

**CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE (CDFA)  
FERTILIZER INSPECTION ADVISORY BOARD (FIAB)**

**University Square Hotel  
4961 N Cedar Avenue  
Fresno, CA 93726**

**May 11, 2016  
9:00 a.m.**

**MINUTES**

**MEMBERS**

Andrew Godfrey  
Brad Baltzer, Chair  
David McEuen  
Doug Graham  
Gary Silveria  
Jake Evans  
Melissa McQueen  
Ron Naven

**MEMBERS ABSENT**

Steve Spangler

**CDFA**

Amadou Ba  
Barzin Moradi  
Brittnie Sabalbro  
Dale Woods  
Elaine Wong  
Greg Mukai  
Justin Petty  
Luz Roa  
Mark Cady  
Maria Tenorio  
Mike Gingles  
Nick Young  
Nirmal Saini  
Rick Jensen

**INTERESTED PARTIES**

Deborah Stemwedel  
John Salmonson  
Mark Brady  
Rebekah Menezes  
Renee Pinel  
Steve Beckley  
Thomas Quick  
Tim Stemwedel

**INTRODUCTIONS AND ANNOUNCEMENTS**

Mr. Brad Baltzer, Chair, called the FIAB meeting to order at 9:02 a.m. Self-introductions were made and a quorum was established. Mr. Andrew Godfrey arrived at 9:14 a.m.; Mr. Steve Spangler was absent.

**APPROVE JANUARY 14, 2016 MEETING MINUTES**

Chairman Baltzer requested the board review the minutes from the January 14, 2016 FIAB meeting. Additionally, Chairman Baltzer requested an amendment to the meeting minutes regarding general market conditions and short and long term effects of fertilizer pricing.

**MOTION:** Mr. Gary Silveria moved to approve the minutes as amended; Mr. Ron Naven seconded. The motion passed unanimously by all board members present with a vote of 7 - 0.

### **DEPARTMENT, DIVISION, AND BRANCH UPDATES**

Mr. Rick Jensen reported the Governor's Office issued an Executive Order regarding water and drought conditions. The order changes reporting requirements for water districts and requires them to conserve water at the consumer level of 25 percent. Water districts must also create a five year drought plan; the previous requirement only required a three year plan. The order will also incorporate additional water districts, increasing from 56 to 111.

Mr. Jensen stated Senate Bill (SB) 27 has been signed by the Governor; this bill impacts CDFA's Feed Inspection Program and the Division of Animal Health. It prohibits the prophylactic use of medically important antimicrobial drugs and requires a prescription or a Veterinary Feed Directive (VFD). It will also require outreach and education at the farm level.

Due to the Medical Marijuana Regulation and Safety Act (MMRSA), the Medical Cannabis Cultivation Program (MCCP) was created within the State of California. The MCCP is within CDFA's Division of Inspection Services, and is responsible for issuing licenses to cultivators, beginning January 2018. There will be at least nine licensing categories. There are approximately 54,000 cultivators statewide, and the Department expects to receive 10,000-15,000 applications. Since marijuana is now classified as an agricultural product, for this act, CDFA will issue cultivation licenses based on a regulatory framework that will be established. It is estimated California harvests 30 million pounds of marijuana annually, with approximately 10-15 percent being for medical use. Additionally, CDFA is mandated to develop a Track and Trace database to track the movement of medical marijuana from seed to sale. The database will be shared between multiple agencies, including law enforcement. The MCCP now has a staff of 3, which includes Ms. Amber Morris, Branch Chief for the MCCP. She was previously with the Division of Plant Health and Pest Prevention Services for approximately ten years.

Mr. Jensen stated a fee will be charged for each license and the program will limit the number of certain types of licenses to be issued through regulations. A Request for Proposal (RFP) was submitted for an economist to assist with developing major regulations which may have at least a \$50 million economic impact.

Mr. Jensen stated CDFA and/or the counties will inspect the licensees.

Discussion ensued regarding the MCCP and medical cannabis regulations.

Assembly Bill (AB) 1826 was introduced by Assembly Member Stone, and was sponsored by California Certified Organic Farmers. The bill, as introduced, would have essentially eliminated the State Organic Program within the Division of Inspection Services. This bill has been amended significantly, and will now enhance the program.

Dr. Amadou Ba introduced Ms. Brittne Sabalbro as the Branch's new Associate Governmental Program Analyst and liaison to the board. Ms. Sabalbro came to CDFA from the Department of Managed Health Care and has a degree in Food and Nutrition.

Dr. Ba reported there are two bills currently impacting the Fertilizing Materials Inspection Program (FMIP): AB 1811 and AB 2511. AB 1811 was introduced by Assembly Member Dodd, and pertains to the frequency of organic input material (OIM) inspections. Current law requires CDFA to inspect every OIM manufacturer yearly. This bill would allow CDFA to determine which firms require frequent inspections, based on risk. The frequency of inspections will still be reasonable and the program will continue to ensure the integrity of OIMs, while ensuring adulteration does not occur. This bill was recently amended to add a provisional license. Dr. Ba stated a provisional registration would be beneficial to CDFA and the industry, as it would reduce label review turnaround time. However, a provisional license will not impact the fertilizer industry or the Department.

AB 2511 was introduced by Assembly Member Levine, and is specific to biochar. The Governor's Office of Planning and Research approached CDFA and requested that the Department find a regulatory mechanism for the use of biochar as a fertilizing material product. The Department addressed the concern by defining biochar as an "auxiliary soil and plant substance." The biochar product will be required to register with the program and pay registration and mill assessment fees. Dr. Ba stated if the bill is chaptered, it will become effective January 2017.

Dr. Ba informed the board the California Association of Professional Scientists (CAPS) now has a three year Memorandum of Understanding (MOU) in place for rank and file employees; it consists of a five percent salary increase yearly for three years.

### **PROGRAM UPDATES AND FUND CONDITIONS**

Dr. Dale Woods stated the program is financially stable, highlighting mill assessment revenue is higher than the program anticipated. This is partly due to an increase of OIM registrants; there are now approximately 1,800 OIM registrations. Dr. Woods reviewed the fund conditions from July 1, 2015 through March 31, 2016. The beginning balance

of the Fertilizer Program was \$5,314,402; revenue was \$5,370,955; expenditures were \$3,434,296; encumbrances were \$569,756; the adjusted ending balance was \$6,681,305.

The beginning balance of the OIM Program was -\$332,486; revenue was \$1,459,638; expenditures were \$517,864; encumbrances were \$30,652; the adjusted ending balance was \$578,636.

The beginning balance of the Fertilizer Research and Education Program's (FREP) was \$2,990,212; revenue was \$1,879,278; expenditures were \$1,903,548; encumbrances through fiscal year (FY) 15/16 were \$1,410,710; the adjusted ending balance was \$1,555,232.

Mr. Jake Evans asked what the fiscal impact would be if the program was not mandated to inspect every out-of-state OIM manufacturer. Dr. Woods stated the fund condition the board was provided with only shows the program's current financial revenue and expenditures. The legislation will decrease program expenditures related to inspections. Mr. Evans asked if the inspection fees are included in the budget. Dr. Woods stated out-of-state OIM inspection fees are included in the FMIP budget. Mr. Evans recommended the program hire additional staff to help decrease label review turnaround time. Dr. Woods stated he is confident the program has enough staff to process renewal applications; however, the logistical issue is the OIM registration cycle. The possible solutions are to have provisional registrations, or to amend the law to create a rolling registration cycle or a split registration cycle with half of the registrations due January 1 and the other half due July 1.

Discussion ensued regarding out-of-state OIM inspections, and registration renewal cycles.

### **MILL ASSESSMENT TRENDS**

Dr. Woods reviewed mill assessment trends. For FY 14/15, mill revenue was \$6,709,773. The rate increased from \$0.002 to \$0.003 in October 2014. For FY 15/16, through March 2016, mill revenue was \$7,135,350. Currently, the program has a sufficient revenue flow and will continue monitoring mill assessment trends.

### **INSPECTION AND COMPLIANCE UPDATES**

Mr. Nick Young provided inspection and compliance updates, stating the total fertilizer samples for 2015 was approximately 1,085; 629 conventional samples; 456 OIM samples; and 158 additional investigative samples.

Mr. Young stated for 2015, the violation rate for conventional was 18%, and OIM was 19%. He clarified these violations had assays outside of the analytical variance. The highest violation rates include: 12% for Total Nitrogen (N), 25% for Humic Acid, 24% for Gypsum Equivalent, and 20% for Calcium Carbonate. The program took samples at 520 firms; violations include: 192 registration, 73 unlicensed location, 141 label. Of approximately 1,100 samples, 340 heavy metals analyses were performed, resulting in 1 violation. Mr. Young stated from January to April 2016, 86 OIM inspections were completed by CDFA in California, Oregon, Nevada, and Arizona. An additional 283 inspections need to be completed; the program is on track to complete all required inspections.

Ecocert completed 81 OIM inspections in the U.S., and 10 inspections in Mexico and Canada. Mr. Young stated he has been continuing to provide Ecocert with additional training throughout the U.S.; he has also provided virtual training in China, India, and Europe. Two additional virtual trainings are scheduled in South America and South Africa, and the program will continue to audit Ecocert's inspections yearly to ensure compliance with CDFA's policies and procedures.

Mr. Young informed the board since the last FIAB meeting on January 14, 2016, \$75,840.67 in administrative penalties has been collected or payment plans have been developed. Approximately 60 percent of the penalties are for OIM and 40 percent are for conventional; there are more OIM penalties due to the higher OIM complaint rate. Additionally, two new administrative penalties totaling \$20,273.72 have been initiated for misbranding and registration.

Mr. Young stated since implementing a new complaint database in 2015, 60 formal complaints were investigated; 49 complaints were organic related. Complaints can be submitted anonymously or with contact information on the FMIP page of the CDFA website.

Mr. Young informed the board CDFA filed the initial regulation paperwork regarding fertilizer standards and labeling with the Office of Administrative Law; the proposed regulations will be published on May 13, 2016. The 45-day public comment period ends on June 27, 2016 at 5:00 p.m. Dr. Ba added that the proposed regulations will align CDFA's requirements for inspections for liquid products with greater than three percent nitrogen with the United States Department of Agriculture – National Organic Program (USDA-NOP).

## **REGISTRATION UPDATES**

Ms. Luz Roa stated Organic Certifiers are referencing CDFA's approved product list and public database. An outreach meeting will be held this summer to clarify industry questions regarding how OIM products are listed. From January to April 2016, 6,138 conventional registrations were received; 5,348 have been approved. For OIM, 1,278 registrations were received; 790 have been approved. Approximately half of the renewals had label changes.

During the January 2016 registration cycle, the program allowed industry to submit documentation early to assist in expediting the approval process. Approximately 76 percent of OIM early submissions were approved by April 2016. The remaining labels required further evaluation or had pending issues such as no payment, missing invoices/lab results, or new ingredients. Dr. Woods iterated the program promotes early submission of applications from industry to decrease the impacts of delayed approvals. Material Review Organizations have rolling registration cycles; if the program is able to issue provisional registrations, it will be very helpful to industry.

Discussion ensued regarding the application review process, turnaround time, and the provisional registration process. Chairman Baltzer recommended a working group be formed to vet out this issue. He appointed Mr. Godfrey as Chair, and Mr. Evans, Mr. Doug Graham, and Mr. Spangler as members. Additionally, two CDFA staff will be members of the working group.

Ms. Roa stated on August 21, 1995, a notice was sent to industry requiring N guarantees on fertilizing material labels with Chelates. This issue was discussed at the April 21, 1994 and October 14, 2014 FIAB meetings. The program obtained feedback from firms, and other states, who do not want to guarantee N on labels with Chelates because it could be misleading. The program is exploring alternative labeling requirements for this issue.

- A ten minute break was taken at 10:35 a.m.

## **FREP UPDATES**

Dr. Barzin Moradi updated the board on the 28 ongoing FREP projects, highlighting approximately 9 projects from 2011-2012 requested a no cost time extension. These projects should be completed by the end of the 2016 calendar year.

FREP's regular RFP priority areas includes: improving input management, understanding soil-plant processes, and minimizing loss pathways. FREP received 44

concept proposals; the Technical Advisory Sub-Committee (TASC) recommended 13 of them advance to the full proposal stage. The majority of the concept proposals address input management and knowledge gaps.

Dr. Moradi provided an update on the FREP funded Nitrogen Management Training for Central Valley growers (grower self-certification program). There have been over 30 grower trainings held to-date. The total pass rate is 82 percent; once passed, growers can sign their own Nitrogen Management Plan (NMP). This program is an alternative to Certified Crop Advisors (CCAs) signing growers' NMP in order to comply with the requirements of the Irrigated Land Regulatory Program (ILRP) of the Central Valley Regional Water Quality Control Board (CVRWQCB). FREP has funded both grower self-certification and CCA nitrogen management training programs.

Mr. Mark Cady updated on ILRPs of the regional water boards. FREP has been tracking the regulatory framework for the ILRP in the Central Coast; N usage is in the forefront of the regulations. The Central Coast Regional Water Quality Control Board (CCRWQCB) requires growers in high risk areas to report total N usage. Two year worth of data has been collected so far. In year one, growers reportedly applied significantly more N than the recommended values by university researchers for multiple crops, including leafy greens and strawberries. The N application was reduced in the second year, but still above the recommended application. Additionally, the CCRWQCB received several Public Records Act requests, so the reported N data was released to the public.

Mr. Cady stated the East San Joaquin region is the first area regulated by the CVRWQCB, and is subject to petition to the State Water Board (SWB). The SWB is re-examining their regulations and recently released a proposed draft order, which would supersede the current regulations. Proposed changes to the order include:

- Submitting field level information to the Regional Water Board (RWB), in addition to the aggregated data by the grower coalitions
- Increased tracking and reporting of nitrogen and irrigation water
- Monitoring drinking water wells on regulated parcels be tested for nitrate levels
- Removal of the groundwater vulnerability designations all areas
- Changes are precedential for the entire state

Mr. Cady stated a workshop, held in Sacramento by the RWB, allowed panels of agricultural groups, environmental justice groups, and individuals to comment on the proposed changes. Another workshop will be held in Fresno later in May, where there will be another opportunity to comment on the proposed changes to the order; the deadline to submit written comments is June 1, 2016. Secretary Karen Ross attended the first workshop and provided comments to the board; CDFA staff will continue

communication with the SWB to satisfy regulatory needs in order to be approved by the State and Regional boards.

### **FOOD SAFETY MODERNIZATION ACT UPDATES**

Dr. Ba presented the board with updates regarding the Food Safety Modernization Act (FSMA) preventive controls. The Safe Animal Feed Education (SAFE) program hosted an outreach workshop in March 2016; 145 feed manufacturers attended. In June 2016, four staff will attend the Food and Drug Administration's (FDA) Train the Trainer training, who will then train industry members. Additionally, FDA will host an inspection training in August or September 2016.

The SAFE program will host Qualified Individual Training workshops quarterly, beginning September 2016. The workshops will be 2-2.5 days in length, and will certify Qualified Individuals for firms. As part of SAFE's outreach, staff will assist firms gain compliance with preventive control requirements, which require written food safety plans to be developed. Preventive controls requirements impact fertilizing material licensees in regards to hazard analyses, including biological hazards, chemical hazards, and physical hazards. Potential impacts to ingredient manufacturers include phosphate and urea. Phosphate has a risk of heavy metals. Urea must also be documented that it is not adulterated with nitrate nitrogen or any contaminants. Ingredients sold to commercial feed manufacturers are feed and must be labeled as feed grade, not industrial grade. Having a good working relationship with ingredient suppliers is key to ensure individual manufacturers are complying with procedures. Having a written food safety plan and proper documentation will minimize the impact to the fertilizer, feed, and produce industry. Public meetings on the implementation of FSMA prevention-oriented import safety programs are scheduled for various dates in June 2016. If the board would like additional information, CDFA's Feed program staff can provide a presentation at the next FIAB meeting regarding the Feed Rule and Produce Safety Rule.

Chairman Baltzer agreed a presentation would be very educational.

### **LABORATORY UPDATES**

Ms. Elaine Wong reported from January through December 2015, 1,246 samples were received. Of the 1,246 samples, 1,180 were routine; 10 were priority; 23 were partial rush; and 33 were rush. The average assays per sample was 4.85; total assays requested were 6,046. Of the 6,046, 5,857 were routine and 189 were rush. Ms. Wong stated the normal turnaround time is less than 21 days; however, the majority of the turn-around times were under 14 days. Ms. Wong stated the Center for Analytical

Chemistry lost an employee, which slowed sample processing significantly. A new employee is now in place and is currently being trained on processing samples.

**AGENDA ITEMS FOR FUTURE MEETINGS**

Chairman Baltzer asked the board for agenda items for the next meeting. Mr. Jake Evans requested an analysis of conventional and OIM registration turnaround time.

**NEXT MEETING**

The next FIAB meeting will be at 9:00 a.m., Thursday, September 8, 2016, in Sacramento, California.

