REDUCED MONITORING AND MANAGEMENT PRACTICES VERIFICATION PLAN

For the
Placer-Nevada-South Sutter-North Sacramento
Sub-Watershed Coalition
Of the
Sacramento Valley Water Quality Coalition

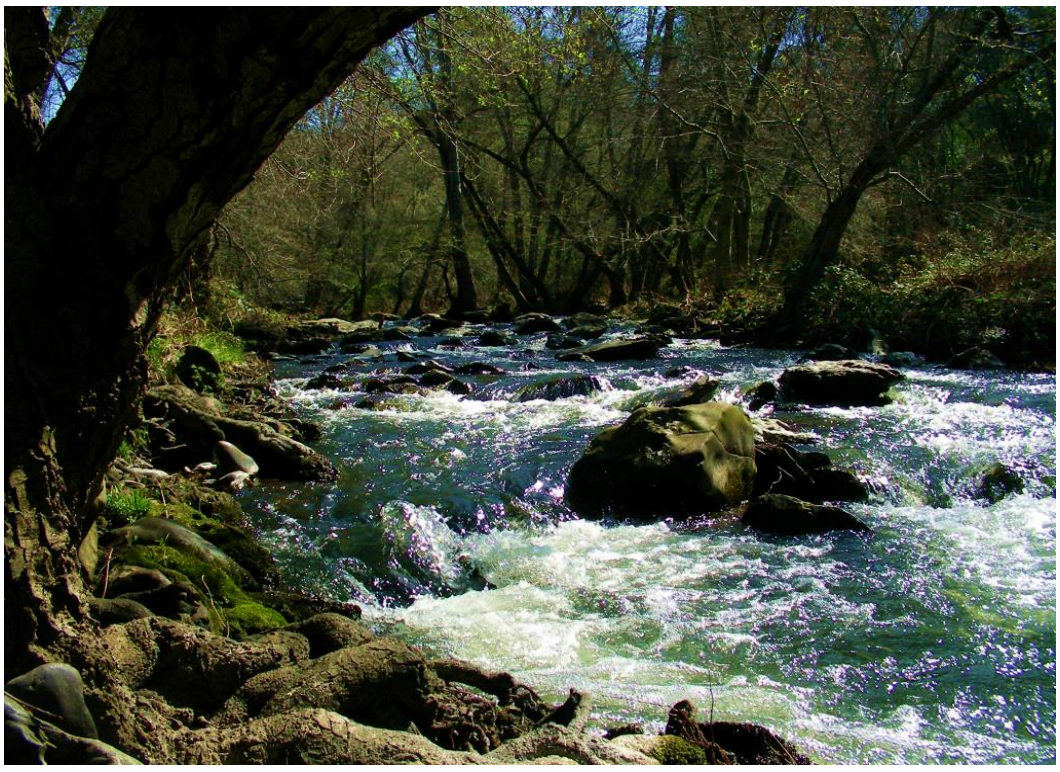

Photo courtesy of Placer Land Trust- Coon Creek, Placer County

Plan prepared by the PNSSNS Sub-Watershed Coalition

May 2015

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ACRONYMS and ABBREVIATIONS

AMR	Annual Monitoring Report
BMP	Best management practice(s)
BPTC	Best Practical Treatment or Control
CAC	County Agricultural Commissioner
CCA	Certified Crop Adviser
CCR	California Code of Regulations
CDFA	California Department of Food and Agriculture
CVRWQCB	Central Valley Regional Water Quality Control Board (CA Region 5)
COC	Constituent of concern
CV RDC	Central Valley Regional Data Center
CWC	California Water Code
DO	Dissolved oxygen
DPH	California Department of Public Health
DPR	California Department of Pesticide Regulation
DWR	California Department of Water Resources
EC	Electrical conductivity
ECR	Existing Conditions Report
EQIP	Environmental Quality Incentives Program
FEPs	Farm Evaluation Plans
GAMA	Groundwater Ambient Monitoring and Assessment
GAR	Groundwater Quality Assessment Report
GeoTracker	ESI GeoTracker Electronic Submittal of Information Online System
GIS	Geographic Information System
GPS	Global Positioning System
GWPA	Groundwater Protection Area
HVA	High Vulnerability Area
ILRP	Irrigated Lands Regulatory Program
MCL	Maximum contaminant level
MDL	Method detection limit
MMRP	Mitigation monitoring and reporting program
MPEP	Management Practice Evaluation Program
MPER	Management Practices Evaluation Report
MRP	Monitoring and reporting program
MRPP	Monitoring and reporting program plan
NOI	Notice of Intent
NPS	Nonpoint source
NRCS	US Dept. of Agriculture Natural Resources Conservation Service
PLAN	PNSSNS Reduced Monitoring and Management Verification Option Plan
PNSSNS	Placer/ Nevada/ South Sutter/ North Sacramento Sub-watershed Coalition, part of Sacramento Valley Water Quality Coalition
PUR	CA Dept. of Pesticide Regulations (DPR) pesticide use report
QAPP	Quality assurance project plan
QA/QC	Quality assurance and quality control
RCD	Resource Conservation District
RL	Reporting limit
RMP	Reduced Monitoring Plan
SAMR	Semi-Annual Monitoring Report
SQMP	Surface water quality management plan

SWAMP	Surface Water Ambient Monitoring Program
TDS	Total dissolved solids
TIE	Toxicity identification evaluation
TMDL	Total maximum daily load
TOC	Total organic carbon
TSS	Total suspended solids
TST	Test of significant toxicity (USEPA method)
UCCE	University of California Cooperative Extension Service
WDO	Waste Discharge Order
WDRs	Waste discharge requirements

EXECUTIVE SUMMARY

The Placer/ Nevada/ South Sutter/ North Sacramento Sub-watershed Coalition (PNSSNS) formed in 2003 in response to the Central Valley Regional Water Quality Control Board's (CVRWQCB) elimination of the Agricultural Waiver for potential waste discharges from irrigated agricultural lands. PNSSNS is a 501c(3) non-profit organization with leadership from a seven member Board of Directors. PNSSNS is one of thirteen sub-watershed coalitions as part of the Sacramento Valley Water Quality Coalition which developed and continues with a water quality monitoring and reporting program.

PNSSNS formally represents "third party members" in its area as part of the CVRWQCB's Irrigated Lands Regulatory Program (ILRP). PNSSNS's members have irrigated, commercial agricultural lands within the PNSSNS area. See Figure 1- Map of PNSSNS Boundary

In 2010, PNSSNS submitted a Low Threat Monitoring Plan proposal to the CVRWQCB's ILRP Division. The PNSSNS proposal was based on no significant water quality exceedances, widespread use of best management practices, the low threat of any water quality impairment based on the minimal amount of pesticide usage and other factors. Approval of PNSSNS's proposal was delayed until the new Waste Discharge Order was developed and approved in March 2014. As a result, PNSSNS is submitting its second proposal for a low impact monitoring plan. The PNSSNS Reduced Monitoring and Management Practices Verification Option Plan is in response to the 2014 Waste Discharge Order No. R5-2014-030 and is an important opportunity for PNSSNS and its members.

Under the new Waste Discharge Order No. R5-2014-030, there are conditions that must be met in order to be considered for a reduced monitoring program. These conditions include the following:

- There is a low threat of pesticide discharges from irrigated lands causing or contributing to a surface water exceedance or trend of degradation
- The parameters associated with any existing management plans in the Subwatershed do not include toxicity, pesticides, copper or nutrients
- There is a low intensity of agricultural land use in the sub-watershed

PNSSNS sub-watershed meets all the conditions in order to be considered for the Reduced Monitoring and Management Practices Verification Plan.

This plan describes PNSSNS's eleven years of water quality results under the ILRP and the approach to implementing the Reduced Monitoring Plan /Management Practices Verification Option (Plan) to Surface Water Monitoring as described in Part III.C.1.a of Attachment B of Order No. R5-2014-0030. This Plan encompasses the entire geographic area of the Subwatershed except for the portions of rice covered by the California Rice Commission.

