

Curriculum Vitae

Barry R. Tickes

Chronology of Education:

Arizona State University: 1967 to 1971
B.A. Liberal Arts

Arizona State University: 1973 to 1975
M.S. Agriculture Resource Management
Master's Thesis: "Impediments to Agricultural Development in Iran"
Advisor: Philip Stiles

University of Arizona: 1978 to 1980

Chronology of Employment:

Desert Research Institute, Sde Boker, Israel – 1975 to 1978
Research Associate

University of Arizona Cooperative Extension – 1980 to present

Honors and Awards:

1984 – University of Arizona Cooperative Extension "Extension Faculty of the Year Award"

1987 – Achievement Award, Arizona County Agent's Association

1990 - Distinguished Service Award, Arizona County Agent's Association

2003 – Service Award, Yuma Fresh Vegetable Association

Service/Outreach:

Local/state outreach: This faculty member's primary responsibilities are local and state outreach. Principal programs over the past five year period have involved weed control in field and specialty crops in southwestern Arizona and southern California.

Committees – Departmental, College and University

2005

- Farm Operations Committee, Yuma Agriculture Center
- California Weed Conference Program Planning Committee, agronomic session chair

2004

- Search and Screen Committee, La Paz Co. Cooperative Extension Agent
- Forage and Grain Working Group member, College of Agriculture
- Vegetable IPM Advisory Committee member, College of Agriculture
- Western Alfalfa and Forage Conference, Pest Management Chair
- AZ Seed Trade Association, short course coordinator

2003

- Arizona Forage and Grain Working Group member, College of Agriculture
- Vegetable IPM Advisory Committee member

2002

- Farm Operations Committee, Yuma Agriculture Center
- Search and Screen Committee, Yuma Co. Cooperative Extension Administrative Assistant, Committee chair

2001

- Cooperative Extension Promotion and Continuing Appointment Advisory, Committee member, College of Agriculture

Publications/Creative Activity:

2005

- Richardson, J.M., B.R. Tickles, K.J. Hembree and R.E. Gast. Refining Pronamide Chemigation Parameters in Lettuce. Proc. West. Soc. Weed Sci., p66
- McCreight, James D., Michael Matheron, Barry Tickles, Belinda Platts. Fusarium Wilt Race 1 on Lettuce., HortScience 40(3) June 2005
- Matheron, Michael, James D. McCreight, Barry Tickles, Martin Porchas, Effect of Planting Date, Cultivar, and Stage of Plant Development on Incidence of Fusarium Wilt of Lettuce in Desert Production Fields, Journal of the American Phytopathological Society, June 2005 p. 565-570
- Tickles, B.R., Common Groundsel-An Increasing Weed Pest in the Low Desert. Proceedings of the 2004 Meeting of the California Weed Science Society. 1-11-04
- Tickles, B.R. Evaluation of Herbicides for the Control of Littleseed Canarygrass in Wheat. 2005 College of Agriculture and Life Sciences Forage and Grain Report.
- Rethwich, M., and Tickles, B.R. Evaluation of the Effect of Hexazinone on Alfalfa in the Low Desert. 2005 College of Agriculture and Life Sciences Forage and Grain Report.

2004

- Yuma County Alfalfa Report-10 year Summary . Tickles, B., “Yuma County Alfalfa Report-10 year Summary,” published bi-monthly in the Yuma Sun Newspaper (100%). Published. (100%).
- Yuma County Alfalfa Report. Yuma County Alfalfa Report - Bi monthly report Published. (75%).