**MOTION:** Mr. Ron Naven moved to adjourn the meeting; Mr. Doug Graham seconded. The motion passed unanimously by all board members present with a 8 - 0 vote.

Chairman Baltzer adjourned the meeting at 11:49 a.m.

Respectfully submitted by:



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Dr. Dale Woods  
Environmental Program Manager I  
Fertilizing Materials Inspection Program

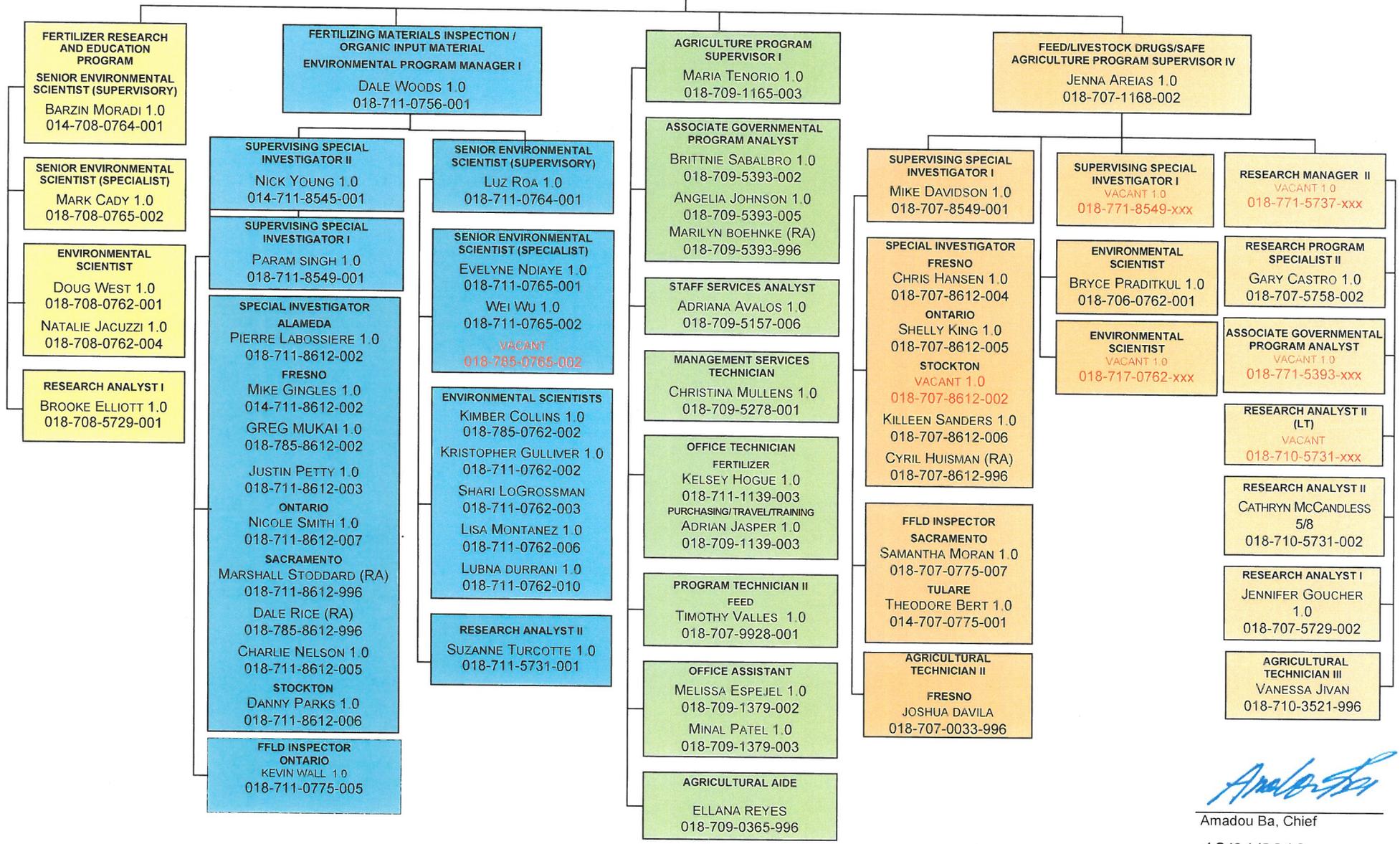
5/11/2016

Date

**FEED, FERTILIZER, AND LIVESTOCK DRUGS REGULATORY SERVICES  
DIVISION OF INSPECTION SERVICES**

**ENVIRONMENTAL PROGRAM MANAGER II**  
AMADOU BA 1.0  
018-709-0769-001

**OCTOBER 2016  
CURRENT**



*Amadou Ba*

Amadou Ba, Chief

10/01/2016

Date

# Fund Condition/ Budgets - Revised FY 16/17 and Proposed FY 17/18

**Amadou Ba, Ph.D.**  
**Environmental Program Manager II**

Commercial Fertilizing Inspection Program & Organic Input Material Program

**FUND CONDITION REPORT**  
As of June 30, 2016

	FY 2015/16		
	COMMERCIAL FERTILIZER	OIM	COMBINED TOTAL
<b>Beginning Balance as of 7/1/2015:</b>			
CDFA Account	\$ 1,238,710	\$ -332,486	\$ 906,224
Bank of America Account	\$ 4,075,691	-	\$ 4,075,691
<b>Total Funds</b>	<b>\$ 5,314,401</b>	<b>\$ -332,486</b>	<b>\$ 4,981,915</b>
<hr/>			
<b>Revenue*</b>	\$ 6,908,523	\$ 1,674,241	\$ 8,582,764
<b>Expenditures and Encumbrances</b>			
Expenditures**	\$ 4,535,728	\$ 652,409	\$ 5,188,137
Encumbrances	\$ 619,372	38,131	\$ 657,503
<hr/>			
<b>Ending Balance as of 6/30/16:</b>			
CDFA Account	\$ 1,508,505	\$ 689,346	\$ 2,197,851
Bank of America Account	\$ 6,178,691	-	\$ 6,178,691
<b>Total Funds</b>	<b>\$ 7,687,196</b>	<b>\$ 689,346</b>	<b>\$ 8,376,542</b>
<b>Adjusted Balance***</b>	<b>\$ 7,067,824</b>	<b>\$ 651,215</b>	<b>\$ 7,719,039</b>

\* Revenue includes fertilizing material licenses, fertilizer product registration, fertilizing materials mill assessments, and interest accrued.  
 \*\* Expenditure total per CDFA Financial Services Budget Report June 30, 2016. Amount does not reflect outstanding lag expenditures.  
 \*\*\* Adjusted balance accounts for all program encumbrances through June 30, 2016.

Commercial Fertilizing Inspection Program & Organic Input Material Program

FUND CONDITION REPORT

As of August 31, 2016

	FY 2016/17		
	COMMERCIAL FERTILIZER	OIM	COMBINED TOTAL
<b>Beginning Balance as of 7/1/2016:</b>			
CDFA Account	\$ 1,508,505	\$ 689,346	\$ 2,197,851
Bank of America Account	\$ 6,178,691	-	\$ 6,178,691
<b>Total Funds</b>	<b>\$ 7,687,196</b>	<b>\$ 689,346</b>	<b>\$ 8,376,542</b>
<b>Revenue*</b>			
	\$ 1,668,442	\$ 255,035	\$ 1,923,477
<b>Expenditures and Encumbrances</b>			
Expenditures**	\$ 755,189	\$ 92,430	\$ 847,619
Encumbrances	\$ 1,113,503	64,365	\$ 1,177,868
<b>Ending Balance as of 8/31/16:</b>			
CDFA Account	\$ 1,254,410	\$ 851,951	\$ 2,106,361
Bank of America Account	\$ 7,346,039	-	\$ 7,346,039
<b>Total Funds</b>	<b>\$ 8,600,449</b>	<b>\$ 851,951</b>	<b>\$ 9,452,400</b>
<b>Adjusted Balance***</b>	<b>\$ 7,486,946</b>	<b>\$ 787,586</b>	<b>\$ 8,274,532</b>

\* Revenue includes fertilizing material licenses, fertilizer product registration, fertilizing materials mill assessments, and interest accrued.  
 \*\* Expenditure total per CDFA Financial Services Budget Report August 31, 2016. Amount does not reflect outstanding lag expenditures.  
 \*\*\* Adjusted balance accounts for all program encumbrances through August 31, 2016.

Fertilizer Research and Education Program

FUND CONDITION REPORT

As of June 30, 2016

	07/01/15:	FY 2015/16
<b>Beginning Balance as of</b>		
CDFA Account		\$ 2,082,610
Bank of America Account		\$ 907,601
<b>Total Funds</b>		<b>\$ 2,990,211</b>
<b>Revenue *</b>		
		\$ 2,416,331
<b>Expenditures and Encumbrances</b>		
Expenditures**		\$ 2,332,766
YTD Research Contract Encumbrances		
FY 13/14	\$ 179,924	
FY 14/15	\$ 220,531	
FY 15/16	\$ 967,964	
Encumbrances through June 30, 2016		\$ 1,368,419
FY 16/17	\$ 1,002,338	
FY 17/18	\$ 549,009	
FY 18/19	\$ 91,927	
<b>Total Encumbrances</b>		<b>\$ 3,011,693</b>
<b>Ending Balance as of 6/30/2016</b>		
CDFA Account		\$ 2,253,457
Bank of America Account		\$ 820,319
<b>Total Funds</b>		<b>\$ 3,073,776</b>
<b>Adjusted Balance***</b>		<b>\$ 1,705,357</b>

\* Revenue fertilizer materials mill assessments, and interest accrued in the CDFA Fund Account and Bank of America Corporate Account.  
 \*\* Expenditure total per CDFA Financial Services Budget Report June 30, 2016. Amount does not reflect outstanding lag expenditures.  
 \*\*\* Adjusted balance accounts for all program encumbrances through June 30, 2016

Fertilizer Research and Education Program  
FUND CONDITION REPORT  
As of August 31, 2016

		FY 2016/17
Beginning Balance as of	07/01/16:	
CDFA Account		\$ 2,253,457
Bank of America Account		\$ 820,319
<b>Total Funds</b>		<b>\$ 3,073,776</b>
<hr/>		
Revenue *		\$ 678,916
Expenditures and Encumbrances		
Expenditures**		\$ 548,081
YTD Research Contract Encumbrances		
	FY 13/14	\$ 66,400
	FY 14/15	\$ 149,794
	FY 15/16	\$ 472,172
	FY 16/17	\$ 987,908
Encumbrances through June 30, 2017		\$ 1,676,274
	FY 17/18	\$ 549,009
	FY 18/19	\$ 91,927
Total Encumbrances		\$ 2,317,210
<hr/>		
Ending Balance as of	8/31/2016	
CDFA Account		\$ 1,954,364
Bank of America Account		\$ 1,250,247
<b>Total Funds</b>		<b>\$ 3,204,611</b>
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**Adjusted Balance\*\*\*** **\$ 1,528,337**

\* Revenue fertilizer materials mill assessments, and interest accrued in the CDFA Fund Account and Bank of America Corporate Account.  
\*\* Expenditure total per CDFA Financial Services Budget Report August 31, 2016. Amount does not reflect outstanding lag expenditures.  
\*\*\* Adjusted balance accounts for all program encumbrances through June 30, 2017

## Mill Assessment Trends

	2012/13	2013/14	2014/15	2015/16	2016/17
	1.5 mill	2 mill	2 mill*/3 mill**	3 mill	3 mill
July	\$ 499,593	\$ 571,280	\$ 1,416,290	\$ 2,310,808	\$ 573,004
August	\$ 619,588	\$ 1,091,065	\$ 541,175	\$ 1,260,241	\$ 1,891,179
September	\$ 511	\$ 16,276	\$ 11,159	\$ 175,100	
October	\$ 349,885	\$ 510,158	\$ 889,464	\$ 751,077	
November	\$ 301,512	\$ 533,733	\$ 234,832	\$ 941,636	
December	\$ 3,310	\$ 620,250	\$ 36,795	\$ 123,351	
January	\$ 350,963	\$ 601,502	\$ 584,271	\$ 613,056	
February	\$ 248,840	\$ 375,509	\$ 862,155	\$ 887,738	
March	\$ 6,622	\$ 14,158	\$ 24,547	\$ 72,343	
April	\$ 984,512	\$ 932,019	\$ 1,391,088	\$ 697,696	
May	\$ 537,329	\$ 301,170	\$ 568,729	\$ 1,191,681	
June	\$ 20,477	\$ 45,695	\$ 149,268	\$ 148,672	
	<b>\$ 3,923,142</b>	<b>\$ 5,612,815</b>	<b>\$ 6,709,773</b>	<b>\$ 9,173,398</b>	<b>\$ 2,464,184</b>

