

CHAPTER TWO

DEVELOPMENT OF A NITROUS OXIDE ROUTINE FOR THE SWAT MODEL TO ASSESS GREENHOUSE GAS EMISSIONS FROM AGROECOSYSTEMS

This paper was previously published as: Wagena, M.B., A.R. Sommerlot, E.M. Bock, D.R. Fuka, and Z.M. Easton. 2016. Development of a nitrous oxide routine for the SWAT model to assess greenhouse gas emissions from agroecosystems. *Environ. Model. Software*.

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CHAPTER THREE

IMPACT OF CLIMATE CHANGE AND CLIMATE ANOMALIES ON HYDROLOGIC AND BIOGEOCHEMICAL PROCESSES IN THE CHESAPEAKE BAY WATERSHED, USA

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CHAPTER FOUR

AGRICULTURAL CONSERVATION PRACTICES CAN HELP MITIGATE THE IMPACT OF CLIMATE CHANGE

This paper is in revision: Wagena, M.B. and Z.M. Easton. 2017. Agricultural Conservation Practices Can Help Mitigate the Impact of Climate Change. Science of the Total Environ.

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CHAPTER FIVE

QUANTIFYING STRUCTURAL MODEL UNCERTAINTY USING A MULTI-MODEL ENSEMBLE

This paper is under review: Wagena, M.B., A.R. Sommerlot, E. Buell, G. Bhatt, and Z.M. Easton. 2017. Quantifying structural model uncertainty using a multi-model ensemble. Water Res Research.

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