- Weed Control in Lettuce with Kerb 50W Applied Through Overhead Sprinklers. Peer-reviewed. Richardson, J.M., Tickes, B.R., Gast, R.E., and Dorich, R. A., 2004 proceedings of the Western Society of Weed Science, pg 58 Published. (75%).
- Summer Weed Control in Alfalfa. Proceedings of the 2004 National Alfalfa Symposium, Dec. 13-15, 2004 pg 95-100, San Diego, CA. Published. (100%).
- Comparison of Oxyfluorfen Formulations For Post Emergence Weed Control In Broccoli and Califlower. Gast, R.E., Fennimore, S. A., Mueller, J.P., Richardson, J.M., Smith, R.F., and Tickes, B.R. 2004 Proceedings of the Western Society of Weed Science. pg 55 Published. (20%).
- Field Evaluations of Lettuce Cultivars For Resistance to Fusarium Wilt: 2 year summary. Peer-reviewed. Matheron, M. E., Tickes, B.R., Prochas, M. and Ford, K.P. College of Agriculture and Life Sciences 2004 Vegetable Report Series AZ1348 Published.
- The Comparison of Aerial and Sprinkler Applied Delayed Applications of Kerb to Lettuce. Peer-reviewed. College of Agriculture and Life Sciences 2004 Vegetable Report Series AZ 1348, pg 98-101. Published. (100%).
- Evaluation of Herbicides for the Control of Littleseed Canarygrass in Wheat - 2004. Peer-reviewed. College of Agriculture and Life Sciences 2004 Forage and Grain Report, pg 43-45 Published. (100%).
- Canarygrass Control in Wheat. Yuma County Farm Notes Dec. 2004 pg. 6-9 Published.
- Kerb Chemigation Practices. Yuma County Farm Notes, Dec. 2004 pg. 3-6 Published. (100%).
- Sandbur Control in Alfalfa. Yuma County Farm Notes, June 2004 pg.13-17 Published. (100%).
- The Comparison of Aerial and Sprinkler Applied Delayed Applications of Kerb to Lettuce. Yuma County Farm Notes, Feb. 2004, pg. 18-22 Published. (100%).
- Common Groundsel - An Emerging Weed Problem in the Low Desert Alfalfa. B. Tickes and E. Norton, Yuma County Farm Notes, Feb. 2004 pg. 23-25 Published. (75%).
- Management of Aphids in Lettuce:Control with Reduced Risk and Conventional Insecticides. J. Palumbo and B. Tickes, Yuma County Farm Notes, Feb. 2004 p. 1-9 Published. (30%).

2003

- Yuma County Alfalfa Report. Bi-monthly report Published. (100%).
- Applying Kerb through Sprinklers to Lettuce. Tickes, B. R.,Dow AgroScience Pest Guidelines publication, Sept. 2003 Published. (80%).
- Alfalfa Weed Control in the Low Deserts of Arizona. Peer-reviewed. College of Agriculture and Life Sciences publication No. AZ1266, July 2002, 4 pages. Published. (100%).
- Weed Control for Wheat and Barley in the Low Deserts of Arizona. Peer-reviewed. College of Agriculture and Life Sciences publication No. AZ1268, July/2002, 2 pages. Published. (100%).
- Bermudagrass Seed Production . Peer-reviewed. UC Pest Management Guidelines, June 2002, 13 pgs. Published. (100%).
- Alfalfa Weed Control Slidechart. Peer-reviewed. Update 2002 Published. (100%).
- Yuma County Farmnotes. Tickes, B., 7 articles in 4 editions in 2003 Published. (100%).
- Yuma County Alfalfa Report. Tickes, B., “Yuma County Alfalfa Report,” Bi-monthly, 2003 Published. (70%).
- Yuma County Farm Notes. Twelve articles in 2 editions in 2002. Published. (100%).