\* July - December 2014 mill at .002

\*\* January - June 2015 mill at .003

# Fertilizer Budget - Revised FY 16/17 and Proposed 17/18

	COMMERCIAL FERTILIZER						ORGANIC INPUT MATERIALS						TOTAL FERTILIZER											
	ACTUAL 2014-15 EXPENSES	GOVERNOR'S 2015-16 BUDGET	APPROVED 2015-16 BUDGET	ACTUAL 2015-16 BUDGET	GOVERNOR'S 2016-17 BUDGET	APPROVED 2016-17 BUDGET	REVIS'D 2016-17 BUDGET	PROPOSED 2017-18 BUDGET	ACTUAL 2014-15 EXPENSES	GOVERNOR'S 2015-16 BUDGET	APPROVED 2015-16 BUDGET	ACTUAL 2015-16 BUDGET	GOVERNOR'S 2016-17 BUDGET	APPROVED 2016-17 BUDGET	REVIS'D 2016-17 BUDGET	PROPOSED 2017-18 BUDGET	ACTUAL 2014-15 EXPENSES	GOVERNOR'S 2015-16 BUDGET	APPROVED 2015-16 BUDGET	ACTUAL 2015-16 BUDGET	GOVERNOR'S 2016-17 BUDGET	APPROVED 2016-17 BUDGET	REVIS'D 2016-17 BUDGET	PROPOSED 2017-18 BUDGET
<b>PERSONNEL SERVICES</b>	1,934,530	1,861,300	1,283,307	1,471,033	1,701,206	1,663,270	1,785,140	1,807,833	2,074,000	2,074,000	1,974,000	1,974,000	1,974,000	1,974,000	1,974,000	1,974,000	1,702,847	1,511,802	1,899,748	1,501,700	2,061,587	1,556,879	2,063,372	2,230,229
Salaries & Wages	711,052	612,577	702,468	811,000	840,112	720,000	840,112	831,641	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200	1,061,200
<b>TOTAL PERSONNEL SERVICES</b>	<b>2,211,465</b>	<b>2,074,077</b>	<b>2,086,795</b>	<b>2,424,606</b>	<b>2,541,318</b>	<b>2,383,270</b>	<b>2,625,910</b>	<b>2,759,819</b>	<b>3,637,711</b>	<b>3,637,711</b>	<b>3,637,711</b>	<b>3,637,711</b>	<b>3,637,711</b>	<b>3,637,711</b>	<b>3,637,711</b>	<b>3,637,711</b>	<b>2,681,226</b>	<b>2,877,679</b>	<b>2,739,596</b>	<b>2,811,344</b>	<b>3,611,154</b>	<b>2,837,504</b>	<b>3,372,122</b>	<b>3,501,216</b>
<b>OPERATING EXPENSES &amp; EQUIPMENT</b>	51,382	50,000	50,000	45,250	50,000	50,000	50,000	50,000	8,145	5,000	5,000	5,000	5,000	5,000	5,000	5,000	61,512	50,000	50,000	54,200	50,000	60,000	60,000	60,000
Printing	34,945	12,000	12,000	11,510	12,000	12,000	15,000	12,000	1,377	2,000	2,000	1,347	2,000	2,000	2,000	1,500	34,722	14,000	14,000	14,000	14,000	15,000	17,000	18,500
Communication	16,180	20,000	20,000	14,711	20,000	20,000	20,000	20,000	1,407	2,000	2,000	1,910	2,000	2,000	2,000	2,300	17,400	22,000	22,000	16,712	22,000	22,000	22,000	22,000
Postage	2,715	6,000	6,000	3,275	6,000	6,000	6,000	6,000	1,314	1,000	1,000	244	1,000	1,000	1,000	1,000	3,843	7,000	7,000	5,311	7,000	7,000	5,100	5,000
Insurance	1,425	3,000	3,000	2,462	3,000	3,000	2,700	3,000	200	200	200	200	200	200	200	200	1,425	3,000	3,000	2,375	3,000	3,000	3,100	3,000
Travel In-State	88,470	10,000	10,000	11,461	10,000	10,000	10,000	10,000	14,400	8,500	8,500	8,500	8,500	8,500	8,500	8,500	102,025	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Travel Out-of-State	5,430	0	0	11,461	0	0	7,000	15,000	1,588	0	0	12,415	2,000	2,000	2,000	13,000	7,283	0	0	8,500	2,000	2,000	3,000	30,000
Training	4,260	10,000	10,000	9,121	10,000	10,000	10,000	10,000	1,500	2,500	2,500	500	2,500	2,500	2,500	2,500	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Facilities Operation	155,528	167,750	167,750	167,827	167,750	167,750	167,750	167,750	25,870	11,000	24,000	21,205	13,000	20,000	20,000	20,000	161,127	167,750	167,750	167,750	167,750	167,750	167,750	167,750
Utilities	281	1,500	1,500	952	1,500	1,500	800	1,500	0	500	500	0	500	500	500	500	281	1,500	1,500	952	1,500	1,500	1,500	1,500
Print Serv Internal/External	44,330	76,000	76,000	34,404	81,120	81,120	40,000	38,000	12,715	40,000	39,000	41,000	15,000	7,500	7,500	7,500	57,475	110,000	110,000	41,278	122,281	66,000	63,000	63,000
Data Processing and IT	61,840	15,000	15,000	34,434	115,500	115,500	60,000	46,000	16,014	10,200	14,000	17,000	11,000	14,000	14,000	8,500	112,655	75,750	60,000	43,307	125,500	60,000	54,000	53,000
State Pro-Rata/SWCAP	17,590	175,220	175,220	181,137	170,000	170,000	180,104	170,000	17,817	17,812	17,812	17,812	17,812	17,812	17,812	17,812	15,000	175,220	175,220	175,220	175,220	175,220	175,220	175,220
Equipment	40,122	60,000	60,000	58,100	60,000	60,000	60,000	60,000	2,215	0	1,500	1,442	1,000	2,500	2,000	2,000	55,118	30,000	30,000	30,000	30,000	30,000	30,000	30,000
Field Expenses	12,272	25,500	25,500	7,711	30,500	30,500	7,000	7,500	0	0	0	0	0	0	0	0	40,122	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Vehicle Operations	48,480	60,000	60,000	38,070	60,000	60,000	43,000	45,000	0	0	0	0	0	0	0	0	48,480	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Phone Lab Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Misc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract/Grant	26,394	544,000	485,848	85,271	420,000	394,709	394,200	100,000	0	0	0	0	0	0	0	0	21,544	555,617	485,848	87,974	420,000	394,709	394,200	100,000
Unallocated Budget Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL OPERATING EXPENSES</b>	<b>793,877</b>	<b>1,515,265</b>	<b>1,240,661</b>	<b>721,003</b>	<b>1,390,349</b>	<b>1,008,028</b>	<b>1,104,394</b>	<b>930,484</b>	<b>115,888</b>	<b>5,240</b>	<b>123,375</b>	<b>95,815</b>	<b>126,700</b>	<b>123,912</b>	<b>160,765</b>	<b>160,765</b>	<b>908,415</b>	<b>1,300,717</b>	<b>1,364,040</b>	<b>918,016</b>	<b>1,425,609</b>	<b>1,211,826</b>	<b>1,216,200</b>	<b>1,095,259</b>
<b>DISTRIBUTED COSTS</b>	816,615	926,102	511,513	600,870	870,149	856,771	810,542	835,904	61,878	0	84,300	84,300	0	100,420	100,420	100,420	887,321	1,026,252	239,102	888,348	870,310	867,017	912,688	871,247
Chemistry Lab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chemistry Lab Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Auto Charge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Indirect Admin/Exec	277,108	331,667	212,500	300,200	419,451	351,191	323,591	352,771	81,820	0	0	0	0	0	0	0	221,448	345,441	280,724	357,673	281,188	285,514	268,516	290,596
Indirect IT	110,100	125,500	125,500	121,607	125,500	125,500	125,500	125,500	0	0	0	0	0	0	0	0	110,100	125,500	125,500	125,500	125,500	125,500	125,500	125,500
Indirect Charges Division	121,614	115,000	155,000	112,688	132,000	150,000	120,000	140,000	22,706	18,732	24,200	18,732	20,762	34,510	35,900	35,900	144,314	125,000	150,000	108,500	158,558	158,472	160,520	
Direct Chg-Ittr Intradpt	2,167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,167	0	0	0	0	0	0	0
Other Misc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contract/Grant	1,316,246	1,692,611	1,407,307	1,341,920	1,458,879	1,471,120	1,431,042	1,504,212	177,702	36,396	220,004	174,984	132,181	225,065	253,001	253,001	1,613,472	1,536,014	1,627,891	1,511,813	1,584,000	1,496,189	1,658,108	1,768,013
<b>TOTAL DISTRIBUTED COSTS</b>	<b>1,316,246</b>	<b>1,692,611</b>	<b>1,407,307</b>	<b>1,341,920</b>	<b>1,458,879</b>	<b>1,471,120</b>	<b>1,431,042</b>	<b>1,504,212</b>	<b>293,731</b>	<b>69,748</b>	<b>343,469</b>	<b>261,789</b>	<b>266,881</b>	<b>346,671</b>	<b>414,566</b>	<b>414,566</b>	<b>2,422,807</b>	<b>2,907,731</b>	<b>2,891,841</b>	<b>2,328,631</b>	<b>3,014,109</b>	<b>2,808,127</b>	<b>2,887,415</b>	<b>2,853,272</b>
<b>TOTAL OEAE</b>	<b>2,129,151</b>	<b>2,211,863</b>	<b>1,848,472</b>	<b>2,063,823</b>	<b>2,755,276</b>	<b>2,559,150</b>	<b>2,516,436</b>	<b>2,438,700</b>	<b>481,566</b>	<b>492,648</b>	<b>815,179</b>	<b>699,444</b>	<b>727,567</b>	<b>805,181</b>	<b>655,866</b>	<b>655,866</b>	<b>5,004,123</b>	<b>5,785,610</b>	<b>5,730,446</b>	<b>5,137,972</b>	<b>6,033,264</b>	<b>5,745,613</b>	<b>5,959,537</b>	<b>6,154,487</b>
<b>TOTAL PROGRAM COSTS</b>	<b>4,366,616</b>	<b>4,285,940</b>	<b>3,929,133</b>	<b>4,488,426</b>	<b>5,300,625</b>	<b>4,940,420</b>	<b>5,142,366</b>	<b>5,193,820</b>	<b>5,205,454</b>	<b>5,737,659</b>	<b>6,452,889</b>	<b>7,277,567</b>	<b>8,083,142</b>	<b>8,940,323</b>	<b>9,614,681</b>	<b>9,614,681</b>	<b>10,688,346</b>	<b>11,091,327</b>	<b>11,630,437</b>	<b>10,276,944</b>	<b>12,047,318</b>	<b>11,541,122</b>	<b>12,038,638</b>	<b>12,663,700</b>
AF-AG CODE 224A	-42,120	-48,718	-48,718	-48,718	-48,718	-48,718	-48,718	-48,718	-42,120	-48,718	-48,718	-48,718	-48,718	-48,718	-48,718	-48,718	-42,120	-48,718	-48,718	-48,718	-48,718	-48,718	-48,718	-48,718
<b>SUB-TOTAL PROGRAM</b>	<b>4,284,496</b>	<b>4,237,222</b>	<b>3,880,415</b>	<b>4,439,708</b>	<b>5,251,907</b>	<b>4,891,702</b>	<b>5,093,648</b>	<b>5,145,102</b>	<b>5,163,334</b>	<b>5,688,941</b>	<b>6,404,171</b>	<b>7,228,849</b>	<b>7,935,424</b>	<b>8,891,605</b>	<b>9,565,963</b>	<b>9,565,963</b>	<b>10,646,226</b>	<b>10,992,609</b>	<b>11,581,719</b>	<b>10,228,226</b>	<b>11,998,600</b>	<b>11,492,404</b>		

## FERTILIZER INSPECTION ADVISORY BOARD

### FINANCIAL SUMMARY

#### Commercial Fertilizing Inspection Program & Organic Input Materials Program

#### FUND CONDITION REPORT As of June 30, 2016

	FY 2015/16		
	COMMERCIAL FERTILIZER	OIM	COMBINED TOTAL
<b>Beginning Balance as of 7/1/2015:</b>			
CDFA Account	\$ 1,238,710	\$ -332,486	\$ 906,224
Bank of America Account	\$ 4,075,691	-	\$ 4,075,691
<b>Total Funds</b>	<b>\$ 5,314,401</b>	<b>\$ -332,486</b>	<b>\$ 4,981,915</b>
<hr/>			
<b>Revenue*</b>	\$ 6,908,523	\$ 1,674,241	\$ 8,582,764
<b>Expenditures and Encumbrances</b>			
Expenditures**	\$ 4,535,728	\$ 652,409	\$ 5,188,137
Encumbrances	\$ 619,372	38,131	\$ 657,503
<hr/>			
<b>Ending Balance as of 6/30/16:</b>			
CDFA Account	\$ 1,508,505	\$ 689,346	\$ 2,197,851
Bank of America Account	\$ 6,178,691	-	\$ 6,178,691
<b>Total Funds</b>	<b>\$ 7,687,196</b>	<b>\$ 689,346</b>	<b>\$ 8,376,542</b>
<b>Adjusted Balance***</b>	<b>\$ 7,067,824</b>	<b>\$ 651,215</b>	<b>\$ 7,719,039</b>

\* Revenue includes fertilizing material licenses, fertilizer product registration, fertilizing materials mill assessments, and interest accrued.

\*\* Expenditure total per CDFA Financial Services Budget Report June 30, 2016. Amount does not reflect outstanding lag expenditures.

\*\*\* Adjusted balance accounts for all program encumbrances through June 30, 2016.

## FERTILIZER INSPECTION ADVISORY BOARD

### FINANCIAL SUMMARY Commercial Fertilizing Inspection Program & Organic Input Materials Program

#### FUND CONDITION REPORT As of August 31, 2016

	FY 2016/17		
	COMMERCIAL FERTILIZER	OIM	COMBINED TOTAL
<b>Beginning Balance as of 7/1/2016:</b>			
CDFA Account	\$ 1,508,505	\$ 689,346	\$ 2,197,851
Bank of America Account	\$ 6,178,691	-	\$ 6,178,691
<b>Total Funds</b>	<b>\$ 7,687,196</b>	<b>\$ 689,346</b>	<b>\$ 8,376,542</b>
<hr style="border-top: 3px double #000;"/>			
<b>Revenue*</b>	\$ 1,668,442	\$ 255,035	\$ 1,923,477
<b>Expenditures and Encumbrances</b>			
Expenditures**	\$ 755,189	\$ 92,430	\$ 847,619
Encumbrances	\$ 1,113,503	64,365	\$ 1,177,868
<hr style="border-top: 3px double #000;"/>			
<b>Ending Balance as of 8/31/16:</b>			
CDFA Account	\$ 1,254,410	\$ 851,951	\$ 2,106,361
Bank of America Account	\$ 7,346,039	-	\$ 7,346,039
<b>Total Funds</b>	<b>\$ 8,600,449</b>	<b>\$ 851,951</b>	<b>\$ 9,452,400</b>
<b>Adjusted Balance***</b>	<b>\$ 7,486,946</b>	<b>\$ 787,586</b>	<b>\$ 8,274,532</b>

\* Revenue includes fertilizing material licenses, fertilizer product registration, fertilizing materials mill assessments, and interest accrued.

\*\* Expenditure total per CDFA Financial Services Budget Report August 31, 2016. Amount does not reflect outstanding lag expenditures.

\*\*\* Adjusted balance accounts for all program encumbrances through August 31, 2016.

## FERTILIZER INSPECTION ADVISORY BOARD

### FINANCIAL SUMMARY

#### Fertilizer Research and Education Program

#### FUND CONDITION REPORT

As of June 30, 2016

	<b>FY 2015/16</b>
<b>Beginning Balance as of 07/01/15:</b>	
CDFA Account	\$ 2,082,610
Bank of America Account	\$ 907,601
<b>Total Funds</b>	<b>\$ 2,990,211</b>
<b>Revenue *</b>	<b>\$ 2,416,331</b>
<b>Expenditures and Encumbrances</b>	
Expenditures**	\$ 2,332,766
YTD Research Contract Encumbrances	
FY 13/14	\$ 179,924
FY 14/15	\$ 220,531
FY 15/16	\$ 967,964
Encumbrances through June 30, 2016	\$ 1,368,419
FY 16/17	\$ 1,002,338
FY 17/18	\$ 549,009
FY 18/19	\$ 91,927
Total Encumbrances	<b>\$ 3,011,693</b>
<b>Ending Balance as of 6/30/2016</b>	
CDFA Account	\$ 2,253,457
Bank of America Account	\$ 820,319
<b>Total Funds</b>	<b>\$ 3,073,776</b>
<b>Adjusted Balance***</b>	<b>\$ 1,705,357</b>

\* Revenue fertilizer materials mill assessments, and interest accrued in the CDFA Fund Account and Bank of America Corporate Account.

\*\* Expenditure total per CDFA Financial Services Budget Report June 30, 2016. Amount does not reflect outstanding lag expenditures.

\*\*\* Adjusted balance accounts for all program encumbrances through June 30, 2016

## FERTILIZER INSPECTION ADVISORY BOARD

### FINANCIAL SUMMARY

#### Fertilizer Research and Education Program

#### FUND CONDITION REPORT

As of August 31, 2016

	FY 2016/17
<b>Beginning Balance as of 07/01/16:</b>	
CDFA Account	\$ 2,253,457
Bank of America Account	\$ 820,319
<b>Total Funds</b>	<b>\$ 3,073,776</b>
<b>Revenue *</b>	\$ 678,916
<b>Expenditures and Encumbrances</b>	
Expenditures**	\$ 548,081
YTD Research Contract Encumbrances	
FY 13/14	\$ 66,400
FY 14/15	\$ 149,794
FY 15/16	\$ 472,172
FY 16/17	\$ 987,908
Encumbrances through June 30, 2017	\$ 1,676,274
FY 17/18	\$ 549,009
FY 18/19	\$ 91,927
Total Encumbrances	\$ 2,317,210
<b>Ending Balance as of 8/31/2016</b>	
CDFA Account	\$ 1,954,364
Bank of America Account	\$ 1,250,247
<b>Total Funds</b>	<b>\$ 3,204,611</b>
<b>Adjusted Balance***</b>	<b>\$ 1,528,337</b>

\* Revenue fertilizer materials mill assessments, and interest accrued in the CDFA Fund Account and Bank of America Corporate Account.

\*\* Expenditure total per CDFA Financial Services Budget Report August 31, 2016. Amount does not reflect outstanding lag expenditures.

\*\*\* Adjusted balance accounts for all program encumbrances through June 30, 2017

California Department of Food and Agriculture  
Fertilizing Materials Registration and Inspection Program

Mill Assessment Trends

	2012/13	2013/14	2014/15	2015/16	2016/17
	1.5 mill	2 mill	2 mill*/ 3 mill**	3 mill	3 mill
July	\$ 499,593	\$ 571,280	\$ 1,416,290	\$ 2,310,808	\$ 573,004
August	\$ 619,588	\$ 1,091,065	\$ 541,175	\$ 1,260,241	\$ 1,891,179
September	\$ 511	\$ 16,276	\$ 11,159	\$ 175,100	
October	\$ 349,885	\$ 510,158	\$ 889,464	\$ 751,077	
November	\$ 301,512	\$ 533,733	\$ 234,832	\$ 941,636	
December	\$ 3,310	\$ 620,250	\$ 36,795	\$ 123,351	
January	\$ 350,963	\$ 601,502	\$ 584,271	\$ 613,056	
February	\$ 248,840	\$ 375,509	\$ 862,155	\$ 887,738	
March	\$ 6,622	\$ 14,158	\$ 24,547	\$ 72,343	
April	\$ 984,512	\$ 932,019	\$ 1,391,088	\$ 697,696	
May	\$ 537,329	\$ 301,170	\$ 568,729	\$ 1,191,681	
June	\$ 20,477	\$ 45,695	\$ 149,268	\$ 148,672	
	<b>\$ 3,923,142</b>	<b>\$ 5,612,815</b>	<b>\$ 6,709,773</b>	<b>\$ 9,173,398</b>	<b>\$ 2,464,184</b>

\* July - December 2014 mill at .002

\*\* January - June 2015 mill at .003

COMMERCIAL FERTILIZER

ACTUAL 2014-15 EXPENSES	GOVERNOR'S 2015-16 BUDGET	APPROVED 2015-16 BUDGET	ACTUAL 2015-16 BUDGET	GOVERNOR'S 2016-17 BUDGET	APPROVED 2016-17 BUDGET	REVISED 2016-17 BUDGET	PROPOSED 2017-18 BUDGET
Salary & Wages	1,505,800	1,661,205	1,563,307	1,611,613	1,701,356	1,642,276	1,769,150
Benefits	711,665	813,767	703,488	813,086	849,113	739,024	893,991
<b>TOTAL PERSONNEL SERVICES</b>	<b>2,217,465</b>	<b>2,474,972</b>	<b>2,266,795</b>	<b>2,424,699</b>	<b>2,550,469</b>	<b>2,381,300</b>	<b>2,615,918</b>

