**BRYAN GENE HOPKINS**

CURRICULUM VITAE

**RANK:** Professor, Brigham Young University

**DEPARTMENT:** Plant and Wildlife Sciences

**OFFICE LOCATION:** 5117 LSB **OFFICE PHONE:** 801-422-2185 Provo, UT 84602

**EMAIL:** hopkins@byu.edu

**WEB:** http://lifesciences.byu.edu/home/FacStaff/default.aspx?ID=293

# EDUCATION:

### Degrees:

1995 Ph.D. Agronomy Kansas State University, Manhattan, KS

1991 M.S. Agronomy and Horticulture Brigham Young University, Provo UT.

1990 B.S. Agronomy and Horticulture Brigham Young University, Provo UT.

1988 A.A. Horticulture Ricks College, Rexburg, ID

### Certificates:

1991-present Certified Professional Soil Scientist (CPSSc), Soil Science Society of America,

# EXPERIENCE:

### Academic Appointments:

Environment Science of Managed Landscapes, Professor, Brigham Young University, Provo, UT, 50% teaching/45% research/5% citizenship, 10 month appointment

\*2012-present Professor & Director of BYU Environmental Analytical Lab

\*2007-2012 Associate Professor

Soil Scientist and Cropping Systems Specialist, University of Idaho, Idaho Falls, ID,   
80% extension/20% research and citizenship, 2001-2007

Research Assistant/Lab Manager, Kansas State University, Manhattan, KS, 1991-1995

Research/Teaching Assistant, BYU, Provo, UT, 1990-1991

### Non-Academic Employment:

Director of Education Division & Lab Consultant, Servi-Tech, Inc., Blackfoot, ID, 1998-2001

Laboratory Director/Agronomist, Stukenholtz Laboratories, Twin Falls, ID, 1997-1998

Laboratory Director/Agronomist, Servi-Tech, Inc., Hastings, NE, 1995-1997

Foreman and Research Assistant, Utah Power & Light Wastewater Research Farm, Castle Dale and Huntington, UT, 1989

**Consulting:**

1994-present, partial list of clients includes:   
Progressive Plants, Brigham Young University, Democratic Republic of the Congo, John Deere, Floratine, Aquatrols, Pizza Hut, Honeywell, Pioneer Hi-Bred International, DOW Chemical, Agrium, Georgia Pacific, Helena Chemical, Scotts Miracle-Gro Company, Manitoba Potato Growers, Alberta Potato Growers, RD Offutt and many other farm corporations, Nutrient-Soil-Water Management Continuing Education, as well as a variety of other corporations and municipalities, golf courses, sports field facilities, etc.

# TEACHING:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Semester | Course | Course Name | Cr | Enrollment |
|  |  | **TRADITIONAL COURSES (BYU)** |  |  |
| F07 | PWS 319 | Turfgrass Science | 2.0 | 43 |
| F07 | PWS 402 | Urban Soil & Water Management | 4.0 | 35 |
| W08 | PWS 100 | Living with Plants (Botany) | 3.0 | 41 |
| F08 | PWS 319 | Turfgrass Science | 2.0 | 46 |
| W09 | PWS 150 | Environmental Biology | 3.0 | 114 |
| W09 | PWS 402 | Urban Soil & Water Management | 4.0 | 38 |
| F09 | PWS 319 | Turfgrass Science | 2.0 | 40 |
| F09 | PWS 511 | Environmental Biophysics (Soil & Plant Water Relations) | 3.0 | 15 |
| W10 | PWS 150 | Environmental Biology | 3.0 | 108 |
| W10 | PWS 402 | Urban Soil & Water Management | 4.0 | 42 |
| SU10 | PWS 150 | Environmental Biology | 3.0 | 43 |
| F10 | PWS 318 | Sports Turfgrass Science | 2.0 | 21 |
| F10 | PWS 319 | Turfgrass Science | 2.0 | 46 |
| W11 | PWS 150 | Environmental Biology | 3.0 | 59 |
| W11 | PWS 402 | Urban Soil & Water Management | 4.0 | 36 |
| F11 | PWS 318 | Sports Turfgrass Science | 2.0 | 18 |
| F11 | PWS 319 | Turfgrass Science | 2.0 | 31 |
| F11 | PWS 511 | Environmental Biophysics (Soil & Plant Water Relations) | 4.0 | 7 |
| W12 | PWS 150 | Environmental Biology (sec 001) | 3.0 | 122 |
| W12 | PWS 150 | Environmental Biology (sec 002) | 3.0 | 143 |
| W12 | PWS 402 | Urban Soil & Water Management | 4.0 | 59 |
| F12 | PWS 318 | Sports Turfgrass Science | 2.0 | 7 |
| F12 | PWS 319 | Turfgrass Science | 2.0 | 24 |
| F12 | PWS 283 | Soil Science Laboratory | 1.0 | 20 |
| F12 | PWS 283 | Soil Science Laboratory | 1.0 | 20 |
| F12 | PWS 283 | Soil Science Laboratory | 1.0 | 19 |
| W13 | PWS 402 | Urban Soil & Water Management | 4.0 | 22 |
| W13 | PWS 283 | Soil Science Laboratory | 1.0 | 18 |
| W13 | PWS 283 | Soil Science Laboratory | 1.0 | 15 |
| W13 | PWS 283 | Soil Science Laboratory | 1.0 | 14 |
| F13 | PWS 283 | Soil Science Laboratory | 1.0 | 26 |
| F13 | PWS 283 | Soil Science Laboratory | 1.0 | 26 |
| F13 | PWS 319 | Turfgrass Science | 3.0 | 27 |
| F13 | PWS 405 | Environmental Chemistry Lab 1 | 1.0 | 6 |
| F13 | PWS 560 | Quantitative Environmental Chemistry | 2.0 | 10 |
| W14 | PWS 283 | Soil Science Laboratory | 1.0 | 19 |
| W14 | PWS 283 | Soil Science Laboratory | 1.0 | 14 |
| W14 | PWS 402 | Urban Soil & Water | 3.0 | 28 |
| W14 | PWS 406 | Environmental Chemistry Lab 2 | 1.0 | 6 |
| F14 | PWS 283 | Soil Science Laboratory | 1.0 | 30 |
| F14 | PWS 283 | Soil Science Laboratory | 1.0 | 24 |
| F14 | PWS 319 | Turfgrass Science | 3.0 | 19 |
| F14 | PWS 405 | Environmental Chemistry Lab 1 | 1.0 | 3 |
| F14 | PWS 560 | Quantitative Environmental Chemistry | 2.0 | 3 |
| W15 | PWS 283 | Soil Science Laboratory | 1.0 | 22 |
| W15 | PWS 283 | Soil Science Laboratory | 1.0 | 9 |
| W15 | PWS 402 | Urban Soil & Water | 3.0 | 21 |
| W15 | PWS 406 | Environmental Chemistry Lab 2 | 1.0 | 9 |
| W15 | PWS 660 | Environmental Site Evaluation | 2.0 | 5 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Semester | Course | Course Name | Cr | Enrollment |
|  |  | **TRADITIONAL COURSES (BYU) (continued)** |  |  |
| F15 | PWS 282 | Introduction to Soil Science | 3.0 | 46 |
| F15 | PWS 283 | Soil Science Laboratory | 1.0 | 20 |
| F15 | PWS 283 | Soil Science Laboratory | 1.0 | 14 |
| F15 | PWS 319 | Turfgrass Science | 3.0 | 31 |
| F15 | PWS 405 | Environmental Chemistry Lab 1 | 1.0 | 4 |
| F15 | PWS 560 | Quantitative Environmental Chemistry | 2.0 | 5 |
| W16 | PWS 283 | Soil Science Laboratory | 1.0 | 26 |
| W16 | PWS 283 | Soil Science Laboratory | 1.0 | 8 |
| W16 | PWS 402 | Urban Soil & Water | 3.0 | 25 |
| W16 | PWS 406 | Environmental Chemistry Lab 2 | 1.0 | 4 |
| W16 | PWS 660 | Environmental Site Evaluation | 2.0 | 5 |
| F16 | PWS 282 | Introduction to Soil Science | 3.0 | 82 |
| F16 | PWS 283 | Soil Science Laboratory | 1.0 | 31 |
| F16 | PWS 283 | Soil Science Laboratory | 1.0 | 31 |
| F16 | PWS 319 | Turfgrass Science | 3.0 | 23 |
| F16 | REL A 121 | The Book of Mormon | 2.0 | 53 |
| W17 | PWS 283 | Soil Science Laboratory | 1.0 | 1 |
| W17 | PWS 283 | Soil Science Laboratory | 1.0 | 24 |
| W17 | PWS 402 | Urban Soil & Water | 3.0 | 32 |
| W17 | PWS 406 | Environmental Chemistry Lab 2 | 1.0 | 7 |
| F17 | PWS 283 | Soil Science Laboratory-1 | 1.0 | 27 |
| F17 | PWS 283 | Soil Science Laboratory-2 | 1.0 | 22 |
| F17 | PWS 319 | Turfgrass Science | 3.0 | 27 |
| F17 | REL A 121 | The Book of Mormon | 2.0 | 42 |
| W18 | PWS 283 | Soil Science Laboratory-1 | 1.0 | 26 |
| W18 | PWS 283 | Soil Science Laboratory-2 | 1.0 | 12 |
| W18 | PWS 402 | Urban Soil & Water -1 | 3.0 | 27 |
| W18 | PWS 402 | Urban Soil & Water -2 | 3.0 | 7 |
| W18 | PWS 560 | Quantitative Environmental Chemistry | 2.0 | 10 |
| F17 | PWS 283 | Soil Science Laboratory-1 | 1.0 | 30 |
| F17 | PWS 283 | Soil Science Laboratory-2 | 1.0 | 24 |
| F17 | PWS 319 | Turfgrass Science | 3.0 | 22 |
|  |  |  |  |  |
|  |  |  |  |  |
| Semester | Course | Course Name | Cr | Enrollment |
|  |  | **R COURSES - LECTURE** |  |  |
| F08 | PWS 198R | Sports Turfgrass Science interns | 0.5 | 8 |
| F08 | PWS 390R | Sports Turfgrass Science course | 1.0 | 4 (5 audit) |
| F08 | PWS 494R | Special Topics: Soil & Water | 3.0 | 6 |
| F09 | PWS 198R/390R | Sports Turfgrass Science | 0.5/1.0 | 3/16 |
| F10 | PWS 390R | Leadership Principles/PWS Clubs | 1.0 | 22 |
| W11 | PWS 390R | Leadership Principles/PWS Clubs | 1.0 | 19 |
| F12 | PWS 390R | Analytical Laboratory Principles | 1.0 | 8 |
| W13 | PWS 390R | Soil Plant & Water Science Lab | 1.0 | 1 |
| W13 | PWS 494R | Soil Plant & Water Science Lab | 1.0 | 1 |
| F16 | PWS 494R | Soil Plant & Water Science Lab | 6.0 | 5 |
| W17 | PWS 494R | Special Topics: Soil & Water | 3.0 | 4 |
| SP17 | PWS 390R | Urban Agriculture | 0.5/1.0 | 7 |
| SU17 | PWS 390R | Urban Agriculture | 1.0/2.0 | 3 |
| W18 | PWS 390R | Sports Turfgrass Science | 1.0/3.0 | 2 |
| W18 | PWS 494R | Soil Plant & Water Science Lab | 2.0/3.0 | 2 |
| F18 | PWS 390R | Urban Agriculture | 1.0/3.0 | 10 |
|  |  | **R COURSES - RESEARCH** |  |  |
| W11 | PWS 697R | Research | 2.0 | 1 |
| W14 | PWS 598R | Advanced Topics | 3.0 | 1 |
| F14 | PWS 598R | Advanced Topics | 3.0 | 1 |
| F15 | PWS 598R | Advanced Topics | 3.0 | 1 |
| W16 | PWS 598R | Advanced Topics | 3.0 | 2 |
| F16 | PWS 598R | Advanced Topics | 3.0 | 5 |
| W17 | PWS 598R | Advanced Topics | 3.0 | 2 |
| F07-SP18 | BIOL/PWS/LFSCI 494R | Mentored Research | 1-6 | 81 |
| F07- F18 | PWS 699R | Master’s Thesis | 6.0 | 45 |
| W18 | PWS 598R | Advanced Topics | 1.0 | 1 |