The Plan includes the elements outlined in the WDO as follows:

1. A Sub-watershed description including topography, soils, hydrology, agricultural operations, agricultural commodities, and agricultural resources;
2. A description of the education and outreach strategies that continue to promote the implementation and maintenance of appropriate management practies;
3. A summary of previous monitoring results that demonstrate a low threat/ low vulnerability to surface water quality resulting from irrigated agricultural operations;
4. A Groundwater Assessment Report (GAR) which demonstrates PNSSNS's low vulnerability for potential groundwater contamination and demonstrates generally excellent water quality;
5. A description of the low threat of pesticide discharges to surface or groundwater by addressing the historical types and amounts applied by commodity including potential toxicity to aquatic life and human health;
6. A summary of management practices that are employed to minimize the impact of potential waste discharged by irrigated agricultural operations into the waters of the state;
7. The Reduced Monitoring Plan that will be used to document,monitor and report the compliance of the Farm Evaluation Plans (FEPs) and water quality monitoring every five years.

PNSSNS is requesting the CVRWQCB accept this proposal for the Reduced Monitoring and Management Verification Option for surface water and to recognize that PNSSNS lies within a mostly fractured rock groundwater system with a low vulnerability designation for both surface and ground water.

SECTION 1 INTRODUCTION

The Porter-Cologne Water Quality Control Act (found in California Water Code, Division 7) is very broad in scope. The California Water Code regulates any person discharging waste or proposing to discharge waste within any region that could affect quality of the water of the State. The term “waste” is broadly defined and the term “waters of the state” includes all surface water and groundwater with the State. The California Water Code applies to point (i.e., sewer line break) and non-point sources (i.e., stormwater discharged from land).

Persons who discharge waste (dischargers) can be regulated by the Water Board in several ways, including for example, through prohibitions of discharge, waste discharge requirements (a permit) or a waiver of waste discharge requirement (individual or general). If a person discharges waste from irrigated lands to surface waters of the State they need to either file a Report of Waste Discharge (i.e., permit application), cease discharging, or obtain coverage under either an Individual or Coalition Group Conditional Waiver of Waste Discharge. The Central Valley Regional Water Board has adopted regulatory requirements for discharges from irrigated lands (tailwater, water from underground drains, storm water runoff) to waters of the State under a Conditional Waiver of Waste Discharge Requirements as one method of compliance. The Irrigated Lands Regulatory Program (ILRP) applies to such potential discharges located within the jurisdiction of the Central Valley Water Board, which extends from the Oregon border south to the northernmost tip of Los Angeles County (Region 5).

The requirements of dischargers regardless of the method of compliance are the same. Dischargers must implement management practices protective of water quality and they must either conduct monitoring or join a Coalition group that is conducting monitoring.

Monitoring and Reporting Program (MRP) requirements are detailed in several Central Valley Water Board actions beginning with Order R5 2006-053. Coalition Groups must prepare and implement MRP Plan meeting the requirements and submit it to the Regional Board for approval. Specifically the requirements are: As conditioned by the Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands (Waiver) Resolution No. R5-2003-0105, Coalition Groups shall develop a monitoring program to assess the sources and impacts of waste in discharges from irrigated lands, and where necessary, to track progress in reducing the amount of waste discharged that affects the quality of the waters of the state and its beneficial uses. The purpose of this Monitoring and Reporting Program (MRP) is to describe the minimum requirements for an acceptable Coalition Group Monitoring and Reporting Program Plan (MRP Plan). The purpose of the MRP Plan shall be to monitor the discharge of wastes in irrigation return flows and storm water from irrigated lands that are enrolled under the Waiver. The Coalition Group prepares and submits to the Regional Board for review and approval by the Executive Officer an MRP Plan that meets the minimum requirements of the MRP and includes sites to be monitored, frequency of monitoring, parameters to be monitored, and documentation of monitoring

protocols. The Executive Officer will review the MRP Plan to determine if it meets or exceeds the minimum requirements of this Order.

In December 2009, the Water Board Executive Officer Pamela Creedon approved a five year Coalition specific MRP that focuses surface water quality monitoring and analysis on the pesticides, herbicides, nutrients and other agricultural products specifically used in a Coalition sub-watershed.

In 2011 the Central Valley Regional Water Quality Control Board expanded the Irrigated Lands Regulatory Program to include groundwater quality monitoring and management. The Central Valley Water Board also approved a Short Term (2 year) Renewal of the Coalition Conditional Waiver.

In March 2014, the Central Valley Regional Water Quality Control Board approved *General Order R5-2014-0030 Waste Discharge Requirements* and *Monitoring and Reporting Program* for irrigated agriculture in the Sacramento River Watershed that are members of a Third-Party Group. The Order applied to the Sacramento Valley Water Quality Coalition and its thirteen sub-watershed coalitions (third party members) which includes Placer- Nevada-South Sutter-North Sacramento Sub-watershed Coaltion.

The PNSSNS's Reduced Monitoring and Management Verification Option Plan (June 2015) is a proposal, as outlined in the WDO for requesting approval by the Central Valley Regional Water Quality Control Board's Executive Officer to establish PNSSNS as a low vulnerability sub-watershed coalition for the Reduced Monitoring and Management Practices Verification Option.

SECTION 2 PNSSNS BACKGROUND

The Placer-Nevada-South Sutter- North Sacramento Sub-watershed Coalition (PNSSNS) formed in 2003 in response to the Central Valley Regional Water Quality Control Board's (CVRWQCB) elimination of the Agricultural Waiver for potential waste discharges from irrigated agricultural lands.

PNSSNS is a 501c(3) non-profit organization. PNSSNS has a seven member Board of Directors and technical advisory members which meet monthly, coordinate water quality monitoring and analysis, coordinate education and outreach events for Best Management Practices (BMPs), and host an annual meeting for its members. PNSSNS has technical advisory members from the University of California Cooperative Extension (UCCE), U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), Resource Conservation Districts (RCDs), local Farm Bureaus, County Agricultural Commissioners and independent technical consultants.

The Placer-Nevada-South Sutter-North Sacramento Sub-watershed Group encompasses all of Nevada and Placer counties and limited portions of southern Sutter (1/5th) and northern Sacramento (1/4th) counties. PNSSNS's area consists of portions of the south-eastern Sacramento Valley and foothills and mountains of the Central Sierra Nevada which vary widely in topography, geology, elevation, climate, soils, agricultural practices and commodities.

The Placer-Nevada-South Sutter-North Sacramento Sub-watershed Group's watershed area encompasses approximately 1.17 million acres. About 38% (447,000 acres) of the watershed (Gold Run, Blue Canyon, Hell Hole, Snow Mountain, Rubicon River, and Duncan Canyon drainages) has no irrigated acreage. In general, the sub-watershed area is bounded on the east by the Sierra Nevada Range, on the west by the Yolo Causeway and the Sacramento River, on the north by the Yuba and Bear rivers, and on the south by the Rubicon River and the American River. Topography varies from a relatively flat valley floor, to rolling foothills and volcanic buttes, to steep forested mountains and deep river canyons. Elevation ranges from approximately 30 to 7,000 feet above sea level, although irrigated cropland does not generally occur above 3,000 feet. Important drainages are the American, Sacramento and Bear Rivers, Coon Creek and Pleasant Grove Creek. See Figure 1- Map of PNSSNS Boundary

Figure 1 Map of PNSSNS Boundary as part of SVWQC

PNSSNS area's primary land uses are urban and rural residential development, municipal infrastructure and a small portion is irrigated agriculture. Other land use types include non-irrigated grazing rangeland, coniferous forests, oak woodlands, grasslands, and wetlands. Urban development includes large housing tracts, commercial businesses, industrial and institutional development. The main population areas include northern Sacramento, Roseville, Lincoln, Auburn, and Grass Valley. Placer County has been one of California's fastest growing counties in California since 2004, leading all California counties for eight years. The city of Lincoln in Placer County grew 282% in population between 2000 and 2010, making it the fastest growing city with a population over 10,000 in the United States[1]. Irrigated agricultural is interspersed within or near urban development in many areas within the PNSSNS watershed.