PERSONNEL SERVICES

Salary & Wages	1,505,800	1,661,205	1,563,307	1,611,613	1,701,356	1,642,276	1,769,150
Benefits	711,665	813,767	703,488	813,086	849,113	739,024	893,991
<b>TOTAL PERSONNEL SERVICES</b>	<b>2,217,465</b>	<b>2,474,972</b>	<b>2,266,795</b>	<b>2,424,699</b>	<b>2,550,469</b>	<b>2,381,300</b>	<b>2,615,918</b>

OPERATING EXPENSES & EQUIPMENT

General Expenses	53,382	50,000	50,000	45,284	50,000	50,000	50,000
Printing	36,845	12,000	12,000	14,519	12,000	13,000	17,000
Communication	15,489	20,000	20,000	14,771	20,000	20,000	20,000
Postage	2,775	6,000	6,000	3,075	6,000	6,000	4,500
Insurance	1,425	3,000	3,000	2,492	3,000	2,000	3,000
Travel In-State	88,479	90,000	90,000	67,935	90,000	90,000	90,000
Travel Out-of-State	5,696	0	6,000	14,443	0	7,000	15,000
Training	9,268	10,000	10,000	3,127	10,000	10,000	10,000
Facilities Operations	135,528	167,753	160,000	176,967	167,753	150,000	160,000
Utilities	281	1,500	1,500	505	0	1,500	800
Prof Serv Internal/External	44,338	70,000	40,000	34,404	81,282	40,000	38,000
Data Processing IT	93,849	65,500	55,000	35,434	115,500	55,000	40,000
State Pro-Rata/SWCAP	177,690	176,320	176,320	181,917	170,850	176,320	196,194
Equipment	40,742	50,000	50,000	-25	75,000	50,000	50,000
Field Expenses	12,773	23,500	15,000	5,711	20,500	15,000	7,000
Vehicle Operations	48,468	50,000	50,000	36,070	56,398	50,000	40,000
Private Lab Services	0	0	5,000	0	0	5,000	5,000
Other Misc	225	0	5,000	0	0	2,500	2,500
Contract/Grant	26,354	555,627	485,845	85,274	420,066	344,706	345,200
Unallocated Budget Adjustment	0	-35,835	0	0	0	0	0
<b>TOTAL OPERATING EXPENSES</b>	<b>793,607</b>	<b>1,315,365</b>	<b>1,240,665</b>	<b>721,903</b>	<b>1,298,349</b>	<b>1,088,026</b>	<b>1,104,394</b>

DISTRIBUTED COSTS

Chemistry Lab	816,045	926,392	841,516	803,470	870,249	856,771	812,542
Chemistry Labs Equipment	0	0	0	0	0	34,710	34,710
Audit Charges	0	5,000	5,000	0	5,000	5,000	0
Indirect Admin/Exec	277,628	331,657	302,665	303,298	319,851	323,381	352,777
Indirect IT	118,094	124,507	123,532	121,477	124,731	135,972	133,412
Indirect Charges Division	121,614	115,062	135,094	113,684	137,048	130,000	140,000
Direct Chg-lthr Intradpt	2,165	0	0	0	0	0	0
Other Misc. Items	0	0	0	0	0	0	0
<b>TOTAL DISTRIBUTED COSTS</b>	<b>1,335,546</b>	<b>1,502,618</b>	<b>1,407,807</b>	<b>1,341,929</b>	<b>1,456,879</b>	<b>1,471,124</b>	<b>1,434,044</b>

TOTAL OE&E

<b>TOTAL OE&amp;E</b>	<b>2,129,153</b>	<b>2,817,983</b>	<b>2,648,472</b>	<b>2,063,832</b>	<b>2,755,228</b>	<b>2,559,150</b>	<b>2,538,438</b>
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TOTAL PROGRAM COSTS

<b>TOTAL PROGRAM COSTS</b>	<b>4,346,618</b>	<b>5,292,955</b>	<b>4,915,267</b>	<b>4,488,531</b>	<b>5,305,697</b>	<b>4,940,450</b>	<b>5,154,356</b>
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Direct Charge Recovery	-12,000	0	0	0	0	0	0
AF-AG CODE 224A	-69,420	-68,716	-68,716	-68,716	-73,782	-73,782	-73,782

<b>SUB-TOTAL PROGRAM</b>	<b>4,265,198</b>	<b>5,224,239</b>	<b>4,846,551</b>	<b>4,419,815</b>	<b>5,231,915</b>	<b>4,866,668</b>	<b>5,080,574</b>
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ENCUMBRANCES	25,053	0	0	559,897	0	0	0
<b>TOTAL NET PROGRAM</b>	<b>4,290,251</b>	<b>5,224,239</b>	<b>4,846,551</b>	<b>4,979,712</b>	<b>5,231,915</b>	<b>4,866,668</b>	<b>5,124,838</b>

ORGANIC INPUT MATERIALS

ACTUAL 2014-15 EXPENSES	GOVERNOR'S 2015-16 BUDGET	APPROVED 2015-16 BUDGET	ACTUAL 2015-16 BUDGET	GOVERNOR'S 2016-17 BUDGET	APPROVED 2016-17 BUDGET	PROPOSED 2017-18 BUDGET
257,045	272,659	333,377	280,152	323,231	314,623	373,310
106,726	130,248	138,333	107,493	145,454	141,581	167,990
<b>363,771</b>	<b>402,907</b>	<b>471,710</b>	<b>387,645</b>	<b>468,685</b>	<b>456,204</b>	<b>541,300</b>

OPERATING EXPENSES & EQUIPMENT

8,145	5,000	5,000	8,916	9,000	10,000	10,000
1,877	2,000	2,000	1,347	2,000	2,000	1,500
1,971	2,000	2,000	1,941	2,000	2,000	2,200
1,168	1,000	1,000	244	1,000	1,300	500
202	375	375	278	500	450	500
14,456	8,500	8,500	5,442	8,500	16,500	6,000
1,586	0	2,000	12,015	2,000	2,000	13,000
1,333	3,000	3,000	582	3,000	3,000	2,500
25,599	13,000	24,000	21,225	13,000	26,000	25,000
0	500	500	0	500	500	200
12,715	40,094	30,000	6,872	41,000	15,000	7,500
19,014	10,226	14,000	7,963	11,000	14,000	8,500
17,817	17,162	17,000	18,098	17,200	17,162	38,865
0	0	5,000	-4	0	2,500	5,000
3,215	0	1,500	1,448	4,000	3,500	3,000
6,710	0	4,500	548	7,000	7,000	3,500
0	0	0	0	0	0	0
0	0	3,000	0	5,000	1,000	3,000
0	0	0	0	0	0	30,000
0	-108,505	0	0	0	0	0
<b>115,808</b>	<b>-5,648</b>	<b>123,375</b>	<b>86,915</b>	<b>126,700</b>	<b>123,912</b>	<b>160,765</b>

DISTRIBUTED COSTS

81,876	0	84,876	84,876	0	100,426	103,322
0	0	0	0	0	4,290	4,290
0	0	0	0	0	0	0
51,820	53,991	64,059	49,375	63,647	61,953	73,509
21,530	22,675	41,772	22,128	41,772	23,586	41,772
22,700	18,730	24,387	18,505	26,762	34,810	30,908
0	0	0	0	0	0	0
0	0	5,000	0	0	0	0
<b>177,926</b>	<b>95,396</b>	<b>220,094</b>	<b>174,884</b>	<b>132,181</b>	<b>225,065</b>	<b>253,801</b>

TOTAL OE&E

<b>293,734</b>	<b>89,748</b>	<b>343,469</b>	<b>261,799</b>	<b>258,881</b>	<b>348,977</b>	<b>414,566</b>
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TOTAL PROGRAM COSTS

<b>657,505</b>	<b>492,655</b>	<b>815,179</b>	<b>649,444</b>	<b>727,567</b>	<b>805,181</b>	<b>955,866</b>
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0	0	0	0	0	0	0
-6,785	-6,688	-7,000	-6,688	-6,688	-6,688	-6,688

<b>650,720</b>	<b>485,967</b>	<b>808,179</b>	<b>642,756</b>	<b>720,879</b>	<b>798,493</b>	<b>949,178</b>
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28,113	0	0	4,556	0	0	0
<b>678,833</b>	<b>485,967</b>	<b>808,179</b>	<b>647,312</b>	<b>720,879</b>	<b>798,493</b>	<b>949,178</b>

TOTAL FERTILIZER

ACTUAL 2014-15 EXPENSES	GOVERNOR'S 2015-16 BUDGET	APPROVED 2015-16 BUDGET	ACTUAL 2015-16 BUDGET	GOVERNOR'S 2016-17 BUDGET	APPROVED 2016-17 BUDGET	REVISED 2016-17 BUDGET	PROPOSED 2017-18 BUDGET
1,762,845	1,933,864	1,896,684	1,891,765	2,024,587	1,956,899	2,083,773	2,239,234
818,391	944,015	841,821	920,579	994,567	880,605	988,349	1,061,981
<b>2,581,236</b>	<b>2,877,879</b>	<b>2,738,505</b>	<b>2,812,344</b>	<b>3,019,154</b>	<b>2,837,504</b>	<b>3,072,122</b>	<b>3,301,215</b>

OPERATING EXPENSES & EQUIPMENT

61,527	55,000	55,000	54,200	59,000	60,000	60,000	60,000
38,722	14,000	14,000	15,866	14,000	15,000	17,000	18,500
17,460	22,000	22,000	16,712	22,000	22,000	20,000	22,200
3,943	7,000	7,000	3,319	7,000	7,300	5,300	5,000
1,627	3,375	3,375	2,770	3,500	2,450	3,150	3,500
102,935	98,500	98,500	73,377	98,500	106,500	106,500	96,000
7,282	0	8,000	26,458	2,000	9,000	17,000	30,000
10,601	13,000	13,000	3,709	13,000	13,000	13,000	12,500
161,127	180,753	184,000	198,192	180,753	176,000	176,000	185,000
281	2,000	2,000	505	500	2,000	1,300	1,200
57,053	110,094	70,000	41,276	122,282	55,000	53,000	47,500
112,863	75,726	69,000	43,397	126,500	69,000	54,000	53,500
195,507	193,482	193,320	200,015	188,050	193,482	213,356	245,859
40,742	50,000	55,000	-29	75,000	52,500	77,500	55,000
15,988	23,500	16,500	7,159	24,500	18,500	10,500	10,500
55,178	50,000	54,500	36,618	63,398	57,000	47,000	48,500
0	0	5,000	0	0	5,000	5,000	5,000
225	0	8,000	0	5,000	3,500	3,500	5,500
26,354	555,627	485,845	85,274	420,066	344,706	345,200	190,000
0	-144,340	0	0	0	0	0	0

FREP

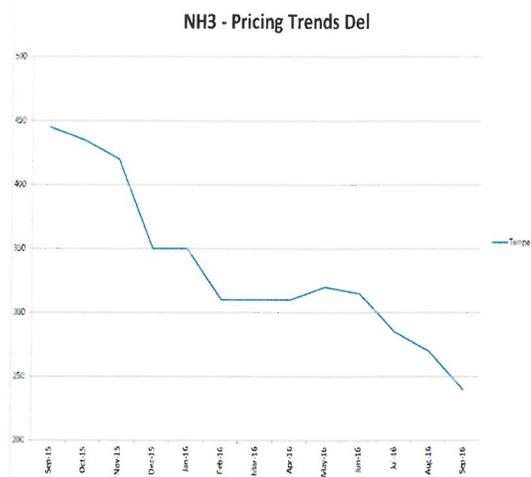
	ACTUAL 2014-15 EXPENSES	GOVERNOR'S 2015-16 BUDGET	APPROVED 2015-16 BUDGET	ACTUAL 2015-16 BUDGET	GOVERNOR'S 2016-17 BUDGET	APPROVED 2016-17 BUDGET	PROPOSED 2017-18 BUDGET
<b>PERSONNEL SERVICES</b>							
Salary & Wages	370,586	476,745	422,736	428,692	496,352	450,759	472,230
Benefits	169,165	236,893	185,105	218,429	245,613	202,842	212,503
<b>TOTAL PERSONNEL SERVICES</b>	<b>539,751</b>	<b>713,638</b>	<b>607,841</b>	<b>647,121</b>	<b>741,965</b>	<b>653,601</b>	<b>684,733</b>
<b>OPERATING EXPENSES &amp; EQUIPMENT</b>							
General Expense	11,410	15,000	20,000	8,441	15,000	15,000	12,000
Printing	28,513	20,000	20,000	17,637	28,000	30,000	18,500
Communication	1,191	1,400	2,500	886	1,500	1,500	1,000
Postage	1,339	1,500	2,000	1,251	2,000	2,000	1,500
Insurance	206	250	500	280	500	500	350
Travel In-State	12,029	10,000	12,000	13,263	11,803	15,000	20,000
Travel Out-of-State	820	0	1,500	141	0	1,500	500
Training	12,949	5,000	5,000	3,270	13,500	10,000	10,000
Facilities Operation	43,618	42,000	42,000	32,508	32,000	30,480	35,000
Prof Serv Internal/External	1,598	5,000	0	1,786	5,000	2,000	5,000
Data Processing and IT	5,693	3,000	11,000	3,276	6,500	10,000	5,000
State Pro-Rata/SWCAP	94,543	88,319	92,389	90,034	97,210	98,319	95,000
Equipment	0	0	0	-7	0	0	0
Field Expenses	471	500	1,000	265	500	1,000	1,000
Vehicle Operations	26,325	2,000	2,500	1,617	2,000	2,500	2,000
Other Misc		0	1,000	0	0	5,000	1,000
Research Contract/Grant	1,057,218	1,937,339	2,000,000	918,053	1,321,054	1,970,000	1,750,500
Unallocated Budget Adjustm	0	6,836	0	0	0	0	0
<b>TOTAL OPERATING EXPENSES</b>	<b>1,297,923</b>	<b>2,138,144</b>	<b>2,213,389</b>	<b>1,092,701</b>	<b>1,536,567</b>	<b>2,194,799</b>	<b>1,958,350</b>
<b>DISTRIBUTED COSTS</b>							
Indirect Charges Admin/Exec	43,622	95,630	82,545	87,784	51,732	52,915	92,987
Indirect IT	28,056	29,567	48,734	28,892	29,620	23,696	41,772
Indirect Charges Division	19,109	33,175	34,708	33,596	22,011	48,734	39,098
Direct Chg-lthr Intradpt	0	0	0	25	0	0	0
<b>TOTAL DISTRIBUTED COSTS</b>	<b>90,787</b>	<b>158,372</b>	<b>165,987</b>	<b>150,297</b>	<b>103,363</b>	<b>125,345</b>	<b>173,857</b>
<b>TOTAL OE&amp;E</b>	<b>1,388,710</b>	<b>2,296,516</b>	<b>2,379,376</b>	<b>1,242,998</b>	<b>1,639,930</b>	<b>2,320,144</b>	<b>2,132,207</b>
<b>TOTAL PROGRAM COSTS</b>	<b>1,928,461</b>	<b>3,010,154</b>	<b>2,987,217</b>	<b>1,890,119</b>	<b>2,381,895</b>	<b>2,973,745</b>	<b>2,816,940</b>
AF-AG CODE 224A	-37,515	-34,420	-24,000	-34,420	-41,981	-34,420	-34,420
<b>SUB-TOTAL PROGRAM</b>	<b>1,890,946</b>	<b>2,975,734</b>	<b>2,963,217</b>	<b>1,855,699</b>	<b>2,339,914</b>	<b>2,939,325</b>	<b>2,782,520</b>
ENCUMBRANCES	253,714	0	0	518,266	0	0	0
<b>TOTAL NET PROGRAM</b>	<b>2,144,660</b>	<b>2,975,734</b>	<b>2,963,217</b>	<b>2,373,965</b>	<b>2,339,914</b>	<b>2,939,325</b>	<b>2,782,520</b>

# Fertilizer Market Trends

Steve Spangler, *Vice Chairperson*

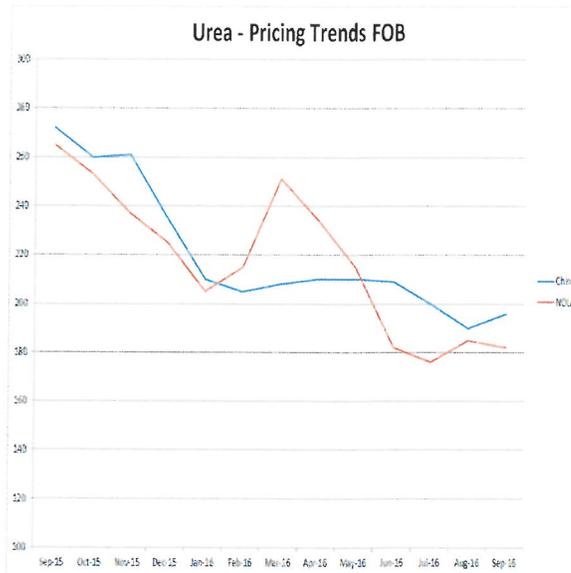
## NH3 Pricing Declines

- Market has dropped 46% year over year
- Oversupply is expected for next 2-3 years



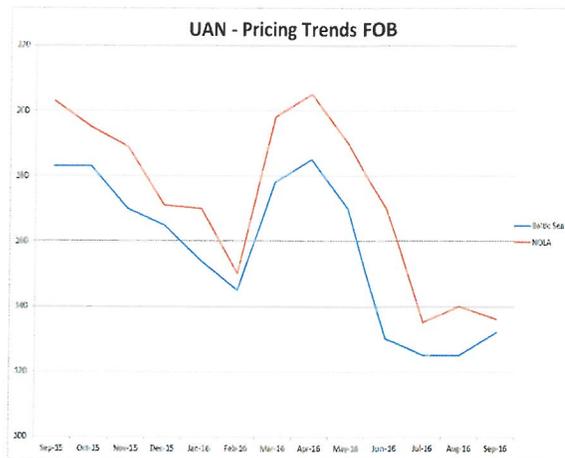
### Urea Pricing Declines

- New American production is creating oversupply
- Weak crop demand contributing to price slide
- Expectation of at least 2-3 years of oversupply
- 31% year over year price declines



### UAN Pricing Declines

- New US plants are creating increased supply
- Chinese production is coming into the West Coast
- 33% decline in price year over year



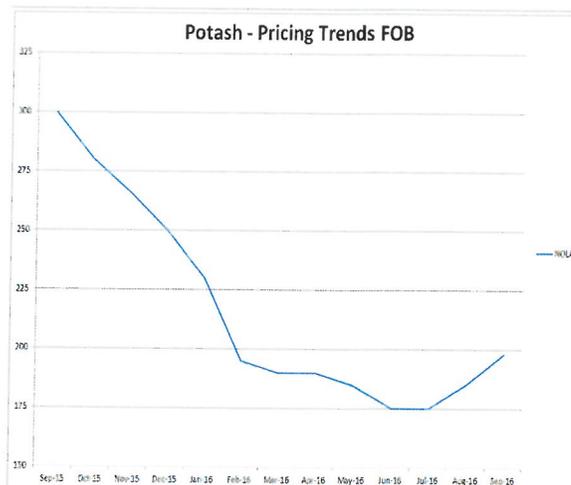
### Phosphate Price Declines

- Offshore production has grown in Morocco, Russia and Saudi Arabia
- Global demand has declined with the fall in crop pricing
- 26% decline in year over year pricing



### Potash Price Declines

- Capacity has grown in Canada and Russia
- Expected 3-5 years before oversupply is in balance
- 34% drop in year over year pricing.



