

**CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE  
2017 Alternative Manure Management Program  
Applications Submitted to CDFA**

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FAAST PIN	APPLICANT ORGANIZATION	PROJECT TITLE	DESCRIPTION	REQUESTED GRANT FUNDS	MATCHING FUNDS	COUNTY	TOTAL EMISSION REDUCTION OVER 5 YEARS (MTCO <sub>2e</sub> )
40189	Aquam Technologies LLC	BioElectrochemical Manure Management and GHG reduction	BioElectrochemical Sanitation Technology (BEST) is a revolutionary approach to eliminate manure solids and reduce GHG emissions by 50%-90%. The BEST system converts organic waste and manure into direct electricity without any methane production. BEST will be applied for the treatment of swine wastewater at a S&S Farms, Ramona, CA. The installed system will treat 3200 gpd, which is 42% of total farm daily volume. The operation of BEST will reduce GHG emissions by 42%, concurrent with volume treated, and will result in a 2,198 mtCO <sub>2e</sub> /yr reduction in methane emissions over 5 years. BEST systems eliminate up to 80% of manure and 80% of organic compounds in wastewater, while recovering up to 0.2 kWh/kg-COD as direct electricity (no methane). The implementation of BEST will not require farm infrastructure changes and will have no negative environmental impact or impact to existing operational permits since BEST system is a mobile system with a footprint of 320 ft <sup>2</sup> .	\$749,743	YES	San Diego	2,198
40190	Vierra Dairy Farms	Vierra Dairy Farms Bio-Lynk Separator	Bio-Link Solid Separator System. Including 4 separator screens, 2 primary and 2 secondary stage. Also included; 3 flush tank, sand lane, solids drying area and agitation pit. We are constructing this solid separator system to decrease the amount of solid material accumulating in our lagoon and settling ponds. As an additional benefit we will increase our accumulation of a higher quality bedding material.	\$750,000	YES	Merced	77,359
40203	Magneson Dairy	Pasture based system	Increase pasture time solids removal and composting	\$560,000	NO	Merced	7,690
40214	De Snayer Dairy	Solids separator in conjunction with open solar drying of solids and storage of manure solids.	We would like to apply for a solid separator from US Farm systems. Currently we have two settling ponds where we separate the solids from the manure water which flow into the in the lagoon. The solids separator would allow us to bypass the two settling ponds and use those as waste water storage. We would like to add a pad of cement for manure storage and for open solar drying.	\$536,448	YES	San Joaquin	36,494
40220	Sierra View Dairy	Sierra View Dairy AMMP Grant	Remodel Existing Dairy, with both Open Lot corrals and Covered milk cow Feed Lanes flushed facility to a bed-pack compost barn (pasture based management) and collect manure from feed lanes through scraping with mobile equipment with scraper (conversion of flush to scrape). All scraped material will be dried utilizing open solar drying.	\$750,000	YES	Tulare	35,051
40254	Wilgenburg West LLC	Wilgenburg West AMMP	Wilgenburg West, LLC proposes to improve the manure management functionality of their facility utilizing a vacuum tanker and applying slurry to compost rows in summer months and separating water from slurry using a weeping wall during winter months to formulate a comprehensive manure plan that accounts for all seasons and eliminates manure storage in any anaerobic environment. The dairy would be converted to a heifer lot in the process and thus allow the removal of 4 lagoons. WWLLC plans to greatly improve site layout and functionality through project completion by directing manure to 1 storing location where it can be separated into solid stacking. This project would be an excellent example of what a comprehensive feedlot manure management plan should strive for with very low GHG emissions per animal as an alternative to incorporating a digester system which is not feasible for smaller operations and will be limited by our valley air board due to diesel emissions.	\$587,846	YES	Kings	14,572

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40263	Souza Brothers Dairy	CDFA Dairy Manure Handling Project	Addition of 118,640 Square Foot Cement Pad for manure storage and intensive manure windrow composting. Purchase of Front-End Loader and Compost Turner for use with intensive compost windrow management.	\$660,000	NO	Merced	9,841
40279	Alfred Soares Dairy	Concrete Manure Separating Area Project	Install a new solids manure separating concrete area on existing dairy, to remove manure solids from flush lanes prior to entry in a settling basin. Currently no mechanical separation exists to help remove manure solids prior to the settling basin. This would reduce methane emissions significantly!	\$550,000	YES	Madera	13,205