### University Courses: Previous Positions

Directed Studies: Potato Cropping Systems, PLSC 502, UI, Idaho Falls, ID, 2005

Special Topics: Nutrient Interactions, PLSC 404, UI, Idaho Falls, ID, 2004

Soil Fertility Lab, AGHORT 306, BYU, Provo, UT, 1990-91

Saline-Sodic Soils Lab, AGHORT 520, BYU, Provo, UT, 1991

Agricultural Computing Lab, AGHORT 240, BYU, Provo, UT, 1988-89

### Graduate Students—Major Advisor:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SURNAME | FIRST | DEGREE | YEARS | | |
| Bowen | Tom | M.S. (UI) | 2003 | - | 2011‡ |
| Cook | Aaron | M.S. (UI) | 2004 | - | 2011‡ |
| Barben | Steve | M.S.(co-advise) | 2007 | - | 2009 |
| McNulty | Patrice | M.S. | 2007 | - | 2010 |
| LeMonte | Joshua | M.S. | 2009 | - | 2011 |
| Blaser | Greg | Ph.D.(co-advise) | 2003 | - | 2012 |
| Summerhays | Jeffrey Sean | M.S. | 2009 | - | 2012 |
| Hill | Micheal | M.S.(co-advise) | 2011 | - | 2012 |
| Buck | Rachel | M.S. | 2012 | - | 2013 |
| Katseanes | Chelsea | M.S. | 2012 | - | 2014 |
| Ransom | Curtis | M.S. | 2012 | - | 2014 |
| Gervais | Emily | M.S. | 2013 | - | 2015 |
| Taysom | Trent | M.S. (UI) | 2005 | - | 2015 |
| Buss | Jessica | M.S. | 2014 | - | 2016 |
| Svedin | Jeffrey | M.S. | 2016 | - | 2018 |
| Nelson | Shannon | M.S. | 2016 | - | present |
| Woolley | Elisa Anne | M.S. | 2018 | - | present |
| ‡inactive, did not graduate | | | | | |

### Graduate Students—Committee Member:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SURNAME | FIRST | DEGREE | University | YEARS | | |
| Watt | Dan | M.S. | UI | 2003 | - | 2004 |
| Myer | Penny | M.S. | UI | 2003 | - | 2005 |
| Taberna | John | Ph.D. | UI | 2003 | - | 2006‡ |
| Jackson | Chad | M.S. | UI | 2006 | - | 2007 |
| Sweetwood | Ryan | M.S. | BYU | 2007 | - | 2008 |
| Madsen | Matthew | Ph.D. | BYU | 2007 | - | 2010 |
| Young | Kert | Ph.D. | BYU | 2007 | - | 2012 |
| Jones | Covy | M.S. | BYU | 2008 | - | 2011 |
| Rogers | Maile | Ph.D. (eng.) | BYU | 2008 | - | 2013 |
| Pletsch-Jones | Mary | M.S. | BYU | 2009 | - | 2011 |
| Buck | Joshua | M.S. | BYU | 2010 | - | 2012 |
| Cline | Nathan | Ph.D. | BYU | 2010 | - | 2014 |
| Bergsten | Steve | M.S. | BYU | 2011 | - | 2013 |
| Fernelius | Kaitlynn | M.S. | BYU | 2011 | - | 2013 |
| Jacobson | Doug | M.S. | BYU | 2011 | - | 2016 |
| Carroll | Alex | M.S. | BYU | 2013 | - | 2015 |
| Ulmer | Austin | M.S. | BYU | 2013 | - | 2015 |
| Pearce | Austin | M.S. | BYU | 2014 | - | 2017 |
| Brown | Bryce | M.S. | BYU | 2016 | - | 2016 |
| Priebe | Brian | Ph.D. (eng.) | BYU | 2016 | - | present |
| Evans | Shane | M.S. | USU | 2017 | - | present |
| Parkinson | Morgan | M.S. | BYU | 2017 | - | present |
|  | | ‡inactive, did not graduate | | | | |

