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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| 2000  1 year  $69,200  $25,000 match | Ag. Policies Production & Profitability | American Farmland Trust, Alliance for the Chesapeake Bay, MD  Farm Bureau | Needs Assessment and Survey Proposal | Completed | MCAE Pub 2000-01 |
| February 2001  1 year  $25,000  $25,000 match | Ag. Policies Production & Profitability | Voudrie Business Development Inc Katzen International Inc. | Ethanol Feasibility Study for the State of Maryland | Completed | MCAE Pub 2001-01 |
| February 2001  1 year  $89,000  O match | Ag. Policies Production & Profitability | Lori Lynch, J. Carpenter | Critical Mass of Agricultural Land Report | Completed | MCAE Pub 2003-01\ |
| August 2001  1 year  $27,550  $27,550 match | Ag. Policies Production & Profitability – Poultry | Kenneth Staver | Efficient Utilization of Poultry Litter in Cash Grain Rotations | Completed | MCAE Pub 2004-03 |
| October 2001  18 months  $174,000  0 match | Ag. Policies Production & Profitability- Poultry | Robert Chase, W. Musser,  B. Gardner | The Economic Contribution and Long-Term Sustainability of the Delmarva Poultry Industry | Completed | MCAE Pub 2003-02 |
| January 2002  1 year  $41,652  0 match | Ag. Policies Production & Profitability - Poultry | Roselina Angel | Field Study to Validate Research Results on Phosphorus Requirements and Use of Feed  Additives in Broilers | Completed | MCAE Pub 2005-06 |
| Feb. 2002  2 years  $25,700  $25,700 match | Ag. Policies Production & Profitability- alternative crops | Harry Swartz | Bramble Production in MD and Anticancer Effects of Bramble  Fruits on Human Colon Cancer Cells | Completed | MCAE Pub 2004-04 |
| Feb. 2002  2 years  $112,838  0 match | Ag. Policies Production & Profitability-niche markets | John Hall, R. Kratochvil, Y.M.Lo | Shore Agricultural Sustainability Program | Completed | MCAE Pub 2005-07 |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| Feb. 2002  1 year  $20,649  $25,911 match | Ag. Policies Production & Productivity- alternative crops | Jose Costa, R. Kratochvil,  A. Cooper | Screening of Barley Genotypes for Potential Ethanol Production in Maryland | Completed | See MCAE Pub 2005- 03 |
| January 2002  1 year  $141,440  O match | Chesapeake 2000 Land Preservation Commitment | Joe Tassone, E. Balsley,  L. Eisenberg, S. Martins,  R. Hall | Maximizing Return on Public Investment in Maryland’s Rural Land Preservation Programs | Completed | MCAE Pub 2004-05 |
| April 2002  1 year  $25,000  $50,000 match | Chesapeake 2000 Land Preservation Commitment – Land  Use Tools | Rob Etgen, J. Bernstein, S Taylor-Rogers, E. Perry, J. Chapman | Downzoning: Does It Protect Working Landscapes and Maintain Equity for the  Landowner? | Completed | MCAE Pub 2003-04 |
| February 2002  1 year  $60,900  0 match | Forestry Research & Assessment | Lloyd Irland, The Irland Group, A Goetzl, R. Wieland | Forest Product Industry and Forest Retention Assessment: | Completed | MCAE Pub 2004-01 |
| February 2002  2 years  $70,000  0 match | Forestry Research & Assessment – alternative crops | Marla McIntosh, D. Slak | Cultural Practices Affecting the Profitable Production of Ginseng in Different Physiographic Regions of Maryland Forests | Completed | MCAE Pub 2005-02 |
