

PESTICIDE REPORTS

Division of Agricultural Sciences and Natural Resources • Oklahoma State University
<http://pested.okstate.edu>



AUGUST 2008

CHEM

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DRIFT!!

This year appears to be another year of drift onto cotton.

With the upcoming preparation to plant wheat, **all** applicators need to be careful in preparing wheat ground. Applicators need to be aware of the herbicides they are using for wheat ground preparation. You can visit our web site at <http://pested.okstate.edu> and click on *Mode of Action* to see the mode of action lists. Auxin and sulfonylurea herbicides may present concerns to sensitive crops and applicators should take care to not spraying in weather that may increase drift – high winds toward sensitive crops.

Applicators must clean their tanks after each application to ensure that herbicide carryover is not an issue on the next spray job. (OSU PSEP)

GMO USE IN THE U.S.

USDA-ERS has released information on the use of genetically engineered (GE) crops in the United States.

Adoption has been steadily increasing since the introduction of GE crops in 1996.

Herbicide tolerant (HT) crops have greatly increased in acreage. HT soybeans went from 17% of the U.S. acreage in 1997 to 68% in 2001 and 92% in 2008. Plantings of HT cotton expanded from about 10% of the U.S. acreage in 1997 to 56% in 2001 and 68% in 2008. The adoption of HT corn has reached 63% of the U.S. acreage.

Insect-resistant crops have also increased in acreage. Bt corn grew from about 8% of the U.S. plantings in 1997 to 26% in 1999 and decreased to 19% in 2000 and 2001 but rebounded to 57% in 2008. The recent increase may be due to the introduction in 2003/2004 of Bt corn that is resistant to the corn rootworm. Bt cotton acreage in 1997 was 15% and increased to 37% in 2001 and 63% in 2008.

These figures include adoption of “stacked” varieties of cotton and corn which have both HT and Bt traits. Adoption of stacked varieties has increased. Stacked

cotton reached 45% of cotton plantings in 2008. Plantings of staked corn made up 40% of corn acres in 2008.

Adoption of all GE cotton, taking into account the acreage with either or both HT and Bt traits, reached 86% in 2008, versus 92% for soybeans. Adoption of all biotech corn was 80% in 2008. (USDA-ERS <http://www.ers.usda.gov/Data/BiotechCrops/adoption.htm>)

MORE FROG STUDIES

A study published in *Environmental Health Perspectives* reports that cane toads (*Bufo marinus*) gonadal development is affected by agriculture chemicals.

A University of Florida study analyzed dozens of local adult cane toads collected at each of five far-from-pristine sites in Florida. Some toads had been living in city suburbs, others at venues near anything from a little farming to heavy agriculture.

As farming increased so did the proportion of males exhibiting a serious feminization the report states.

At sites associated with heavy agriculture (where half to 97% of the nearby land was farmed), only about 40% of the males had typical he-toad gonads and coloring. An equal number were intersex animals, possessing both testes and ovaries.

The study does not speculate on what might have been in the tadpoles' water to have feminized them, but a primary suspect is atrazine. (Food Industry Environmental Network, July 3, 2008)

EU ADOPTS NEW PESTICIDE LAW

EU member states approved a controversial new regulation on pesticides at the Agricultural Council in Luxembourg that will reduce the number of crop chemicals that can be sold in the European Union.

The U.K., Ireland, Hungary and Romania abstained from the vote, saying that the final text was too restrictive and focused too much on hazard analysis of pesticides rather than risk analysis.

However, the remaining member states, making a qualified majority, voted in favor of the new regulation that will impose strict criteria for active substances permitted in pesticides. The decision was approved earlier by the council's "Coreper" committee of national experts.

The proposed changes, to be debated by the European Parliament in the fall, would replace a 1991 law, and let groups of countries with similar geography and climate decide if farmers may use specific products.

EU countries would be divided into three zones: north, center and south, so that pesticides could be approved for a region rather than a country. At present, only individual country approvals exist. Rules would be tightened for more toxic pesticides, while those seen as less hazardous to human and animal health would become easier to approve for an indefinite time period.