- Yuma County Alfalfa Report-10 year Summary . Tickes, B., “Yuma County Alfalfa Report-10 year Summary,” published bi-monthly in the Yuma Sun Newspaper (100%). Published. (100%).
- Yuma County Alfalfa Report-10 year Summary. Bi-monthly published in the Yuma Sun newspaper. Published. (100%).
- Comparative Efficacy and Phytotoxicity of Two Goal Formulations on Transplanted Broccoli. Peer-reviewed. Tickes, B. R., Richardson, J. M., and Schlesselman, J., “,” Peer-reviewed, Proceedings of the Western Society of Weed Science, 2003, pg. 45 Published. (70%).
- Effect of Stinger on Crops Grown in Rotation. Peer-reviewed. Proceedings in Western Society of Weed Science, Vol. 55, 2002, ISSN009L4487, pg. 49 Published. (100%).
- Timing Kerb Applications in Lettuce. 2003 Proceedings of the California Weed Science Society, Jan 20-22, 2003, Vol. 55, P132-137, Santa Barbara, CA Published. (100%).
- Weed Shifts as a Result of Herbicide Use Patterns in Alfalfa. Published in Proceedings of 2002 Western Alfalfa and Forage Conference, Reno, Nevada, Dec. 12-13, 2002, p. 59-64. Published. (100%).
- Occurrence of Fusarium Root Rot Race 1 on Lettuce in Yuma, AZ . McCreight, J. D., Matheron, M. E., Tickes, B. R. and Platts, B., “Occurrence of Fusarium Root Rot Race 1 on Lettuce in Yuma, AZ,” Abstract, Horticulture Science 38:664 (20%). Published. (20%).
- Evaluation of the Relative Resistance to Lettuce Cultivars to Fusarium Wilt. Matheron, M. E., McCreight, J. D., Tickes, B. R., and Porchas, M., Initial Evaluation of the Relative Resistance to Lettuce Cultivars to Fusarium Wilt,” Phytopathology 94, 2004. Published. (25%).
- Preharvest Control of Broadleaf Weeds . Peer-reviewed. Forage and Grain, A College of Agriculture and Life Sciences Report, Series P135, P955-56 Published. (100%).
- Canarygrass Control in Wheat-2003. Peer-reviewed. Forage and Grain, A College of Agriculture and Life Sciences Report, Series P135, P57-58 Published. (100%).
- Evaluation of Kerb Applied by Sprinkler Irrigation to Lettuce. Peer-reviewed. 2003 Vegetable Report, Series P136, P133-135 Published. (100%).
- Evaluation of Stinger (Clopyralid) for Weed Control in Broccoli. Peer-reviewed. College of Agriculture and Life Sciences Vegetable Report series P-131, AZ1292, August 2002, P. 143-144. Published. (100%).
- Canarygrass Control in Wheat . Peer-reviewed. College of Agriculture and Life Sciences Forage and Grain Report series P-132, AZ 1301, Oct. 2002, pages 65-66. Published. (100%).
- Initial Evaluation of the Relative Resistance of Lettuce Cultivars to Fusarium Wilt. Matheron, M. E., McCreight, J.D., Tickes, B.R. and Porchas, M., “Initial Evaluation of the Relative Resistance of Lettuce Cultivars to Fusarium Wilt,” On-line publication, 2003, No. P-2004-0030-PCA (20%). Published. (20%).
- Evaluation of Lettuce Cultivars for Resistance to Fusarium Wilt in 2003. Matheron, M.E., Tickes, B. R., Porchas, M., Sanchez, C. A., Didier, L. G., and Ford, K. P., “Evaluation of Lettuce Cultivars for Resistance to Fusarium Wilt in 2003,” Vegetable Report, College of Agriculture and Life Sciences, P105-111, 1323. Published. (20%).

2002

- Yuma County Alfalfa Report. Bi-monthly report Published. (100%).
- Alfalfa Weed Control in the Low Deserts of Arizona. Peer-reviewed. College of Agriculture and Life Sciences publication No. AZ1266,

July 2002, 4 pages. Published. (100%).

- Weed Control for Wheat and Barley in the Low Deserts of Arizona. Peer-reviewed. College of Agriculture and Life Sciences publication No. AZ1268,

July/2002, 2 pages. Published. (100%).

- Bermudagrass Seed Production . Peer-reviewed. UC Pest Management Guidelines, June 2002, 13 pgs. Published. (100%).

- Alfalfa Weed Control Slidechart. Peer-reviewed. Update 2002 Published. (100%).