### Undergraduate Students Mentored as Research Assistants:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SURNAME | FIRST | YEARS | | | SURNAME | FIRST | YEARS | | |
| Callahan | Ryan | 2007 | - | 2007 | Barrett | John | 2010 | - | 2010 |
| Chariton | Nicholas | 2007 | - | 2007 | Hardy | Grant | 2010 | - | 2010 |
| Clarke | Richard | 2007 | - | 2007 | Kemmer | Ben | 2010 | - | 2010 |
| Gerber | Perrin | 2007 | - | 2007 | King | James | 2010 | - | 2010 |
| Glenn | Brian | 2007 | - | 2007 | Perry | Devin | 2010 | - | 2010 |
| Greenwood | Brian | 2007 | - | 2007 | Relf | Brandon | 2010 | - | 2010 |
| Roueche | Megan | 2007 | - | 2007 | Hamilton | Matthew | 2010 | - | 2011 |
| Banfield | John | 2007 | - | 2008 | Katseanes | Chelsea | 2010 | - | 2011 |
| Marcroft | Kelly | 2007 | - | 2008 | LeMonte | Sarah | 2010 | - | 2011 |
| Warner | Devin | 2007 | - | 2008 | Ransom | Curtis | 2010 | - | 2011 |
| Beckett | Travis | 2007 | - | 2009 | Story | Tobin | 2010 | - | 2012 |
| Christensen | Ryan | 2007 | - | 2009 | Wankier | Preston | 2010 | - | 2012 |
| LeMonte | Joshua | 2007 | - | 2009 | Hopkins | Tyler | 2010 | - | 2018 |
| Nichols | Brandt | 2007 | - | 2009 | Bergsten | Steve | 2011 | - | 2011 |
| Gish | James | 2007 | - | 2012 | Dix | Wray | 2011 | - | 2011 |
| Bulkley | Kate | 2008 | - | 2008 | Hales | Michael | 2011 | - | 2011 |
| Buck | Joshua | 2008 | - | 2009 | Rankin | Adriana | 2011 | - | 2011 |
| Reese | David | 2008 | - | 2009 | Ransom | Heather | 2011 | - | 2011 |
| Summerhays | Jeffrey Sean | 2008 | - | 2009 | Schrieber | Charles | 2011 | - | 2011 |
| Babbel | Lee | 2008 | - | 2010 | Smith | Kileen | 2011 | - | 2011 |
| Padilla | Heather | 2008 | - | 2010 | Spratling | Trenton | 2011 | - | 2011 |
| Buxton | Emily | 2008 | - | 2011 | Cartozian | Alyssa | 2011 | - | 2012 |
| Blaylock | Austin | 2009 | - | 2009 | Hill | Jeremy | 2011 | - | 2012 |
| Bond | Jason | 2009 | - | 2009 | Hoki | Glenna | 2011 | - | 2012 |
| Bradshaw | Eric | 2009 | - | 2009 | Mason | Greg | 2011 | - | 2012 |
| Coleman | Ashley | 2009 | - | 2009 | Packer | Katie | 2011 | - | 2012 |
| Niedfedt | Emily | 2009 | - | 2009 | Sleight | Rachel | 2011 | - | 2012 |
| Patrick | Ashton | 2009 | - | 2009 | Winchester | Adam | 2011 | - | 2013 |
| Schloemer | Steven | 2009 | - | 2009 | Sutton | Lloyd | 2011 | - | 2014 |
| Tulley | Nikki | 2009 | - | 2009 | Blair | Trenton | 2011 | - | 2015 |
| Wade | Joshua | 2009 | - | 2009 | Hosford | Paul | 2012 | - | 2012 |
| Washburn | Jacob | 2009 | - | 2009 | Kirk | Aaron | 2012 | - | 2012 |
| Winegar | Allie | 2009 | - | 2009 | Lyon | Chris | 2012 | - | 2012 |
| Bond | Daniel | 2009 | - | 2010 | Olson | Brigg | 2012 | - | 2012 |
| Haskell | Christopher | 2009 | - | 2010 | Peaden | Steven | 2012 | - | 2012 |
| Fernelius | Kaitlynn | 2009 | - | 2011 | Bradshaw | Derek | 2012 | - | 2013 |
| Hill | Michael | 2009 | - | 2011 | Carroll | David | 2012 | - | 2013 |
| Brown | Tabitha | 2009 | - | 2012 | Hofheins | Amy | 2012 | - | 2013 |
| Babbel | Justin | 2010 | - | 2010 | Manning | Karen | 2012 | - | 2013 |
| SURNAME | FIRST | YEARS | | | SURNAME | FIRST | YEARS | | |
| McLane | Kathryn | 2012 | - | 2013 | Erikson | Alexander | 2017 | - | 2017 |
| Moody | Justin | 2012 | - | 2013 | Eyler | Raquel | 2017 | - | 2017 |
| Nelson | Spencer | 2012 | - | 2013 | Franchino | Rebecca | 2017 | - | 2017 |
| Black | Beth | 2012 | - | 2015 | Frei | Rebecca | 2017 | - | 2017 |
| Smith | Melissa | 2012 | - | 2015 | Gruwel | Trevor | 2017 | - | 2017 |
| Arnold | Casey | 2013 | - | 2013 | Haddock | Tandra L. | 2017 | - | 2017 |
| Carroll | Alex | 2013 | - | 2013 | Jensen | Kurt | 2017 | - | 2017 |
| Freddy | Brett | 2013 | - | 2013 | Leavitt | Paul | 2017 | - | 2017 |
| Fredericksen | Brett | 2013 | - | 2013 | Marion | Rachel | 2017 | - | 2017 |
| Houston | Kayla | 2013 | - | 2013 | Neeley | Ruthe | 2017 | - | 2017 |
| Mariana | Valerie | 2013 | - | 2013 | Rose | Emma | 2017 | - | 2017 |
| Swainston | Sarah | 2013 | - | 2013 | Silvester | Shannon | 2017 | - | 2017 |
| Taylor | Brett | 2013 | - | 2013 | Stratton | Marie | 2017 | - | 2017 |
| Taylor | Samuel | 2013 | - | 2013 | Thacker | Mitch | 2017 | - | 2017 |
| Wear | Ben | 2013 | - | 2013 | Walker | Joe | 2017 | - | 2017 |
| Randell | Sam | 2013 | - | 2014 | Whitmore | Edward | 2017 | - | 2017 |
| Selman | Jacob | 2013 | - | 2014 | Valentine | Giselle | 2017 | - | 2017 |
| Yancey | Katherine | 2013 | - | 2014 | Billin | Tansy | 2017 | - | 2018 |
| Pumphrey | Blake | 2013 | - | 2014 | Malmfeldt | Madeleine | 2017 | - | 2018 |
| Albright | John | 2013 | - | 2015 | Nistler | Bridget | 2017 | - | 2018 |
| Buss | Jessica | 2013 | - | 2015 | Phillips | Sierra | 2017 | - | 2018 |
| Williams | Staci | 2013 | - | 2015 | Porter | Carlysle | 2017 | - | 2018 |
| Sion | Marta | 2013 | - | 2016 | Porter | Warren | 2017 | - | 2018 |
| Svedin | Jeff | 2013 | - | 2016 | Zeyer | Spencer | 2017 | - | 2018 |
| Baker | Jenna | 2014 | - | 2014 | Ball | Lindsay | 2018 | - | 2018 |
| Cates | Lakin | 2014 | - | 2015 | Barney | Tate | 2018 | - | 2018 |
| Pearce | Austin | 2014 | - | 2015 | Lambert | Austen | 2018 | - | 2018 |
| Pryor | Mowava | 2014 | - | 2015 | Meadows | Emily | 2018 | - | 2018 |
| Lambert | Cameron | 2014 | - | 2016 | Perryman | Katie | 2018 | - | 2018 |
| Russell | Kerri | 2014 | - | 2016 | Peo | Alley | 2018 | - | 2018 |
| Ruth | Miranda | 2014 | - | 2016 | Phipps | John | 2018 | - | 2018 |
| Nelson | Shannon | 2015 | - | 2016 | Selfaison | Kyle | 2018 | - | 2018 |
| Davidson | Jorgen | 2015 | - | 2017 | Woo | Yee Ki | 2018 | - | 2018 |
| Hopkins | Austin | 2015 | - | 2017 |  |  |  |  |  |
| Neville | Bretton | 2015 | - | 2017 | Hopkins | Tyler | 2016 | - | Present |
| Nielson | Landon | 2015 | - | 2017 | Valencia | Maria | 2016 | - | Present |
| Parkinson | Morgan | 2015 | - | 2017 | Cole | David | 2017 | - | Present |
| Patch | Leika | 2015 | - | 2017 | DiNuzzo | Eleanor Neeley | 2017 | - | Present |
| Petersen | Wyatt | 2015 |  | 2017 | Norris | Adam | 2017 | - | Present |
| Phelan | Samuel | 2015 | - | 2017 | Pedigo | Ashley | 2017 | - | Present |
| Rosell | Jordan | 2015 | - | 2017 | Summerhays | Sara | 2017 | - | Present |
| (Lowe) Tyler | Andrea | 2015 | - | 2017 | Binns | Mikayla | 2018 | - | Present |
| Lallatin | Madison | 2015 | - | 2018 | Blackwelder | Jake | 2018 | - | Present |
| Luymes | Andrew | 2015 | - | 2018 | Broadhead | Cameron | 2018 | - | Present |
| Sudweeks | Ivy | 2015 | - | 2018 | Christensen | Whitney | 2018 | - | Present |
| Beck | Colton | 2016 | - | 2017 | Crandall | Sara | 2018 | - | Present |
| Black | Holly | 2016 | - | 2017 | Dzubeck | Emily | 2018 | - | Present |
| Bound | Melissa Jo | 2016 | - | 2017 | Errigo | Isabella Marie | 2018 | - | Present |
| Christensen | Kyrie | 2016 | - | 2017 | Frei | Rebecca | 2018 | - | Present |
| Geary | Nelson | 2016 | - | 2017 | Hoyt | Rieley Davis | 2018 | - | Present |
| Hastriter | Adam | 2016 | - | 2018 | Jorgensen | Emily Lokelani | 2018 | - | Present |
| Koon | Natalie | 2016 | - | 2017 | Keightley | Michael | 2018 | - | Present |
| Ricks | Warren | 2016 | - | 2017 | Morris | Angel | 2018 | - | Present |
| Shipp | Eric | 2016 | - | 2017 | Newman | Jessica Ann | 2018 | - | Present |
| Sorensen | Peter | 2016 | - | 2017 | Nistler | Bridget | 2018 | - | Present |
| Crosland | Marco | 2017 | - | 2017 | Phipps | John Daniel | 2018 | - | Present |
| Crump | Wesley | 2017 | - | 2017 | Schaerr | Elisabeth | 2018 | - | Present |
| Douglas | Carson D. | 2017 | - | 2017 | Scheuller | Jordynn | 2018 | - | Present |
| SURNAME | FIRST | YEARS | | | SURNAME | FIRST | YEARS | | |
|  |  |  |  |  | Stapley | Samuel | 2018 | - | Present |
|  |  |  |  |  | Tanner | Kaylee Brook | 2018 | - | Present |
|  |  |  |  |  | Thompson | Megan | 2018 | - | Present |
|  |  |  |  |  | Wood | Emily | 2018 | - | Present |
|  |  |  |  |  | Woolley | Roger | 2018 | - | Present |
|  |  |  |  |  | Vargas | Maria Camila | 2018 | - | Present |
|  |  |  |  |  | Heller | Meg | 2019 | - | Present |

# SCHOLARSHIP:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Publications and Presentations Summary for Bryan Hopkins** | | | | | | | |
|  | **Hopkins’ Graduate Student First Author** | **Hopkins’ Undergraduate Student**  **First**  **Author** | **Other Graduate Student First Author** | **Other Undergraduate Student**  **First**  **Author** | **Hopkins First Author** | **Co-author** | **Total** | |
| **Refereed Journal** | 14 | 3 | 14 |  | 14 | 7 | **52** | |
| **Editor Reviewed Journal** |  | 2 |  |  | 4 | 3 | **9** | |
| **Book Chapters** |  |  |  |  | 4 | 4 | **8** | |
| **Bulletins** |  |  |  |  | 12 | 8 | **20** | |
| **Conference Proceedings** |  |  |  |  |  |  |  | |
| **Published Abstracts** |  |  |  |  |  |  |  | |
| **Presentations** |  |  |  |  |  |  |  | |
| **Other Reports** |  |  |  |  |  |  |  | |

# Publications In Preparation:

### In Preparation (Draft Completed):

Blaser, G.E., J.C. Stark, J.M. Marshall, D. Eggett, and **B.G. Hopkins**. 201x. Yield response of potato to N following alfalfa, alfalfa-maize or alfalfa-wheat rotations. *Agron. J.*

Blaser, G.E., J.C. Stark, and **B.G. Hopkins**. 201x. Nitrogen use efficiency of potato to N following alfalfa, alfalfa-maize or alfalfa-wheat rotations. *Agron. J.*

Buss, J.C., J.H. Gish, and **B.G. Hopkins**. 201x. Polymer coated urea in Kentucky bluegrass: Rate. *Crop Sci.*

Buss, J.C., J.H. Gish, and **B.G. Hopkins**. 201x. Polymer coated urea in Kentucky bluegrass: Timing. *Crop Sci.*

Nielson, P.A., **B.G. Hopkins**, V.D. Jolley, and D.L. Eggett. 201x. Variable palatability of aspen for large ungulates: Mineral nutrition. *J. Wildlife Manage*.

Nielson, P.A., S.B. St. Clair, and **B.G. Hopkins**. 201x. Digestibility factors and variable palatability of quaking aspen for large ungulates. *J. Wildlife Manage*.

Ransom, C.J. and **B.G. Hopkins**. 201x. Evaluating the nitrogen release of slow and controlled-release fertilizers in field and laboratory conditions at different placements. *J. Environ. Qual.*

Ransom, C.J. and **B.G. Hopkins**. 201x. Turfgrass response to reduced rates of polymer-coated urea. *J. Environ. Qual.*

Taysom, T.T., J.C. Stark, and **B.G. Hopkins**. 201x. Polymer-coated urea in potato production. *Agron. J.*

**Hopkins, B.G.** and T.J. Hopkins. 201x. Carbon: Snake oil or the next big thing. *Sports Turf Mag*

### In Review:

**Hopkins, B.G.** 201x. Phosphorus use in high yield cropping systems. *Better Crops.*(submitted in Nov 2018)

Carroll, A., K. DeJonge, **B.G. Hopkins**, and N.C. Hansen. 201x. Water stress indices of maize with controlled deficit irrigation and variable nitrogen supply. *Field Crops Res.*

**Hopkins, B.G.**, J.C. Stark, D.T. Westermann, and K.A. Kelling. 201x. Nutrient Management. *In* Jeff Stark *(ed.)* *Potato Production Systems*.

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# Refereed Journal Publications - In Press:

**Hopkins, B.G.,** K.J. Fernelius, N.C. Hansen, and D. L. Eggett. 2018. A response to the letter to the editor from Chien et al. (Comments on “AVAIL phosphorus fertilizer enhancer: Meta-analysis of 503 field evaluations” by B.G. Hopkins et al.) *Agron. J.* 110(4):1627-1630. DOI: 10.2134/agronj2018.03.0161

**Hopkins, B.G.,** K.J. Fernelius, N.C. Hansen, and D.L. Eggett. 2018. AVAIL phosphorus fertilizer enhancer: Meta-analysis of 503 field evaluations. *Agron. J.* 110: 389-398.

