Matcla. May and Ramabele studied after school but decided to return home to look after their families, due to the expense of staying in the cities and because they feel there is still a strong sense of ubuntu in their communities.

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"They are doing an amazing job in restoring the landscapes. Where wat the was growing before there is now good grass cover and moisture retenion, and soil crosion has visibly reduced," says McLeod. "But while selling the charcoal helps to make ends meet, there is no surplus for growth and to cover what they need, such as kiln replacements and herbicide."

"We are appealing at a national level for a payment for ecosystem services like this to be introduced," says Matela. "It has the potentia for multiple spin-offs, including water security, increased livelihoods and employment for young people. When you see young rural girls and boys walking down the road smiling and chatting, you wonder where they will end up, and how they can develop skills and employment for a better future. Some of them will be able to pursue higher education or find work in the cities, but what about the majority? People need to be able to make a living where they are."— WWF

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