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Economics of Agricultural Water Conservation: Empirical Analysis and Policy **Implications**

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depleted by crops. Our findings show that where water rights exist, water rights

administrators will need to guard against increased depletion of the water source in the face of growing subsidies for drip irrigation. Our approach for analyzing water conservation programmes can be applied where water is scarce, irrigation is significant, food security is important, and water conservation policies are under debate.

Acknowledgements

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Notes

- 1. Many irrigation researchers prefer the term consumption to depletion, as shown for example in Perry et al. (2009) and Hellegers et al. (2011).
- 2. The following amortization was used to translate capital into annual equivalent costs of investing in a drip irrigation system: $AP = i(CC) / [1 (1+i)^{-T}]$, where AP (annual equivalent amortization payment) = \$364; CC (unsubsidized drip irrigation system capital cost/acre) = \$2500; i (interest rate) = 7.5%; and T (system life) = 10 years.
- 3. Our approach to PMP is an example for approaching an "inverse problem", in which observe on an as

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