- Yuma County Farm Notes. Twelve articles in 2 editions in 2002. Published. (100%).

- Yuma County Alfalfa Report-10 year Summary. Bi-monthly published in the Yuma Sun newspaper. Published. (100%).

- Effect of Stinger on Crops Grown in Rotation. Peer-reviewed. Proceedings in Western Society of Weed Science, Vol. 55, 2002, ISSN009L4487, pg. 49 Published. (100%).

- Weed Shifts as a Result of Herbicide Use Patterns in Alfalfa. Published in Proceedings of 2002 Western Alfalfa and Forage Conference, Reno, Nevada, Dec. 12-13, 2002, p. 59-64. Published. (100%).

- Canarygrass Control in Wheat . Peer-reviewed. College of Agriculture and Life Sciences Forage and Grain Report series P-132, AZ 1301, Oct. 2002, pages 65-66. Published. (100%).

- Evaluation of Stinger (Clopyralid) for Weed Control in Broccoli. Peer-reviewed. College of Agriculture and Life Sciences Vegetable Report series P-131, AZ1292, August 2002, P. 143-144. Published. (100%).

2001

- Alfalfa Report . 10 year summary, Yuma Daily Sun, bi-monthly Published. (100%).

- Alfalfa Weed Control in the Low Deserts of Arizona. Tickes, B. and Ottman, M., Yuma County Farm Notes, Nov. 2001, p. 12-14 Published. (80%).

- Hazard from Herbicide Used in Previous Crop. Yuma County Farm Notes, Nov. 2001, p. 23 Published. (100%).

- Yuma County Alfalfa Report. Bi-monthly Published. (75%).

- Canarygrass Control in Wheat . Arizona Grain Research and Promotion Council Annual Newsletter, Fall 2001, p. 4 Published. (100%).

- 2001 Chemical Weed Control in Alfalfa - Low Deserts. Yuma County Farm Notes, April 2001, p. 8 Published. (100%).

- Timing Kerb Applications in Lettuce. Yuma County Farm Notes, July 2001, p. 2-7 Published. (100%).

- Yuma County Monthly Average Alfalfa Market Prices 1981-2000. Yuma County Farm Notes, Nov. 2001, p. 2 Published. (100%).

- Weed Control for Wheat and Barley in the Low Deserts of Arizona. Tickes, B. and Ottman, M., Yuma County Farm Notes, Nov. 2001, p. 20-21 Published. (80%).

- Evaluation of Herbicides for the Control of Littleseed Canarygrass in Wheat. Peer-reviewed. Forage and Grain, A College of Agriculture Report, Series P-128, Sept. 2001, p. 69-71. Published. (100%).

- Timing Kerb Applications in Lettuce. Peer-reviewed. University of Arizona Vegetable Report, AZ 12532, Aug. 2001, p. 123-128. Published. (100%).

2000

Improved Weed Control with the Delayed Application of Pronamide (Kerb) in Lettuce. Tickes, B.R., Improved Weed Control with the Delayed Application of Pronamide (Kerb) in Lettuce; Proceedings of the International Lettuce and Leafy Vegetable Conference, pg. 15 Published. (100%).