## Inspection and Compliance Updates

Nicole Smith, Special Investigator

## Organic Input Material Inspections

*Through September 2016*

247 OIM Inspections completed by CDFA

- ✓ California
- ✓ Oregon
- ✓ Nevada
- ✓ Arizona
- Total Inspections Required **316**
- OIM Inspections Complete **78%**

## Organic Input Material Inspections

OIM Inspections completed by Ecocert

- Total inspections for rest of U.S. 127
- Total international 54

## Administrative Penalty Update

### **Paid or Payment Plan**

*Info since May FIAB Meeting*

\$9,055.42 *Conventional*

\$5,280.35 *Conventional & OIM*

\$4,732.36 *Conventional*

\$4,573.93 *Conventional*

\$4,637.26 *Conventional & OIM  
Hearing Judgment*

## **New Notice of Proposed Action (NOPAs)**

*Info since May FIAB Meeting*

**\$4,823.93 OIM**

• *Misbranding/Adulteration/Registration*

**\$13,395.15 Conventional**

• *Misbranding/Adulteration/Registration*

**\$6,138.48 Conventional**

• *Misbranding/Adulteration/Registration/  
Mill Assessments/Tonnage Reporting*

# Fertilizer Registration Update



Luz Roa, Senior Environmental Scientist (Supervisory)

## Registration Applications

	<u>Dec</u>	<u>Apr</u>	<u>Sept</u>
▶ <b>Conventional</b>			
▶ Approved –	8,006	4,835	6,681
▶ Pending review –	146	911-Renewals 472-New	298
▶ <b>OIM</b>			
▶ Approved –	1,544	693	1,244
▶ Pending review –	68	419-Renewals 135-New	132

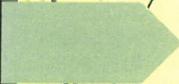
## Program Updates

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- ▶ Certifier Outreach Meeting
  - ▶ July 20, 2016
  
- ▶ ISO 17065 Audits
  - ▶ August & September 2016
  
- ▶ Fertilizer Workshop
  - ▶ November 2 & 3, 2016
  - ▶ San Diego, CA
  
- ▶ NOSB Meeting
  - ▶ November 16, 2016
  - ▶ St. Louis, MO



# FIAB Registration Working Group



Andrew Godfrey, Working Group Chair  
Dale Woods, Ph.D.  
Environmental Program Manager I



## Registration Working Group

August 2, 2016

- Andrew Godfrey, *Chair*
- Steve Spangler
- Doug Graham
- Jake Evans
- Dale Woods
- Luz Roa

## Registration Cycle – Survey of Options May 2016

	Staggered Cycle	Rolling Cycle
Firm #1	In favor	Definitely no – hard to manage
Firm #2	In favor	Too difficult to track
Firm #3	In favor	Extra handling might miss dates
Firm #4	In favor	Very difficult
Consultant #1	In favor	Almost unmanageable
Consultant #2	Do-able	Labor intensive - confusing
Consultant #3	Preference	Hard to track time and costs

## Registration Cycle – Staff Comments

	Staggered Cycle	Rolling Cycle
Pros	Moderates workload	Most consistent workload over time
Cons	4 surges of moderate to high workloads	Difficult transition period – trying to get renewals spread out over time
	Firms split into to groups by name	
Database	Adds some increased fee schedules – burden on performance	Uses a lot of data – fee schedule records

# Proposal #1

Firm Name	Cycle	Example	
R-Z	Group 1	January 1 – even numbered years	January 1, 2018, 2020
#, A, B, C	Group 2	July 1 – even numbered years	July 1, 2018, 2020
D-I	Group 3	January 1 – odd numbered years	January 1, 2019, 2021
J-Q	Group 4	July 1 – odd numbered years	July 1, 2019, 2021

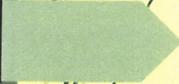
## Process – Draft starting with January 2018 renewal

- Group 1 - January even years = no change
  - Renew for only 2 year months in January 2018.
    - Conventional - \$50, OIM - \$500
- Group 2 – July even years
  - Renew for only 6 months in January 2018.
    - Conventional - \$12.50, OIM - \$125
  - Start a two year cycle in July 2018
    - Conventional - \$50, OIM - \$500
- Group 3 – January even years
  - Renew for only 1 year in January 2018.
    - Conventional - \$25, OIM - \$250
  - Start a two year cycle in January 2019
    - Conventional - \$50, OIM - \$500
- Group 4 -
  - Renew for only 18 months in January 2018.
    - Conventional - \$37.50, OIM - \$375
  - Start a two year cycle in July 2019
    - Conventional - \$50, OIM - \$500



## Provisional Registration

- For renewals only
  - Firm must pay fees
  - Firm must submit application (renew on database)
- CDFA grants provisional
- As time permits, registration staff pulls application out of provisional, reviews and either approves, cancels, or places in data revisions required.
- Avoid using as much as possible – likely only in 2018



# Legislation and Regulation

Dale Woods, Ph.D.

Environmental Program Manager I



## AB 2511 – Fertilizing Materials: auxiliary soil and plant substances: biochar

- New definition of biochar
- Biochar as an ASPS
- Implementation of the bill
  - New registrations
  - Modifications of existing label registrations
  - New claims
  - New staffing in the program

## **AB 1811 – Fertilizer: organic input material: registration; inspections**

- **Provisional registration**
  - What it means – For renewal, while corrected, and reprinted or during registration renewal
  - How will we utilize this option
- **Establishing a registration cycle**
  - Develop regulation
  - New registration cycle in January 2018
- **Organic Inspections**
  - Eliminate mandatory annual of “all”
  - Inspect high risk
  - Develop regulation to clarify

## **Regulatory Update**

- **Additional 15-day public notice upcoming**
- **Includes responses to initial public comments**
- **Modified text**
- **Some proposed regulations were modified based on public comments received during 45-day notice.**

## Regulatory Update

- § 2300. Fertilizing Materials - General Provisions
- (h) A warning or caution statement shall appear on the label of any commercial fertilizer or agricultural mineral product which contains 0.1 percent or more by weight of boron in water soluble form. This statement shall carry the word "WARNING," ~~or~~ "CAUTION," "ATTENTION," or "NOTICE," conspicuously displayed, shall state the crop(s) for which the fertilizing material is to be used or state that the use of the fertilizing material on any crops other than those recommended may result in serious injury to the crop(s).
- **Revised to be in line with federal requirements and proposed AAPFCO working group recommendations**

## Regulatory Update

- § 2300. Fertilizing Materials - General Provisions
- (i) Except for products labeled only for indoor or hydroponic use, a warning or caution statement shall appear on the label of any commercial fertilizer or agricultural mineral product which contains 0.001 percent or more by weight of molybdenum (Mo). This statement shall carry the word "WARNING," ~~or~~ "CAUTION," "ATTENTION," or "NOTICE," conspicuously displayed and the statement that the application of fertilizing materials containing molybdenum (Mo) may result in forage crops containing levels of molybdenum (Mo) which are toxic to ruminant animals.
- **Revised to be in line with federal requirements and a proposed AAPFCO working group recommendations**

## Regulatory Update

- **§ 2319. Experimental Use of a Fertilizing Material.**
- Experimental use of a fertilizing material for noncommercial value is exempt from registration, licensing, ~~only~~ when all of the following conditions have been satisfied:
  - ~~(a) Experimental fertilizing. The material shall not be sold application is limited to 10 acres or less.~~
  - (b) Records identifying recipients of the material shall ~~must~~ be retained and available to the secretary upon request for three years ~~after the conclusion of the field trial.~~

## Regulatory Update

- **(Continued)**
- (c) ~~Experimental fertilizing. The material shall be conspicuously identified on the display panel as "EXPERIMENTAL USE ONLY".~~
- ~~(d) Firms shall notify the department of their intent to apply fertilizing material for experimental use on the CDFR form, number 513-130 (Est. 10/15), Experimental Fertilizing Material Research Notification.~~
- ~~(1) The conclusion of each trial shall be reported to the department on the CDFR form, number 513-135 (Est. 10/15), Experimental Fertilizing Material Field Trial Report.~~

# Regulatory Update

## ■ § 2320.5. Registered Product List

(a) The secretary shall maintain a list of registered fertilizing materials on the department's website.

~~■ (b) Anyone (including producer, manufacturer, distributor, importer, agent, dealer, or retailer) shall be responsible for checking the list to ensure the product is registered prior to selling or distributing any fertilizing material.~~

~~■ (c) Anyone who sells or distributes an unregistered fertilizing material shall be subject to administrative penalties.~~



# FREP Updates

Barzin Moradi, Senior Environmental Scientist (Supervisory)



## 2016 Regular RFP Priority Areas



- **Improving Fertilizer Input Management**  
Developing integrated decision support tools, education and outreach, adoption or development of practices that optimize nutrient and/or water use efficiency, addressing challenges and barriers to adoption of management practices.
- **Understanding Soil-Plant Processes**  
Filling knowledge gaps for nitrogen management in specific crops, examining the role of soil organic matter and organic fertilizing materials on nutrient management in soil.
- **Understanding Loss Pathways**  
Understanding and quantification of nitrogen movement in deep soil in relation to management practices, development of easy-to-use technologies for field scale management of water and nitrate leaching, nitrous oxide.



## Develop Nutrient Budget and Early Spring Nutrient Prediction Model for Nutrient Management in Citrus

**PIs:** Patrick Brown, Saiful Muhammad, Maziar Kandelous and Emilio Laca

**Affiliation:** Dept. of Plant Sciences, University of California Davis

**Budget and Duration:** \$241,271, three years

**RECOMMENDED**

Yes Votes: 8

No Votes: 0

Abstain: 0

**Project Strength:**

- Currently leaf sampling in this crop is done midsummer or later, which doesn't allow for correction of management plans in season. This concept, which has been successfully demonstrated in almonds and pistachios by the same team, would change that.



## Online Decision Support Tools for Irrigation and Nitrogen Management of Central Valley Crops

**PIs:** Michael Cahn, Patrick Brown, Allan Fulton, and Saiful Muhammad

**Affiliation:** UCCE and Dept. of Plant Sciences, University of California Davis

**Budget and Duration:** \$224,771, three years

**RECOMMENDED**

Yes Votes: 7

No Votes: 0

Abstain: 1

**Project Strength:**

- This project would support the addition of almonds, processing tomatoes and alfalfa to CropManage. It would also add algorithms and modules that accommodate warm season vegetables, other forages and tree crops.

## Evaluation of Certified Organic Fertilizers for Long-term Nutrient Planning

**PIs:** William Horwath and Xia Zhu-Barker

**Affiliation:** Dept. of Land, Air and Water Resources, University of California Davis

**Budget and Duration:** \$224,760, three years

**RECOMMENDED**  
 Yes Votes: 7  
 No Votes: 1  
 Abstain: 0

**Project Strength:**

- This project would provide baseline data to inform nitrogen management plans, particularly mineralization, specific to California where organic fertilizer amendments are used.

### Proposals not recommended for funding

Project Title	Reporting PI	Funds Requested
Development of a decision support tool to estimate site-specific soil N mineralization for improved fertilizer N use efficiency	Daniel Geisseler	\$176,461
Nitrogen availability and fertilizer value of organic amendments	Daniel Geisseler	\$141,274
Demonstration of Efficient Nitrogen Management Practices for Mixed Leafy Baby Vegetables in the Desert	Charles Sanchez	\$224,445
Field evaluation of N <sub>2</sub> O emissions from alternative fertilizer management practices in California/Arizona desert vegetable production systems	Sharon Hall	\$224,658

### Proposals not recommended for funding

Project Title	Reporting PI	Funds Requested
Nutrient Management Seminars to Enhance Fertilizer, Soil, and Plant Health Knowledge Expectations	Ruthann Andersen	\$176,461
Block-level Yield Prediction for Seasonal N Fertilization Strategies in California's Almond Orchards	Patrick Brown	\$222,077
Evaluation of Biochar for On-Farm Soil Management in California	Sanjai Parikh	\$225,000
Can nitrogen transformation inhibitors impact N <sub>2</sub> O emissions and NO <sub>3</sub> movement below the root zone of almond?	Patrick Brown	\$196,954

### Proposals not recommended for funding

Project Title	Reporting PI	Funds Requested
Training for Irrigators on Integrated Management of Irrigation Systems based on Climate, Soil and Plant Data	Avery Austin	\$201,260
Validating Leaf Nutrient Critical Values for Citrus	Phillipe Rolshausen	\$214,266

## 2016 Special RFP Priority Areas



- **The Role of Biochar in Nutrient Management in California**

Biochar can sequester carbon and improve soil physical, chemical and biological properties. There is a significant need for better understanding of biochar under California conditions.

- **Education and Outreach (Technical Education)**

There is increasing demand for applied technical training for agricultural worker at all levels of farming operations. Appropriately trained farm staff will employ irrigation and nutrient management practices that support efficient crop production and optimize environmental outcomes.

**Addressing Challenges and Barriers to Improving Management Practices**

There are significant knowledge gaps in better understanding of challenges to improving management practices in various agricultural systems in California. Barriers can be overcome by understanding economic thresholds, regulatory or institutional aspects, incentive programs and by using human behavior studies to elucidate decision making and adoption.

## Evaluation of Biochar for On-Farm Soil Management in California

**PIs:** Sanjai Parikh, William Horwath, Milt McGiffen, Michelle Leinfelder-Miles, Toby O'Geen and Kate Scow

**Affiliation:** UCCE, Dept. of Land, Air and Water Resources, University of California Davis, Dept. of Botany and Plant Science, University of California, Riverside

**Budget and Duration:** \$300,000, three years

**Project Strength:**

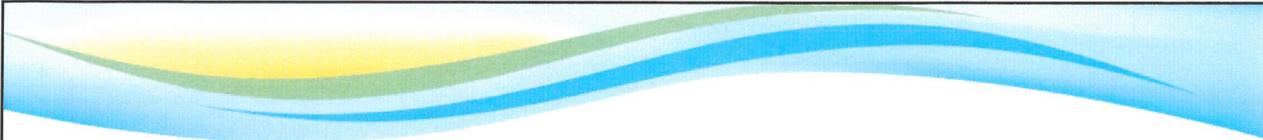
- This project would provide baseline data and information specific to California regarding the potential for biochar to provide benefits as a soil amendment for increasing nutrient retention, C sequestration and improving drought resilience for agriculture in California's Central Valley.