In general, PNSSNS's area includes the following land uses:

Rural and urban residential and development	53%
Non-irrigated acres (forests and rangelands)	38%
Irrigated rice that falls under the California Rice Commission	6.2%
Irrigated agricultural acres (PNSSNS)	**2.6%**

[1] Population Distribution and Changes, 2000-2010 US Census Bureau, March 2011

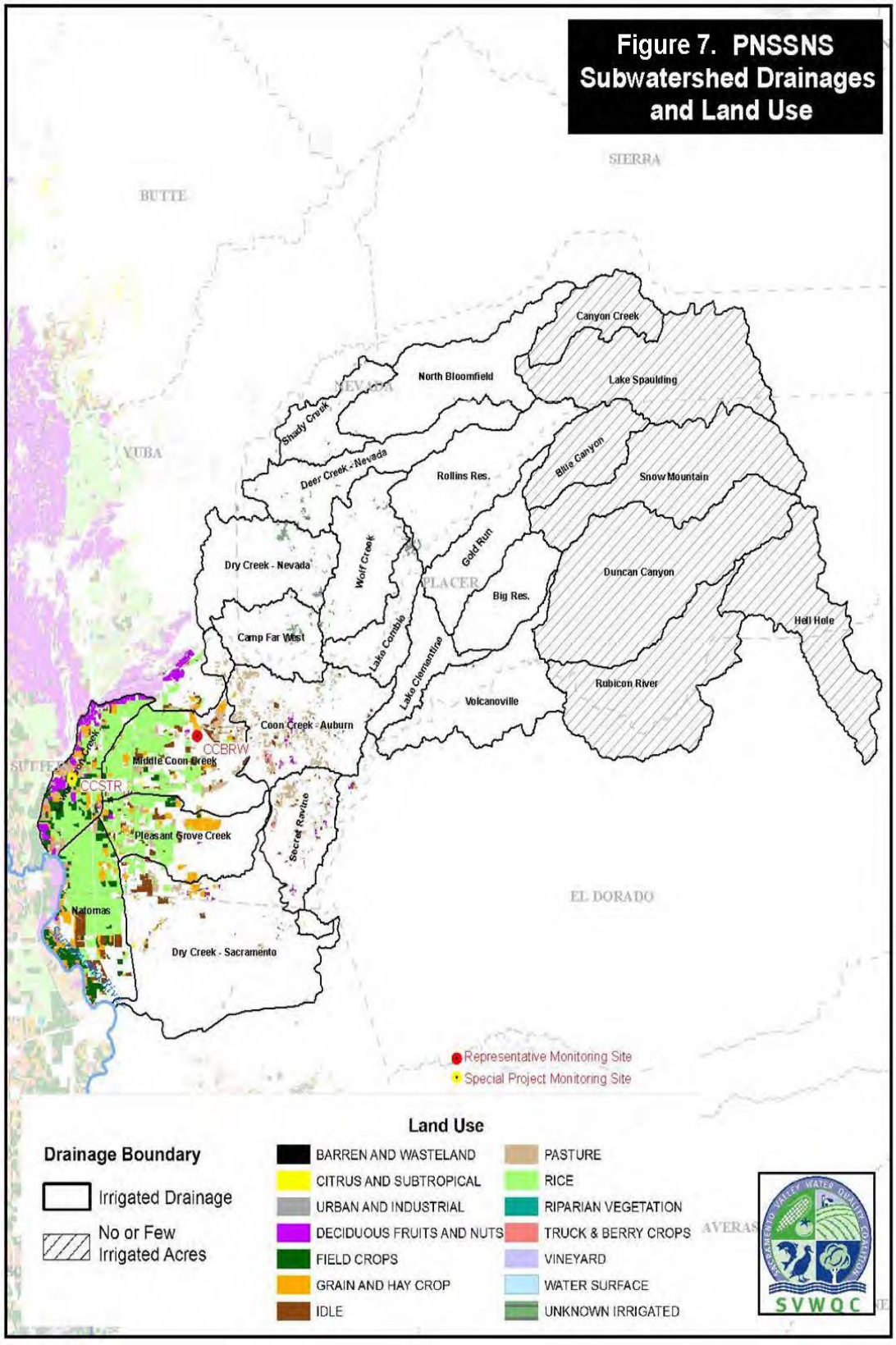


Figure 7. PNSSNS Subwatershed Drainages and Land Use
SIERRA
BUTTE
YUBA
PLACER
EL DORADO
Canyon Creek
North Bloomfield
Lake Spaulding
Shady Creek
Deer Creek - Nevada
Rollins Res.
Bliss Canyon
Snow Mountain
Dry Creek - Nevada
Wolf Creek
Gold Run
Duncan Canyon
Big Res.
Hell Hole
Camp Far West
Lake Combie
Lake Clementine
Rubicon River
Volcanoville
Coon Creek - Auburn
CCBRW
Middle Coon Creek
CCSTR
Secret Ravine
Pleasant Grove Creek
Natomas
Dry Creek - Sacramento
Representative Monitoring Site
Special Project Monitoring Site
Land Use
Drainage Boundary
Irrigated Drainage
No or Few Irrigated Acres
BARREN AND WASTELAND
CITRUS AND SUBTROPICAL
URBAN AND INDUSTRIAL
DECIDUOUS FRUITS AND NUTS
FIELD CROPS
GRAIN AND HAY CROP
IDLE
PASTURE
RICE
RIPARIAN VEGETATION
TRUCK & BERRY CROPS
VINEYARD
WATER SURFACE
UNKNOWN IRRIGATED
SVWQC

For the years 2004-2014, PNSSNS spent approximately $750,000 and averaged 617 members enrolled in the Irrigated Lands Regulatory Program (ILRP). PNSSNS membership includes the economically disadvantaged communities of Grass Valley, Nevada City, North Auburn, Penn Valley, Newcastle and East Nicolaus. Currently, 77% of PNSSNS members are from Nevada and Placer counties.

In 2003, when PNSSNS was formed, there was not enough information from the Regional Water Board to inform landowners what the criteria was for joining a coalition. As a result, some people joined that eventually did not need to join as they were not commercial growers, had no irrigated acreage and/ or misunderstood the program all together. There may still be a small number of individuals that pay a membership and do not irrigate or are not commercial agriculture. For example, some have fish operations, rangeland (non-irrigated) or small family gardens.

With the past four years of a very serious drought, some of the members have not renewed their membership due to no longer irrigating as they have received zero water allocations or no water is available. Other members have fallowed their management units or fields due to the lack of water. It is undetermined whether these individuals will lose their crops or pastures altogether and whether they will return as members and continue farming. It is estimated that over one million acres in California have been fallowed due to the worst drought in California's history.[2]
See Table 1 and Figure 3- PNSSNS Membership by County.

Table 1 2014/15 PNSSNS Membership by County

PNSSNS by County	# Members	Irrigated Acres
Placer County	328	9,777
Nevada County	102	2,500
South Sutter County	86	14,026
North Sacramento County	43	4,849
Totals	559	31,152

[2] According to the California Farm Bureau Federation, April 2015

The majority of irrigated agriculture occurs in the southwest area of the PNSSNS Sub-watershed with only 31,152 acres currently being farmed or irrigated by PNSSNS members[3]. The California Rice Commission has about 72,000 irrigated acres from its members which represents approximately 43% of the total irrigated acres within the PNSSNS boundary. Although rice is the largest crop within the PNSSNS boundary, the California Rice Commission is the third party group coordinating efforts for the rice growers and any associated discharges. There can be challenges with the PNSSNS's monitoring location which lies within a large rice growing area of which PNSSNS is not responsible for.

The number one crop in PNSSNS is irrigated pasture, a perennial crop. Placer County crops include fruit and nut crops, rice, irrigated pasture and hay. Nevada County crops include irrigated pasture, wine grapes and a limited number of fruit orchards. Southern Sutter County crops include prunes, rice, walnuts, peaches and irrigated pasture. Northern Sacramento County produces wine grapes, nursery stock, orchard crops (apples, oranges, peaches, plums, pears and walnuts), poultry, field corn, hay, irrigated pasture, silage corn, rice and processing tomatoes. Some dryland grains are also grown, typically in rotation with other field crops. (See Figure 5, 6- PNSSNS Crops) It is important to reiterate that while commercial rice production is present in three of the four counties of PNSSNS, rice production (Oryza sativa) is not part of PNSSNS ILRP but rather falls under the responsibility of the California Rice Commission.

The PNSSNS is comprised of mostly small farmers with 49.4% of members having ten acres or less. PNSSNS lies within a low vulnerability area for both surface and ground water[4].