The U.K. Secretary of State for the Environment, Food & Rural Affairs, Hilary Benn, claimed that the U.K. could not support legislation which had involved "no assessment of the impact on agriculture nor on consumers."

Benn cited a lack of proven health benefits, echoing the concerns of the

crop protection industry and of many farmers who have called for risk-based rather than hazard-based criteria.

European Crop Protection Association Director General Friedhelm Schmider also questioned the scientific logic behind the deal: “Just because a product has hazardous properties does not mean it is dangerous.

“Proper risk evaluations of products are required to determine this, taking the dose and actual use into consideration – just as coffee and alcohol are hazardous at high doses, normal use poses no risk to health.”

A concession was offered in the form of a derogation to allow the exceptional use of harmful substances when proven that no crop protection alternative exists on the market.

The derogation will only be permitted for a limited period of time – up to five years – and never for mutagens or human carcinogens.

The law has to go for a second reading at the European Parliament and need adoption by the council before becoming final. (Pesticide & Toxic Chemical News, Vol. 36, No 35, June 30, 2008)

SULFLURAMID REREGISTRATION REVIEW

EPA has published notice of the Reregistration Review for sulfluramid (FistLine)

EPA has concern about bioaccumulation in the environment from the breakdown product perfluorooctane sulfonate (PFOS). PFOS is soluble and bioaccumulates in the environment. EPA is concerned about potential exposure to animals.

There is also some indication that PFOS accumulates in the liver and is very slowly released.

EPA also has concern about exposure to children (less than six years old) to ant/roach baits and lawn applications of the product. EPA estimates that a child ingesting an ant/roach stations would receive an excessive exposure. EPA also based its turf exposure study on a child consuming 0.3g of active per day from a turf application.

Comments are accepted until September 22, 2008. (EPA Docket EPA-HQ-OPP-2007-1083)

SESAME HERBICIDE

EPA has approved a tolerance for sethoxydim on sesame. This was done through the USDA IR-4 program.

The label should be appearing this fall. You will need to check each sethoxydim product label for sesame as all the manufactures may not include sesame on their label. (OSU PSEP, Federal Register July 9, 2008)

IR-4 NEW USES

Through the efforts of USDA’s IR-4 program and OSU PSEP several pesticides have received registrations.

Among these are pyridaly on mustard greens; flonicamid on turnip greens; buuprofezin on Vegetable fruiting group 8; methoxyfenozide on peanut; myclobutanil on okra. (OSU PSEP)

PCO PLEADS GUILTY OF PERMITTING INFESTED AG PRODUCTS TO ENTER THE U.S.

Arturo Ramirez, the owner of a pest control service located in Laredo, has pleaded guilty to illegally permitting infested agricultural products to enter the U.S. from Mexico, United States Attorney Don DeGabrielle announced. Ramirez owns Ambush Exterminators and will be sentenced Sept. 3, 2008.

Ramirez pleaded guilty to six counts of the superseding indictment before U.S. District Judge Micaela Alvarez. As part of the guilty plea, Ramirez admitted that beginning in or about 2005, and continuing to April 15, 2008, he conspired with others to not properly perform fumigations, thereby permitting agricultural products infested with a plant pest to enter the United States.

U.S. Customs and Border Protection (CBP) agricultural inspectors are responsible for initially inspecting trucks carrying agricultural products into the United States via Laredo from Mexico. At or near the initial inspection, CBP agricultural inspectors send a sample of any agricultural product suspected of being infested with a plant pest to plant protection and quarantine for a final determination. If a determination is made that a truck entering the U.S. is carrying an agricultural product infested with a plant pest, the infested product must be fumigated before the truck is permitted to leave Laredo.

A plant protection and quarantine officer is required to be present during the fumigation, because the officer must make initial calculations regarding the level of gas needed to spray the

agricultural product infested with a plant pest and subsequently advise the fumigation technician of the same prior to beginning the fumigation. Following this, the officer is required to submit a written report to the USDA documenting the fumigation results. The truck carrying the agricultural products is not permitted to leave Laredo until the plant protection and quarantine officer provides consent.

The fumigations normally occur after-hours, and the plant protection and quarantine officers are paid overtime for their work related to the fumigations. The overtime paid to the plant protection and quarantine officers as well as the cost for the company performing the fumigations are ultimately passed onto either the Mexican exporter or the owner of the agricultural goods.