**RECOMMENDED**

Yes Votes: 9

No Votes: 0

Abstain: 0



## Understanding Influences on Grower Decision-Making and Adoption of Improved Nitrogen Management Practices

**PIs:** Mark Lubell and Patrick Brown

**Affiliation:** Dept. of Environmental Science and Policy and Dept. of Plant Sciences, University of California Davis

**Budget and Duration:** \$205,979, two years

**Project Strength:**

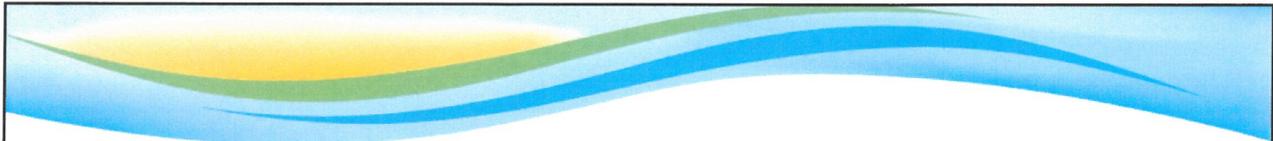
- This project will develop a qualitative understanding of key influences and barriers to adoption of improved N management practices in California's Central Valley. It will analyze response data to determine key motivations to grower adoption and communicate these findings.

**RECOMMENDED**

Yes Votes: 9

No Votes: 0

Abstain: 0



## Train the Trainer: A Nitrogen Management Training Program for Growers Phase II

**PIs:** Parry Klassen and Terry Prichard

**Affiliation:** CURES and UCCE

**Budget and Duration:** \$224,890, three years

**Project Strength:**

- This project will build on last years training which certified more than 1,600 growers. They also intend to expand the pool of trainers, modify the curriculum and develop a continuing education program for certified growers.

**RECOMMENDED**

Yes Votes: 8

No Votes: 0

Abstain: 1



## Soil Biochar Amendment to Improve Nitrogen and Water Management

**PIs:** Suduan Gao and Dong Wang

**Affiliation:** USDA-ARS, San Joaquin Valley Agricultural Sciences Center

**Budget and Duration:** \$214,854, three years

**RECOMMENDED**

Yes Votes: 9

No Votes: 0

Abstain: 0

**Project Strength:**

- This project will determine the effects of soil amendment with biochars produced from different feedstocks found in the San Joaquin Valley of California on adsorption capacity for  $\text{NH}_4^+$  and  $\text{NO}_3^-$  and N transformation (urea hydrolysis and nitrification) rates as well as soil-water retention. It will also determine the effective amendment rate of biochar products and irrigation rates on crop response and N fate under field conditions.



## Expanding the California Fertilization Guidelines to Support Nutrient Management Decisions for Minor Annual Crops

**PIs:** Daniel Geisseler

**Affiliation:** UCCE

**Budget and Duration:** \$122,977, two years

**RECOMMENDED**

Yes Votes: 9

No Votes: 0

Abstain: 0

**Project Strength:**

- This project will add 20 minor crop nutrient guidelines to the current inventory of major crop guidelines. It will also create a general nutrient web page that includes discussion of the 4R's and interpretation of soil and plant tissue tests in the absence of crop-specific values. They will also create an N calculator that will provide estimates of N requirements and N uptake timing for a wide range of annual crops.

## University of California Nursery and Floriculture Alliance Fertilizers and Plant Nutrition Education Program

**RECOMMENDED**  
Yes Votes: 8  
No Votes: 0  
Abstain: 1

**PIs:** Lorence Oki and Don Merhaut

**Affiliation:** UCCE

**Budget and Duration:** \$129,688, two years

**Project Strength:**

- This project will build on an existing program by improving the curriculum and increasing the number of trainings. It will also produce videos of the workshops, both in English and Spanish. This project addresses a small, but very important, segment of agriculture with which FREP has had limited interaction.

### Proposals not recommended for funding (Special RFP)

Project Title	Reporting PI	Funds Requested
Irrigation Training Program with Certification of Completion	Khaled Bali	\$224,887
Biochar and N Management in Desert Vegetable Production Systems	Charles Sanchez	\$220,428
Is Biochar a Panacea for California Agriculture?	Kurt Spokas	\$186,191
Can Biochar Help California's Vegetable Crops? A Study of Its Effects on Soil Organic Matter, Nutrients, and Soil Water Availability	Costanza Zavalloni	\$224,211
BioEnergy Development, LLC/USDA-ARS Testing of Biochar in California	Greg Shipley	\$225,000

### Proposals not recommended for funding (Special RFP)

Project Title	Reporting PI	Funds Requested
Improving Soil Health in the Central Valley: The role of Biochar in Addressing Nutrient and Drought Challenges for Trees	Greg Douhan	\$54,474
Optimizing Organic Vineyard Floor Management Approaches Using Biochar	David Smart	\$219,470
Increasing Implementation of Conservation Practices to Protect Groundwater Quality	Casey Creamer	\$216,095
Integrated On-Farm Decision Support Network for Nitrate Monitoring Center for Irrigation Technology, CSU Fresno	Kaomine Vang	\$225,000

## OVERHEAD

- During the past couple of years FREP has paid 10% overhead on personnel expenses to California universities.
- Recently the State has negotiated with the same universities to increase overhead (on almost all budget categories) to 25% this year and to gradually increase it to 40% by 2019, pursuant to Assembly Bill 20.
- CDFA has argued that most of its grants, including FREP's, are, "pass through," funds which are exempt from the increased overhead. The universities do not agree. The two parties have been negotiating this disagreement for several months and it might not be resolved in 2016.
- Since May, the CDFA grants office has not accepted any grant packages with overhead greater than 10%. This has caused a large backlog of grants that need to be submitted and processed.

## FISCAL IMPACT

PI	FY16/17	FY17/18	FY18/19	FY19/20	Total Request
Parikh, UC Davis	\$53,818	\$100,515	\$96,182	\$49,485	\$300,000
Lubell, UC Davis	\$50,826	\$102,990	\$52,163	\$0	\$205,979
Klassen, CURES	\$37,476	\$74,961	\$74,968	\$37,485	\$224,890
Oki, UC ANR	\$0	\$46,937	\$82,751	\$0	\$129,688
Geisseler, UC Davis	\$35,650	\$61,488	\$25,839	\$0	\$122,977
Gao, USDA	\$34,543	\$70,043	\$72,884	\$37,384	\$214,854
Brown, UC Davis	\$47,287	\$95,435	\$73,349	\$25,200	\$241,271
Cahn, UC ANR	\$37,460	\$74,920	\$74,920	\$37,460	\$224,760
Horwath, UC Davis	\$28,219	\$73,875	\$84,177	\$38,500	\$224,771
Recommended Project Funding	\$325,279	\$701,164	\$637,233	\$225,514	\$1,889,190

Agreement #	Project Leader(s)	Institution	Project Title	Grant Start Date	Grant End Date	13/14	14/15	15/16	16/17	17/18	18/19	Grant/Contract Balance	Grant/Contract Fund Amount
<b>On-going Projects</b>													
11-0453-SA	Sanchez	Unv. Arizona	<i>Exploring the Potential for Using Transgenic Crops for Improved Fertilizer Use Efficiency</i>	1/1/2012	7/31/2015	0.00	24,178.00	-	-			24,178.00	149,178.00
12-0362-SA	Smith & Cahn	UCCE	<i>Evaluation of N Uptake and Water Use of Leafy Greens Grown in High-Density 80-inch Bed Plantings and Demonstration of Best Management Practices</i>	1/1/2013	6/30/2016	0.00	0.00	28,634.00	-			28,634.00	153,634.00
12-0386-SA	Sanchez, Andrade & Nolte	Unv. Arizona	<i>Development of Economically Variable Rate P Application Protocols for Desert Vegetable Production Systems</i>	1/1/2013	1/31/2017	0.00	0.00	15,632.00	-			15,632.00	140,632.00
12-0391-SA	Pinel	WPHA	<i>Developing Fertilizer Best Management Guides from FREP Research</i>	1/1/2013	1/31/2017	16,400.00	16,400.00	8,200.00	-			41,000.00	49,200.00
12-0392-SA	Pinel	WPHA	<i>Improving Nitrogen Fertilizer Management in California</i>	1/1/2013	1/31/2017	50,000.00	50,000.00	12,500.00	-			112,500.00	137,500.00
12-0454-SA	Smart, Hopmans, Brown &	UC Davis	<i>Optimizing the Use of Groundwater Nitrogen for Nut Crops</i>	1/1/2013	12/31/2016	0.00	0.00	51,424.87	-			51,424.87	472,730.00
12-0455-SA	Cahn, Smith & Hartz	UCCE	<i>Determining the Fertilizer Value of Ambient Nitrogen in Irrigation Water</i>	1/1/2013	12/31/2016	0.00	0.00	43,205.50	-			43,205.50	280,536.00
13-0241-SA	Parker, Brown, Hartz et al.	UC ANR	<i>Nitrogen Management Training for Certified Crop Advisors</i>	8/1/2013	6/30/2016	0.00	47,482.76	30,917.00	-			78,399.76	359,616.00
13-0267-SA	Hutmacher Orloff Wright	UC ANR	<i>Developing Nitrogen Management Strategies to Optimize Grain Yield and Protein Content While Minimizing Leaching Losses in California Wheat</i>	1/1/2014	12/31/2016	0.00	0.00	0.00	31,393.21			31,393.21	225,000.00
13-0268-SA	Smith Cahn Hartz	UC ANR	<i>Improving N Use Efficiency of Cool Season Vegetable Production Systems with Broccoli Rotations</i>	1/1/2014	12/31/2016	0.00	0.00	0.00	14,052.00			14,052.00	175,658.00
14-0452-SA	O'Geen Hopmans	UC ANR	<i>A Data Driven Nitrate Leaching Hazard Index and BMP Assessment Tool</i>	1/1/2015	12/31/2017		0.00	45.00	74,816.69	37,367.00		112,228.69	224,511.05
14-0481-SA	Culbertson DeRohan	CA Foundation for Ag in the Classroom	<i>Plant Nutrients in the Classroom</i>	1/1/2015	12/31/2017		11,733.71	52,376.87	43,152.33	18,493.95		125,756.86	141,741.62
14-0508-SA	Sanchez Smith	Unv. of Arizona UC ANR	<i>Field Evaluation and Demonstration of Controlled Release N Fertilizers in the Western United States</i>	1/1/2015	12/31/2017		0.00	37,480.39	74,993.62	37,513.24		149,987.25	224,966.45

Agreement #	Project Leader(s)	Institution	Project Title	Grant Start Date	Grant End Date	13/14	14/15	15/16	16/17	17/18	18/19	Grant/Contract Balance	Grant/Contract Fund Amount
14-0555-SA (11-0470)	Putnam Stark	UC ANR CAPCA	CA CCA FREP Educational/Outreach Program	1/1/2015	12/31/2017		0.00	0.00	41,558.50	19,976.50		61,535.00	134,999.00
15-0231-SA (11-0485)	Geisseler Horwath	UC ANR	Online Fertilization Guidelines for Agricultural Crops in California	7/1/2015	6/30/2017			0.00	74,782.60			74,782.60	149,003.34
15-0356-SA	Haffa Post Horwath	California State Monterey Bay	Quantifying N2O Emissions under Different On-farm Irrigation and Nutrient Management BMPs that Reduce Groundwater Nitrate Loading and Applied Water	7/1/2015	6/30/2018			66,557.84	81,808.00	93,815.00		242,180.84	270,000.00
15-0360-SA	Klassen Fulton	CURES	Evaluation of the Multiple Benefits of Nitrogen Management Practices in Walnuts	7/1/2015	6/30/2018			29,746.04	81,362.30	34,250.40		145,358.74	224,994.00
15-0392-SA	Klassen Prichard	CURES	Train the Trainer: A Nitrogen Management Training Program for Growers	7/1/2015	6/30/2018			0.00	810.68	27,901.00		28,711.68	139,568.00
15-0393-SA	Burt	Cal Poly SLO	New Fertigation Book	7/1/2015	6/30/2017			38,933.84	122,815.00			161,748.84	224,477.00
15-0410-SA	Geisseler	UC ANR	Developing a decision support tool for processing tomato irrigation and fertilization in the Central Valley based on CropManage	7/1/2015	6/30/2018			0.00	74,907.98	74,920.06		149,828.04	224,716.00
15-0454-SA (11-0301)	Harter	UC ANR	N Fertilizer Loading to Groundwater	7/1/2015	6/30/2016			13,231.00				13,231.00	13,231.00
15-0492-SA	Brown	UC Davis	Prediction of Summer Leaf Nitrogen Concentration from Early Season Samples to Better Manage Nitrogen Inputs at the Right Time in Walnuts, Prunes, and Pears	1/1/2016	12/31/2018			0.00	78,325.89	72,535.66	35,908.54	186,770.09	228,469.00
15-0522-SA	Smith Cahn	UC ANR	Evaluation and demonstration of nitrogen and phosphorus management in organic leafy green vegetable production on the Central Coast	1/1/2016	12/31/2018			43,287.30	82,596.95	57,911.25	18,724.45	202,519.95	202,642.80
15-0523-SA	Kandelous Brown	UC Davis	Improving nitrate and salinity management strategies for almond grown under micro-irrigation	1/1/2016	12/31/2018			0.00	74,314.15	74,325.01	37,293.53	185,932.69	223,215.00
15-0331	Ceppos Dupraw	CSU Sacramento	Central Coast Beneficial Management Practices Initiative	6/7/2016	12/5/2016				36,218.20			36,218.20	36,218.20
Available Funds						\$1,457,139	\$1,500,000	\$2,300,000	\$1,321,054	\$2,000,000	\$2,000,000		
Total Contract Amount						\$1,422,198	\$1,216,842	\$1,501,937	\$1,119,132	\$624,585	\$91,927		
Invoices Paid						\$1,355,798	\$1,067,048	\$1,029,765	\$131,224	\$75,576	\$0		
YTD Encumbered Funds						\$66,400	\$149,794	\$472,172	\$987,908	\$549,009	\$91,927	\$2,280,992	

**Center for Analytical Chemistry  
Fertilizer Laboratory  
January - August 2016**

**Fertilizer Samples**

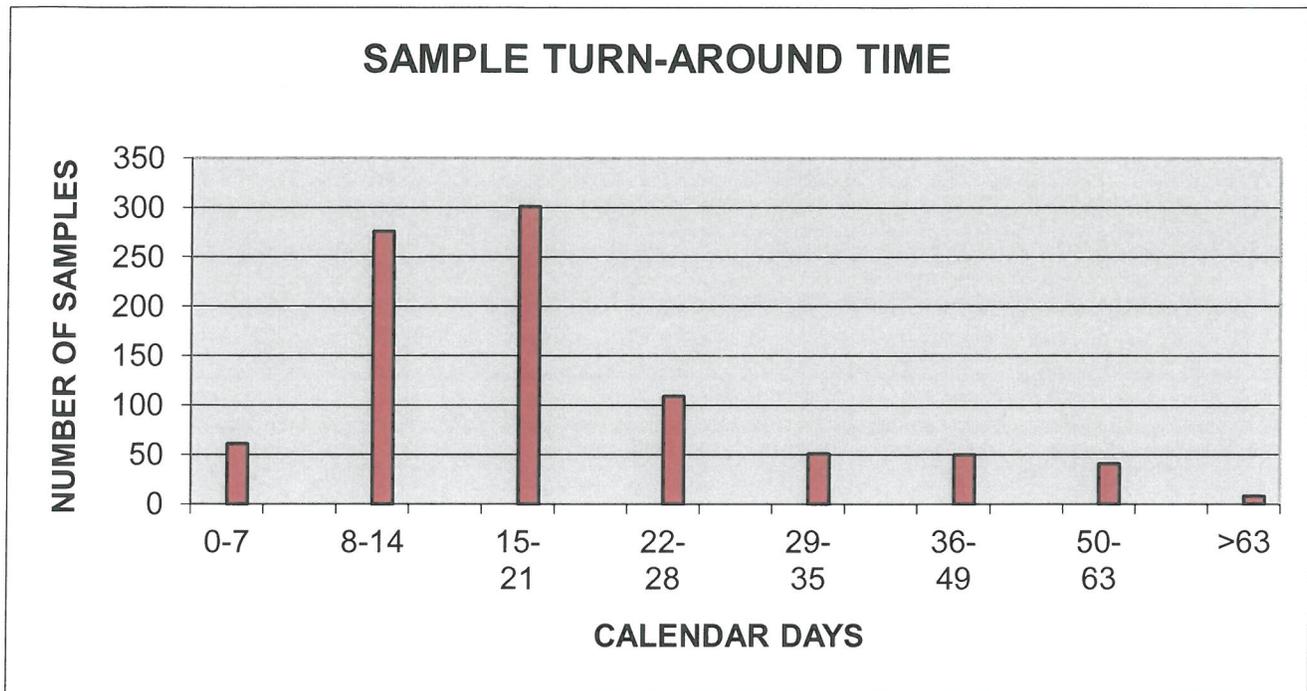
<b>Total Number of Samples Received</b>	<b>936</b>
<b>Routine Samples</b>	<b>875</b>
<b>Priority Samples</b>	<b>15</b>
<b>Partial Rush Samples</b>	<b>15</b>
<b>Rush Samples</b>	<b>31</b>
<b>Total Number of Samples Completed</b>	<b>897</b>
<b>Total Number of Assays Requested</b>	<b>4,494</b>
<b>Routine Assays</b>	<b>4,373</b>
<b>Rush Assays</b>	<b>121</b>
<b>Average Number of Assays Requested per Sample</b>	<b>5.01</b>