- Newspaper Article. Farming in Yuma - Yuma Daily Sun, 6 times per year Published. (100%).
- Alfalfa Report. Alfalfa Report - 10 year Summary, Yuma Daily Sun, Bi-monthly Published. (100%).
- Canarygrass Control in Wheat. Tickes, B.R.; Canarygrass Control in Wheat, Arizona Grain Research and Promotion Council Annual Newsletter, Fall 2000, p. 8 Published. (100%).
- Alfalfa Report. Yuma County Alfalfa Report, Bi-monthly Published. (60%).
- Why Replications?. Tickes, B., Why Replications? Yuma County Farm Notes, Feb. 2000, p. 14. Published. (100%).
- Weed Control in Wheat and Barley. Tickes, B., Weed Control in Wheat and Barley, Yuma County Farm Notes, Feb. 2000, p. 17-18. Published. (100%).
- Yuma County Alfalfa Season Average Prices. Tickes, B., Yuma County Alfalfa Season Average Prices, 1965-1999. Published. (100%).
- Improved Weed Control with the Delayed Application of Kerb in Lettuce. Tickes, B.; Improved Weed Control with the Delayed Application of Kerb in Lettuce, Yuma County Farm Notes, August 2000, p. 11-13. Published. (100%).
- Herbicide Granules. Tickes, B.; Herbicide Granules, Yuma County Farm Notes, June 2000, p. 3-12. Published. (100%).
- Evaluation of Herbicides for the Control of Littleseed Canarygrass in Wheat, Forage and Grain, A College of Agriculture Report, Series P-124, Oct. 2000, p. 137-138. Peer-reviewed. Tickes, B. 2000. Evaluation of Herbicides for the Control of Littleseed Canarygrass in Wheat Published. (100%).
- Nitrogen-15 and Bromide Tracers of Nitrogen Fertilizer Movement in Irrigated Wheat Production. Peer-reviewed. Ottman, M.J., Tickes, B.R., and Husman, S.H, Nitrogen-15 and Bromide Tracers of Nitrogen Fertilizer Movement in Irrigated Wheat Production, Journal of Environmental Quality, Vol. 29, No. 5, Sept.-Oct. 2000, p. 1500-1508 Published. (30%).

Work in Progress:

Current projects include weed control in vegetable and field crops. Emphasis is upon the evaluation of new products in the developmental phase and maximizing the performance of older, already registered products.

Media:

- A monthly newspaper column title "Farming in Yuma" in the Yuma Daily Sun, was published between 1980 and 2000.
- A monthly 15 minute television segment was done between 1980 and 2000.
- A first place national award was received for an educational video as part of the County Agricultural Agents Media Awards in 1987.

Scholarly Presentations:

2005

- Cochella Valley Pest Management Seminar, “Maximizing Herbicide Efficacy in Lettuce” Indio, California
- Fall Pest Management Seminar, “Update on the Development of New Vegetable Herbicides”, Yuma, AZ 1-26-05
- Wilcox, Arizona Farmer’s Day, “Alfalfa and Wheat Weed Control”, Wilcox, AZ, 1-2-05
- Alfalfa Field Day, “Groundsel Control in Alfalfa”, Blythe, CA, 4-21-05
- Desert Agriculture Conference, “Common Groundsel – An Increasing Weed Pest in the Low Desert”, Casa Grande, AZ, 5-11-05
- Bayer Crop Science Product Seminar, “Maximizing the Performance of Lettuce Herbicides”, San Diego, CA, 7-28-05
- Dune Co. Fieldman Seminar, “Lettuce and Cole Crop Weed Control”, Yuma, AZ 9-22-05
- California Weed Science Society Annual Conference, “Common Groundsel, a New Pest in the Low Desert”, 1-11-05

2004

- Progressive Growers Meeting, “Lettuce Cole Crop Herbicides”, Blythe, CA, 1-29-04
- National Alfalfa Symposium, “Summer Weed Control in Alfalfa”, San Diego, CA, 2-13-04
- Bayer Crop Science Product Update Meetings, “Weed Control in Wheat and Barley”, Yuma, Parker, Goodyear and Casa Grande, AZ 10-10-04
- Valent Product Update Meeting, “Section 18 Registration for Chateau Herbicide in Arizona Alfalfa”, Anaheim, CA, 10-23-04
- Alfalfa Production Meetings, “Herbicide Use in Arizona Alfalfa”, Bullhead City and Parker, AZ 9-30-04
- Fall Pest Management Meeting, “Vegetable Herbicide Recommendations for Alfalfa and Southern California”, Yuma, AZ, 8-11-04
- Progressive Farmer’s Meeting, “Common Groundsel Control in Alfalfa”, Blythe, CA, 1-29-04
- Groundsel Field Day, “Herbicide Demonstrations for Groundsel Control in Alfalfa”, Poston, AZ
- Desert Agriculture Conference, “Herbicide Update”, Casa Grande, AZ 5-12-04