| February 2002  2 years  $44,174  0 match | Ag. Policies Production & Productivity-niche crops | Christopher Walsh, J. Hanson | The Production of Organic Apples and Asian Pears To Promote the Sustainability of Existing Orchards and as Alternative Enterprises For New  Growers | Completed | HCAE Pub 2008-02 |
| February 2002  2 years  $118,800  0 match | Ag. Policies Production & Productivity-Poultry | Dan Fisher, L. Yonkos,  M. Ottinger, S. Pollack | Poultry Litter-Associated Contaminants: Environmental Fate and Effects on Fish | Completed | MCAE Pub 2005-04 |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| April 2002 | Chesapeake 2000 Land | Sarah Taylor-Rogers, J. | Impediments to Donation of | Completed | MCAE Pub 2003-03 |
| 1 year | Preservation | Bernstein | Conservation Easements |  |  |
| $25,000 | Commitment – Land |  |  |  |  |
| 0 match | Use Tools |  |  |  |  |
| Feb. 2003 | Ag. Policies Production | Mike Heller, F. Hoefner, | To Assess and Develop | Completed | MCAE Pub 2005-05 |
| 2 years, 4 mths. | & Profitability | J. Lewis, K. Kroll, B. | Opportunities for Green |  |  |
| $59,300 |  | Butler, T. Simpson | Payments in Maryland |  |  |
| $30,850 match |  |  |  |  |  |
| February 2003 | Ag. Policies Production | Ray Weil | Multiple Benefits from Brassica | Completed | HCAE Pub 2008-03 |
| 3 years | & Profitability – Cover |  | Cover Crops and Cover Crop |  |  |
| $174,490 | Crops |  | Mixtures: Making Cover Crops |  |  |
| $179,089 match |  |  | Pay in the Chesapeake Bay |  |  |
|  |  |  | Region – Phase I |  |  |
| February 2003 | Forestry Research & | Steve Seagle | Predictive Mapping of Forest | Completed | HCAE Pub 2008-06 |
| 3 years | Assessment |  | Productivity in Western |  |  |
| $167,895 |  |  | Maryland for Carbon |  |  |
| $84,500 match |  |  | Sequestration and Timber |  |  |
|  |  |  | Production |  |  |
| March 2003 | Ag. Policies Production | Ken Staver, G. Dively | Optimizing Environmental | Draft Final Being |  |
| 3 years | & Profitability |  | Benefits from Riparian Buffers | Written |
| $189,572 |  |  | in Maryland |  |
| $180,900 match |  |  |  |  |
| March 2003 | Ag. Policies Production | Ken Staver, F. Coale, J. | Integrating Winter Cover Crops | Draft Final Being |  |
| 3 years, 7 mths | & Profitability – cover | Costa, A. Grybauskas, R. | into Maryland Agricultural | Written |
| $233,100 | crops | Kratochvil, R. Ritter, L. | Systems |  |
| $187,200 match |  | Vough, G. Dively |  |  |
| February 2003 | Chesapeake 2000 Land | Rob Etgen, American | Regional Economic | Completed | MCAE Pub 2005-01 |
| 1 year | Preservation | Farmland Trust | Development Strategy for |  |  |
| $57,000 | Commitment |  | Resource-Based Industries on |  |  |
| $25,000 match |  |  | Maryland’s Upper Eastern Shore |  |  |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| March 2003  1 year  $44,470  $12,750 match | Chesapeake 2000 Land Preservation Commitment | Lori Lynch. S. Lovell, J. Harvard | Using Agricultural and Forestry Land Values to Estimate the Budgetary Resources Needed to Triple Maryland’s Preserved  Acres | Completed | HCAE Pub 2007-04 |
| March 2003  15 months  $72,750  $7,000 match | Chesapeake 2000 Land Preservation Commitment | Sarah Taylor-Rogers, J. Dindinger, J. Chapman, C. Patterson III | Strategic Assessment and Approach to Meet the Agricultural Land Preservation and the 2000 Chesapeake Bay Agreement Land Preservation  Goals | Final report being written |  |