As part of his guilty plea, Ramirez admitted he would seek payment from the freight forwarding company/customs broker for fumigations that Ambush never properly performed.

Jose Homero Reyes, 48, and Robert Perez, 35, both of whom previously worked as USDA plant protection and quarantine officers, are also charged in the superseding indictment. Reyes and Perez are pending trial and presumed innocent unless convicted through due process of law. Rafael Edmundo Melo Jr., a fourth USDA plant protection and quarantine officer, was originally charged in a 29-count indictment. The case against Melo was dismissed by the government after he committed suicide.

The investigation leading to these guilty pleas was a joint investigation by the FBI's Public Corruption Task Force and the USDA - Office of Inspector General. The Task Force includes the Laredo Police Department, Department of Homeland Security - Office of the

Inspector General and CBP - Office of Internal Affairs. Special agents from Immigration and Customs Enforcement also assisted in the operation. The case is being prosecuted by Assistant United States Attorney Sam Sheldon and James Seaman. (PCT online July 7, 2008 <http://www.pctonline.com/news/news.asp?ID=6107>)

CHLORPYRIFOS REVIEW

EPA is seeking nominations to an ad hoc Federal Insecticide, Fungicide, and Rodenticide Act Scientific Advisory Panel (SFIREG SAP) to consider and review EPA's evaluation of the toxicity profile of chlorpyrifos.

Some of the main focus of this review will be interpretation of recent epidemiological studies associating in utero and/or post-natal chlorpyrifos exposure with health outcomes and cholinergic and non-cholinergic modes/mechanisms of toxicity which are relevant to evaluating hazard and risk to infants and children. (Federal Register, July 9, 2008)

PYRETHROID REVIEW

EPA had a meeting scheduled for June to consider and review an evaluation of the common mechanism of action of pyrethroid pesticides. This would be a part of EPA's charge under FQPA.

The meeting was canceled and rescheduled.

Our reason for reporting this is that if the decision is the pyrethroids have the same mechanism of action then all their

tolerances and registrations (label uses) will act as one insecticide in the review process. If you recall, EPA avoided this with the organophosphate insecticides by separating the various cholinesterase sites as not being the same mode of action. (OSU PSEP, Federal Register, July 9, 2008)

FENVALERATE CANCELLED

The last registrations for fenvalerate (one of the first pyrethroid insecticides) have been cancelled. The companies requested voluntary cancellation of all their fenvalerate products and EPA consented.

Most of the remaining registrations were for residential and homeowner uses. (Federal Register, July 9, 2008)

WHAT'S AN AMERICAN LIFE WORTH?

An AP release reported that the "value of a statistical life" is \$6.9 million a drop of nearly \$1 million from 2003.

EPA estimates the value of a life when conducting cost-benefits for various regulations. Some of these regulations involved pesticides.

The change can make a difference in whether a regulation provides a cost or benefit to society.

Some groups claim the Bush administration has changed the value of a life to provide support that a regulation is not beneficial or is too costly. (EPA e-mail and AP Release, July 10, 2008)

EPA CONTAINER RECYCLING PROGRAM ON HOLD

OMB has informed EPA that OMB does not think EPA has met all the federal requirements for justifying the program. Thus, the regulation is on hold.

OMP stated “However, it remains unclear whether providing the proposed recycling program will result in a meaningful reduction in the improper disposal of these containers.”

OMB has instructed EPA to review their costs estimates to “... analyze other alternatives, including alternatives that may increase net benefits and potentially reduce burdens on small businesses.”

In addition, other industries have not supported the pesticide industry in the recycling rule. Other industries see this as a president setting regulation that may begin required recycling for other industries. (OSU PSEP)

EPA REJECTS NRDC’S DDVP OBJECTIONS

EPA has denied NRDCs objection to EPA not revoking all tolerances for DDVP.