## Turn-Around Time for Fertilizer Samples January - August 2016

### Summary

Total Samples Received - 936

Total Samples Completed - 897



Calendar Days	# of Samples	% of Total	Cumulative Total
0-7	61	6.8%	
8-14	276	30.8%	37.6%
15-21	301	33.5%	71.1%
22-28	109	12.1%	83.2%
29-35	51	5.7%	88.9%
36-49	50	5.6%	94.5%
50-63	41	4.6%	99.1%
<u>&gt;63</u>	<u>8</u>	<u>0.9%</u>	100.0%
<b>Total</b>	<b>897</b>	<b>100.0%</b>	

**FERTILIZER SAMPLES  
JANUARY - AUGUST 2016**

Agenda Item 9

No.	Fertilizer	Method	Routine		Rush		Totals
	N, P2O5, K2O		Assay 1	Assay 2	Assay 1	Assay 2	
1	Nitrogen - Total	Combustion	637	60	37	15	749
2	Phosphorus - Available	Wet Chemistry	499	63	19	15	596
3	Potassium - Soluble	AA	603	58	17	4	682
4	Ammoniacal Nitrogen	Kjeldahl	35	0	0	0	35
5	Nitrate Nitrogen	Wet Chemistry	24	2	0	0	26
6	Phosphorus - Total	Wet Chemistry	9	2	0	0	11
7	Urea	Wet Chemistry	55	1	1	0	57
8	Water Insoluble Nitrogen	Kjeldahl	73	0	1	0	74
<b>Miscellaneous</b>							
9	CCE	Wet Chemistry	20	3	0	0	23
10	Density	Wet Chemistry	9	0	5	0	14
11	Free Water	Oven	3	0	0	0	3
12	Gypsum Equivalent	Calculation	33	3	4	0	40
13	Humic Acid	Wet Chemistry	97	28	3	2	130
14	Microscopy	Microscope	1	0	1	0	2
15	Moisture	Oven	23	0	0	0	23
16	Organic Matter	Wet Chemistry	2	0	0	0	2
17	Pesticide Screen	GC/MS and LC/MS	0	0	0	0	0
18	pH	pH Meter	49	0	5	0	54
19	Salinity	Wet Chemistry	0	0	0	0	0
20	Vitamin B1	LC	2	0	0	0	2
<b>Minerals</b>							
21	Arsenic	AA	292	1	2	1	296
22	Cadmium	AA	292	0	2	0	294
23	Lead	AA	292	0	2	0	294
24	Boron	ICP	89	47	2	2	140
25	Calcium	ICP	226	11	4	0	241
26	Chloride	Wet Chemistry	28	1	0	0	29
27	Cobalt	ICP	10	7	0	0	17
28	Copper	ICP	79	23	2	2	106
29	Iron	ICP	197	27	2	2	228
30	Magnesium	ICP	127	10	0	0	137
31	Manganese	ICP	136	26	2	2	166
32	Molybdenum	ICP	69	31	2	2	104
33	Nickel	ICP	0	0	0	0	0
34	Selenium	ICP	0	0	0	0	0
35	Sodium	ICP	10	0	0	0	10
36	Zinc	ICP	138	27	2	2	169
<b>Plant Growth Regulators</b>							
37	6-Benzylaminopurine	LC/MS	1	0	0	0	1
38	Chlormequat Chloride	LC/MS	1	0	0	0	1
39	Daminozide	LC/MS	1	0	0	0	1
40	Ethephon	LC/MS	1	0	0	0	1
41	Forchlorfenuron	LC/MS	1	0	0	0	1
42	Mepiquat Chloride	LC/MS	1	0	0	0	1
43	Paclobutrazol	LC/MS	1	0	0	0	1
44	Prohexadione	LC/MS	1	0	0	0	1
45	Uniconazole	LC/MS	1	0	0	0	1

**FERTILIZER SAMPLES  
JANUARY - AUGUST 2016**

Agenda Item 9

	<b>Sulfur</b>						
46	Sulfur - Elemental	Wet Chemistry	0	0	0	0	0
47	Sulfur - Sulfate	Wet Chemistry	45	5	4	0	54
48	Sulfur - Total	Wet Chemistry	160	14	2	0	176
	<b>Fertilizer</b>		<b>Routine</b>		<b>Rush</b>		<b>Total</b>
	<b>Assays</b>		<b>Assay 1</b>	<b>Assay 2</b>	<b>Assay 1</b>	<b>Assay 2</b>	
	<b>Total</b>		<b>4373</b>	<b>450</b>	<b>121</b>	<b>49</b>	<b>4993</b>

## Board and TASC Vacancies

**Brad Baltzer, Chair**  
**Amadou Ba, Ph.D**  
**Environmental Program Manager II**

## FIAB Board Vacancies

### *Applicants*

- ▶ **Arun Chattopadhyay**
- ▶ **Todd Gibbs**
- ▶ **Jay Irvine**
- ▶ **David P. McEuen**
- ▶ **Paulo Santos**
- ▶ **Steve Spangler**
- ▶ **Sharon Yon**

## FIAB Board Vacancies

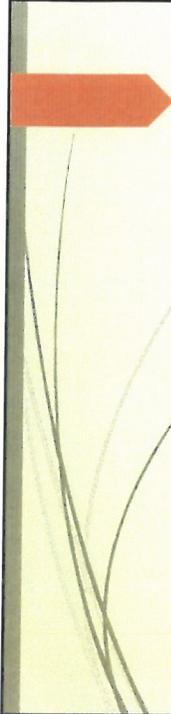
### PUBLIC MEMBERS

APPLICANT	ASSOCIATION	TITLE	CERTIFICATION /LICENSE
<b>David P. McEuen</b> <i>32 years in the industry</i>	<i>J.G. Boswell Company Corcoran, CA</i>	Production/Research Agronomist	<ul style="list-style-type: none"> <li>• <i>California Certified Crop Advisor</i></li> </ul>
<b>Paulo Santos</b> <i>16 years in the industry</i>	<i>Driscoll's Strawberries Associates Santa Maria, CA</i>	Production Manager	<ul style="list-style-type: none"> <li>• <i>Pest Control Advisor</i></li> <li>• <i>Certified Crop Advisor</i></li> </ul>

## FIAB Board Vacancies

### LICENSED MEMBERS

APPLICANT	ASSOCIATION	TITLE	CERTIFICATION /LICENSE
<b>Arun Chattopadhyay</b> <i>3 years in the industry</i>	<i>Etimine USA INC. Pittsburgh, PA</i>	Technical Manager	<ul style="list-style-type: none"> <li>• <i>Patents: &gt; 25</i></li> <li>• <i>Publications in International Journals and Books: &gt; 65</i></li> <li>• <i>Book: 1</i></li> </ul>
<b>Todd Gibbs</b> <i>1 year in the industry</i>	<i>Agroliquid Stockton, CA</i>	Site Manager	<ul style="list-style-type: none"> <li>• <i>No information provided</i></li> </ul>
<b>Jay Irvine</b> <i>24 years in the industry</i>	<i>Mar Vista Resources Corcoran, CA</i>	President/CEO	<ul style="list-style-type: none"> <li>• <i>California Pest Control Advisor</i></li> </ul>
<b>Steve Spangler</b> <i>36 years in the industry</i>	<i>Integrated Agribusiness Professionals Fresno, CA</i>	VP – Fertilizer	<ul style="list-style-type: none"> <li>• <i>Certified Crop Advisor</i></li> </ul>
<b>Sharon Yon</b> <i>35 years in the industry</i>	<i>Redi Gro Corporation Sacramento, CA</i>	Pro-Division Manager	<ul style="list-style-type: none"> <li>• <i>No information provided</i></li> </ul>



## Technical Advisory Subcommittee (TASC) Vacancies

### *Applicants*

- ▶ **William Baker**, *California Tree Service Manager*
- ▶ **Jennifer Clary**, *Clean Water Action/Clean Water Fund*
- ▶ **Dr. Mark David**, *University of Illinois, Department of Natural Resources and Environmental Sciences*
- ▶ **Patrick Dosier**, *Transvalley Agtech*
- ▶ **Dr. Nigel Grech**, *Executive Vice President of Science and Technology Verdesian Life Sciences (Plant Pathologist/Physiology)*
- ▶ **Charles Horning**, *Leffingwell Ag Sale*
- ▶ **Richard Mead**, *Database Agronomist, CPS*
- ▶ **Hudson Minshew**, *NRCS*
- ▶ **Dr. Steve E. Petrie**, *Yara North America*
- ▶ **Jenny Rempel**, *Sustainable Ag Coordinator/Community Water Center*



## Technical Advisory Subcommittee (TASC) Vacancies

### *Potential TASC Members*

- ▶ **Jennifer Clary**, *Clean Water Action/Clean Water Fund*
- ▶ **Charles Horning**, *Leffingwell Ag Sale*
- ▶ **Hudson Minshew**, *NRCS*
- ▶ **Dr. Steve E. Petrie**, *Yara North America*
- ▶ **Jenny Rempel**, *Sustainable Ag Coordinator/Community Water Center*

## News Release

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

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# CDFA ANNOUNCES VACANCIES ON THE FERTILIZER INSPECTION ADVISORY BOARD



Release #16-025  
[Print This Release](#)

SACRAMENTO, July 5, 2016 - The California Department of Food and Agriculture is announcing three vacancies on the Fertilizer Inspection Advisory Board. The board advises the secretary on the department's Fertilizing Materials Inspection Program, which works to ensure that consumers receive fertilizing materials that are safe, effective, and meet the quality guaranteed by the manufacturer.

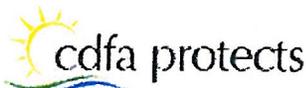
As part of the Fertilizing Materials Inspection Program, inspectors and investigators located throughout the state conduct routine sampling and inspections; respond to consumer complaints; and enforce the laws and regulations that govern the manufacturing and distribution of fertilizing materials. The program is funded by fertilizer license fees and assessments.

Vacancies are available for two board positions and one public member. The term of office for board members is three years. Members receive no compensation, but are entitled to payment of necessary traveling expenses in accordance with the rules of the Department of Personnel Administration. The two board member applicants must hold a current fertilizing materials license or be a representative of a licensed firm; the public member vacancy is not subject to this requirement.

Individuals interested in being considered for a board appointment must submit a resume and a completed Prospective Member Appointment Questionnaire (available at [www.cdfa.ca.gov/is/ffldrs](http://www.cdfa.ca.gov/is/ffldrs)) to [Brittnie.Sabalbro@cdfa.ca.gov](mailto:Brittnie.Sabalbro@cdfa.ca.gov) by August 31, 2016.

For further information on the Fertilizer Inspection Advisory Board and vacancies, you may contact program staff at (916) 900-5022.

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California Department of Food and Agriculture Office of Public Affairs  
1220 N St., Ste. 214, Sacramento, CA 95814  
916-654-0462, [www.cdfa.ca.gov](http://www.cdfa.ca.gov)

**California Department of Food and Agriculture**  
**Fertilizing Materials Inspection Program**  
**FERTILIZER INSPECTION ADVISORY BOARD**  
**October 2016**

<b>MEMBER</b>	<b>TERM EXPIRES</b>
<b>Brad Baltzer (Chair)</b> J. R. Simplot Company	10/14/2016
<b>Jake Evans</b> True Organic Products	10/14/2018
<b>Andrew Godfrey</b> Kellogg Garden Products	10/14/2018
<b>Doug Graham</b> New Era Farm Service	10/14/2017
<b>David P. McEuen (Public Member)</b> J. G. Boswell Company	10/14/2016
<b>Melissa McQueen</b> PotashCorp	10/14/2017
<b>Ron Naven</b> Yara	10/14/2018
<b>Gary Silveria</b> The Lyman Group/The Tremont Group	10/14/2017
<b>Steve Spangler (Vice Chair)</b> IAP (Integrated Agribusiness Professionals)	10/14/2016

**Fertilizer Inspection Advisory Board Applicants**

**Licensee Applicants**

Applicant	Company	Job Title	Industry Experience	Education/Degree	Certifications/License	Current Boards/Interest Groups Membership	Relevant Experience	Reason(s) for Serving on Board
Arun Chattopadhyay	Etimine USA INC.	Technical Manager	3	Ph. D. Physical Chemistry	<ul style="list-style-type: none"> <li>Patents: &gt;25</li> <li>Publications in International Journals and Books: &gt; 65</li> <li>Book : 1</li> </ul>	NO INFORMATION PROVIDED	Extensive experience in chemical process and manufacturing technologies, product formulation, R&D , product management , technology transfer, technical marketing, technical documentation, quality control and environmental management. Successfully implemented various lab-scale processes into production . Managed ISO 9001-2000 system and set up SPC for new plant operations. Technical activities from Developing methods, New Products, Product improvement, Improved Processes for Material Handling and Managing QC, QA, Regulatory Activities, and Technical Service.	<ol style="list-style-type: none"> <li>To actively participate more in understanding the current condition of resources of most prominent substances for direct and special uses as fertilizers or used for fertilizer formulations.</li> <li>To carry out detailed valuation of each constituents which the farmers are generally paying for in retail trade .</li> <li>To protect the interest of farming community by establishing the trade in fertilizers to promote confidence between manufacturers and farmers.</li> <li>To actively participate in controlling the use of crudely made home mixtures which may have adverse effect on human health.</li> </ol>
Todd Gibbs	Agroliquid	Site Manager	1	Austin Community College Modesto Jr. College	NO INFORMATION PROVIDED	• San Joaquin Farm Bureau	Manage day to day operations for fertilizer manufacturing and loadout facility. Prepare site for busy agriculture season, hiring , process creation, job study, community involvement/tours-presentations	<ol style="list-style-type: none"> <li>Create an opportunity to better serve the community and Prosper the Farmer</li> <li>Learn more about different types of fertilizers</li> <li>Represent Agroliquid in California by providing industry knowledge and upcoming changes Communicate environmental awareness</li> <li>Help foster institutional change to align our company with changes and standards</li> </ol>
Jay Irvine	Mar Vista Resources	President/CEO	24	CSU Fresno BS - Ag Business Marketing and Economics	• California Pest Control Advisors License	<ul style="list-style-type: none"> <li>Central California Winegrowers Board member</li> <li>Western Plant Health Association member (WPHA)</li> <li>Alpha Gamma Rho National Agricultural Fraternity (AGR)</li> <li>California Agricultural Production Consultants Association member (CAPCA)</li> </ul>	24 years of experience and leadership in the crop protection and fertilizer industry. Experienced in running a nutrient formulation business and managing employees. Extensive relationship network with suppliers, distribution and dealers in the fertilizer industry. Experienced in the sales and marketing of crop nutrient products. Strong background in product and business development of nutrient products. Extensive agronomic and technical product knowledge of plant nutrient products. Experienced in fertilizer plant operations, production, product formulations and logistics	<ol style="list-style-type: none"> <li>Support the industry</li> <li>Utilize my 24 years of experience as a fertilizer formulator</li> </ol>
Steve Spangler*	Integrated Agribusiness Professionals	VP - Fertilizer	36	CSU Fresno BS - Agriculture Business	• Certified Crop Advisor	<ul style="list-style-type: none"> <li>Western Plant Health Association- Retail/Fertilizer Council, PAC Auction Committee, Soil Improvement Committee.</li> <li>California Fertilizer Foundation - Board member and past president</li> <li>California Department of Food and Agriculture- Fertilizer Inspection Advisory Board</li> <li>FIAB Technical Advisory Committee,</li> <li>California CCA Board Member</li> </ul>	Marketing and sales of Nitrogen and Sulfur products, fertilizer procurement and new product opportunities. Analyze market and agronomic trends to position IAP owners as top tier retailers in the markets they serve. Serve as key liaison in developing national fertilizer programs for owners. Plan and organize training and educational events to stay current with safety, regulatory, financial, and agronomic trends.	I want to add to my service on the board. The fertilizer industry and growers face a number of serious challenges. It is important for the board to remain focused on the key elements to ensure the fertilizer program is effective for all the stakeholders we serve.
Sharon Yon	Redi Gro Corporation	Pro-Division Manager	35	University of Nevada, Reno BS - Crops and Soil Science	NO INFORMATION PROVIDED	<ul style="list-style-type: none"> <li>Local Committee Co-Chair for PLANET Certified Landscape Technician testing</li> <li>Educational speaker for various horticulture and gardening clubs</li> </ul>	Sales of commercial fertilizers, soil amendments and mulch materials formulation and sales of bulk and bagged custom planter mixes, podium and green roof mixes, commercial nursery and grower mixes, golf course and turf top-dress mixes, biofilter and bioswale blends; marketing, trade shows, in house technical support, purchasing and inventory control.	Able to offer a unique perspective from one who distributes and utilizes chemical and organic fertilizers in proprietary and custom commercial soil blends. Would feel honored to serve.