Jones, C. D., J.M. Stettler, S.L. Jensen, **B.G. Hopkins,** V.D. Jolley, D. Turner, and M.R. Stevens. 2018. Comparisons of cultivation methods for Lupinus sericeus, L. argenteus, L. prunophilus, and L. arbustus. *Native Plants J.* 19: 90-99

LeMonte, J.J., V.D. Jolley, T.M. Story, and **B.G. Hopkins**. 2018. Assessing atmospheric nitrogen losses with photoacoustic infrared spectroscopy: Polymer coated urea. *PLOS ONE*. 13(9): e0204090. DOI:org/10.1371/journal.pone.0204090

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# Thesis and Dissertation:

Crosland, M. 2018. Landscape foundations: A practical & technical guide to landscape maintenance. Honors thesis. Provo, UT. Brigham Young Univ.

Svedin, J. 2018. Characterizing the spatial variation of crop water productivity for variable-rate irrigation management. M.S. thesis. Provo, UT: Brigham Young Univ.

Buss, J.C. 2016. Polymer coated urea in Kentucky bluegrass. M.S. thesis. Provo, UT. Brigham Young Univ.

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Hill, M.W..2012. Improving phosphorus use efficiency through organically bonded phosphorus. M.S. thesis. Provo, UT. Brigham Young Univ.

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# Peer-Reviewed Bulletins:

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Svedin, J.D., N.C. Hansen, R. Kerry, and **B.G. Hopkins.** 2019. Modeling spatiotemporal variations in crop water stress for variable rate irrigation. *12th European Conference on Precision Agriculture Conference Proceedings*; 8-11 July 2019; Montpellier France.

Campbell, C.S., **B.G. Hopkins,** N.C. Hansen, J.D. Svedin, and R. Smith. 2018. Integrating remote sensing and spatiotemporal data to improve variable rate irrigation systems. In Abstracts, ASA•CSSA International Annu. Meet.; 4-7 Nov 2018; Baltimore, MD. Madison, WI: ASA-CSSA.

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**Hopkins, B.G.** 2019 Carbon fertilization: Snake oil or the next big thing? *Sports Turf Managers Association (STMA) Annu. Meet. (Pre-conference Webinar);* 10 Jan. 2019; Phoenix, AZ. Lawrence, KS: Sports Turf Managers Association.

**Hopkins, B.G.** 2018. Enhanced efficiency nitrogen and phosphorus fertilizers. *Western Region Nutrient Management Coordinating Committee*; 19 July 2018. Available at:

**Hopkins, B.G.** 2017. Advanced soil science for the Sports Turfgrass Professional. Sports Turf Managers Association Pre-Conference Webinar; 29 Nov 2017. Available at: http://penxy.com/suki

**Hopkins, B.G.** 2017. Enhanced efficiency fertilizers. *Federated Co-operatives Limited*; 7 November 2017; Saskatoon, SK S7K 0H2, Canada

**Hopkins, B.G**. 2017. ESN research on potatoes review– Dr. Bryan Hopkins, Ph.D. Brigham Young University. *Agrium ESN Field Day*; 20 July 2017; Aberdeen, ID. Available at: https://youtu.be/myWFOtHcwGg

**Hopkins, B.G**. 2017. Dr. Bryan Hopkins, Ph.D. Brigham Young University discusses the merits of ESN. *Agrium ESN Field Day*; 20 July 2017; Aberdeen, ID. Available at: https://youtu.be/Za1E\_2gOZB8

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**Hopkins, B.G.** 2015. Drought in the urban landscape. LDS FM Training Conf. 13 Aug. 2015.

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**Hopkins, B.G**. 2013. Biophysical chemistry 101: Wetting front impacts the turfgrass, environment, pests, and profits. Water Week Conf. Aquatrols; 18 Oct. 2013.

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# Presentations at Professional Meetings

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**Hopkins, B.G.** 2019.University research update panel:Report on our research on nitrogen and water management. *Sports Turf Managers Association (STMA) Annu. Meet*; 25 Jan. 2019; Phoenix, AZ. Lawrence, KS: Sports Turf Managers Association.

Crosland, M., B. Peacock, B. Geary, and **B.G. Hopkins.** 2018. Nitrogen and *Rhizoctonia solani* interactions in creeping bentgrass (*Agronstis stolonifera* L.). *Sports Turf Managers Association (STMA) Annu. Meet*; 16-19 Jan. 2018; Fort Worth, TX. Lawrence, KS: Sports Turf Managers Association.

Douglas, C., and **B.G. Hopkins**. 2018. Enhanced efficiency fertilizers in sports turf. *Sports Turf Managers Association (STMA) Annu. Meet*; 16-19 Jan. 2018; Fort Worth, TX. Lawrence, KS: Sports Turf Managers Association.

Hastriter A., K. Russell, and **B.G. Hopkins.** 2018. Nitrogen and water interactions in Kentucky bluegrass (Poa pratensis L.). *Sports Turf Managers Association (STMA) Annu. Meet*; 16-19 Jan. 2018; Fort Worth, TX. Lawrence, KS: Sports Turf Managers Association.

**Hopkins, B.G.** 2018. Nitrogen management innovations. *Shoshone Bannock Tribe Grower’s Meeting;* 16 March 2018; Fort Hall, ID.

**Hopkins, B.G**. 2018. Potato rotations and soil fertility/plant nutrition. *Lamb Weston meeting*; 22 Feb. 2018; Twin Falls, ID

**Hopkins, B.G** 2018. Heavy Traffic: Successes and failures.*Intermountain Sports Turf Managers Association (IMSTMA) Annu. Meet*; 16 Feb. 2018; Salt Lake City, UT.

**Hopkins, B.G.,** 2018. Advanced soil science for the sports turf Professional. *Sports Turf Managers Association (STMA) Annu. Meet*; 16-19 Jan. 2018; Fort Worth, TX. Lawrence, KS: Sports Turf Managers Association.

Nelson, S.V., R. Lawrence, M.D. Madsen, N.C. Hansen, V.J. Anderson and **B.G. Hopkins**. 2018. Hydrogel rate and depth: Impact on soil water and seedling establishment. *BYU PWS Graduate Research Conclave*; 15 Nov 2018; Provo, UT: Brigham Young University.

Pedigo, A., J. Svedin, and **B.G. Hopkins**. 2018. Polymer coated urea in Kentucky bluegrass (Poa pratensis L.). *Sports Turf Managers Association (STMA) Annu. Meet*; 16-19 Jan. 2018; Fort Worth, TX. Lawrence, KS: Sports Turf Managers Association.

Woolley, E.A., J.D. Svedin, N.C. Hansen, R. Kerry, and **B.G. Hopkins.**2018. Spatio-temporal soil water and crop stress modeling for variable rate irrigation. *BYU PWS Graduate Research Conclave*; 15 Nov 2018; Provo, UT: Brigham Young University.

**Hopkins, B.G.** 2017. Potato rotations and soil fertility/plant nutrition. *Montana Seed Potato Seminar*; 15-16, November 2017; Missoula, MT. Bozeman, MT:Montana State University.

**Hopkins, B.G**., and J.D. Svedin. 2017. Palomar coated urea in potato. *Agrium ESN Field Day*; 20 July 2017; Aberdeen, ID

**Hopkins, B.G.** 2017. Research update. *BYU-Idaho AG Field Day Experience;* 7 July 2017; Rexburg, ID.

**Hopkins, B.G.** 2017. Nutrient sources: How to choose them to meet plant nutrient need in traditional, organic, or mixed management settings? *5th Annual Urban and Small Farms Conf.*; 22 Feb 2017; Salt Lake City, UT.

**Hopkins, B.G.** 2017. Are sports field managers at risk legally? Water, Soil, Plant, and Pest BMPs for Success. *Sports Turf Managers Association Annu. Meet.;* 24-27 Jan. 2017; Orlando, FL. (*Invited*)

Kopp, K. and **B.G. Hopkins.** 2017. Let it breathe. Optimizing turfgrass water use. *Sports Turf Managers Association Annu. Meet.*; 24-27 Jan. 2017; Orlando, FL. Lawrence, KS: Sports Turf Managers Association. (*Invited*)

Nelson, S.V., W. Petersen, J.D. Svedin, M. Madsen, V.J. Anderson, N.C. Hansen, and **B.G. Hopkins.** 2017. Polyacrylamide for increasing soil moisture and seeding success. *BYU PWS Graduate Student Conclave*; 16 Nov 2017; Provo, UT: Brigham Young University.

Svedin, J.D., R. Kerry, N.C. Hansen, and **B.G. Hopkins.** 2017. Informing irrigation management from spatial variation in 'Crop per Drop'. *BYU PWS Graduate Student Conclave;* 16 Nov 2017; Provo, UT: Brigham Young University.

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Hopkins, A., and **B.G. Hopkins,** 2016. Polymer coated urea release rates under varying conditions. Nitrogen Use Efficiency (NUE) Conf.; 8-10 2016 Aug.; Boise, ID

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**Hopkins, B.G.** 2016. Turfgrass fertilization. Utah Nursery and Landscape Association.. 25-27 2016 Jan.; Salt Lake City, UT. (*Invited*)

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**Hopkins, B.G.** 2016. University research update panel: Water and nutrient management in cool season turfgrass. *Sports Turf Managers Association Annu. Meet.;* 19-22 2016 Jan.; San Diego, CA. (*Invited Speaker and Session Moderator*)

Hopkins, T., and **B.G. Hopkins,** 2016. Nitrogen by water interactions in corn. *Nitrogen Use Efficiency (NUE) Conf.;* 8-10 2016 Aug.; Boise, ID

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**Hopkins, B.G.,** J.H. Gish, and J.C. Buss. 2015. The nuts and bolts of applied nutrient management. *Sports Turf Managers Association Annu. Meet.;* 2015 Jan. 13-16; Denver, CO. (*Invited*) **Hopkins, B. G.,** M. Chappell, and C. Katseanes. 2014. EQ/I basic research program close out project 11-008, nutrient quality-intensity relationships for determining the environmental fate of munition constituents in the soil vadose zone. *Department of Defense*; 2014 March; Vicksburg, Mississippi.