In short, EPA denied NRDC claims that EPA’s child safety exposure estimates were flawed. EPA also stated “several sub-issues do not present an issue of genuinely-disputed fact. “ Instead, NRDC raises issues presenting purely legal or policy questions or questions involving the application of legal standards to undisputed facts.” (Federal Register, July 23, 2008)

EPA REVIEWING SEED TREATMENTS

As a result of bee deaths in Germany associated with the use of the pesticide clothianidin, EPA is evaluating its practices regarding label requirements for seed treatment pesticides and will revise them if necessary.

“Our initial focus will be on seed treatment pesticides that we know are toxic to bees and whether the use of stickers or coatings should be required, “ EPA said. “We want to make sure that seed treatment is done according to best practices that minimize human and environmental exposure.”

According to EPA, the agency has received a number of inquires on whether the deaths were related to Colony Collapse Disorder. David Mendes, vice president of the American Beekeeping Federation, recently testified before a House Agriculture subcommittee that Germany banned clothianidin because of concern that it was causing CCD.

But according to the agency, “Based on discussions with German authorities, EPA believes this incident is not related to CCD. Although pesticide exposure is one of four theoretical factors associated with CCD that the [USDA] is researching, the facts in this case are not consistent with what is know about CCD.” (Pesticide & Toxic Chemical News, Vol. 36 No 36, July 7, 2008)



Jim T Criswell
Pesticide Coordinator

PESTICIDE APPLICATOR TEST SESSIONS

AUGUST 2008

All 23 exams will be available at each session. **PLEASE MAKE SURE** you know in advance which specific exam(s) you need to take (e.g. Service Tech, Ornamental & Turf, Core, Right-of-way, General Pest, etc.).

RESERVATIONS ARE NOT REQUIRED FOR THESE TEST SESSIONS; they are all open to anyone wishing to test for certification. Tests are \$50.00 each; please bring check, money order or the exact amount of cash needed for testing, along with a form of photo ID. There is no fee for government employees in the discharge of their official duties.

Unless otherwise noted, sessions are located as follows:

ALTUS	WESTERN OK STATE COLLEGE 2801 N MAIN, RM A23
ENID	GARFIELD CO. EXT OFFICE 316 E. Oxford
GOODWELL	OKLA PANHANDLE RESEARCH & EXT CENTER Rt. 1 Box 86M
HOBART	KIOWA CO. FAIRGROUNDS Exhibit Building
LAWTON	GREAT PLAINS COLISEUM Annex Rm 920 S. Sheridan Rd.
McALESTER	KIAMICHI TECH CENTER on HWY 270 W of HWY 69
OKC	OKLA CO. EXT 930 N. Portland, Auditorium - <u>Park & enter</u> from the North side
TULSA	NE CAMPUS OF TCC 3727 E. Apache (Apache & Harvard) Engineering Tech Rm. 127

If you have any questions, please call (405) 522-5950 or e-mail
eva.landeros@oda.state.ok.us

Testing will begin at 9:00 am. NO NEW APPLICANTS WILL BE ACCEPTED AFTER 11 AM.

ALL TESTS must be completed by 1:00 pm

2008 Test Sessions

August	
11	OKC
14	TULSA
28	ENID
28	TULSA
September	
4	ALTUS
8	OKC
11	TULSA
22	OKC
25	TULSA
October	
9	TULSA
13	OKC
22	ALTUS
23	TULSA
27	OKC
November	
4	GOODWELL
6	TULSA
10	OKC
17	HOBART
20	TULSA
20	LAWTON
24	OKC
December	
2	GOODWELL
4	TULSA
8	OKC
11	ENID
18	TULSA
22	OKC

OPPORTUNITIES TO EARN CEU'S

AUGUST 21, 2008

CATEGORY: 3a – ORNAMENTAL & TURF
CEU'S: 2
CATEGORY: 7a – GENERAL PEST
CEU'S: 1
CATEGORY: 7b – STRUCTURAL
CEU'S: 1
CATEGORY: ALL
CEU'S: 1
SPONSOR: CTN
TOPIC: PEST MANAGEMENT INFORMATION
PLACE: OKLAHOMA CITY, OK
CONTACT: MICHELLE
512.288.8288
FEE: YES

