

Senate Rural and Regional Affairs and Transport Legislation Committee

ANSWERS TO QUESTIONS ON NOTICE

Supplementary Budget Estimates October 2006

Agriculture, Fisheries and Forestry

Question No: ABARE 01

Division/Agency: Australia Bureau of Agricultural and Resource Economics

Topic: Natural Resources - publications

Hansard Page: 59 (31/10/06)

Senator Siewert asked:

Ms Hewitt—What I was thinking more of, although when I mentioned native vegetation that was in the back of my mind, was some of the more innovative work that ABARE has been doing in the water area, on trading in options, options for water purchase and that type of thing. There is a very significant stream of work in the natural resources area that has capabilities and skills that are relevant to—

Acting Chair—Would you mind providing me with a list? I have been doing quite a bit of research in this area. I may have missed some of the reports that you are talking about.

Ms Hewitt—Certainly; I would be happy to let you see what has been published over recent times.

Acting Chair—That would be useful. I do have the one that was released in September

Answer:

The following is a list of Australia Bureau of Agricultural and Resource Economics (ABARE) research on natural resource management issues that have a particular focus on climate change:

Kokic, P., Nelson, R., Potgieter, A. and Carter, J. 2004, *An Enhanced ABARE System for Predicting Farm Performance*, ABARE eReport 04.6 Prepared for Land and Water Australia, Canberra, February.

Nelson, R. and Kokic, P. 2004, *Forecasting the Regional Impact of Climate Variability on Australian Crop Farm Incomes*, ABARE eReport 04.23 Prepared for the Grains Research and Development Corporation, Canberra, December.

Kokic, P., Heaney, A., Pechey, L., Crimp, S. and Fisher, B. 2005, *Climate Change: Predicting the Impacts on Agriculture: A Case Study*, *Australian Commodities*, vol. 12, no. 1.

Nelson, R., Kokic, P., Elliston, L. and King, J. 2005, *Structural adjustment: A Vulnerability Index for Australian Broadacre Agriculture*, *Australian Commodities*, vol. 12, no. 1.

Beare, S. and Heaney, A. 2002, '*Climate change and water resources in the Murray Darling Basin, Australia*' ABARE Conference Paper 02.11.

[SEE ATTACHMENTS A to F]

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Other recent ABARE reports dealing with natural resource management issues include:

Goesch, T., Hafi, A., Heaney, A. and Szakiel, S. 2006, *'Exit Fees and Interregional Water Trade: An Analysis of the Efficiency Impacts of Exit Fees'*, ABARE Research Report 06.5, Prepared for the Natural Resource Management Division, Australian Government Department of Agriculture, Fisheries and Forestry, Canberra, June.

Heaney, A., Goesch, T., Hafi, A. and Szakiel, S. 2006 'Interregional water trade: efficiency impacts of exit fees' *Australian Commodities*, vol. 13 no. 2, pp. 360-65.

Heaney, A., Dwyer, G., Beare, S., Peterson D. and Pechey L. 2005, *'Third-party effects of water trading & potential policy responses'*, ABARE and Productivity Commission Conference Paper, July.

Hafi, A., Beare, S., Heaney, A. and Page, S. 2005, *Water Options for Environmental Flows*, ABARE eReport 05.12, Prepared for the Natural Resource Management Division, Australian Government Department of Agriculture, Fisheries and Forestry, Canberra, November.

Heaney, A. and Hafi, A. 2005, *'Using water options to meet environmental demands'*, ABARE Conference Paper 05.03, February.

Beare, S., Hinde, R., Hillman, T., Heaney, A. and Salbe I. 2005, *'Meeting environmental outcomes. A planning framework'*, ABARE Conference Paper 05.27, November.

Beare, S., Hinde, R., Heaney, A., Che N. and Hillman, T. 2006, *'Meeting environmental demands under uncertainty'*, ABARE Conference Paper 06.09, July.

Beare, S., Heaney, A. and Pechey, L. 2006, *'Irrigation infrastructure charging: non-rival access, cost sharing and exclusion'*, ABARE Conference Paper 06.04, February.

Gordon, W., Heaney, A. and Hafi, A. 2005, *Asset fixity & environmental policy. An application to water quality management*, ABARE conference paper 05.26, November.

Hafi, A., Heaney, A. and Beare, S. 2006, *'Investment in irreversible irrigation technology under uncertainty. A case study of the Murrumbidgee Irrigation Area'*, ABARE Conference Paper 06.02, February.

Goesch, T. and Hafi, A. 2006, *Conjunctive Water Management – Economic Issues and Policy Options*, ABARE Research Report 06.19. Prepared for the Natural Resource Management Division, Australian Government Department of Agriculture, Fisheries and Forestry, Canberra, November.

Hafi, A. 2006, *Conjunctive Water Management: Economic Tools for Evaluating Alternative Policy and Management Options*, ABARE Research Report 06.20.

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Prepared for the Natural Resource Management Division, Australian Government Department of Agriculture, Fisheries and Forestry, Canberra, November.

Hafi . A., Brownlowe, N. and Welsh, W. 2006, *Groundwater and Surface Water Use in the Dumaresq River Valley: A Hydroeconomic Model*, ABARE Research Report 06.17. Prepared for the Bureau of Rural Sciences and Natural Resource Management, Australian Government Department of Agriculture, Fisheries and Forestry, Canberra, November.

Hafi , A. and Goesch, T. 2006, *Groundwater Extraction: Economic Impacts of Stream Flow Depletion in the Murray Darling Basin*, ABARE Research Report 06.18. Prepared for the Bureau of Rural Sciences, and the National Resource Management Division of the Australian Government Department of Agriculture, Fisheries and Forestry, Canberra, November.

Hodges, A. and Goesch, T. 2006, *Australian Farms: Natural Resource Management in 2004-05*, ABARE Research Report 06.12, Prepared for the Australian Government Department of Agriculture, Fisheries and Forestry, Canberra, September.

Davidson, A., Elliston, L., Kokic, P. and Lawson, K. 2005, 'Native vegetation cost of preservation in Australia', *Australian Commodities*, vol. 12 no. 3, pp. 543-548.

Davidson, A., Beare, S., Gooday, P., Kokic, P., Lawson, K. and Elliston, L. 2006, *Native Vegetation: Public Conservation on Private Land – Cost of Forgone Rangelands Development in Southern and Western Queensland*, ABARE Research Report 06.13, Canberra, September.

Davidson, A., Lawson, K., Kokic, P., Elliston, L., Nossal, K., Beare, S. and Fisher, B.S. 2006, *Native Vegetation Management on Broadacre Farms in New South Wales: Impacts on Productivity and Returns*, ABARE eReport 06.3, Canberra, March.

Copies of these reports are available on ABARE's website www.abareconomics.com.

[ABARE 01 attachments A-F – not included. Available from the committee secretariat on request]