2003

- California Weed Science Society Annual Conference, “The Effect of Irrigation Practices on Lettuce Herbicides”, Santa Barbara, CA, 10-20-03
- Alfalfa Production Meeting, “The Proper Use of Alfalfa Herbicides”, Parker and Bullhead City, AZ, 2-11-03
- Arizona Alfalfa and Forage Association Annual Meeting, “An Historical Perspective on Alfalfa Herbicides”, Maricopa, AZ 3-13-03
- Vegetable Seed Production Short Course, “Weed Control in Cole Crops”, Yuma, AZ 1-14-03
- Sakata Seed Co. Grower’s Update Meeting, “Cole Crop Weed Control”, Yuma, AZ 3-20-03

- PAPA Meeting, “The History of Herbicides for the Low Desert”, Holtville, CA 4-30-03
- Desert Agriculture Conference, “Research Update on Weed Control”, Yuma, AZ 5-14-03
- Dune Co. Fieldman Seminar, “Vegetable Weed Control Research Update”, Big Bend, CA 6-27-03
- Imperial Co., California Crop Production Meeting, “Kerb Chemigation to Lettuce”, El Centro, CA 12-15-03
- Alfalfa Production Meeting, “Alfalfa Weed Control Update”, Parker, AZ 2-11-03
- Gowan Company Annual Conference, “The Effect of Irrigation Practices on Vegetable Herbicides”, San Diego, CA, 12-15-03

2002

- Alfalfa Production Meeting, “Alfalfa Weed Control Research Update”, Parker and Bullhead City, AZ 4-3-02
- Dune Company Seminar, “Update on Vegetable Weed Control”, Yuma, AZ 4-24-02
- Desert Agriculture Conference, “Herbicide Research Update”, Yuma, AZ 5-8-02
- CAPCA Annual Meeting, “Herbicide Resistance – How and Why”, Blythe, CA 5-22-02
- FMC Annual Product Update Meeting, “The Proper Use of Burndown Herbicides in Field Preparation for Vegetable Crops”, San Diego, CA 8-17-02
- Crop Management Meeting of UC Extension, Imperial County, “Herbicide Update”, Brawley, CA 9-12-02
- Western Alfalfa and Forage Conference, “An Historical Perspective on Herbicides in Alfalfa”, Reno, NV, 11-12-02

2001

- Salinas Valley Weed School, “The Effect of Irrigation Practices on Lettuce Herbicides”, Monterey, CA, 11-28-01
- Product Meeting Update, “Herbicides for Wheat, Barley and Alfalfa”, Parker and Bullhead City, AZ 3-20-01
- FMC & BASF Pest Control Advisor Training Meeting, Yuma, AZ 1-25-01
- Pest Management Seminar, “Vegetable Herbicide Update”, Casa Grande, AZ 9-25-01
- Fall Pest Management Update, “Lettuce Weed Control”, Yuma, AZ 8-21-01
- PAPA Seminar, “Weed Pest Control Update”, Yuma, AZ 2-1-08

Grants and Contracts:

Source	Amount	Project
2005		
USDA Cooperative State Research & Extension Service	128,722 (20%)	Development of a new leafy vegetable weed Management Program on Lettuce germplasm tolerant to ALS-Inhibitor herbicides.
Valent	7,000	Evaluation of Select Max on onions, lettuce and alfalfa
AZ. Grain Research & Promotional Council	2,500	Canarygrass control in wheat
Bayer Crop Science	3,250	Evaluation of Osprey, Puma and Horizon for weed control in wheat and bermudagrass
Valent	2,500	Weed control in alfalfa
AZ Iceberg Lettuce	7,500	Establishment of quantitative guidelines for evaluating herbicide