| March 2004  2 years  $154,318  0 match | Population Change & Impacts on Rural Areas | Bernadette Hanlon, M. Howland | The Impact of Demographic Change and the Expansion of  Urban Areas on Maryland, 1970-2000 | Completed | HCAE Pub 2007-02 |
| March 2004  1 year  $24,991  $26,079 match | Ag. Policies, Production & Profitability – alternative crops | Jose Costa, R. Kratochvil | Screening of Barley Cultivars for Potential Ethanol Production in Maryland | Completed | MCAE Pub 2005-03 |
| March 2004  2 years  $121,732  $121,378 match | Ag. Policies, Production & Profitability – cover crops | Ray Weil | Multiple Benefits from Brassica- Based Cover Crops: Making Cover Crops Pay in the Chesapeake Bay Region Phase  II | Completed. | HCAE Pub 2008-03 |
| March 2004  19 months  $86,279  0 match | Chesapeake 2000 Land Preservation Commitment-Land Use  Tools | Virginia McConnell, M. Walls | Markets for Preserving Farmland in Maryland: Making TDR Programs Work Better | Completed | HCAE Pub 2007-03 |
| March 2004  3 years  $35,970  $15,000 match | Ag. Policies Production & Profitability – niche markets | Joseph Fiola, B. Beale, R. Myers, L. Romaneo, G.R. Welsh, Jr. | Developing Alternative Fruit Crops for Maryland Regional and Niche Markets | Completed | HCAE Pub 2009-01 |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| March 2004 | Forestry Research and | Sarah Taylor-Rogers, J. | Managing Maryland’s State | Draft Final report |  |
| 15 months | Assessment | Dindinger | Forests: More than a Matter for | being written |
| $98,700 |  |  | Debate |  |
| 0 match |  |  |  |  |
| March 2004 | Ag. Policies Production | Dan Fisher, L. Yonkos | Investigation of Endocrine | Data from This |  |
| 3 years | and Profitability - |  | Disruption in Fish and | Effort will be |
| $210,150 | Poultry |  | Amphibians Exposed to Poultry | Included in Draft |
| $91,650 match |  |  | Litter-Derived Contaminants | Final Report |
|  |  |  |  | Titled: Fecal Sex |
|  |  |  |  | Steroids on |
|  |  |  |  | Delmarva: |
|  |  |  |  | Sources, ,Fates |
|  |  |  |  | and Effects- |
|  |  |  |  | Looking Beyond |
|  |  |  |  | the Poultry |
|  |  |  |  | Littler Pile.” |
|  |  |  |  | 11/2014 for Draft |
| August 2005 | Chesapeake 2000 Land | Grant Dehart, R. Etgen | The Feasibility of Successful | Completed | HCAE Pub 2007-01 |
| 1 year | Preservation |  | TDR Programs for Maryland’s |  |  |
| $62,355 | Commitment – Land |  | Eastern Shore |  |  |
| $8,855 match | Use Tools |  |  |  |  |
| August 2005 | Chesapeake 2000 Land | Jeffrey Michael, R. | Downzoning and Rural Land | Completed | MCAE Pub 2006-01 |
| 6 months | Preservation | Palmquist, G. Parsons | Markets: A Review of Two |  |  |
| $15,000 | Commitment-Land Use |  | Recent Studies in Maryland and |  |  |
| $4,211 match | Tools |  | New Jersey |  |  |
| August 2005 | Open Category-Research | Gary Felton, A. | Addressing Competition for | Final Report |  |
| 18 months | on Water Usage | Shirmohammadi, S. | Ground Water Supply by | being written |
| $109,445 |  | Kasraei, I. McCann, H. | Assessing Agricultural Irrigation |  |
| $35,825 match |  | Montas | Efficiency in the Coastal Plains |  |
|  |  |  | of MD and DE Incorporating a |  |
|  |  |  | GIS-Based Decision Support |  |
|  |  |  | System for Irrigation Scheduling |  |