40286	Alexandre EcoDairy Farms	Alexandre EcoDairy Farms Heifer Barn Project	Alexandre EcoDairy Farms proposes to reduce the amount of liquid waste generated and flushed into our Dairy lagoons by constructing a compost bedded pack barn. Dairy young stock are reared in a combination of hutches and concreted alley-ways that are flushed several times a day into a manure separation system, by where liquids and solids are separated. Solids are stored and composted while liquids are gravity fed into three lagoons that are aerated. Aerated liquids are applied to pastures over time, outside rainy periods, which can be infrequent do to high annual rainfall in Del Norte County.	\$749,746	YES	Del Norte	9,572
40322	Jesse & James Jongsma Dairy	Separator	Install new separator system on facility.	\$750,000	YES	Tulare	-16,409
40349	Regli Jerseys	Regli Jerseys Dairy CH4 Gas Busters Project	Regli Jerseys CH4 Gas Busters Project is an upgrade to the manure management system focused on reducing methane emissions, improving water quality and soil health. It consists of converting from a fully scraped manure system to incorporating a solid separation and composting system. The Project will also develop a compost bedded pack barn. The Project will install new infrastructure, including concrete foundations and curbing for manure separation, storage and compost production, roof structures, decommissioning one manure pond, and also construct a compost bedded pack. The Project will develop composting practices to better utilize manure and shavings used on the dairy. Compost will be applied to pastures as a soil amendment. This Project will reduce solid manure stored in the current pond system. This project will help Regli Jerseys remain sustainable, help contribute to reducing GHG emissions in California, and contribute to the economic strength of the dairy industry in California.	\$533,141	YES	Humboldt	460
40352	Thommen Dairy	Manure Separator	Thommen Dairy would like to incorporate a screen separator to their manure management system. Currently there is no separation process prior to solids entering their holding ponds. The intention is to install a manure processing pit that slowly pumps soiled manure over screens to separate solids prior to entering the anaerobic environment.	\$375,559	YES	Fresno	-53,959

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40353	Manuel Da silva	weeping wall	project is a weeping wall. This structure will be a manure separator. It will be a separate and store manure.	\$575,000	NO	San Joaquin	16,605
40354	John Boere Dairy	Conversion of open corrals with flush cow lanes to compost bedpack barns and bulk solid manure handling.	Had been an Organic base dairy but economics forced me to go conventional. Consequently I have decided to farm the pasture due to economics. To maintain cow health, I want to move from open corrals to compost bed pack barns. Being I will be dealing with a sizable amount of bedding and carbon amendments, I have decided to stop flushing the cow lanes as well and would like to incorporate the lane manure with bedding to firm the manure to a consistency for bulk solid handling. This would virtually eliminate the majority of manure entering my anerobic liquid manure storage system. I would still have runoff from the commodity areas and from the milking parlor.	\$610,000	NO	Stanislaus	3,073
40366	Deniz Dairy	Solid Separation and Reduction	Installation of a concrete holding area in an existing pond to contain manure and water in a small area for pumping to an existing separator. There will also be a pump and agitator installed in the containment tank and a pipeline installed to carry the manure water to the separator. The small holding area will allow the agitator to keep solids in suspension and the pump to carry them to the separator so that it can more efficiently remove solids from the slurry. After separation the solids will drop into a machine called a Bedding Master, which will remove water and then dump it into an insulated rotating drum that heats up the manure to composting temperature. After several hours, the solids will be moved to an open air storage area in confined piles. These solids can then be recycled as bedding materials and reduced solids going into the lagoon by over 200 tons per year. This project will allow us to significantly decrease the solids and thus methane production in the main lagoon	\$531,671	NO	Sonoma	11,765
40369	Rivercrest Cattle Co.	converting from freestalls to Bedded Pack Barn	Converting from freestalls to bedded pack barn. The barn will be composted daily and bedding will be added as needed.	\$201,240	YES	Stanislaus	5,259