Table 2 PNSSNS Members by Acreage Size, 2014/ 2015

Acreage Category	Number of Members
0-10 Acres	**276**
11-20 Acres	**96**
21-40 Acres	**80**
41-80 Acres	**40**
80+ Acres	**67**
Total Members	**559**

[3] Based on the 2014-2015 PNSSNS membership data
[4] Groundwater Assessment Report (GAR) Sacramento Valley Water Quality Coalition, June 2014

Figure 2

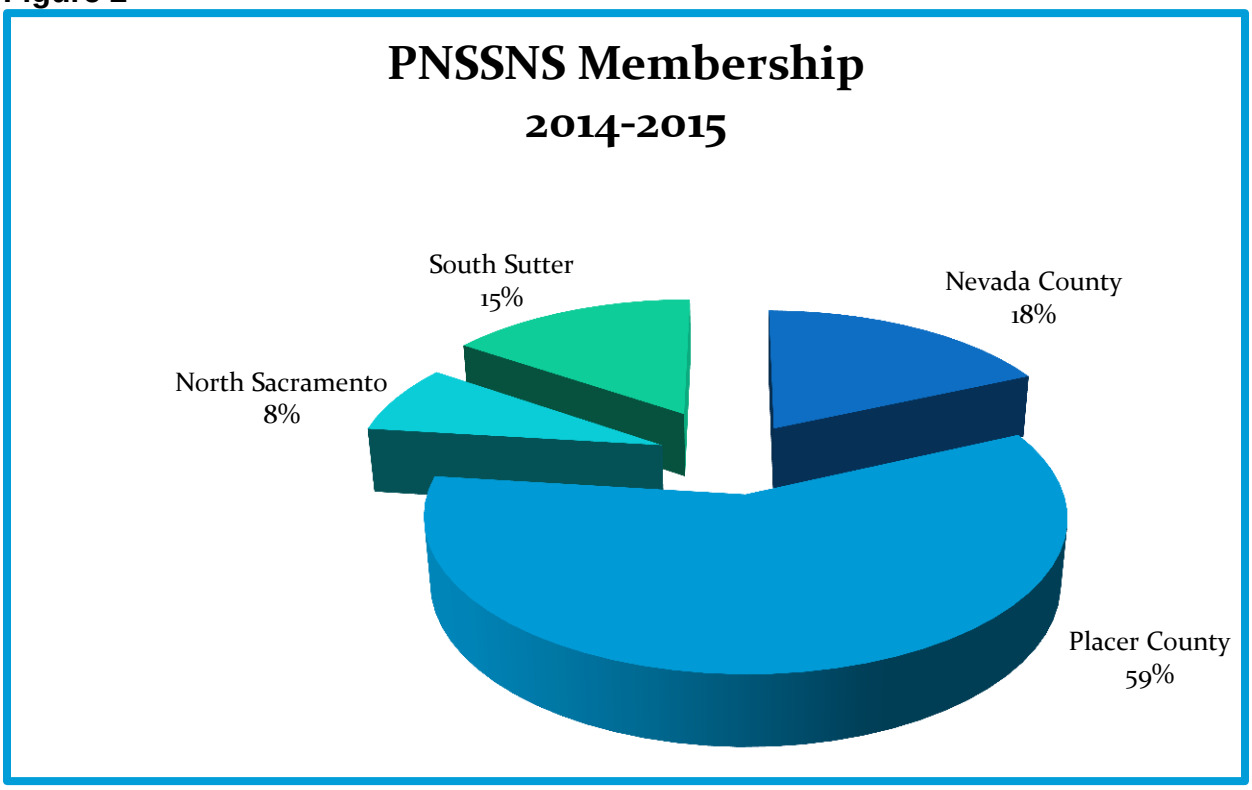
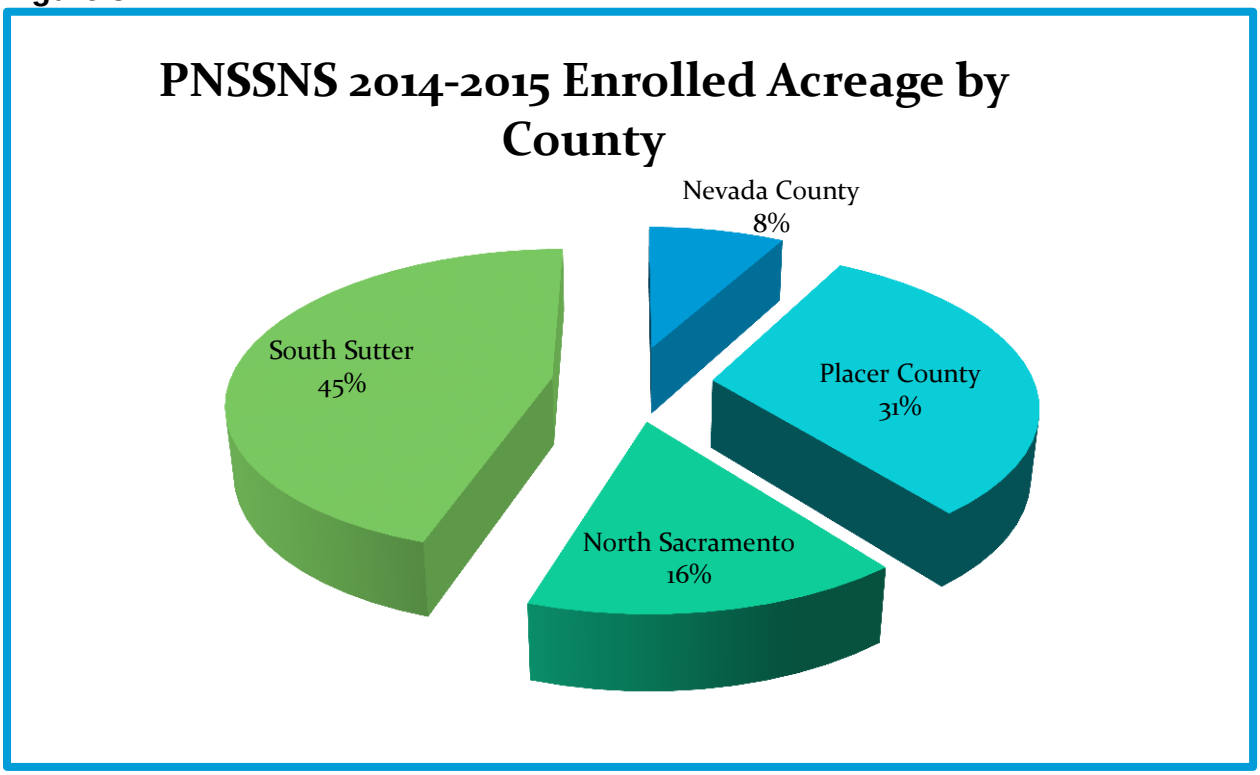


Figure 3



SECTION 3 PNSSNS AREA DESCRIPTION

Soils

Soils characteristics play a major role in cropping patterns and farming practices, and influence the retention or infiltration of water and nutrients/pesticides through the subsurface. Understanding soil properties under irrigated agricultural lands is therefore important in assessing potential vulnerabilities to groundwater quality degradation. A brief description of soils conditions in this sub-watershed is summarized below.

Soil Texture**:**

- Soils in the PNSSNS Subwatershed consist of clay and silty clay in the vicinity of the foothills, loam and sandy loam in the lower foothills and in the Sacramento River Basin, sandy loam and loam on the Valley floor.

Soil Drainage**:**

- Soils are somewhat poorly drained to moderately well drained along the Sacramento River.
- The rest of the Subwatershed consists of mostly well drained soils.

Soil Hydraulic Conductivity**:**

- Soil hydraulic conductivity in the vicinity of the Sacramento River (Natomas Basin) is moderately low.
- North of the American River, soils tend to have low soil hydraulic conductivity.
- The rest of the sub-watershed has moderately high soil hydraulic conductivity with areas of high soil hydraulic conductivity.

Soil Salinity, Alkalinity, and Acidity**:**

- The PNSSNS Subwatershed has non-saline soils.
- The Natomas Basin area has slightly alkaline soils. North of the American River soils tend to be ultra acidic, while the rest of the sub-watershed has soils ranging from slightly acidic to ultra acidic in a progression from the valley floor to the foothills and mountainous area.