|  |  |  | on a Watershed Scale |  |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| August 2005 | Forestry Research and | Robert Wieland, J. | Measuring the Values of | Completed | HCAE Pub 2008-01- |
| 1 year | Assessment | Horowitz, C. Conn | Maryland’s State-Owned |  | four reports comprise |
| $60,000 |  |  | Forests |  | the Project |
| $10,000 match |  |  |  |  |  |
| August 2005 | Ag. Policies Production | Ken Staver, J. Meisinger, | Developing an Assessment of | Final Report |  |
| 3 years | and Productivity-cover | J. Williams | Potential Reductions in Nitrate | Being Written |
| $145,460 | crops |  | Leaching from Cover Crops |  |
| $130,050 match |  |  |  |  |
| August 2005 | Chesapeake 2000 Land | Jennifer Dindinger, E. | Downzoning in Maryland: | Statistical |  |
| 1 year | Preservation | Perry, J. Chapman | Analysis of Value Retention for | Analysis Being |
| $62, 550 | Commitment-Land Use |  | Farmland in Select Counties | Prepared |
| $5,000 match | Tools |  |  |  |
| August 2005 | Open Category Land | William Lamp, K. Staver, | Restoration of Former Wetlands | Draft Final |  |
| 3 years extended | Restoration | D. Samson | on a Caroline County Farm: | Report Being |
| $184,093 |  |  | Nutrient Reduction and Biotic | Written |
| $149,811 match |  |  | Habitat Development |  |
| July 2006 | Forestry Research and | J. Perdue, C. Patterson, III | Maryland Comprehensive State | Completed | HCAE Pub 2011-02 |
| 2 years extended | Assessment |  | Forest Assessment |  |  |
| $177,000 |  |  |  |  |  |
| $195,375 match |  |  |  |  |  |
| July 2006 | Ag. Policies Production | Jose Costa, R. Kratochvil | Management and Selection of | Completed | HCAE Pub 2010-01 |
| 3 years | and Profitability – |  | Hulless Barley Cultivars in |  |  |
| $58,500 | alternative crops |  | Maryland |  |  |
| $58,550 match |  |  |  |  |  |
| July 2006 | Ag. Policies Production | Andrew Ristvey, S. | Investigating Alternative Niche | Completed | HCAE Pub 2010-04 |
| 30 months | & Profitability – Niche | Tangren | Crop Requirements for |  |  |
| $138,673 | markets |  | Sustainable Production |  |  |
| $50,250 match |  |  |  |  |  |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| July 2006 | Ag. Policies Production | Lance Yonkos, D. Fisher, | Investigation of Nitrogen, | Data from this |  |
| 3 years | & Profitability - | P. Van Veld | Phosphorus and Sex Steroid | Project to go into |
| $75,560 |  |  | Levels in Canada Goose Feces: | Draft Final |
| $26,000 match |  |  |  | Report titled: |
|  |  |  |  | “Fecal Sex |
|  |  |  |  | Steriods on |
|  |  |  |  | Delmarva: |
|  |  |  |  | Sources, Fates |
|  |  |  |  | and Effects- |
|  |  |  |  | Looking Beyond |
|  |  |  |  | the Poultry Litter |
|  |  |  |  | Pile.” 11/2014 |
|  |  |  |  | Draft Final |
| July 2006 | Chesapeake 2000 Land | James McElfish, Jr. | Maryland Farmland | Completed | HCAE Pub 2008-04 |
| 1 year | Preservation |  | Conservation: Supporting |  |  |
| $42,000 | Commitment – Land |  | Sustainable Use of Land |  |  |
| $20,000 match | Use Tools |  | Through Tax Policy |  |  |
| July 2006 | Forestry Research & | Anne Hairston-Strang, M. | Assessing Forest Buffer | Completed | HCAE Pub 2011-01 |
| 3 years | Assessment | Twery, D. Nowak, J. | Functions after Five Years |  |  |
| $82,179 |  | Davis |  |  |  |
| $81,417 match |  |  |  |  |  |
| July 2006 | Forestry Research & | Michael Panich, C. Vail, | Private/Public Financial and | Completed. | HCAE Pub 2008-05 |