40371	GM Silva Dairies	Proposal for a 2 Stage Separator Installation, Receiving Pit and Manure Drying Slab	Proposal to install two manure separator systems and receiving pits on two existing dairy facility owned and operated by GM Silva Dairies. Proposal outcome is to reduce GHG emissions and implement better manure management practices through the installation of two separator systems, receiving pits and manure drying area. Manure will be solar dried and turned to reduce anaerobic conditions.	\$716,646	NO	Merced	7,851
40373	L&J Vanderham Dairy	L&J Vanderham Manure project	We are wanting to switch our old manure separator system and replace with a larger more efficient slope screen separator that will do a lot better job of filtering the manure, the manure will also come out drier so it dry's quicker and don't create as much runoff in the field, also it will support the amount of animals we have on the facility and will be able to handle the capacity we are doing now. And also do a better job with separating manure. We also would like to add cement to our facility so we can dry the manure even quicker than before. We also want to start composting our manure. We currently put the wet manure separated manure in an area and harrow until it dries. In order to be set up and do all this correctly we will need a CT-12 compost turner, a 130 hp tractor to pull, dump trailer to transport, and a loader to pile up the manure.	Not Provided	NO	Fresno	No Data Provided

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40383	Barcellos Farms	T Bar Dairy AMMP	The proposed project for the 2017 Alternative Manure Management Program at T-Bar Dairy is a combination of a Solid Separation project through Open Solar Drying and a Conversion from Flush to Scrape project. Currently, all milk cows onsite are housed in open lot corrals that utilize recycled flush water to clean the lanes. The flush system uses water to move manure into the retention pond, which causes the release of methane into the atmosphere. T-Bar Dairy is proposing to move those milk cows onto scraped lanes to eliminate the need for the flush water and reduce methane production. Additionally, the project proposes to collect all animal waste output in a collection pit and pump it over a proposed two-stage mechanical separator. Solids collected out of the separator will then be spread over a manure drying and stacking pad to be dried. Dry manure will then be used both as bedding in the proposed freestall barns as well as implied to agricultural fields as fertilizer.	\$750,000	YES	Tulare	7,915
40411	Curtimade Dairy Inc.	Upgrade Existing Mechanical Separator Screen Panels w/Vibrator Kit	Curtimade Dairy Inc. is looking to upgrade the existing mechanical separator screen panels with vibrator kit to increase separation efficiency of manure solids. The increased solid capturing will reduce potential methane production and GHG's.	\$37,000	YES	Tulare	14,795
40427	Ed Souza & Son Dairy	AMMP for New Separator	Ed Souza & Sons Dairy is looking to replace the current roller drum separator with a more efficient DTX 48" roller drum separator. The facility needs to reclaim more solids off of the screen to help with the reduction of solids that are going into the lagoon while using a more energy efficient separator.	\$85,000	NO	Tulare	5,989
40438	DaSilva Dairy Farms Lp	Dairy #1- MANURE SEPARATOR	Manure separator and concrete Pad.	\$375,000	NO	San Joaquin	37,517
40440	Astiasuain Dairy	Astiasuain Dairy US Farm System Methane Reduction Project	The proposed project is the installation of a two stage manure management system including a 8'x12' slope screen separator and 12"x8' horizontal screw press. The separated solids will be deposited on a new 61'x250'x6" concrete slab. This system replaces the current 20 year old single stage solid separation system. There will be a 63% reduction in GHG emission and increase solid separation by approximately 25%.	\$380,331	YES	Fresno	7,170
40472	Correia Family Dairy Farms	Correia Family Dairy Farms Weeping Wall Project	Weeping wall	\$352,812	NO	Merced	20,996

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40490	Lafranchi Ranch	Lafranchi Dairy Dry Scrape Conversion	The project will convert an existing flush system on a third generation Marin County dairy to dry scrape. It has received a stewardship award from MALT, which holds an agricultural easement on the dairy. The dairy hosts an on-farm compost facility that meets the needs of the local community for organics recycling and is affiliated with the Marin Carbon Project and the Marin Resource Conservation District. The compost operation composts solids collected from the weeping wall separator with other organic feedstocks. A proposed screw press will increase separation efficiency. A proposed pond liner will further protect water quality. The dairy and compost facility offer regular tours and workshops. UC Berkeley is conducting research at the site to measure GHG fluxes from the composting process under various conditions and feedstocks. The projected GHG savings from this project is 2608 MT CO <sub>2e</sub> per year.	\$744,000	YES	Marin	5,774