**Hopkins, B. G.,** T. S. Smith, S. Henrie, and J. Gookin, 2014. Portable electric fencing for bear deterrence and conservation. *Utah Chapter of the Wildlife Society Annual Meeting*; 2014 March; St. George, Utah.

**Hopkins, B.G.** 2014. Turfgrass nutrition. *Utah Nursery and Landscape Association;* 24-26 2011 Jan.; Salt Lake City, UT. (*Invited*)

**Hopkins, B.G.** 2014. Keeping it green while being green. Cutting-edge environmental fertilization. *Sports Turf Managers Association Annu. Meet.;* 21-24 2014 Jan.; Orlando, FL. (*Invited*)

**Hopkins, B.G.** 2014. The fact and fiction of turfgrass fertilization. *Sports Turf Managers Association Annu. Meet.;* 21-24 2014 Jan.; Orlando, FL. (*Invited*)

**Hopkins, B.G.** 2013. Organic acids impact water and nutrition in turfgrass. *Floratine Dealer Conference;* 16-17 2013 Oct.; Orlando, FL. (*Invited*)

**Hopkins, B. G.** 2013. "Polymer Coated Urea in Field Crops," *Polymer Coated Urea Symposia;* 2013 November; Tampa, Florida.

**Hopkins, B. G.** and C. Ransom. 2013. Polymer coated urea in turfgrass. *Polymer Coated Urea Symposia;* 2013 November; Tampa, Florida.

**Hopkins, B. G.** 2013. Site-assessment writing. *BYU Writing Across the Curriculum Conference;* 2013 June; BYU, Provo, Utah.

**Hopkins, B. G.** 2013. Organic acids. *Idaho Potato Conference*; 16-18 January 2013; Pocatello, Idaho.

**Hopkins, B. G.** 2013. Phosphorus use efficiency. *Idaho Potato Conference*; 16-18 January 2013; Pocatello, Idaho.

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Fischbach, S. 5 August 2005. Wanted: Research growers can use. Interview Article. Intermountain Farm and Ranch: Idaho Falls, ID. 679:3,10

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Scott, B. 5 August 2005. Planting potatoes in beds. Phone interview for radio based news program – 64 stations. *Today’s Idaho Ag News.* Boise, ID: Northwest Ag Network.

Scott, B. 27 July 2005. Spud growers BMP field day. Phone interview for radio based news program – 64 stations. *Today’s Idaho Ag News.* Boise, ID: Northwest Ag Network.

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Anonymous. July 2004. ‘Famous Potatoes’ Field Day. KIDK 590 News Radio Interview: Blackfoot, ID.

Anonymous. July 2004. ‘Famous Potatoes’ Field Day. KIDK Channel 3 News TV Interview: Blackfoot, ID.

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Anonymous. July 2003. ‘Famous Potatoes’ Field Day. KIFI Channel 8 News TV Interview: Blackfoot, ID.

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**Hopkins, B.G.** November 18-19, 2002. Best management practices for potato production. Farm and Ranch Web Report www.aginfo.net.

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Fischbach, S. 11 October 2002. UI experiment shows less is more. Interview Article. Intermountain Farm and Ranch; Idaho Falls, ID. Issue 533.

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Anonymous. July 2002. ‘Famous Potatoes’ Field Day. KIDK Channel 3 News TV Interview; Blackfoot, ID.

Anonymous. July 2002. ‘Famous Potatoes’ Field Day. KIFI Channel 8 News TV Interview; Blackfoot, ID.

# Newsletters:

Fritz, M. and **B.G. Hopkins.** 2006. Model *Potato Grower*s maximize profits through best management. AgKnowledge #204/2006.

Idaho Barley Commission. January 2006. Best management practices for managing energy and fertilizer costs. Grower Information Sheet.

Fritz, M. 2005. Variable rate nitrogen impacts on potatoes and the environment. p. 6 In M.A. Reese (ed.) UI Extension Trends: 2005, Faces of Extension.

**Hopkins, B.G.,** J.W. Ellsworth, and W.H. Bohl. 29 December 2005. Managing potatoes in the future. Potato Progress Newsletter. Washington State Potato Commission. Vol. 18.

**Hopkins, B.G.,** J.W. Ellsworth, and W.H. Bohl. November 2005. Managing potatoes in the future. William H. Bohl (ed.). Spudvine, UI Extension; Blackfoot, ID.

**Hopkins, B.G.** and J.W. Ellsworth. October 2005. Fall fertilization – Questioning the way we do things. William H. Bohl (ed.). Spudvine, UI Extension; Blackfoot, ID.

Fritz, M. and **B.G. Hopkins.** March 2005. Best management practices for potato production. Extension Trends. UI; Moscow, ID.

**Hopkins, B.G.** and J.W. Ellsworth. March 2005. Phosphorus availability in alkaline/calcareous soil. William H. Bohl (ed.). Spudvine, UI Extension; Blackfoot, ID.

**Hopkins, B.G.** and J.W. Ellsworth. October 2004. Potash vs. potassium sulfate: A salt issue? William H. Bohl (ed.). Spudvine, UI Extension, Blackfoot, ID.

Fritz, M. July 2004. Humic acid can increase potato yields, quality, and value. UI Programs and People Highlight; Moscow, ID.

Bohl, W. and **B.G. Hopkins.** January 2004. There’s not a best management practices recipe. William H. Bohl (ed.). Spudvine, UI Extension; Blackfoot, ID.

Bohl, W.H. and **B.G. Hopkins.** April 1 2003. Improving phosphorus efficiency. William H. Bohl (ed.). Spudvine, Bingham County Extension; Blackfoot, ID.

Cossey, D. and **B.G. Hopkins.** 2002. Phosphorus soil testing. Agro Newsletter.

Bohl, W. H. and **B.G. Hopkins.** June 2002. Maintain adequate phosphorus through the season. The William H. Bohl (ed.). Spudvine. UI-CES Cooperative Extension System; Blackfoot, ID.

Technical Writer. 1995-2001. Servi-tech review - Monthly Newsletter.

# Extension/Industry Education Presentations:

|  |  |  |  |
| --- | --- | --- | --- |
| Bryan Hopkins Extension/Industry Education Presentations Summary: 1998-2006  (Individual Titles, Dates, and Locations Available Upon Request) | | | |
|  | Presenter | Co-Presenter | **Total** |
| Classroom Lectures | 12 | 5 | **17** |
| Grant Proposal/Progress Report | 24 | 8 | **32** |
| Extension: State/Local | 36 | 4 | **40** |
| Extension: Regional/National | 7 | 5 | **12** |
| Workshops: State/Local | 34 | 6 | **40** |
| Workshops: Regional/National | 405 | 15 | **420** |
| International CCA Workshops Organized | 111 | 0 | **111** |
| Conference: Volunteered | 46 | 22 | **68** |
| Conference: Invited | 12 | 10 | **22** |
| Field Days Organized | 9 | 0 | **9** |
| Field Day Presentations | 21 | 14 | **35** |
| **TOTAL** | **597** | **89** | **806** |

# Grants and Contracts Awarded

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Bryan Hopkins grantsmanship summary (excludes UI and BYU startup funding). | | | | | | |
|  | | Grants | | Grants-In-Aid | | **Total** |
|  | Years | as PI | as Co-PI | as PI | as Co-PI |  |
|  |  |  |  |  |  |  |
| Spending Authority | 2001-06 | $665,415 | $90,910 | $501,563 | $2,400 | **$1,260,288** |
| Grants | 2001-06 | $760,472 | $429,310 | $501,563 | $23,000 | **$1,714,345** |
|  |  |  |  |  |  |  |
| Spending Authority | 2007-16 | $1,210,373 | $0 | $0 | $0 | **$1,210,373** |
| Grants | 2007-16 | $1,310,756 | $812,583 | $0 | $980,000† | **$3,103,339** |
|  |  |  |  |  |  |  |
| **TOTAL Spending Authority** |  | **$1,875,788** | **$90,910** | **$501,563** | **$2,400** | **$2,470,661** |
| **TOTAL Grants** |  | **$2,071,228** | **$1,241,893** | **$501,563** | **$1,003,000** | **$4,817,684** |
|  |  |  |  |  |  |  |
| †Hopkins PI of most of these projects (except $100,000 for Congo project) and expenditure of monies, but funds handled externally and, therefore, do not qualify as “spending authority”. | | | | | | |

#### Pending (currently under review):

Hansen, N.C., R. Kerry, M. Heaton, R. Jensen, and **B.G. Hopkins**. Spatiotemporal decision support systems for recognizing variability and managing precision irrigation. *The US-Israel Binational agricultural research and development fund (BARD).* April 2019 – March 2022. (P0180917) $90,047. (currently under review)

Yost, M., N.C. Hansen, H. Neibling, R. Spackman, E. Creech, L.N. Allen, **B.G. Hopkins**, M. Heaton, R. Christenson, B. Hunter, S. Hanberg. Identifying stacked conservation practices that optimize water use in agriculture. *Western Sustainable Agricultural Research and Education*. March 2019 – Feb 2022. $117,682.

### Federal and State:

**Hopkins, B.G.** Athletic field management and research. *BYU Athletic Department.* April 30, 2008-present (ongoing with annual renewal). $65,000.

Abbott, B.W., **B.G. Hopkins,** R. Gill, R.S. Nixon, K.S. Glenn, D. Ames. BYU Interdisciplinary Research Development Origination Award (IDR): We are teaching the water cycle wrong- fixing misconceptions in depictions and perceptions of water in the Anthropocene. *Brigham Young University: College of Life Sciences: Plant and Wildlife Sciences.* $120,000.

**Hopkins, B.G.** College Mentoring Supplement Award (CEMENT). *Brigham Young University: College of Life Sciences.* Nov 2018- Nov 2019. $5,000.

**Hopkins, B.G,** and N.C. Hansen. Teaching Enhancement Grant (TEG): PWS 282/283 - experiential appreciation of soils through development of lab activities. *Brigham Young University: College of Life Sciences.* 2018 – 2019. $8,700.00 ($4,350. spending authority)

Hansen, N.C., R. Kerry, R. Jensen, M. Heaton, **B.G. Hopkins,** and C. Campbell. Integrating Remote Sensing and Spatiotemporal Statistics to Develop Prescription Maps for Variable Rate Irrigation Systems. *BYU.* Jan 2018 – Dec 2019. $120,000.

**Hopkins, B.G**. USGS Canyonlands soil analysis contract. *United States geological survey (USGS).* Sept. 2015 – Sept 2019. $380,000.