| 1 year | Assessment | C. Miller, D. Rider | Organizational Mechanisms to |  |  |
| $37,395 |  |  | Initiate the Creation of new |  |  |
| $9,500 match |  |  | Markets and Expansion of |  |  |
|  |  |  | Existing Markets for the |  |  |
|  |  |  | Products made from Wood |  |  |
|  |  |  | Residues, By-Products and |  |  |
|  |  |  | Wastes |  |  |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| June 2007 | Ag. Policies Production | Josh McGrath, Frank | Managing Risk to the Public & | Data from this |  |
| 18 months | and Productivity | Coale, Chris Walsh, Dan | the Environment from Poultry | Project to go into |
| $264,338 |  | Fisher, Lance Yonkos | Litter Application and Food | Report Titled: |
| $264,338 match |  |  | Borne-Human Pathogens | “Transport and |
| HATCH |  |  |  | Fate of |
|  |  |  |  | Antibiotics and |
|  |  |  |  | Antibiotic |
|  |  |  |  | Resistant |
|  |  |  |  | Bacteria and |
|  |  |  |  | Wastewater |
|  |  |  |  | Treatment Plant |
|  |  |  |  | Effluents and an |
|  |  |  |  | Evaluation of a |
|  |  |  |  | New Subsurface |
|  |  |  |  | Litter Injector to |
|  |  |  |  | Reduce the |
|  |  |  |  | Surface Runoff |
|  |  |  |  | of Nutrients and |
|  |  |  |  | Antibiotics from |
|  |  |  |  | Agricultural |
|  |  |  |  | Fields.” 1/2015 |
|  |  |  |  | Draft Final. |
| September 2008 | Forest Research & | David Tilley, Ted Weber, | An Ecosystems-Based Approach | Completed | HCAE Pub 2013-01 |
| 3 years | Assessment | Peter May, Chris Streb, | to Developing, Simulating and |  |  |
| $145,755 |  |  | Testing a Maryland Ecological |  |  |
| $54,131 match |  |  | Investment Corporation that |  |  |
|  |  |  | Pays Forest Stewards to Provide |  |  |
|  |  |  | Ecosystem Services |  |  |
| September 2008 | Open Category – | Robert Wieland, Doug | Least Cost Supply of Nitrogen | Completed | HCAE Pub. 2010-05 |
| 1 year | Nutrient Reduction | Parker | Reduction from Two Important |  |  |
| $70,000 |  |  | Agricultural Non-point Source |  |  |
| 0 match |  |  | Best Management Practices in |  |  |
|  |  |  | Maryland |  |  |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| September 2008 | Ag. Policies Production | Ginger Myers, Luke | Processing for Profits: | Completed | HCAE Pub. 2010-02 |
| 2 years | and Productivity | Howard, Jane Storrs, Jody | Assessment and Comparison of |  |  |
| $57,166 |  | Menikheim | Regional On-Farm Processing |  |  |
| $15,509 match |  |  | Regulations to Develop a State |  |  |
|  |  |  | Food Policy that Accommodates |  |  |
|  |  |  | Small-Scale Processing |  |  |
| September 2008 | Open Category-Water | Stuart Schwartz, Michael | Baseflow Signatures of | Completed | HCAE Pub 2012-02 |
| 3 years | Supply | McGuire | Sustainable Water Resources |  |  |
| $99,493.23 |  |  |  |  |  |
| 0 match |  |  |  |  |  |
| September 2008 | Chesapeake 2000 Land | William L. Allen III, Kent | Development of a Best Practices | Completed | HCAE Pub 2011-03 |
| 20 mths. | Preservation | D. Messer | Framework for County Land |  |  |
| $58,450 | Commitment-Land Use |  | Protection Programs in |  |  |
| $69,290 match | Tools |  | Maryland: Quantifying Benefits, |  |  |
|  |  |  | Costs and Effectiveness of Land |  |  |
|  |  |  | Parcel Selection |  |  |
| September 2008 | Forest Research & | Karen Cappiella, Julie | Forests on the Fringe: | Completed | HCAE Pub 2011-07 |