AUGUST 26-27, 2008

CATEGORY: 7a – GENERAL PEST
CEU'S: PENDING
CATEGORY: 7c – FUMIGATION
CEU'S: PENDING
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: PENDING
CATEGORY: 11 – BIRD & PREDATORY ANIMAL
CEU'S: PENDING
SPONSOR: IFC & AIB
TOPIC: AIB/FSIS RECERTIFICATION SEMINAR
PLACE: EMBASSY SUITES
KANSAS CITY AIRPORT
CONTACT: PAUL LAUGHLIN
913.782.6399
FEE: YES

SEPTEMBER 11-12, 2008

CATEGORY: 7a – GENERAL PEST
CEU'S: PENDING
CATEGORY: 7b – STRUCTURAL
CEU'S: PENDING
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: PENDING
SPONSOR: OPCA
TOPIC: PEST MANAGEMENT IN PEST CONTROL
PLACE: CLARION CONVENTION CENTER
737 S. MERIDIAN
OKLAHOMA CITY, OK
CONTACT: ROSA FISK
405.685.2036
FEE: YES

SEPTEMBER 17, 2008

CATEGORY: 3a – ORNAMENTAL & TURF
CEU'S: PENDING
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: PENDING
SPONSOR: TURF FIELD DAY
TOPIC: TURF MANAGEMENT
PLACE: OSU TURF CENTER
STILLWATER, OK
CONTACT: STEPHANIE LARIMER
405.744.5404
FEE: YES

SEPTEMBER 23-25, 2008

CATEGORY: 3a – ORNAMENTAL & TURF
CEU'S: PENDING
CATEGORY: 5 – AQUATIC
CEU'S: PENDING
CATEGORY: 6 – RIGHT-OF-WAY
CEU'S: PENDING
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: PENDING
SPONSOR: OKVMA
TOPIC: 2008 FALL CONFERENCE
PLACE: SOUTHER HILLS HILTON
7902 SOUTH LEWIS
TULSA, OK
CONTACT: KATHY MARKHAM
918.256.9302
FEE: YES

SEPTEMBER 28 - OCTOBER 1, 2008

CATEGORY: 3c – NURSERY/GREENHOUSE
CEU'S: PENDING
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: PENDING
SPONSOR: ASSOCIATION OF FLORICULTURE PROFESSIONALS
TOPIC: PLUG & CUTTING CONFERENCE
PLACE: ORLANDO, FL
CONTACT: MICHELLE MAZZA
614.487.1117
FEE: YES

OCTOBER 8, 2008

CATEGORY: 7c – FUMIATION
CEU'S: PENDING
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: PENDING
SPONSOR: OSU STORED PRODUCT TEAM
TOPIC: FUMIGATION WORKSHOP
PLACE: SPREC
RANGE ROAD
STILLWATER, OK
CONTACT: JIM CRISWELL FOR PROGRAM
405.744.5531
AGRICULTURAL CONFERENCE FOR REGISTRATION
405.744.6489
FEE: YES

OCTOBER 9, 2008

CATEGORY: 7c – FUMIATION
CEU'S: PENDING
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: PENDING
SPONSOR: OSU STORED PRODUCT TEAM
TOPIC: FUMIGATION WORKSHOP
PLACE: SPREC
RANGE ROAD
STILLWATER, OK
CONTACT: JIM CRISWELL FOR PROGRAM
405.744.5531
AGRICULTURAL CONFERENCE FOR REGISTRATION
405.744.6489
FEE: YES

NOVEMBER 4-7, 2008

CATEGORY: 1a – AGRICULTURAL PLANT
CEU'S: PENDING
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: PENDING
SPONSOR: OARA
TOPIC: AGRICULTURE PEST MANAGEMENT
PLACE: CLARION CONVENTION CENTER
OKLAHOMA CITY, OK
CONTACT: TAMMY MILLER
580.233.9516
FEE: YES

JANUARY 19-21, 2009

CATEGORY: 1a – AGRICULTURAL PLANT
CEU'S: PENDING
CATEGORY: AERIAL
CEU'S: PENDING
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: PENDING
SPONSOR: OAAA
TOPIC: ANNUAL CONFERENCE
PLACE: BILTMORE HOTEL
401 S MERIDIAN
OKLAHOMA CITY, OK
CONTACT: SANDY WELLS
405.341.3548
FEE: YES