Petersen, S.L., V.J. Anderson, N.C. Hansen, **B.G. Hopkins,** R.T. Larson, M.D. Madsen, B.R. McMillian, T.S. Smith. Natural resources support for Utah test and training range. *U.S. Air Force UT Training Range (UTTR) via Army Corps of Engineers.* Sept 2018 – Aug 2019. $389,606. (currently under review)

Petersen, S.L., V.J. Anderson, N.C. Hansen, **B.G. Hopkins,** R.T. Larson, M.D. Madsen, B.R. McMillian, T.S. Smith. Increasing establishment of bottlebrush squirreltail and siberian wheatgrass with in-soil hydrogel water reservoirs natural resources program support for Utah test and training range. ​ *U.S. Air Force UT Training Range (UTTR) via Army Corps of Engineers.* US Air Force (Hill AFB) (sponsor), Army Corps of Engineers (Contract Coordinator). August 31, 2017 to Sept. 30, 2019. $389,606.00 ($13,660.26 spending authority).

**Hopkins, B.G.** Nutrient deficiencies. *International plant nutrition institute (IPNI) Grant-In-Aid.* Jan 2017 – Dec 2017. $5000.00

Petersen, S.L., V.J. Anderson, N.C. Hansen, **B.G. Hopkins,** R.T. Larson, M.D. Madsen, B.R. McMillian, T.S. Smith. Natural resources support- Hill AFB and UTTR (DOD) Army USACE. *U.S. Air Force UT Training Range (UTTR) via Army Corps of Engineers.* Aug 2017- Sept 2017. $382,269.

**Hopkins, B.G.** and N.C. Hansen. Stars wars and water wars: Scientific solutions for western US water problems. Redd center grant. *The Charles Redd center for western studies*. 2016 -2017. $63,000

**Hopkins, B.G.** Collaborative BYU and BYU-Idaho research. *Research and Business Development Council*. Rexburg, ID 2015-2016. $500,000.

**Hopkins, B.G**. Soil samples. *United States geological survey (USGS).* July 2013 – Sept. 2014 $41,885.

**Hopkins, B.G.** Sci-Scapes. 2013-2014. $370,000.

Chappell, M., **B.G. Hopkins,** D. Hancock, and A. Bednar. Nutrient quantity-intensity relationships for determining environmental fate of munitions constituents in the soil vadose zone. *US Army Engineer Research and Development Center.* September 1, 2011-December 31, 2013. $670,000. ($63,150. spending authority)

Various Students. Various Projects. *BYU ORCA Student Grants.* 2011-2013.

**Hopkins, B.G**. Soil samples testing. *United States geological survey (USGS).* Sept 2012 – Sept. 2013 $19,946.

**Hopkins, B.G.** Mentored Environment Grant (MEG): Reduction of nutrient pollution of air and water bodies- Polymerized coating of Urea Fertilizer. *BYU ORCA Student Grants.* Jan 2011 – Jan 2013. $20,000.

**Hopkins, B.G**. Soil and plant analysis. *United States geological survey (USGS).* Sept 2010 – Sept. 2013. $92,286.

**Hopkins, B.G.** and C.K. Katseanes. Nutrient quantity-intensity relationships for determining environmental fate of munitions constituents in the soil vadose zone. *U.S. Department of Defense (DOD).* January 1, 2011-December 31, 2012. $78,000.

Geary, B.D., **B.G. Hopkins,** V.D. Jolley, and D. Johnson. Potassium nutrition influencing verticillium (Early Dying) disease of Russet Burbank Potatoes. *Washington Potato Commission.* July 1, 2010-June 30, 2011. $19,500.

**Hopkins, B.G.** Polymer chemistry to reduce nutrient pollution. *BYU John A. Widtsoe Scholarly and Creative Work Grant.* Jan. 1, 2011-Dec. 31, 2011. $25,000.

Various Students (J.J. LeMonte, E.A. Buxton, B.A. Nichols, C.J. Ransom, R.C. Christensen, C.K. Katseanes, T.G. Beckett). Various Projects. *BYU ORCA Student Grants.* 2008-2011. $10,500.

Geary, B.D., **B.G. Hopkins,** and V.D. Jolley. Mentored Environment Grant (MEG): Influence of phosphorus on *Colletotrichum coccodes* infections of *Solanum tuberosum* roots. *BYU ORCA Student Grants.* Jan. 2010-Dec. 2010. $20,000.

**Hopkins, B.G.** Research/creative work award: Nutrient, soil, & water management of sports fields. *BYU- Athletic department- Football*. Jan 2009 - Dec 2009. $12,000.

**Hopkins, B.G.** Research/creative work award: Field grass analyzer auto sampler. *BYU- Dept. of Plant & Wildlife Sciences*. Jan 2009 - June 2009. $24,000.

**Hopkins, B.G**. Assessment and Demonstration of the sustainability of long vs. short potato rotations*. United States Department of Agriculture (USDA)*. June 2007- June 2009. $135,756.

**Hopkins, B.G.,** D. Horneck, M. Pavek, P. Patterson, J. Miller, P. Hutchinson, J. Alvarez, M.K. Thornton, S. Hafez, and N.L. Olsen. Potato rotations. *WSARE-USDA.* July 1, 2007-June 30, 2009. $135,756 ($35,373 spending authority).

**Hopkins, B.G.** and J.C. Stark. Potato nutrition and environmental quality. *Idaho Potato Commission*. July 1, 2007- June 30, 2009. $36,000.

**Hopkins, B.G.** Mentored Environment Grant (MEG): Water and nutrient management for improved athletic field safety/aesthetics and reduced environmental impact. *BYU ORCA Student Grants.* Jan 2008 - Dec 2008. $20,000

**Hopkins, B.G.** Research/creative work award: BYU sports field research. *BYU- Athletic department- Football.* Jan 2008 - Dec 2008. $18,000.

**Hopkins, B.G.** Research/creative work award: Writing across the curriculum grant. *Brigham Young University.* Dec 2007 - Dec 2008. $1,000.

Jolley, V.D., B.L. Webb, **B.G. Hopkins.** Mentored Environment Grant (MEG): Phosphorus, zinc, iron, manganese, and copper interactions in potato cropping systems. *BYU ORCA Student Grants.* Jan 2006 – Jan 2008. $18,000.

Petersen, S.L., M.D. Madsen, B.A. Roundy, **B.G. Hopkins,** and R.F. Miller. Management techniques to improve establishment of desired species in the presence of hydrophobic soil. *NRCS Conservation Innovation Grant.* Jan 2008 - Dec 2008. $56,583.

**Hopkins, B.G.** Research/creative work award: Faculty development grant. *Brigham Young University.* May 2007 - Dec 2007. $300.

**Hopkins, B.G.** and J.C. Stark. Potassium Chloride Application to Reduce Specific Gravity. *Idaho Potato Commission.* July 1, 2006-June 30, 2007. $12,000.

**Hopkins, B.G.,** J.W. Ellsworth, and J. Windes. Demonstration of best management practices for traditional and organic barley production. *USDA-Barley for Rural Development.* July 1, 2006-June 30, 2007. $6,100.

**Hopkins, B.G.,** J.W. Ellsworth, and J. Windes. Evaluation of new fertilizer and fertilization technologies to enhance barley production. *USDA-Barley for Rural Development*. July 1, 2006-June 30, 2007. $5,500.

**Hopkins, B.G.,** P. Patterson, J. Miller, P. Hutchinson, J. Alvarez, M.K. Thornton, S. Hafez, and N.L. Olsen. Potato rotations. *Idaho Potato Commission.* July 1, 2005-June 30, 2007. $50,000.

**Hopkins, B.G.** Phosphorus, Zinc, Iron, manganese, and copper interactions in East-Idaho potato cropping systems. *USDA-CSREES Hatch Project*. July 16, 2001-January 1, 2007. $20,500.

**Hopkins, B.G.,** J.W. Ellsworth, and T.R. Bowen. Variable rate nitrogen in malting barley. *Idaho Barley Commission.* July 2004-June 2007. $13,000.

**Hopkins, B.G.** and J.W. Ellsworth. Potato nutrition. *Idaho Potato Commission.* July 1, 2002-June 30, 2007. $103,913.

**Hopkins, B.G.,** J.W. Ellsworth, and J. Gallion. Banded N and P in sugarbeet production. *Idaho Sugarbeet Growers Association.* April 1, 2003-March 30, 2007. $29,500.

Jolley, V.D. and **B.G. Hopkins.** Potato nutrition. *BYU ORCA.*. July 2006-June 2007. $18,000.

Miller, J., K. Esplin, **B.G. Hopkins,** J. Guenther, and N.L. Olsen. Assessing markets and managing risks for organic potato production in Idaho (RME-B5B01899). *USDA-Western Risk Management Education.* July 2006-June 2007. $38,800.

Nolte, P., N.L. Olsen, B.G. Geary, and **B.G. Hopkins.** Potato specialist. *Idaho Potato Commission.* July 1, 2002-June 30, 2007. $200,000.

Ellsworth, J.W., **B.G. Hopkins,** B. Brown, and H. Neibling. Wheat N requirements with reduced irrigation. *Idaho Wheat Commission*. July 1, 2003-June 30, 2006. $41,310.

**Hopkins, B.G.,** D. Horneck, M. Pavek, P. Patterson, J. Miller, P. Hutchinson, J. Alvarez, M.K. Thornton, S. Hafez, and N.L. Olsen. Potato rotations. *WSARE-USDA*. July 1, 2005-June 30, 2006. $43,647.

**Hopkins, B.G.** and P. Patterson. Potato rotation economics. *USDA-Western Risk Management Education.* July 1, 2005-June 30, 2006. $24,402.

**Hopkins, B.G**. Variable rate nitrogen. UI Seed Grant. July 1, 2005-June 30, 2006. $9,000.

Thornton, M.K., B. Brown, **B.G. Hopkins**, B.G. Geary and J.W. Ellsworth. Nutrient requirements and effects on new and potential release cultivars in the treasure valley. *Idaho Potato Commission*. July 1, 2003-June 30, 2006. $75,000

Ellsworth, J.W. and **B.G. Hopkins.** Nutrient uptake in potatoes. *Idaho Potato Commission*. July 2004-June 2005. $3,150.

**Hopkins, B.G.,** B.G. Geary, D. Horneck, R.E. Thornton. Promoting sustainable potato cropping systems. *Western Sustainable Agriculture Research and Extension (WSARE).* July 1, 2002-December 31, 2005. $158,477.

Ellsworth, J.W., J.C. Stark, **B.G. Hopkins,** and B. King. Variable rate nitrogen impacts on improving water quality. *Idaho State Department of Agriculture Topic Team Grant.* April 1, 2003-March 30, 2004. $10,000.