40511	DaSilva Dairy Farms LP	Dairy #2 Manure Separator	Manure Separator and concrete pad	\$375,000	NO	San Joaquin	13,031
40514	Pereira Dairy	Compost Bedded Pack Barn	The project is to construct a compost bedded pack barn to reduce greenhouse emissions.	\$750,000	NO	Merced	4,957
40558	Andrews Ag Solutions	AgVenture 1, Mitigation of Methane at CAFO Operations	The family owned Glaum Egg Ranch has been in operation since 1946 and is now in its third generation at the Marsh Lane site. While composting has focused on sustainability of it's by-product waste since 1988, the site has pushed for further sustainability by adding the capability of ammonia capture similar to those mandated in the EU. In 2015, GER constructed a new composting barn to further this cause. Current methodology for composting in vessel simply volatilizes the GHG, which escapes into the atmosphere once the sealed vessel is opened. Once captured, the issue then becomes how to address the use or disposal of this captured gas. In 2016, GER partnered with Andrews Ag Solutions to further develop the capability by addressing the escape through implementation of a conversion technology, which remediates GHG and creates sustainable fertilizer products through a patented process.	\$750,000	NO	Monterey	205
40561	Silva Dairy Farms	Silva Manure Separator	Installation of a two stage solid separator to reduce GHG emissions along with a drying pad, storage pad, compost bedded pack barn and a tractor with rototiller.	\$520,000	NO	Merced	21,008
40617	Migliazzo and Sons Dairy	Manure Processing Pit With Separator	Construction of a sand pit and manure processing pit with a slope-screen solids separator and screw press with a solids stacker.	\$300,720	NO	Merced	11,659

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40674	Hidden Valley Cattle Co.	Hidden Valley Cattle Co.	We are wanting to switch to a scrape system and store system to vacuum and compost system. We currently scrape manure and leave in the corral to sell once a year. The problem with this system is in the winter time we have so much wet manure that it sits there and does not dry for close to a year. The feed lanes where the animals stand that manure will stay wet all winter long. What we are wanting to do is to be able to vacuum the manure and transport to a cement slab to be able to compost and use as fertilizer. What would be needed is to add cement curbs in the corral so that we will be able to vacuum and capture all the wet manure. We would then need a tractor and trailer to transport manure. We would need to purchase a com poster to be able to compost manure. We would need a loader to move around the loader. This would help reduce the GHG's of the ranch significantly. We are looking forward to the project and appreciate the help.	\$740,000	NO	Kings	77,702
40696	Matos Dairy	Matos Dairy Liquid-Solid Separation System	Matos Dairy is applying for the Alternative Manure Management Program administered by the California Department of Food and Agriculture with the goal of reducing methane emissions from manure management on it dairy. The dairy is proposing to acquire a US Farm Systems dual screen separation system with a processing pit and conveyor belt, removing a significant amount of the methane forming volatile solids from the ponds. The goal is to have 55% of the solids removed from the flush water after the processing screens and conveyor. There would be multiple changes that would need to be done to the dairy facility to install this system. Including, installation of a processing pit, cemented pad for solids, installation of the separation screens, underground plumbing and other modifications would be needed. This would also remove a significant amount of the manure nutrients from the lagoon and they could be handled in the solid form allowing more of the nutrients to be exported from the dairy	\$564,000	YES	Merced	42,638
40759	Martins Farm LP	Martins Farm LP	Martins Farm LP is proposing to acquire a self propelled manure vacuum to collect manure from concrete lanes with animal housing. No building improvements, expansion of facility footprint or herd increase is requested. Currently manure is flushed from all of the cow housing into a settling basin and storage lagoon. While flushing is an effective method of removing manure from cow housing, the resulting flush water contains much of the manure excreted by the animals. When this manure is stored in an anaerobic environment, such as a settling basin or lagoon, methane is produced and released into the environment. The dairy is proposing to acquire a self-propelled manure vacuum to collect manure from the flush lanes from the milking and dry cows 2 days per week removing a proportionate amount of the methane forming volatile solids from the ponds. The project would not require any building permits from the county.	\$256,353	NO	Stanislaus	22,803