ONGOING

CATEGORY: 3a – ORNAMENTAL & TURF
CEU'S: 4
CATEGORY: 10 - DEMONSTRATION & RESEARCH
CEU'S: 4
SPONSOR: UNIVERSITY OF GEORGIA
TOPIC: PRINCIPLES OF TURFGRASS MANAGEMENT
PLACE: CORRESPONDENCE COURSE
CONTACT: PHYLISS BREWER
706.542.6692
FEE: YES

ONGOING

CATEGORY: 3a – ORNAMENTAL & TURF
CEU'S: 2
CATEGORY: 7a – GENERAL PEST
CEU'S: 1
CATEGORY: 7b - STRUCTURAL
CEU'S: 1
CATEGORY: 10 - DEMONSTRATION & RESEARCH
CEU'S: 6
CATEGORY: ALL CATEGORIES
CEU'S: 2
SPONSOR: CHRYSALIS EDUCATION & CONSULTING
TOPIC: O&T, GENERAL PEST & STRUCTURAL
PLACE: HOLIDAY INN
CONTACT: 3101 N. DALLAS PKW
PLANO, TX
DENNIS MALONEY
806.468.8583
FEE: YES

ELECTRONIC PROGRAMS

CATEGORY: VARIOUS
CEU'S: 1
SPONSOR: UNIVAR
TOPIC: VARIOUS
PLACE: INTERNET – WWW.PESTWEB.COM
CONTACT: JEFF SMITH
916.371.7602
FEE: NO

ELECTRONIC PROGRAMS

CATEGORY: 3a – ORNAMENTAL & TURF
CEU'S: 1
SPONSOR: UNIVAR
TOPIC: WEED CONTROL – THE HERBICIDES #604
PLACE: INTERNET – WWW.PESTWEB.COM
CONTACT: JEFF SMITH
916.371.7602
FEE: NO

ELECTRONIC PROGRAMS

CATEGORY: 7a – GENERAL PEST
CEU'S: 1
SPONSOR: UNIVAR
TOPIC: GOING GREEN & ORGANIC #207
PLACE: INTERNET – WWW.PESTWEB.COM
CONTACT: JEFF SMITH
916.371.7602
FEE: NO

ELECTRONIC PROGRAMS

CATEGORY: 7a – GENERAL PEST
CEU'S: 3
CATEGORY: 7b - STRUCTURAL
CEU'S: 1
SPONSOR: WHITMIRE MICRO-GEN
TOPIC: PRESCRIPTION TREATMENT UNIVERSITY
PLACE: WHITMIRE WEB SITE
CONTACT: JODI WILSON
880.777.8570
FEE: YES

ELECTRONIC PROGRAMS

CATEGORY: VARIOUS
CEU'S: VARIOUS
SPONSOR: PEST NETWORK
TOPIC: VARIOUS
PLACE: PESTNETWORK.COM
CONTACT: MEL YELL
512.626.1645 CELL
FEE: YES

ELECTRONIC PROGRAMS

CATEGORY: 1a – AGRICULTURAL PLANT
CEU'S: 1
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: 1
SPONSOR: Pest Network
TOPIC: GREENBUG MANAGEMENT
PLACE: www.pestnetwork.com
CONTACT: CHARLES COLE
979.732.0501
FEE: YES

ELECTRONIC PROGRAMS

CATEGORY: 1a – AGRICULTURAL PLANT
CEU'S: 1
CATEGORY: 10 – DEMONSTRATION & RESEARCH
CEU'S: 1
SPONSOR: SOUTHWEST FARM PRESS
TOPIC: SPRAY DRIFT MANAGEMENT
PLACE: WWW.SOUTHWESTFARMPRESS.COM
CONTACT: HARRY CLINE
512.288.8288
FEE: YES

ELECTRONIC PROGRAMS

CATEGORY: VARIOUS
CEU'S: VARIOUS
SPONSOR: UNIVAR
TOPIC: VARIOUS – GENERAL PEST CONTROL
PLACE: [HTTP://WWW.PESTWEB.COM](http://WWW.PESTWEB.COM)
CONTACT: VIC PRRALEZ
888.755.5566
FEE: YES

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