**Hopkins, B.G.** Travel grant to pursue collaborative *USDA-WSARE* Grant Proposal-BJX200. UI.

August 2004. $750.

Ellsworth, J.W., B. Brown, and **B.G. Hopkins.** Remote sensing and nitrogen management in winter wheat production. *Idaho Wheat Commission.* July 1, 2002-June 30, 2003. $15,770.

Ellsworth, J.W. and **B.G. Hopkins.** Soil fertility school. *Idaho Sugarbeet Growers Association.* July 1, 2002-June 30, 2003. $3,000.

**Hopkins, B.G**. and G. Harding. Best management practices (BMP’s) for potato cropping systems. *Idaho Potato Commission.* July 1, 2002-June 30, 2003. $5,000.

### Grants and Contracts Awarded - Industry Support:

**Hopkins, B.G.**  Soil, Water, and Plant Management. *Consortium of Agri-Chemical Companies via the Research and Business Development Center (RBDC).* Jan 2018 – Dec 2018. $260,000

**Hopkins, B.G.**  Soil, Water, and Plant Management. *Consortium of Agri-Chemical Companies via the Research and Business Development Center (RBDC).* Jan 2017 – Dec 2017. $248,000

**Hopkins, B.G.**  Soil, Water, and Plant Management. *Consortium of Agri-Chemical Companies via the Research and Business Development Center (RBDC).* Jan 2016 – Dec 2016. $242,000

**Hopkins, B.G.** Soil, water, and plant management. *Consortium of Agri-Chemical Companies via the Research and Business Development Center (RBDC).* Jan 2015 – Dec 2015. $241,000

**Hopkins, B.G.** Soil, water, and plant management. *Consortium of Agri-Chemical Companies.* Jan 2014 – Dec 2014. $217,000

**Hopkins, B.G.** Soil, water, and plant management. *Consortium of Agri-Chemical Companies.* Jan 2013 – Dec 2013. $102,000

**Hopkins, B.G.** Soil, water, and plant management. *Consortium of Agri-Chemical Companies.* Jan 2012 – Dec 2012. $98,000

**Hopkins, B.G.** Soil, water, and plant management. *Consortium of Agri-Chemical Companies.* Jan 2011 – Dec 2011. $140,000

**Hopkins, B.G.** Maintaining crop production while reducing nutrient pollution (Air & water quality). *Consortium of Agri-Chemical Companies.* Jan 2010 – Dec 2010. $140,000

**Hopkins, B.G.** Maintaining crop production while reducing nutrient pollution (Air & Water Quality). *Consortium of Agri-Chemical Companies.* Jan 2009 – Dec 2009. $155,000

**Hopkins, B.G.** Fertilizers and soil amendments: Impacts on crop yield and environmental quality. *Consortium of Agri-Chemical Companies.* Jan 2008 – Dec 2008 $155,000

Raymer, D. and **B.G. Hopkins.** Agronomic assistance advising. *Democratic Republic of the Congo*. 2009. $100,000.

**Hopkins, B.G.** Fertilizers and soil amendments: Impacts on crop yield and environmental quality. *Consortium of Agri-Chemical Companies.* Jan 2007 – Dec 2007. $102,000

**Hopkins, B.G**. and J.W. Ellsworth. Phosphite and sulfone application to russet Burbank potatoes*. Biagro, Inc.* April 2003-March 2007. $32,000.

**Hopkins, B.G.** and J.W. Ellsworth. Fertilizer band placement in potatoes in alkaline and calcareous soil. *Fluid Fertilizer Foundation.* March 2002-February 2007. $26,000.

**Hopkins, B.G.,** J.W. Ellsworth, J.C. Stark and J. Gallion. Phosphorus and nitrogen banded fertilizer effects on sugarbeets in alkaline and calcareous soil. *Simplot Soilbuilders*. March 2002-February 2006. $9,500.

**Hopkins, B.G**. and J.W. Ellsworth. Variable rate nitrogen fertilizer application in potatoes. *ValleyWide Coop.* April 2003-March 2006. $75,000.

**Hopkins, B.G.** Fused Ammonium Sulfate-Nitrate Fertilizer Product Evaluation in Potatoes. *Honeywell.* April 2006-October 2006. $10,500.

**Hopkins, B.G.** Nitamin slow release nitrogen fertilizer product evaluation in potatoes. *Georgia Pacific.* April 2006-October 2006. $10,500.

**Hopkins, B.G**. Monty’s plant food product evaluations. *Monty’s Plant Food Corp*. April 2006-October 2006. $10,000.

**Hopkins, B.G**. Humic acid product evaluation in potatoes. *Horizon Ag.* April 2006-October 2006. $4,000.

**Hopkins, B.G.** Steric chemistry fertilizers*. Northwest Ag Product*s. April 2006-October 2006. $3,000.

**Hopkins, B.G.** Nu-Earth product evaluation in potatoes. *Nu-Earth LLC.* April 2006-October 2006. $2,000.

**Hopkins, B.G.** Tierra resources product evaluation. *Tierra Resources.* April 2006-October 2006. $1,500.

**Hopkins, B.G.** Equipment evaluation in potatoes. *Spudnick*. April 2006-October 2006. $1,400.

**Hopkins, B.G.** 3Tier Product evaluation in potatoes. *3 Tier Technologies, Inc*. April 2006-October 2006. $1,200.

**Hopkins, B.G**. Soil conditioner study in potatoes. *MayZee.* April 2006-October 2006. $1,000.

**Hopkins, B.G.** Field Day support. *Western Farm Service*. April 2006-October 2006. $500.

**Hopkins, B.G.** and J.W. Ellsworth. Boron in potatoes. *US Borax.* April 2005-March 2007. $10,000.

**Hopkins, B.G.,** J.W. Ellsworth, and T. Taysom. Polymer coated urea evaluation. *Agrium.* April 2005-October 2006. $16,000.

**Hopkins, B.G.** and J.W. Ellsworth. Avail product evaluation. Soil. Simplot Soilbuilders. March 2005-February 2006. $6,000.

**Hopkins, B.G.** and J.W. Ellsworth. Chelated nutrients. *Baicor.* April 2005-October 2006. $4,800.

**Hopkins, B.G.** Field Day support. *Western Labs.* April 2005-October 2006. $500.

**Hopkins, B.G.** Field Day support. *MK Hansen.* April 2005-October 2006. $300.

**Hopkins, B.G.** ACA Product evaluation. *Aquatrols.* April 2004-October 2006. $72,910.

**Hopkins, B.G.** Hormone and calcium product evaluations on potatoes and sugarbeets. *Stoller Agronomics.* April 2004-October 2006. $59,700.

**Hopkins, B.G.** Drip tape irrigation. *T-Systems International, Inc.* April 2004-October 2006. $16,000.

**Hopkins, B.G.** MKP product evaluation. *Rotem BKG.* April 2004-October 2006. $11,400.

**Hopkins, B.G.** BioSoil product evaluation. *Jet Harvest Solutions.* April 2005-October 2005. $1,600.

**Hopkins, B.G.** Field Day support. *Raven Industries/Lockwood.* April 2005-October 2005. $750.

**Hopkins, B.G.** Field Day support. *Ag World Support Systems.* April 2005-October 2005. $250.

**Hopkins, B.G.,** J.W. Ellsworth, and T.R. Bowen. Variable rate nitrogen in malting barley. *Far West Agribusiness Association.* April 2004-October 2005. $12,500.

**Hopkins, B.G.** and J.W. Ellsworth. Nutrient uptake rates of Russet Burbank Potato in Minidoka, ID. *Landview Systems.* April 2003-March 2005. $12,063.

**Hopkins, B.G.** Drip tape irrigation. *Clearwater Supply*. April 2004-October 2004. $4,000.

Ellsworth, J.W. and **B.G. Hopkins.** Banded phosphorus on sugarbeets in alkaline soils. *Potash and Phosphate Institute.* April 2003-November 2005. $9,000.

**Hopkins, B.G.** and J.W. Ellsworth. Equity product evaluation on Russet Burbank Potato. *Naturize, Inc*. April 2003-March 2005. $8,200.

**Hopkins, B.G.** BioSoilStart product evaluation. *Agri-Trend.* April 2004-October 2004. $1,440.

Stark, J.C., **B.G. Hopkins,** and J.W. Ellsworth. Slow release P fertilizer. *Simplot.* April 2004-October 2004. $1,000.

**Hopkins, B.G.** MNB product evaluation. *Micro Grow LLC.* April 2004-October 2004. $500.

**Hopkins, B.G.** Penetron product evaluation. *MazZee.* April 2004-October 2004. $500.

**Hopkins, B.G.** BioFlora mark out product evaluation in potatoes and sugarbeets. *BioFlora, Inc.* April 2002-October 2006. $25,000.

**Hopkins, B.G.** Nitro Plus, Nitrate balancer, satisfy, and force product evaluations on potatoes and sugarbeets. *Stoller agronomics.* April 2002-October 2003. $12,000.

**Hopkins, B.G**. Mineralization of elemental sulfur and its impacts on soil properties. *Panterra Industries*. March 2002- March 2003. $6,500.

**Hopkins, B.G.** Organic Gem product evaluation on Russet Burbank Potatoes. *Advanced Marine Technologies.* April 2002-October 2003. $6,000.

J.W. Ellsworth and **B.G. Hopkins.** Remote sensing and nitrogen management in Hard Red Spring Wheat. *John Deere Corporation.* March 2002-September 2002. $27,000.