Geology and Hydrogeology

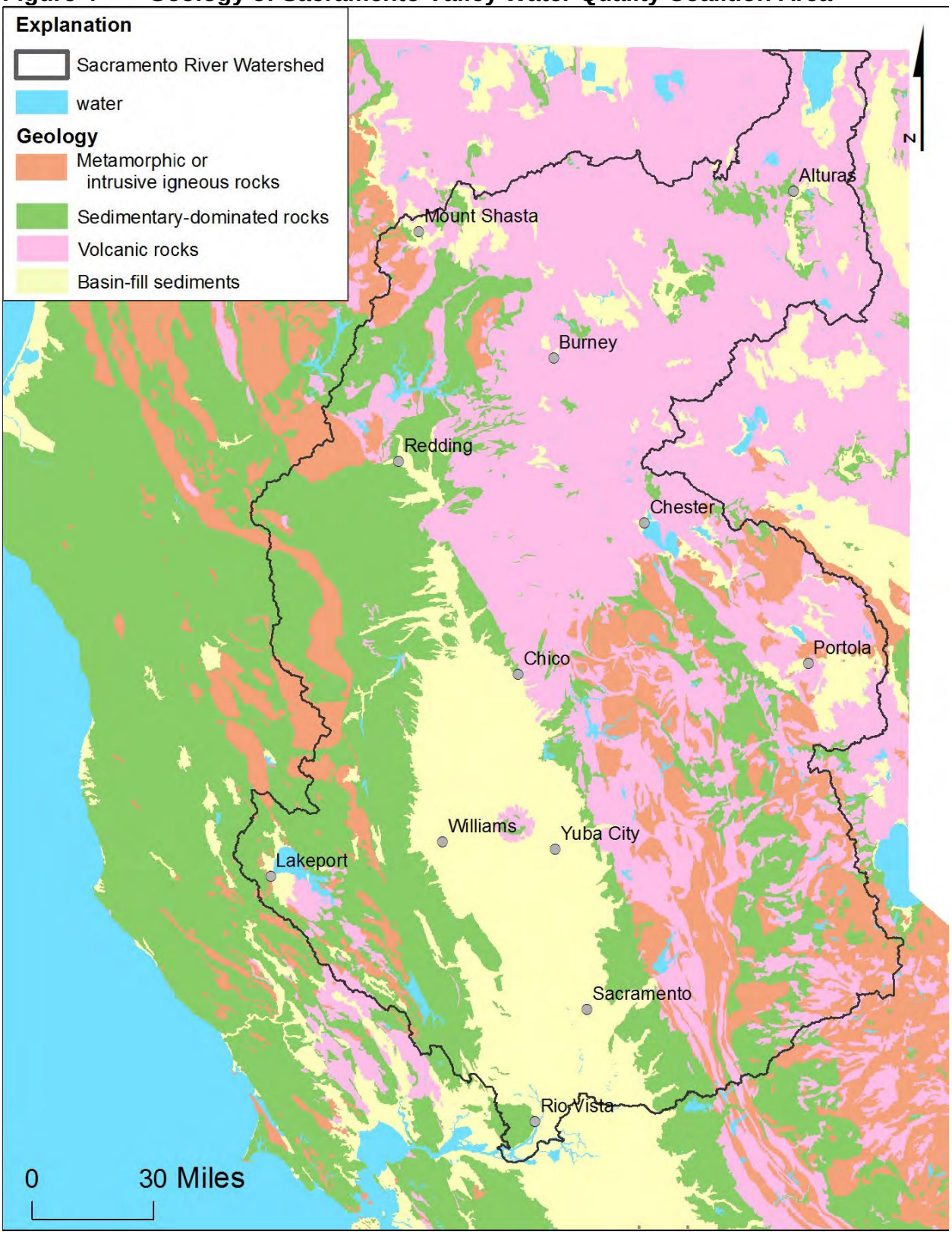
The PNSSNS Subwatershed overlies the North American Sub-basin of the Sacramento Valley Groundwater Basin, which is bound to the north by the Bear River, to the west by the Feather River, and to the south by the Sacramento River. The eastern boundary is a north-south line extending from the Bear River south to Folsom Lake, which passes about 2 miles east of the town of Lincoln and represents the approximate edge of the alluvial basin (DWR 2003). The general direction of drainage is west-southwest at an average grade of about 5 percent.

DWR Bulletin 118 provides the following description of the North American Sub-basin geology: “The water-bearing materials are dominated by unconsolidated continental deposits including volcanics, older alluvium, and younger alluvium. The alluvium can be characterized as comprising the upper aquifer system, occupying the upper 200 to 300 feet below ground surface; older geologic units can be characterized as comprising the lower aquifer system, occurring generally deeper than 300 feet toward the west side of the sub-basin. The cumulative thickness of these deposits increases from a few hundred feet near the Sierra Nevada foothills on the east to over 2,000 feet along the western margin of the sub-basin” (DWR 2003).

The North American sub-basin underlies portions of Sutter, Placer, and Sacramento Counties, which include dense urban areas where concentrated groundwater extraction occurred since at least the 1950s, resulting in local cones of depression (for example, east of downtown Sacramento). In general, since around the mid-1990s, water levels remain stable in the southern portion of the sub-basin, and in some cases groundwater elevations are continuing to increase slightly in response to increases in conjunctive use. Groundwater levels in Sutter and northern Placer Counties generally have remained stable, although some wells in southern Sutter County have experienced declines (DWR 2003).

The Nevada County portion of the Sub-watershed does not overlie a groundwater basin as designated by DWR; fractured rock aquifers dominate this area. As shown in Figure 4, initial HVAs and GPAs are located along the Sacramento and American Rivers, in the Delta, and along some of the east side streams. Depth to groundwater for sections containing irrigated agriculture, as simulated by SACFEM in April 2010, varies between 2 and 22 feet along the Sacramento and Feather Rivers, and is generally deeper than 43 feet in the rest of the valley floor. Ninety-seven percent of the Sierra Nevada area is outside of the CA Department of Water Resource’s (DWR) Bulletin 118 which defines groundwater basins in California.

Figure 4 Geology of Sacramento Valley Water Quality Coalition Area



Crop Information

PNSSNS acreage for the 2014-2015 membership year is a total of 31,152 acres. PNSSNS's member's acreage is comprised of 8% in Nevada County, 31% in Placer County, 45% in south Sutter County and 16% in northern Sacramento County.

The irrigated acreage includes managed wetlands, nursery and container plants, irrigated pasture, orchards, grain, annual and perennial hay crops, Christmas trees, wine grapes and row crops. While rice comprises 43% of the irrigated acreage within the PNSSNS boundary, it is not part of PNSSNS irrigated acreage and falls under the responsibility of the California Rice Commission.

Table 3 **PNSSNS 2014/2015 Enrolled Acreage by Crop**

Crop Category	Acres
Grain	3089
Grapes	663
Hay-annual	467
Hay-perennial	3791
Managed Wetlands	192
Nursery	321
Orchard	6318
Other	1063
Pasture	10176
Row Crop	5006
Xmas Trees	66
Total Acres	**31,152**