Research Council		injury in lettuce
BASF	3,000	Evaluation of Outlook for weed control in bermudagrass
Syngenta		Evaluation of water-run applications of Norflurazon in alfalfa
Valent	4,500	Evaluation of Chateau for groundsel control in alfalfa
2004		
Gowan Co.	6,000	Eptam and Prefar evaluation
Dow Agrisciences	15,000	Kerb chemigation & Goal evaluation
AMVAC	2,500	Dacthal Irrigation Study
Syngenta	1,000	Dual Magnum and Solicam Evaluation
Dupont	3,000	Layby Pro Evaluation in Cotton
AZ Grain Research & Promotion Council	2,300	Canarygrass Control in Grain
AZ Iceberg Lettuce Research Council	6,000	Kerb Chemigation Practices
Gowan Co.	4,500	Eptam and Prefar Evaluations
BASF	4,000	Bermudagrass Weed Control
BASF	3,000	Weed Control in Bermudagrass Grown for Seed
2003		
AMVAC	2,500	Dacthal on Cole Crops
AZ. Dept. of Ag. Specialty Crops Grant	120,000 (20%)	Fusarium Wilt in Lettuce
Valent	1,500	Clethodim Tolerance in Broccoli
Gowan Co.	2,000	Halosulfuron Plant Back
BASF	1,000	Raptor in Alfalfa
Syngenta	2,000	Metolachlor on Broccoli
AZ Iceberg Lettuce Research Council	5,000	Kerb Chemigation
Seed Trade Assoc. of Arizona	1,500	Vegetable Seed Production Short Course
Arizona Grain Council	2,000	Canarygrass Control in Wheat
Dow Agrisciences	13,000	Kerb Chemigation
AMVAC	4,000	Dacthal on Cole Crops
Monsanto	4,000	Roundup Ready Alfalfa
Bayer	500	Metribuzin in Alfalfa
AZ Iceberg Lettuce Research Board	2,500	Kerb Chemigation in Lettuce
AZ Iceberg Lettuce Research Board	26,638 (20%)	Evaluation of Lettuce Cultivars for Resistance to Fusarium Wilt
AZ Grain Research and Promotion Council	2,000	Canarygrass Control in Wheat-grant
Valent	3,000	Sandbur Control in Alfalfa & Chateau Plantback
BASF	5,000	Weed Control in Bermudagrass
BASF	2,000	Malva Control in Alfalfa
Syngenta	2,500	Dual Magnum in Onions
Dow Agrisciences	4,000	Goal in Broccoli
BASF	1,500	Raptor & Pursuit in Alfalfa
Syngenta	3,000	Preharvest Weed Control in Wheat
Bayer	4,500	Canarygrass Control in Wheat-gift
2002		

Valent	1,500	Clethodim tolerance in Broccoli
Monsanto	4,000	Roundup ready Alfalfa
AMVAC	4,000	Dacthol on Cole Crops
Dow Agrisciences	13,000	Kerb Chemigation
Arizona Grain Research & Promotion Council	2,000	Canarygrass Control in Wheat
Seed Trade Assoc. of AZ	1,500	Vegetable Seed Production Short Course
Bayer	500	Metribuzin in Alfalfa
Syngenta	2,000	Metolachlor on Broccoli
BASF	1,000	Raptor in Alfalfa
Gowan Co.	2,000	Halosulfuron Plant Back
2001		
Aventis	2,000	Canarygrass Control in Wheat
Gowan Co.	3,000	Halosulfuron in Specialty Crops
Dow Agrisciences	3,000	Clopyralid in Broccoli
Bayer	1,500	Metribuzin in Alfalfa
AZ Grain Research and Promotion Council	2,000	Canarygrass Control in Wheat
Gowan Co.	3,000	Halosulfuron Plant Back Study
BASF	2,000	Imazamox in Alfalfa
Seed Trade Assoc. of AZ	1,000	Clopyralid in Cole Crops for Seed
Valent	1,500	Clethodim in Cole Crops