| 18 mths. | Assessment | Tasillo, Lisa Fraley- | Innovative Approaches to |  |  |
| $64,540 |  | McNeal of the Center for | Increase Forest Cover in |  |  |
| $13,515 match |  | Watershed Protection | Maryland’s Developing |  |  |
|  |  |  | Watersheds |  |  |
| January 2009 | Ag. Policies Production | Bob Kratochvil, Josh | Use of Nitrogen Stabilizers with | Draft Final |  |
| 2 years | and Productivity | McGrath, Ron Mulford | N Fertilizer for Corn as a Way | Report Being |
| MHEC (State) |  |  | to Maintain Profitability While | Written |
| $67,222 |  |  | Reducing Environmental Impact |  |
| $36,042 match |  |  |  |  |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| January 2009 | Ag. Policies Production | Lance Yonkos, Dan | Investigation of Fecal Sex | Data from this |  |
| 2 ½ years | and Productivity | Fisher, Peter Van Veld | Steroid Concentrations and | Project to go into |
| MHEC (State) |  |  | Estrogenic Activity in Raw and | Draft Final |
| $39,200 |  |  | Pelletized Poultry Litter | Titled: “Fecal |
| $39,520 match |  |  |  | Sex Steroids on |
|  |  |  |  | Delmarva: |
|  |  |  |  | Sources, Fates |
|  |  |  |  | and Effects – |
|  |  |  |  | Looking Beyond |
|  |  |  |  | the Poultry Litter |
|  |  |  |  | Pile.” 11/2014 |
|  |  |  |  | for Draft Final. |
| January 2009 | Forest Research and | V. Alaric Sample, Jake | Ensuring Environmental | Completed | HCAE Pub 2010-03 |
| 1 ¾ years | Assessment | Donnay, Eric Sprague, | Safeguards Exist for Wood |  |  |
| MHEC (State) |  | Will Price (The Pinchot | Based Bio-energy Harvests |  |  |
| $82,073.81 |  | Institute) |  |  |  |
| $25,000 match |  |  |  |  |  |
| June 2009 | Ag Policies Production | Kenneth Staver, WREC; | Environmental Benefits from | Draft Final |  |
| 3 years | and Productivity – Bio- | Russell Brinsfield, | Establishing a Switchgrass | Report Being |
| $600,000 total | energy | WREC; Jack Meisinger, | Production Base in the Chester | Written |
| NFWF $300,000 with |  | USDA-ARS; Galen | River Watershed |  |
| $75,000 from Abell |  | Dively, UMD |  |  |
| Foundation, $125,000 |  |  |  |  |
| from Keith Campbell |  |  |  |  |
| Foundation, $100,000 |  |  |  |  |
| from Grayce B. Kerr Fund |  |  |  |  |
| September 2009 | Ag Policies Production | Joshua M. McGrath, | Calculating a Statewide Nutrient | Draft Final |  |
| 2 years | and Productivity – | DEST, AGNR, University | Mass Balance to Guide Strategic | Report Being |
| Federal Omnibus Bill | Nutrient Reduction – A | of Maryland | Nutrient Management Planning | Written |
| $360,160.00 | BayStat Project |  | in Maryland |  |
| $0 match |  |  |  |  |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| September 2009 | Ag Policies Production | Kenneth Staver, Wye | Assessing Progress Toward | Research Being |  |
| 3 years | and Productivity – | Research & Education | Meeting Nutrient Reduction | Conducted |
| $105,845.00 | Nutrient Reduction – A | Center, | Goals for Maryland Coastal |  |
| Omnibus Bill + | BayStat Project | AGNR University of | Plain Cropland |  |
| Town Creek Fdtn. |  | Maryland |  |  |
| $50,000, |  |  |  |  |
| MHEC (2009) $99,704, |  |  |  |  |
| MHEC 2010 $105,051 |  |  |  |  |
| $96,200 match |  |  |  |  |
| April 2010 | Ag. Policies – Risk | Christopher Walsh, Dept. | Risk Management for Testing | Completed |  |