Figure 5

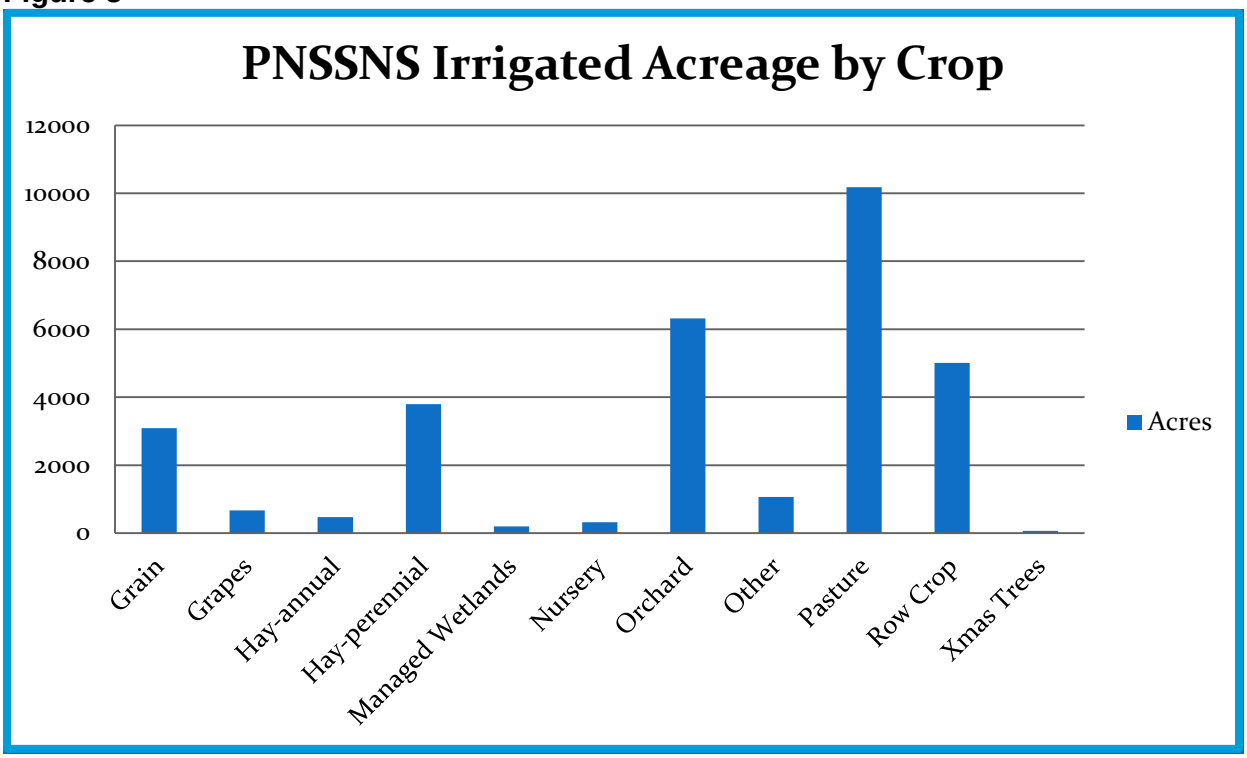
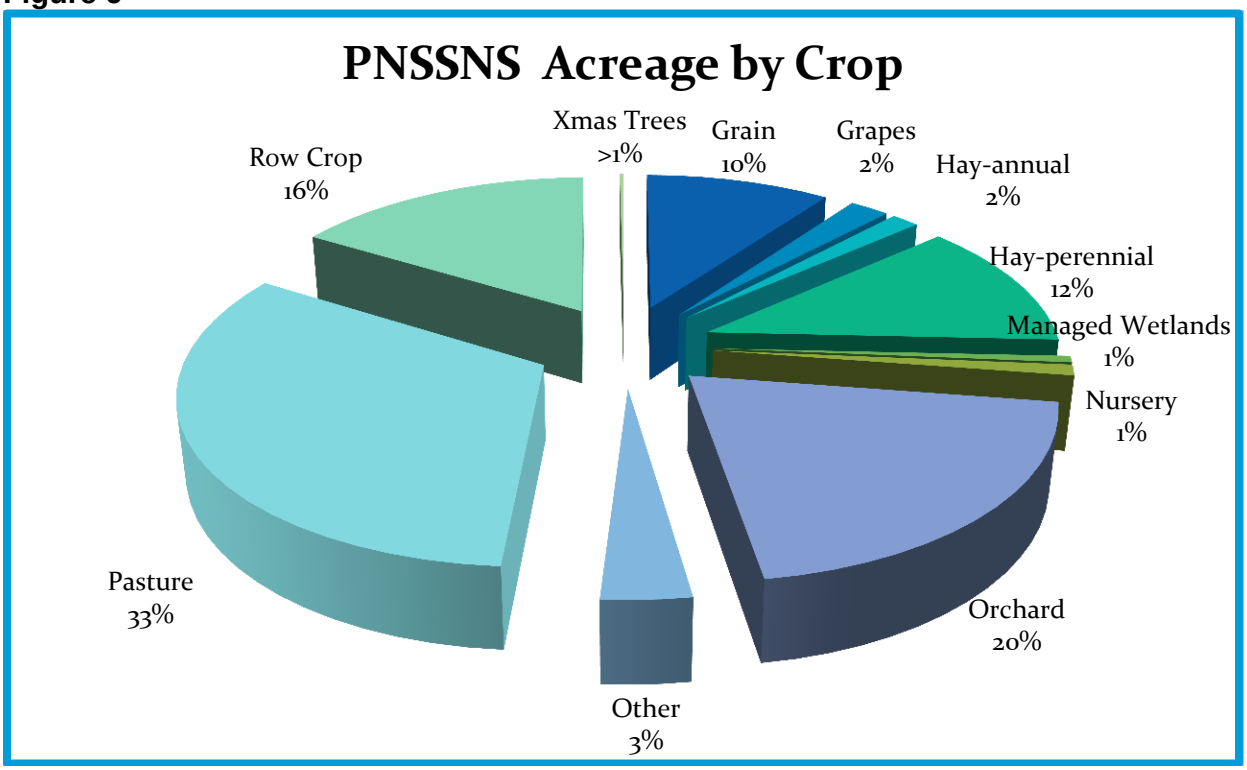


Figure 6



PNSSNS low intensity crops include irrigated pasture, nursery and container plants, wine grapes, fish, Christmas trees, hay and grain production and managed wetlands.
Low intensity designation includes the following types of practices:

- minimal to no tillage
- minimal to no fertilizer or nutrient inputs
- minimal to no pesticides applied
- efficient irrigation practices (drip, micro-jet sprinkler, sprinkler, etc.)
- perennial crops

Summary of Management Practices

PNSSNS members have indicated they have implemented and plan to implement at least two Best Management Practices (BMPs)[5] that are protective of both surface and ground water quality. The best management practices have been researched for their efficacy and applied through the USDA NRCS and UCCE Farm, Crop and Pest Advisors. The practices include, but are not limited to, the following:

Attend trainings and workshops
Cover crops
Cross fencing of pastures
Fencing off sensitive areas
Field borders
Foliar N application
Follow label restrictions for pesticides
Grazing Management/ Rotational Grazing
Irrigation conversion to more efficient design to reduce run-off potential
Irrigation scheduling matching to crop need
Minimize irrigation runs
Minimizing the use of pesticides
Minimum to no field tillage
Monitor rain forecasts
Monitor wind conditions
No pesticide or nutrient applications
Perennial or native vegetation such as irrigated pastures
Sediment and catchment basins
Soil testing for nutrients
Split fertilizer applications
Streambank stabilization
Tail-water return systems
Timing between pesticide or nutrient application and irrigation
Use drift control agents
Use of flow dissipaters to minimize erosion
Using CIMIS data to schedule irrigation

[5] According to PNSSNS Farm Evaluation Self-Assessment Survey in 2008

Using Evapotranspiration to schedule irrigation
Utilizing soil moisture probes
Vegetated ditches
Vegetated filter strips or buffers

Cover crops, native vegetation and pastures are used to hold sediment and flows while reducing erosion and run-off potential as well as provide nutrients back into the soil. Vegetated ditches are used to remove sediment as well as water soluble pesticides, phosphate fertilizers and some forms of nitrogen. Vegetative filter strips and buffers are used to capture sediment, manure and run-off. Minimum tillage is an important BMP to minimize soil erosion for protection of air and water quality. Hedgerows or trees are used to help stabilize soils and trap sediment movement. Berms are constructed at low ends of fields to capture runoff and trap sediment. Shorter irrigation runs are used with checks to manage and capture flows in flood irrigation. Tail-Water Return Systems are used to capture any run-off and re-use in a different area. The time between pesticide applications and the next irrigation is lengthened as much as possible to mitigate potential runoff of any pesticide residue. Flow dissipaters are used to minimize erosion at the discharge point. Drip, micro-irrigation or sprinklers are used for appropriate crops and to reduce irrigation run-off potential while also conserving water.

Management practices will be verified at a rate of 5% of PNSSNS's membership per year, on average. Upon approval of PNSSNS's Reduced Monitoring Plan, a technical expert will perform a site visit and verify that management practice(s) protective of water quality have been implemented by a member. PNSSNS will track the verification by member name, who performed the site visit and when, and confirmation of practices.

PNSSNS farmers and ranchers incorporate best management practices to keep their land healthy and productive while conserving water, protecting water quality and soil from erosion, providing wildlife habitat including plantings for pollinators. NRCS, RCDs, UCCE Farm, Crop and Pest Advisors along with other technical experts have assisted members with best management practices for decades. Each year, new technologies become available and education and outreach continues to be a top priority of PNSSNS.

SECTION 4 EDUCATION and OUTREACH

Farmer and rancher education, tracking, and reporting has been ongoing since the formation of the PNSSNS Sub-Watershed Coalition in 2003. PNSSNS has worked closely with its members as part of the Irrigated Lands Regulatory Program (ILRP) to promote the implementation of management practices to protect water quality while also promoting water efficiency and other conservation goals.