# Forensic Expert Witness:

* Falls Fertilizer, INC. v. **Mickelsen.** (2018-Pending) No. CV-2017-1670. Representing the defendant-countersuing. Claim by plaintiff that defendant failed to pay for services rendered. Counterclaim by defendant that plaintiff improperly sprayed herbicide which caused crop failure. (District Court of the 7th Judicial District. Idaho)
* Pinnacle v. Dewsnup and **1-Stop Realty.** (2016- 2018) No. 4:13-cv-00106-EIJ-CWD. Date of Deposition: Aug 11, 2016; Boise ID. Representing the defendant. Claim by the land purchaser that the defendant misrepresented the quality of the water and that it was unsuitable for plant growth. Case was settled. (US D. Idaho)
* Class actions suit v. **Scotts.** (2015-2018) No. 12-cv-4727(VB). Date of Deposition: Apr 15, 2016; New York, NY. Representing the defendant. Class action claim that Scotts EZ seed labeling was inaccurate and product was defective. Case was settled. (S.D. New York)
* **Phillip E. Allred, et al**. v. PacifiCorp.(2017) No. 2:15-cv-00095. Claim was that the Wood Hollow Fire caused ash and groundwater damage to the plaintiff’s farm. Case was successfully mediated on December 21.  (US D. Utah)
* **Owyhee Farming Company, LLC** v. Agri-Lines Irrigation, INC. (2015-2017) No. CV OC 1423886. Representing the plaintiff. Claim that defendant improperly installed irrigation systems. Settled prior to trial favorably for the plaintiff. (US D. Idaho)
* **Fowers Fruit Ranch** v. Bio Tech Nutrients. (2012-2016) No. 2 11-cv-00105; Date of Deposition: Apr 30, 2013; Trial Date: Feb 3, 2016, Salt Lake City, UT. Representing the plaintiff. Claim that BTN product was defective and caused catastrophic harm to crops. Ruling in favor of the plaintiff. (US D. Utah)
* Encap, LLC v **Scotts Company, LLC**, et al. (2014-2014) Defendant consulted with me but no written report, deposition, or trial deposition was requested.
* **Bingham** et al v Roosevelt City. (2010-2012) Representing the plaintiff. Claim that city of Roosevelt pumped water and drawing down aquafer causing catastrophic failure of forage legumes and grasses. I submitted a written report without being deposed and the case was settled for an undisclosed amount.
* **LandView, INC** v undisclosed custom fertilizer applicator; Rupert, ID. (2009-2010) Representing the plaintiff. Claim that defendant spread fertilizer unevenly causing significant crop damage to Landview customers. Settled for undisclosed amount after I submitted a written report and I was not deposed nor did I testify at court.
* **Class action suit brought by Idaho farmers** v Bureau of Land Management; Boise, ID (2002-2006) Engaged as an expert for the plaintiff but was not requested for a written report, deposition, or trial testimony. Claim that U.S. Bureau of Land Management applied herbicide (Oust) which drifted or was blown with soil causing damage to crops. Ruled in favor of plaintiff, but later over turned.
* Various confidential cases for soil, nutrient, water, and plant issues (row crop, forages, and turf grass) as a consultant for Servi-Tech (1995-1999).
* **Pizza Hut Corporation** v General Contractor Group; Liberal, Kansas. (1994-1995) Representing the plaintiff. Claim that contractors improperly placed toxic sludge material in the landscape causing catastrophic failure of the turf grass, trees, and shrubs. Plaintiff dropped the matter after my findings showed there was no basis for their claims.
* Rupert Smith v **Joe Kelly**. Junction City, Kansas (1994-1995) Representing the defendant. Claim that the defendant had applied chemicals through irrigation and/or sprayer causing significant damage to neighboring turf grass and landscape plants. Matter was settled for undisclosed amount prior to any court action.

# CITIZENSHIP:

### University:

Annual guest speaker: BYU PWS 191-Introduction to Landscape Management. Biophysical Soil Chemistry Research. 2007- present.

Judge for BYU Graduate Student Conclave; 25 Nov 2018.

BYU Accreditation Committee- Head of facilities sub-committee. 2018

BYU College Undergraduate Research Awards (CURAs) Grant Reviewer. 2018.

BYU PWS Rank and Status Committee. 2015-present.

BYU Environmental Analytical Lab Director. 2012-present.

Pest Alert Network, Pest Verification Representative for Southeast Idaho, UI-CES and IPC. 2003-present.

BYU PWS Skaggs Ranch Oversight Committee. 2012-2017

BYU PWS Safety Officer. 2012-2015.

BYU CLS Safety Committee. 2012-2015.

BYU PWS Environmental Science Club Co-Advisor. 2008-2011; 2012-2013.

BYU PWS Environmental Science Focal Chair. 2010-2012.

BYU PWS Awards Committee. 2010-2012.

BYU Internal Review Widtsoe Grants. 2010.

BYU ORCA Grant Reviewer. 2010.

BYU PWS Environmental Science Seminar Speaker Subcommittee Chair. 2008-2012.

BYU CLS Curriculum Committee. 2008-2010.

BYU PWS Curriculum Committee Chair. 2008-2009.

BYU PWS Environmental Science Recruiting Sub-Committee Chair. 2007-2008.

Idaho Potato Conference Program Chair. UI-CES. 2004 and 2007.

Idaho Center for Potato Research and Education Web Site Development Committee. UI Plant, Soil, and Entomological Sciences Department. 2001-2006

Idaho Potato Conference Planning Committee. UI-CES. 2001-2006.

Nutrient and Waste Management Conference Committee member. UI-CES College of Agriculture and Life Sciences. 2002-2006.

Nutrient Management Leader for Potato Team, UI-CES College of Agriculture and Life Sciences. 2002-2006.

Natural Resources Conservation Service (NRCS) State of Idaho Technical Committee, 2002-2006t.

Nutrient and Waste Management Crops Team member. UI-CES College of Agriculture and Life Sciences. 2001-2006.

Shoshone-Bannock Tribes’ Alternative Cropping Demonstration Advisory Board Member, 2002-2006.

Sustainable Ag Coordination/Action Team (SACAT) member. UI-CES College of Agriculture and Life Sciences. 2001-2006.

UI Internal Reviewer (6 manuscripts and various grant proposals/reports). 2001-2006.

Special Representative for the UI, United Annual Produce Business Conference and Expo, 2003.

Ag Pavilion Volunteer. Eastern Idaho State Fair. Blackfoot, ID. September 5-6, 2001.

Potato Team member. UI-CES College of Agriculture and Life Sciences. 2001-present.

North Central Region Soil Test Working Group (NCR-13), Organic Matter Determination Sub-Committee Chair, 1992-95.

### Professional and Scholarly Organizations:

Guest editor: Journal of Environmental Quality Special. Section on Phosphorus. 2019.

Session chair for Biostimulants Symposia at the Western Nutrient Management Conference (WNMC) – 2019

WERA011 (USDA Western Regional Turfgrass Research Working Group), 2018 – present.

Turfgrass Producers International, 2017- present

Intermountain Sports Turf Managers Association, 2008- present

Sports Turf Managers Association, 2007-present

\*Education Committee 2012-present

WERA103 (USDA Western Nutrient Management Working Group), 2000 – present.

National Association of Landscape Professionals,2007- present

Idaho Academy of Science 2001 – Present

Crop Science Society of America (CSSA), 1999-present.

Agronomy Society of America 1989 – present

American Society of Agronomy (ASA), 1989-present.

\*Board of Directors – Representing the Practicing Professionals Division A9. 2003-06.

\*Student Presentation Contest Committee (A449.6) of ASA, Member, 2002-2004.

Soil Science Society of America (SSSA), 1989-present.

\*North American Proficiency Testing Committee. Ex-officio member. 2010-2015

\*Official Methods of Soil Analysis (S889) Committee, of SSSA Member, 2000-2004; Chair, 2005-2015.

\*Nitrous Oxide Impact on Environment Symposia Organizer. 2011. *(Invited)*

\*Membership, Identity, and Visibility Committee (S236.1) of SSSA, Professional Practitioners Sub-Committee Chair, 1999-2003.

\*Soil Testing and Plant Analysis Committee (S877) of SSSA, Incoming, Chair, and Past Chair, 2000-03.

\*Nutrient Management Symposia Coordinator, October 24-25, 2001. *(Invited)*

\*Reviewer for International Soil Testing and Plant Analysis Program Proceedings - Validation and Re-Calibration of a Soil Test for Mineralizable Nitrogen. 2005.

Certified Crop Advisors of the Pacific Northwest, board of directors and chair of exam sub-committee, 2004-2006.

Far West Agribusiness Association, Research and Education Committee, 2003-2006.

Association of LDS Crop and Soil Scientists, President, 2002-2003.

Potato Association of America, 2001-2009.

\*Local Area Committee for 2007 meetings in ID.

Idaho Academy of Science Life Time Member since 2001.

Idaho Association of Plant Pathology, 2000-2006.

North Central Extension-Industry Soil Fertility Conference Planning Committee, 1999-2001.

Soil Testing and Plant Analysis Council, 1995-98.

AOAC International (formerly American Organization of Analytical Chemists, Associate Referee, 1992-2001.

# External Manuscript Reviews: (individual titles available upon request)

Agronomy J.; 2003, 2008, 2010, 2014, 2015(2)

Am. J. of Potato Research; 2004, 2004, 2005, 2005, 2007, 2008, 2008, 2009,2009, 2010, 2010, 2011, 2013(5), 2014, 2016

Canadian J. of Plant Science; 2004

Communications in Soil Science and Plant Analysis J.; 2003, 2005, 2017

CSREES-USDA Reviewer for Cool Season Food Legume Special Research Grant; 2004.

Environmental Science book by Richard Wright, chapter 19 review; 2011

The Journal of Animal and Plant Sciences; 2017

J. Environmental Quality; 2009, 2011, 2016

J. Plant Nutrition; 2010

J. Plant Nutrition and Soil Science; 2010, 2018

J. Science of Food and Agriculture; 2011

J. Soil Water Conservation; 2005, 2009

Plant and Soil; 2011

Plant Biology; 2010

Soil Research (INI); 2016

Soil Science J.; 2004, 2004, 2012

Soil Science Society of America J.; 2001, 2002, 2002, 2007, 2012

Sugarbeet Research J.; 2004

# External Book Reviews:

Pearson; Interactive Environmental Science; 2017

Pearson; Environmental Science, Wright and Boorse; 2015

Pearson; Environmental Science, Wright; 2011

# External Faculty Review for promotion and tenure:

2017. Dr. Kurt Steinke; Associate Professor at Michigan State University.

# Community Service:

BYU Women’s Conference. Guest speaker: Brigham Young University; 2-3 May 2019: Provo, UT

Member of the Provo City Agricultural Commission. 2016-2017

Woolley, E.A. and **B.G. Hopkins.** 2018. Research and statistics. Guest speaker: Karl G. Maeser Preparatory Academy; 4 Dec. 2018: Lindon, UT.

Church of Jesus Christ of Latter-day Saints Landscape Committee, 2012-present

Church of Jesus Christ of Latter-day Saints Water Conservation Committee, 2012-present

Church of Jesus Christ of Latter-day Saints, President of the Provo Utah Stake (2017-present), Bishop of local congregation (2010-2015), many previous voluntary positions, full-time missionary 1984-86.

Coach of high school and little league football, basketball, soccer, and wrestling teams/clubs, 1998-2011

Agronomic and Environmental Quality Advisor to Democratic Republic of the Congo and Aid Organizations Located in that region, 2008-2010.

Boy Scouts of America (BSA), Scoutmaster/Adult Advisor/Monthly Community Service Project Advisor, 1991-2007.