| 1 year | Management & Nutrient | of Plant Science & | the Source of Water Used in |  |
| $15,360 | Reduction | Landscape Architecture, | Pesticide Applications for its |  |
|  |  | UMCP | Affect on Food-Borne Human |  |
|  |  |  | Pathogens Found on the Surface |  |
|  |  |  | of the Fruit |  |
| April 2010 | Ag. Policies – Nutrient | Robert Wieland, Main | Efficiency Pricing: Next Steps | Completed | HHCAE-2011-04 |
| 1 year | Reduction | Street Economics and |  |  |  |
| $71,000 |  | Doug Parker, Dept. of |  |  |  |
|  |  | Agricultural & Resource |  |  |  |
|  |  | Economics, UMCP |  |  |  |
| April 2010 | Ag. Policies – Nutrient | Daniel J. Fisher, Lance T. | Transport and Fate of | Draft Final |  |
| 3 years | Reduction | Yonkos, and Kenneth W. | Antibiotics and Antibiotic | Report 1/2015 |
| $322,203 |  | Staver, all from Wye | Resistant Bacteria from Poultry | Expected. |
| $58,500 (match) |  | Research and Education | Litter, Biosolids and Wastewater |  |
|  |  | Center, UMCP with | Treatment Plant Effluents and |  |
|  |  | Michael T. Meyer USGS | an Evaluation of a New |  |
|  |  | in Kansas and A.K. | Subsurface Litter Injector to |  |
|  |  | Leight, NOAA, Oxford | Reduce the Surface Runoff of |  |
|  |  | MD | Nutrients and Antibiotics from |  |
|  |  |  | Agricultural Fields |  |
| July 2011 | Ag. Policies – Poultry | Drs. Dan Fisher, Lance | Assessing Arsenic in Poultry | Completed | HCAE Pub 2011-05 |
| 6 months |  | Yonkos, Ken Staver | Litter – Requested by General |  |  |
| $50,000 MHEC |  |  | Assembly to determine |  |  |
| 0 Match |  |  | environmental impacts |  |  |

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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| July 2011 | Land Use & Growth | H. Grant Dehart | Identifying Key | Completed | HCAE Pub 2011-06 |
| 6 months | Management |  | Recommendations to Proffer to |  |  |
| $50,000 MHEC |  |  | Governor O’Malley and the |  |  |
| $ 0 Match |  |  | General Assembly that will be |  |  |
|  |  |  | key action steps to support the |  |  |
|  |  |  | Governor’s Sustainability |  |  |
|  |  |  | Agenda and PlanMaryland |  |  |
| October 2013 | Ag. Policies - Risk | Drs. Dan Fisher, Lance | Building Upon The Use Of |  |  |
| 1 year | Management & Nutrient | Yonkos, Ms. Friedel and | Composting as a Tool for |
| $50,000 | Reduction | Ms. Kirsten Harbom | Reducing Contaminants in |
| $ 0 Match |  |  | Biosolids. |
| February 2014 | Land Use & Growth | Jim Baird AFT, Joe | The Future of Sustainable |  | HCAE Pub 2011-06 |
| 2 years | Management | Tassone, MDP, Greg | Farming and Forestry in |
| $133,490 MHEC |  | Bowen Consultant, Peter | Maryland |
| $7,860 Match |  | Claggett USGS, Dr. Erik |  |
|  |  | Lichtenberg, UMD- |  |
|  |  | AREC, Neil Sampson |  |
|  |  | Consultant |  |
| May 1, 2015 | Land Use and Growth | Donald C. Outen, AICP, | A Watershed-Based |  |  |
| 18 months (1 ½ years) | Management | NRM, Forest Management | Collaborative Stewardship |
| $73, 500.00 Center |  | & Sustainability, Dept. of | Approach for Management of |
| Research Dollars |  | Environmental Protection | Forest and Agricultural |
| Match 431 in-kind hours |  | & Sustainability of | Resources |
| from Prettyboy Resource |  | Baltimore County along |  |
| Collaborative plus $25,000 |  | with the Prettyboy |  |
| DNR, $20,000 MDA, Pro- |  | Resource Collaborative |  |