40761	Jaques and Son Dairy	Jaques and Son Dairy	To receive a new separator, a new tractor and cement slabs for raking manure to dry quicker. If we are granted all of these items, we will be able to dry manure much quicker and also contain and maintain more manure. Also, our GHG Emissions will significantly be effected if we receive these items.	\$686,053	NO	Kings	19,395
40767	Generations Dairy	Generations Dairy manure separation and composting project	The purpose of this project would be to replace the undersized, worn out and out dated manure separating system at Generations Dairy in Kerman CA, and to start a composting operation on site in conjunction with the manure separation system. The project would contain 3 sub projects: 1.Install a new U.S. Farm Systems twin screen manure separating system with HD screw press and belt conveyor to separate manure solids from waste water produced at the dairy.The dairy currently has a worn out, single screen separator with no screw press or conveyor. 2.Pour a 24,250 Sq.Ft. concrete pad to store manure solids to be used in composting operation. 3.Purchase a tractor and compost turner to be used for windrow composting on all separated solids from Generations dairy.	\$426,379	NO	Fresno	4,287
40774	Robert Gioletti and Sons Dairy	Partial conversion to scrape manure handling	This project proposes to collect manure from dairy cows with a vacuum scraper 120 days per year and windrow dry that manure on a concrete pad.	\$749,999	YES	Stanislaus	20,630

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40775	Dykstra Dairy	Dykstra Dairy GHG Reduction Project	We will reduce our greenhouse gas emissions by 68% by introducing a vacuum scraping system into our previously flushed lanes to collect lactating cow manure. This scraped product will be run through screw presses to reduce the moisture content. This manure will then be solar dried for future use as bedding or field nutrient/amendments. This process will prevent the manure from entering the anaerobic conditions present in the manure lagoons.	\$658,511	YES	Tulare	71,778
40781	Double D Dairy	Installation of a Mechanical Manure Separator and Concrete Storage Pad	Double D Dairy #2 would like to install a mechanical manure separator and build a concrete wall and storage pad which would allow the dairy to collect solids year around. The solids would be dried in passive windrows and when dried down then used for bedding for lactating cows. Currently, Double D Dairy#2 only source of manure separation is a settling basin. The solids collected there are exported by diesel trucks for field use only and not used for bedding.	\$397,649	YES	Stanislaus	11,080
40793	Backroad Ranch	Backroad Ranch GHG Reduction Project	We will reduce our greenhouse gas emissions by 32% by introducing a weeping wall separating system into our flushed lanes to collect lactating cow manure. This separated manure will then be solar dried for future use as bedding or field nutrient/amendments. This process will prevent the manure from entering the anaerobic conditions present in the manure lagoons.	\$745,253	YES	Tulare	16,012
40802	Milk River	Milk River GHG Reduction Project	We will reduce our greenhouse gas emissions by 72% by introducing a vacuum scraping system into our previously flushed lanes to collect lactating cow manure. This scraped product will be run through screw presses to reduce the moisture content. This manure will then be solar dried for future use as bedding or field nutrient/amendments. This process will prevent the manure from entering the anaerobic conditions present in the manure lagoons.	\$395,357	NO	Tulare	16,012
40804	Milk Maid Dairy	Milk Maid Dairy GHG Reduction Project	We will reduce our greenhouse gas emissions by 43% by introducing a weeping wall separating system into our flushed lanes to collect lactating cow manure. This separated manure will then be solar dried for future use as bedding or field nutrient/amendments. This process will prevent the manure from entering the anaerobic conditions present in the manure lagoons.	\$748,350	YES	Tulare	21,121
40807	FDB Holsteins	weeping wall and manure stacking pad	Install weeping wall to be alternated every quarter with concrete manure stacking pad.	\$650,000	NO	San Joaquin	17,689