PNSSNS's educational partners are the local NRCS, RCDs, UCCE Farm Advisors, Crop and Pest Advisors, the county Agricultural Commissioners and other private consultants and technical experts. PNSSNS's Board consists of seven members from the farming and ranching community providing leadership for their respective geographical areas and commodities within the PNSSNS boundary. PNSSNS also partners with the local Farm Bureaus, livestock organizations, certified organic growers, Fish Friendly Farming program and other local organizations to work closely together in promoting BMPs to protect water quality. This coordinated effort aims to works closely with members to promote best management practices and provide educational information and demonstrations through meetings, seminars and workshops in addition to on-site technical assistance. The county Agricultural Advisory Commissions to the Board of Supervisors also discuss and disseminate information regarding the Irrigated Lands Regulatory Program. The county Agriculture Commissioners disseminate ILRP information and BMP information as they issue pesticide permits.

UCCE Farm Advisors, NRCS and RCDs perform on-site technical assistance to landowners, helping them understand land management concerns as well as promote BMPs to protect water quality and soil from erosion. NRCS offers cost-share incentives to implement the practices. The landowner typically invests 50% of the cost of the BMP implementation. California NRCS and landowners invested 604 million dollars for water quality protection practices on ranches between the years 2009-2014 in California[6].

The Ranch Water Quality Planning Short Course and Program was developed in 1995 by the University of California Cooperative Extension and it was funded and approved by the State Water Board to help protect water quality. The program is ongoing today. It has been updated, is online and water quality plans have been implemented on over two million acres in California[7]. Several PNSSNS members have taken part in the training and implementation of the best management practices in this program. The locally adaptive program has been successful largely because it was voluntary and able to identify and meet the performance measures and outcomes on a case by case basis. UCCE, RCDs and other

[6] According to CA NRCS, reporting in March 2015
[7] UC Davis Rangeland Water Quality Program, March 2015

partners host seminars monthly promoting water quality, pest management, safe use of fertilizers and pesticides, water efficiency practices to minimize run-off, etc.

In 2008, PNSSNS sent out a voluntary, two page survey to its members for their Self-Assessment of Farm and Ranch Practice as part of the outreach effort. Condensed results are as follows:

- Surveys sent to 631 members, 305 responses for a 48% response rate.
- 56% had Irrigated pasture and raised livestock
- 64% had ten acres or less
- 72% reported they did not use pesticides
- 7% were organic growers
- 18% had a Conservation Plan
- 46% had buffer areas to protect water quality
- 65% had erosion control practices implemented
- 73% managed irrigation at rates that avoid water loss due to surface runoff
- 68% had management practices to promote wildlife and pest management
- 92% have implemented one or more BMPs to protect water quality

A summary of PNSSNS's education and outreach events for the promotion of BMPs to protect water quality is submitted to the Sacramento Valley Water Quality Coalition annually. The SVWQC then submits the information to the Regional Board as part of the Sacramento Valley Annual Monitoring Report (AMR), May 1st annually. See Table 4 for a partial list of the 2014-2015 (thru May 1, 2015) education and outreach effort by PNSSN:

Table 4
Summary of Landowner Outreach Efforts, October 1, 2013 – May 1, 2015

Subwatershed	Date	Organization	Topics/Exceedances Discussed	Location	# of People
PNSSNS	11/1/2013	UC Coop	Beginning Farm Academy	Auburn	16
PNSSNS	11/2/2013	UC Coop	Beginning Farm Academy	Auburn	16
PNSSNS	1/29/2014	UC Coop	Drought Training (Grazing)	Sierra Foothill Research & Ext. Center	113
PNSSNS	2/26/2014	PNSSNS	8th Annual Membership Meeting. Topics included overview of expected new WDR. BMPs for drought management of tree/fruit and pasture/grazing.	PCWA in Auburn	52
PNSSNS	3/5/2014	UC Coop	Drought Update (Grazing/Crops)	UCCE offices, Auburn	26
PNSSNS	3/12/2014	UC Coop	Drought Meeting (Grazing/Crops)	PCWA	13
PNSSNS	3/19/2014	PNSSNS Board	Water monitoring results, WDR regulations, SVWQC Advisory Council	Western Placer Waste Management Authority	8
PNSSNS	3/22/2014	UC Coop	Growing Citrus in the Foothills	Rocklin	12
PNSSNS	3/24/2014	UC Coop	Livestock Mgmt During Drought	UCCE offices, Auburn	12
	3/25/2014	UC Coop	Regulations for Farmers & Ranchers	Rocklin	20
PNSSNS	3/29/2014	UC Coop	Growing Citrus in the Foothills	Rocklin	12
PNSSNS	4/1/2014	Placer Co. Fish & Game	Ed Sills, President and Linda Watanabe presented PNSSNS history/purpose to the Placer Co. Fish & Game Commission. Received grant for $500 for newsletter sponsor		12
PNSSNS	4/4/2014	UC Coop	Direct Farm Marketing	Sierra College - Rocklin	15
PNSSNS	4/5/2014	UC Coop	Direct Farm Marketing	Sierra College - Rocklin	15
PNSSNS	4/17/2014	UC Coop	Pasture irrigation Management	Auburn Ranch	16
PNSSNS	4/21/2014	PNSSNS Board	Placer Co Ag Tour, RCD contract, Amnesty, Water Monitoring, FEP	Scheiber Ranch	9

PNSSNS	4/25/2014	UC Coop	CA Grazing Academy	Sierra Foothill Research & Ext. Center	20
PNSSNS	4/26/2014	UC Coop	CA Grazing Academy	Sierra Foothill Research & Ext. Center	20
PNSSNS	5/23/2014	PNSSNS Board	Water Monitoring	Western Placer Waste Mgmt Authority	10
PNSSNS	6/26/2014	UC Coop	Pasture Walk	Bruin Ranch, Auburn	26
PNSSNS	6/30/2014	Regional Water Board	Reviewed/confirmed list of identified parcels not in compliance with the ILRP. Board of Directors reviewed.		686 parcels
PNSSNS	7/1/2014	Summer Newsletter	Informed members of new WDR requirements including Farm Eval Plan, Notice of Confirmation, new water monitoring schedule and “Amnesty.” Drought mgmt BMP.		500
PNSSNS	7/1/2014	PNSSNS Email Distribution	Informed members to spread the word to non-members regarding “Amnesty”		500
PNSSNS	7/22/2014	UC Coop	Irrigation & Pasture Management	Grass Valley	44
PNSSNS	7/31/2014	UC Farm Advisor, Placer Co. RCD, Nevada Co. NRCS	UC Farm Advisor, Placer Co. Ag Commissioner, Placer Co. RCD, Nevada Co. NRCS sent emails regarding “Amnesty” encouraging all those who should be enrolled to do so.		1,000
PNSSNS	7/31/2014		Processed ‘amnesty’ enrollments		81
PNSSNS	8/1/2014	PNSSNS Board	Adm; amnesty; groundwater; Database mgmt	Western Placer Waste Mgmt Authority	11
PNSSNS	9/5/2014	PNSSNS Board	Amnesty; Farm Plans; Reduced Monitoring	Western Placer Waste Mgmt Authority	12
PNSSNS	9/12/2014	UC Coop	Multi-Species Academy	UCCE offices, Auburn	20