| Bono Service from Hogan- |  | Steering Committee |  |
| Lovelis US LLC, |  |  |  |
| $500,000 Baltimore |  |  |  |
| County, EPS |  |  |  |

|  |  |  |  |  |  |
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| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| May 1, 2015 | Ag. Policies-Production | Jospeh Tassone from the | Support for and Obstacles to a |  | HCAE Pub 2016-01 |
| 1 year | and Productivity | Maryland Department of | Chesapeake Regional Food |
| $30,000 of which $30,000 |  | Planning & Mr. Greg | System – establishing a process |
| is from The Town Creek |  | Bowen of Land | to assess laws, regulations and |
| Foundation |  | Stewardship Solutions, | policies affecting this |
|  |  | LLC plus an Attorney | establishment |
| September 14, 2015 | Ag. Policies-Poultry | Solutions from the Land | Delmarva Land and Litter |  |  |
| 1 year |  | with Ernie Shea facilitator | Challenge: Win-Win Pathways |
| $10,000 provided and |  |  | for Agriculture and the |
| matched by other dollars |  |  | Peninsula’s Waterways |
| in the amount of $65,000 |  |  |  |
| from numerous |  |  |  |
| environmental and ag |  |  |  |
| Partners |  |  |  |
|  |  |  |  |  |  |
| 2016  $50,000 – with funding from the Town Creek Foundation | Ag. Policies – Production and Productivity | Joseph Tassone, Greg Bowen, Nathan Bowen | Health, Safety and Welfare? A report on the Factors that Favor or Hinder the Flow of Local Food in the Chesapeake Bay Region |  | HCAE Pub 2017-01 |
| Feb. 2018  1 year  $222,453 – with funding from the Town Creek Foundation | Ag – Food Policy | Phil Gottswals, ACDS, LLC  Christine Bergmark, Town Creek Foundation  Joe Tassone | Chesapeake Foodshed Assessment |  |  |
| Sept. 11, 2017  $13,000 | Ag- Cover Crops | Dr. Tom Fisher, UMD Center for Environmental Science | Extra funding to complete cover crop research in a five-year project in the Choptank River watershed. |  |  |
| 2018  2 years  $126,914 | Ag | Dr. Kate Tully, UMD AGNR | Adapting Cropping Systems To Saltwater Intrusion to Balance Economic Viability and Environmental Health |  |  |
| 2018  4 years  $31,900 | Ag | Lindsay Thompson, Maryland Grain Producers | Promoting the Economic and Environmental Benefits of Multi-Species Cover Crops |  |  |
| 2018  3 years  $150,000 | Forestry | Jonathan Kays, UMD Extension  Agnes Kedmenecz, UMD Extension  Criag Highfields, Alliance for the Bay | Improving Forest Health of Small-Acreage Properties through Service Provider Training and Landowner Education |  |  |
| **Approval Date Duration**  **Amount** | **Category** | **Principal Investigator** | **Project Title** | **Report Status** | **Report Received and Published** |
| 2018  $249,000  2 years | Ag | Dr. Gurpal Toor, UMD AGNR | Optimizing Nutrient Use and Reducing Losses in Crop Production Systems in the Chesapeake Bay Watershed |  |  |
| 2019  $400,252  5 years | Ag | Dr. Gurpal Toor, UMD AGNR  Dr. Keith Paustian, Colo. State University  Yun-Ya Yang, UMD | Assessing the Effectiveness of Soil Health Practices in Enhancing Soil Organic Carbon in Maryland |  |  |

Sept. 11, 2017, Motion to approve request from Delmarva Land and Litter Challenge for

$5,000 to support operations as described in the distributed letter.

Sept. 12, 2016 - $10,000, Erniue Shea, Natural Resource Solutions LLC, gave update on the DLLC and request additional funding,