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40817	Meirinho Holsteins, LP	Secondary manure separation system	Processing pit with pumps to agitate and circulate lagoon water for flushing purposes as well as processing flush water for secondary separation system to remove manure solids to compost in intensive windrows on a concrete slab. Also the construction of a compost bedded pack barn. With this process in place, we would be removing solids from our lagoon water, which would reduce green house gasses at our facility	\$750,000	YES	Merced	55,353
40820	DaSilva Dairy Management Inc.	Compost Bed Pack Barn - Borba Ranch	constructing a 1000' x 120' new compost bed pack barn.	\$750,000	YES	San Joaquin	9,167
40821	Bianchini Inc.	Bivalve Dairy Alternative Manure Management Project	The proposed project is to build infrastructure to convert the existing freshwater flush system currently in use to clean the loafing barn and replace it with an automated pulley scrape, mechanical roller press separator, concrete solid stacking and compost pads system.	\$530,013	YES	Marin	No Data Provided
40822	Joe DaSilva and Ana DaSilva Trust	Cement Pad - Heifer Ranch	To install a cement pad for composting and equipment for maintenance on compost pack barn.	\$150,575	NO	San Joaquin	3,407
40823	Alamo Farms	Alamo Farms partial conversion to vacuum manure handling	Alamo Farms proposes to purchase a manure vacuum and handle part of its manure in a dry form while continuing to flush with the remainder of the manure.	\$748,920	YES	Stanislaus	22,005
40824	Alamo Dairy	Partial Conversion to vacuum manure handling	The Alamo Dairy proposes to vacuum the lanes in the cow housing with a vacuum truck and handle the resulting manure in a dry form for 104 days per year and continue flush manure handling the remaining days of the year	\$735,643	YES	Stanislaus	15,582



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40825	Four Star Dairy L.P	Manure Managment Project	The primary goal is to reduce methane emissions through better manure practices. Four Star Dairy wants to convert a operating dirt lagoon and replace it with a cement 40*40. With this would need a new separating screen along with extra cement slabs to be most efficient on the reduction of gases being released.	\$620,940	NO	Tulare	17,257
40826	O & S Holsteins	Dairy Bio Fiber Soil Amendment Processing Center	O & S Holsteins will install a Dairy Bio Fiber (DBF) system on its dairy close the the lagoon. This system will have the ability to treat all manure created by lactating cows. This system has demonstrated results at other dairies to reduce total methane production to .164#/hd/day.	\$747,853	YES	Riverside	22,838
40831	Organic Pastures Dairy Co., LLC	Pastures Management Pack Barn Conversion	We expect to eliminate emissions from corral scrapping and slurry management from 912 hours a year or 1,551 gallons of diesel. We will now have rotor tiller needs once every 4 days and complete removal of the pack 3 times a year. That new emissions from the tractors will be only 115 hours a year or 198 gallons of diesel. This Project will reduce diesel consumption for manure management by 87.2%. This is a high reduction of diesel and CO2 emitting engine use, but it is small compared with the higher savings from a reduction of 55% less manure entering the anaerobic state. This will be driven by the fact that most manure will be dropped on the pack barn versus being flushed by the water system and sent to the fields. While we do not have a storage system, we do flush that manure out to the fields and it is stored in the pipelines and irrigation systems while being delivered to the fields, resulting in GHG emissions.	\$746,997	YES	Fresno	7,856
40833	Cal-Denier Dairy LLC	Compost Barn Construction and Flush to Scrape Conversion	This project will convert current Dry Cow and Heifer pens to covered compost bedded packs. The flush lanes will become dry scraped with the collected manure deposited into intensively composted windrows. There will be two compost barns constructed of approximately 76,000 sq. ft. and 15,750 sq. ft. By this conversion, manure which is currently being deposited into an anaerobic lagoon without any separation will be composted either by moving to intensive windrows or within the bedded packs themselves.	\$711,627	NO	Sacramento	2,113
40834	John DeGroot and Son Dairy	Manure separator system/manure storage area	John DeGroot and Son dairy is a partnership between Peter DeGroot and 2 of his sons, Charles and Jonathon DeGroot, With Charles and Jonathon holding the majority ownership of the company. Milk cows are housed in free stalls and dry cows are housed in dry lots. There are also 2650 heifers housed in dry lots at John DeGroot and son. The dairy currently flushes all feed lanes. The existing Separator is in disrepair and needs complete replacement. The dairy currently composts their manure, but has a lack of adequate manure storage area, so a concrete slab is needed to enhance the composting operation.	\$416,792	NO	Fresno	7,281