**Public Member Applicants**

David P. McEuen*	J. G. Boswell Company	Production/ Research Agronomist	32	CSU Chico BS - Agronomy	• California Certified Crop Advisor	<ul style="list-style-type: none"> <li>Pest Control Advisor (all categories including Ground Water Protection)</li> <li>California Beet Growers Association Board of Directors</li> <li>Garlic and Onion Dehydrators Advisory Board</li> <li>CA Dept. of Food &amp; Agriculture - Fertilizer Inspection Advisory Board and Technical Advisory Subcommittee - Fertilizer Research and Education Program</li> <li>Grasslands Basin Drainage Steering Committee, CAPCA</li> </ul>	<ul style="list-style-type: none"> <li>Agronomist, organize, plan and resource all agronomic activities for nearly 25,000 acres of Pima, Tomatoes, Alfalfa and Wheat. Conduct research trials on varieties, fertilizers and cultural practices. Pest control, Planting, Fertility, Irrigation scheduling and on-farm research. Has conceived, carried out, technically reported and/or assisted on roughly 80 research trials on fertilizer, irrigation and drainage involving Cotton, Tomato, Alfalfa, Wheat and Safflower during that time and supervised production agronomy operations on over 20,000 acres annually as well.</li> </ul>	I believe it is vital that the Board (and the FREP TASC) have an individual appointed that has "boots on the ground" in actively managing the sustainability of an agriculture enterprise with respect to fertilizer, irrigation and drainage to properly represent the California fertilizer user in the CDFA FFLDRS activities, research spending and regulatory discussions.
Paulo Santos	Driscoll's Strawberries Associates	Production Manager	16	University of Phoenix Sao Paulo State University MBA /Global Management BA - Agricultural Engineering	<ul style="list-style-type: none"> <li>Pest Control Advisor License</li> <li>Certified Crop Advisor License</li> </ul>	<ul style="list-style-type: none"> <li>California Pest Control Association (CPCA)</li> <li>California Farm Bureau Federation</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural engineer testing fertilizers, pesticides, plant material, producing certified nursery plants and deployment the best growing practices. Profound knowledge of plant material, biotechnology, agrochemicals, fertilizers and biological products . Production Management of 1,500 acres of strawberries, 500 ac of raspberries , 350ac of blackberries and 150 ac of blueberries in Santa Maria. Advance Organic business : increase organic land base in Santa Maria to 500 acres for berries. Promote fertilizer budget program among 15 local growers taking in consideration Nitrogen present in the ground water. Support the Crop manage - Fertility project in collaboration with UC Extension Service of San Luis Obispo and Monterey county .</li> </ul>	I want to engage in a professional board that I can serve the society sharing my knowledge and experiences. Bring to the table industry, growers and regulators to discuss challenges and opportunities.

\*Board Term Expiring

## News Release

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

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# CDFA ANNOUNCES VACANCIES ON THE FERTILIZER RESEARCH AND EDUCATION PROGRAM'S TECHNICAL ADVISORY SUBCOMMITTEE



SACRAMENTO, May 23, 2016 -The California Department of Food and Agriculture is announcing four vacancies on the Fertilizer Research and Education Program's Technical Advisory Subcommittee. This subcommittee reviews and recommends fertilizer research and education proposals for funding to CDFA's Fertilizer Inspection Advisory Board.

The Fertilizer Research and Education Program (FREP) funds and facilitates research to improve the agronomic and environmental use of fertilizing materials in agriculture. The program serves growers, agricultural supply and service professionals, extension personnel, public agencies, consultants, and the public.

Applicants must demonstrate technical and scientific expertise in the fields of agronomy, soil science, plant physiology, production agriculture and environmental issues related to fertilizing materials use. This expertise can include, but is not limited to, issues related to crop nutrient management, nitrate in groundwater, and greenhouse gas emissions associated with fertilizer use.

The term of office for subcommittee members is three years. Members receive no compensation but are entitled to payment of necessary travel expenses. The subcommittee and research program are funded entirely through mill assessments on the sale of fertilizing materials.

Individuals interested in being considered for appointment should send a resume and a Prospective Member Appointment Questionnaire (available at [www.cdfa.ca.gov/frep](http://www.cdfa.ca.gov/frep)) to [FREP@cdfa.ca.gov](mailto:FREP@cdfa.ca.gov). The application deadline is July 8, 2016.

For further information about FREP, please contact program staff at (916) 900-5022.

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California Department of Food and Agriculture  
Fertilizer Research and Education Program  
Fertilizer Inspection Advisory Board  
Technical Advisory Subcommittee

Updated: 4/19/2015

<b>MEMBER</b>	<b>TERM</b>
<b>Dr. Jerome Pier, Chair</b> Crop Production Services	<b>Begins:</b> 9/18/2014 <b>Ends:</b> 9/17/2017
<b>Dr. John Bushoven</b> California State University, Fresno	<b>Begins:</b> 9/18/2015 <b>Ends:</b> 9/17/2018
<b>Mr. Rex Dufour</b> National Center for Appropriate Technology	<b>Begins:</b> 9/18/2014 <b>Ends:</b> 9/17/2017
<b>Dr. Eric H. Ellison</b> Koch Agronomic Services, LLC	<b>Begins:</b> 9/18/2014 <b>Ends:</b> 9/17/2017
<b>Mr. Charles Hornung</b> Leffingwell Ag Sales	<b>Begins:</b> 9/18/2013 <b>Ends:</b> 9/17/2016
<b>Ms. DD Levine</b> Michael L. Johnson, LLC	<b>Begins:</b> 9/18/2015 <b>Ends:</b> 9/17/2018
<b>Dr. Marc Los Huertos, Vice Chair</b> Pomona College	<b>Begins:</b> 9/18/2014 <b>Ends:</b> 9/17/2017
<b>Dr. Robert Mikkelsen</b> International Plant Nutrition Institute	<b>Begins:</b> 9/18/2013 <b>Ends:</b> 9/17/2016
<b>Dr. Barzin Moradi</b> CDFA FREP	<b>Begins:</b> 9/18/2015 <b>Ends:</b> 9/17/2018
<b>Mr. Steve Spangler, FIAB Member</b> IAP	<b>Begins:</b> 9/18/2013 <b>Ends:</b> 9/17/2016

**TASC Applicants**

Applicant	Company	Job Title	Industry Experience	Education/Degree	Relevant Experience	Boards/Interest Groups Membership	Reason(s) for Serving on Board	Certifications/ License	TASC Status
Charles Hornung* Member of TASC since 9/18/2013. Term expired on 9/17/2016	Leffingwell Ag Sales	General Manager	30	<ul style="list-style-type: none"> <li>University of California, Davis</li> <li>American Management Association Sales and management courses</li> </ul>	Research and education, Agriculture consultant, Crop producer, Fertilizer sale and manufacturing, and a Pest Control Adviser licensed with the state of California	<ul style="list-style-type: none"> <li>Board Member, Technical Advisory Subcommittee, CDFA</li> <li>Member, Board Member 2009, Oregonians for Food and Shelter</li> <li>Licensed California Pest Control Advisor</li> <li>Member, past Director, Tulare County Farm Bureau</li> <li>Member, past Director, Exeter Citrus Association</li> </ul>	<ul style="list-style-type: none"> <li>Currently, I am serving on the Technical Advisory Subcommittee (Sept 2013 to Sept 2016) and would like to serve an additional term.</li> <li>My previous TASC experience offered an intellectual aspect into issues and future research projects directly impacting the states primary resource, Agriculture.</li> <li>If my knowledge and experiences from either a grower's perspective and/or as a fertilizer supplier, can continue to enrich the diversity of the subcommittee, I would welcome the appointment as a TASC board member.</li> </ul>	<ul style="list-style-type: none"> <li>Pest Control Advisor License</li> </ul>	Member/ Applicant
William Baker	William Baker and Associates LLC	Principal	43	University of Redlands Redlands, CA Environmental Studies BA-	<ul style="list-style-type: none"> <li>I was a golf course superintendent for 27 years, using fertilizers in sensitive urban settings.</li> <li>I was raised on a farm and was active in FFA and 4-H Club.</li> <li>I am a PCA and CCA.</li> </ul>	<ul style="list-style-type: none"> <li>Former Director of Coachella Valley Resource Conservation District</li> <li>Served as an officer and director in several industry associations: Southern California Turfgrass Council, Friends of the University of California, Riverside Botanic Gardens, Golf Course Superintendents Association of America, California Golf Course Superintendents Association (See resume for more.)</li> <li>Developed horticultural certifications and taught classes at UCR Extension</li> <li>Member of CAPCA, ISA, American Society of Agronomy, Irrigation Association</li> </ul>	I have had a career-long interest in protecting our environment from fertilizer and chemical contamination. I have taught students for many years on how to avoid both offsite and onsite negative impacts following an application. Our company has trained over 500 Spanish-speaking landscapers on understanding fertilizer labels and making proper applications.	<ul style="list-style-type: none"> <li>Certified Crop Advisor</li> <li>ISA Certified Arborist</li> <li>Certified Golf Course Superintendent</li> <li>California Pest Control Advisers License</li> <li>Qualified Applicators License for Pesticides</li> <li>Certified Landscape Irrigation Auditor</li> <li>Certified Agricultural Irrigation Specialist</li> <li>Qualified Water Efficient Landscaper</li> </ul>	Applicant
Jennifer Clary	Clean Water Fund	Water Program Manager	13	University of California, Berkeley BA-Chemistry	<ul style="list-style-type: none"> <li>Fertilizer impact on water quality</li> <li>Policy analysis</li> <li>Expertise in state funding programs</li> </ul>	<ul style="list-style-type: none"> <li>Central Valley Regional Water Quality Control Board Irrigated Lands Regulatory Program</li> <li>CV-Salts</li> </ul>	As a water quality advocate, I have worked with members of the agricultural community for nearly a decade to identify solutions to the increasing nitrate contamination of groundwater in agricultural areas. Research into fertilizer use, as well as fate and transport of applied fertilizer, is needed to advance solutions. I'd like to work on this committee to promote needed research avenues.		Applicant

Applicant	Company	Job Title	Industry Experience	Education/Degree	Relevant Experience	Boards/Interest Groups Membership	Reason(s) for Serving on Board	Certifications/ License	TASC Status
Mark David	University of Illinois at Urbana-Champaign	Professor of Biogeochemistry	36	<ul style="list-style-type: none"> <li>State University of New York</li> <li>University of Maine</li> <li>Pennsylvania State University Ph. D.</li> <li>Environmental Science</li> <li>MS - Forest Biogeochemistry</li> <li>BS - Forest Science</li> </ul>	<ul style="list-style-type: none"> <li>Research and Education</li> <li>Extensively published</li> </ul>	<ul style="list-style-type: none"> <li>Research has been funded by the Illinois Nutrient Research and Education Council, an organization similar to FREP.</li> <li>Panel member for USDA AFRI Renewable Energy and various other boards and committees.</li> </ul>	I have extensive experience with agricultural nutrient balances, measurement of nutrient losses (N, P, and S, and conservation practices to reduce losses. I also have conducted research on nitrous oxide losses from agriculture. I am retiring this summer, and believe I could contribute to this subcommittee if you want input from someone out of state.		Applicant
Patrick Dosier	Fertilizer Manufacturer (Qualitech) and Ag Software	Founder/Agronomist Technical sales/Agronomist	11	California State Polytechnic University, Pomona BS - Agronomy with emphasis in Crop Science	Fertilizer sale and manufacturing	<ul style="list-style-type: none"> <li>CAPCA SF Bay Chapter President, 2012-2014</li> <li>CAPCA State Board of Directors, 2015-Present</li> <li>UC IPM Advisory Committee, 2015-Present</li> <li>AgTech Roundtable, 2014-Present</li> </ul>	<ul style="list-style-type: none"> <li>To provide feedback on critical areas in need of applied research.</li> <li>To contribute to the industry</li> <li>To continue the important work of FREP</li> <li>To better understand the academic perspective on fertilizer and the environment.</li> <li>To professionally develop as an agronomist.</li> </ul>	<ul style="list-style-type: none"> <li>Certified Professional Agronomist</li> <li>California Pest Control Adviser</li> </ul>	Applicant
Nigel Grech	Verdesian Life Sciences	Executive Vice President	19	<ul style="list-style-type: none"> <li>University of Natal, S. Africa</li> <li>London University</li> <li>Ph. D. Plant Pathology/Plant Physiology</li> <li>Ms.c. Plant Biochemistry</li> <li>Bs.c. Microbiology and biochemistry</li> </ul>	Research and education, Crop producer, Fertilizer sale and manufacturing. I head up the science in our company (Verdesian life Science) which has a focus on nutritional efficiencies with N, P and K. Our company manufactures fertilizer products and inoculants.	<ul style="list-style-type: none"> <li>American Agronomy Society member</li> <li>CAPCA</li> <li>National Fertilizer Institute member</li> <li>Citrus Research Board</li> <li>Future Farmers of America</li> <li>NAMA - National Agri-Marketing Association</li> </ul>	Guide and improve the educational and research opportunities in California Crop Fertility in order to maintain agricultural productivity whilst increasing farming and fertilizer sustainability. California agriculture is increasingly challenged by resource scarcities and a continued need to technically advance fertility practices to optimize nutrient utilization whilst minimizing pollution. This position requires skills within both crop and the fertilizer industry.		Applicant
Richard Mead	Loveland Products (Proprietary company owned by CPS)	Database agronomist	34	<ul style="list-style-type: none"> <li>Oregon State University</li> <li>California State University, Fresno</li> <li>Masters - Crop Science</li> <li>BS - Plant Science/Soils</li> </ul>	Research and education, Agriculture consultant, Crop producer, Fertilizer sale and manufacturing	<ul style="list-style-type: none"> <li>California Irrigation Institute - President (2001-2002)</li> </ul>	<ul style="list-style-type: none"> <li>More than 30 years of experience in both research and private sector sales</li> <li>Currently managing a crop nutritional database deployed in 3 continents</li> </ul>	<ul style="list-style-type: none"> <li>California Crop Adviser</li> </ul>	Applicant

Applicant	Company	Job Title	Industry Experience	Education/Degree	Relevant Experience	Boards/Interest Groups Membership	Reason(s) for Serving on Board	Certifications/ License	TASC Status
Hudson Minshew	USDA NRCS	State Conservation Agronomist	18	<ul style="list-style-type: none"> <li>Oregon State University</li> <li>Humboldt State University, CA</li> </ul> M.S - Soil Science, Minor in water resources BS - Molecular Biology	Research and education, Government. Soil Microbiology Technician/ARS; M.S. Thesis- Nitrate Leaching; Oregon State Extension Service, USDA NRCS, water quality and nutrient management specialist.	<ul style="list-style-type: none"> <li>Member of ASA/SSSA for 18 years.</li> <li>ARS 1992-1996</li> <li>Oregon State University-1996-2003</li> <li>USDA NRCS 2003-Present, Hawaii and California</li> </ul>	<ul style="list-style-type: none"> <li>I have a strong personal and professional interest in fertilizer use and management.</li> <li>I am the state conservation agronomist for NRCS CA, and I would like to represent my agency.</li> <li>I have a solid academic and practical background to serve on the committee.</li> <li>I am interested in providing service and learning from others about the challenges of fertilizer management in CA Agriculture, so I can provide useful guidance.</li> </ul>		Applicant
Steven Petrie	Yara North America	Director of Agronomic Services	35	<ul style="list-style-type: none"> <li>Oregon State University</li> <li>Michigan State University</li> </ul> Ph.D. - Soil Science, Minors in Crop Science and Physical Chemistry MS - Soil Science, Minor in Crop Science BS - Crop Science	Research and education, Fertilizer sale and manufacturing	<ul style="list-style-type: none"> <li>Four R's Technical Advisory Group</li> <li>American Society of Agronomy</li> <li>Soil Science Society of America</li> <li>Chairman of the Board of the PNW region from 1993 to 1998</li> <li>Various other committees</li> </ul>	<ul style="list-style-type: none"> <li>Proper nutrient management is essential to ensure top yields of high quality crops without adversely affecting the environment. I want to be a member of the TASC so that I can use my 35+ years of research and extension in nutrient management in the public and private sectors to assist in the development and dissemination of information about optimum nutrient management for California crops.</li> </ul>	<ul style="list-style-type: none"> <li>California Crop Adviser</li> </ul>	Applicant
Jenny Rempel	Community Water Center	Sustainable Agriculture Program Coordinator	7	Stanford University, Stanford, CA BS - Earth Systems, Minor in Human Biology	Research and education, Crop producer. I have worked and volunteered on small community farms as a community educator and crop producer. I also bring expertise in understanding nitrate in groundwater due to fertilizing materials use.	Irrigated Lands Regulatory Program, Stakeholder Group	As an advocate working to ensure all Californians have safe drinking water, I understand the vital importance of minimizing the environmental and community impacts of groundwater nutrient pollution from fertilizer use. Having worked on multiple small farms, I also understand the need for research into best management practices for the use of fertilizing materials. I would eagerly contribute my expertise in water quality and agriculture to help California invest in research, education, and outreach that will advance solutions in the farming community.		Applicant

\*Board Term Expiring