PNSSNS	11/1/2014	SVWQC/LWA	Began inputting membership renewals onto New database membership system.		120 input
PNSSNS	11/1/2014	Winter Newsletter & membership renewal	New WDR, Farm Eval Plan surveys, Amnesty update, Notice of Confirmation, water monitoring results, Drought/Fire BMPs, Farm Plan workshop announcement		550
PNSSNS	11/1/2014	Placer Co. Farm Bureau	Sponsored winter newsletter which included new WDR, drought/fire BMPs		600
PNSSNS	12/29/2014	Farm Plan Packet	Farm Plan Packets distributed to all members. Included workshop schedule, FEP survey, instructions, member parcel lists.		535
PNSSNS	1/20/2015	Nev Co. Ag Commiss, UC Coop Farm Advisor, member volunteers, Board volunteers	Farm Eval Plan workshop	PCWA in Auburn	20
PNSSNS	1/21/2015	Nev Co. Ag Commiss, member & board volunteers	Farm Eval Plan workshop	Western Placer Waste Management Authority	20
PNSSNS	1/28/2015	So. Sutter Biologist, Board volunteers	Farm Eval Plan workshop	Pleasant Grove Fire Dept.	20
PNSSNS	1/31/2015	Board volunteers	Farm Eval Plan workshop	Pleasant Grove Fire Dept.	20
PNSSNS	2/3/2015	Nevada Co. NCRS, Nevada Co. Biologist	Farm Eval Plan workshop	Madelyn Helling Library, Nevada City	3
PNSSNS	2/5/2015	Nevada Co. NCRS, Nevada Co. Biologist	Farm Eval Plan workshop	Madelyn Helling Library, Nevada City	3
PNSSNS	2/25/2015	Board & Member volunteers, UC Farm Advisor	Farm Eval Plan workshop	PCWA in Auburn	60
PNSSNS	2/25/2015	Board	9 th Annual Membership Meeting	PCWA in Auburn	60
PNSSNS	2/6/2015	PNSSNS Board	Annual Reporting	Lincoln	15
PNSSNS	4/10/15	PNSSNS Board	WQ Analysis, WDR	Lincoln	13
PNSSNS	5/1/15	PNSSNS Board	RMP, FEPS, BMPs	Roseville	12

SECTION 5 WATER QUALITY MONITORING

PNSSNS has performed water quality sampling and monitoring since 2004. Several refinements of the ILRP by the Central Valley Regional Water Quality Control Board (CVRWQCB) have necessitated changes in the program during the last decade. The first of those occurred in 2009 when initial results from surface water quality monitoring enabled the Sacramento Valley Coalition to secure a more focused monitoring program for the sub-watershed groups.

The Regional Water Board (CVRWQCB) approved a five year Coalition specific Monitoring and Reporting Program Plan (MRPP) that focuses surface water quality monitoring and analysis on the pesticides, herbicides, nutrients and other agricultural products specifically used in a Coalition Sub-watershed. In 2011, the Regional Water Board approved a significant expansion of the program for growers throughout the Central Valley that added groundwater quality to the ILRP. Over the next three years, the Coalition (SVWQC) worked actively to craft a program that delineates the Sacramento River Basin from other agricultural regions of the Central Valley and California. In March 2014, CVRWQCB approved a new Waste Discharge Order No. R5-2014-0030 for the Sacramento Valley which included changes to the Monitoring and Reporting Program Plan (MRPP).

The five primary changes to the Monitoring Plan were to:

1) eliminate core monitoring at the Representative sites;
2) determine pesticide monitoring based on the outcome of Board-led coordination with DPR;
3) modify Assessment monitoring to two years on, two years off—with a third consecutive year of follow-up monitoring for any parameter with more than one exceedance (Management Plan);
4) add Integration sites; and
5) add a Reduced Monitoring/Management Practices Verification Option that applies to limited areas and requires Executive Officer approval.

In 2010, PNSSNS submitted a Low Threat Monitoring Plan proposal to the CVRWQCB's ILRP Division. The PNSSNS proposal was based on no significant water quality exceedances, widespread use of best management practices and the low threat of any water quality impairment based on the minimal amount of pesticide usage and other factors. Approval of PNSSNS's proposal was delayed until the new Waste Discharge Order was developed and approved in March 2014. As a result, PNSSNS is submitting the Reduced Monitoring and Management Practices Verification Option Plan as this is an important opportunity for PNSSNS. The guidelines are outlined in the 2014 Waste Discharge Order No. R5-2014-030.

Monitoring Objectives

PNSSNS's water quality monitoring program will achieve the following objectives as a condition of the current *ILRP*:

1. Assess the impacts of waste discharge, if any, from irrigated lands to surface waters;
2. Determine the degree of implementation of management practices to reduce discharge of specific wastes that may impact water quality;
3. Determine the general effectiveness of management practices and strategies to reduce discharge of wastes that may impact water quality;
4. Determine concentration and load of wastes in these discharges to surface waters; and
5. Evaluate compliance with existing narrative and/or numeric water quality objectives to determine if additional implementation of management practices is necessary to improve and/or protect water quality.

In accordance with the *ILRP* requirements, PNSSNS is achieving these objectives by implementing an MRP that evaluates samples for the presence of statistically significant toxicity and exceedances of applicable numeric water quality objectives and *ILRP* trigger limits. PNSSNS initiates follow-up actions designed to identify constituents causing significant toxicity when toxicity is of sufficient magnitude. Exceedances of numeric objectives and *ILRP* trigger limits for chemical, physical, and microbiological biological parameters trigger follow-up actions designed to identify potential sources and to inform potential users or contributors of the constituents of concern. PNSSNS is committed to the principle of adaptive management to control specific discharges of waste that may have an impact on water quality. This iterative approach allows for the most effective use of scarce human and fiscal resources.

The parameters monitored in 2014 by the Coalition were as specified in the MRP (*R5-2009-0875*), including the following:

- Water column and sediment toxicity
- Physical and conventional parameters in water and sediment
- Organic carbon
- Pathogen indicator organisms in water
- Trace metals in water
- Pesticides in water and sediments
- Nitrogen and phosphorus compounds in water
- 303(d)-listed constituents identified in waterbodies downstream from Coalition sites and potentially discharged within the watershed

Monitoring Sites

Representative Site Monitoring

As required by MRP Order No. R5-2014-0030, Attachment to General Order R5-2014-0030 Sacramento River Watershed, the third-party shall ensure that Representative monitoring sites are representative of areas and types of irrigated agricultural waste discharge within the entire third-party area. Surface water monitoring sites shall be located to characterize water flow, quality, and irrigated agricultural waste discharges within the entire third-party area. Currently, assessment monitoring (as described in section III.C.1) within each sub-watershed shall be conducted at the designated Representative sites for two consecutive years, followed by two consecutive years of monitoring consisting only of that required for surface water quality management plans (SQMP) or other Special Project monitoring. Exceptions to this monitoring schedule are allowed if a different approach has been required or approved by the Executive Officer (see section III.C.1) such as the Reduced Monitoring and Management Practices Verification Option Plan.

PNSSNS water quality monitoring under the ILRP began in the fall of 2004 and is ongoing to present. Other monitoring in the area is performed by local water agencies and other groups for limited water quality parameters and constituents, yet not involved in the ILRP.

At the beginning of the ILRP, a priority monitoring site was selected. It was selected to be representative of the highest priority drainage based on the percent of irrigated acres, types and variety of crops, potential perceived risk to water quality and the potential usage of organophosphate pesticides. Coon Creek at Striplin Road (CCSTR) was selected initially but later discovered to be a mistake, although the site is still being monitored. Coon Creek at Brewer Road (CCBRW) was later selected to be the Representative site for the majority of the PNSSNS drainages.

The two current PNSSNS monitoring sites are:

Coon Creek at Brewer Road CCBRW REP 38.9340 N -121.4518 W

Coon Creek at Striplin Road CCSTR SP 38.8661 N -121.5803 W

Coon Creek at Brewer Road (CCBRW)

This site captures drainage from the Middle Coon Creek drainage areas as identified in the Placer-Northern Sacramento Drainage Prioritization Table in the Coalition's Watershed Evaluation Report (WER). This site is on Coon Creek about six miles northwest of the town of Lincoln and includes predominantly agricultural acreage. The drainage includes approximately 65,000 irrigated acres of rice, pasture, grains, and sudan grass, with a high percentage of rice acreage. This is a Representative site for this Subwatershed although growing rice and any associated discharge falls under the jurisdiction of the California Rice Commission and not PNSSNS. The Coon Creek at Brewer Road site is sampled seven times per year to capture the irrigation season and major storm events. This site has an existing 2010 Management Plan (now suspended by the Water Board) for Dissolved Oxygen (DO).

Coon Creek at Striplin Road (CCSTR)

This site was assumed to capture drainage from the Lower Coon Creek drainage areas yet is hydrologically isolated from the Coon Creek drainage. The sampling site is geographically about one mile downstream in an extension of Ping Slough. The site drains from the Butte-Yuba-Sutter Sub-watershed Coalition area and not from the PNSSNS Sub-watershed Coalition's area. The Striplin Road monitoring site is duplicative of another TMDL monitoring site in the Butte-Yuba-Sutter sub-watershed. There is no connection to upper Placer or Nevada counties. There may also be urban runoff contributions at this site as there are several non-agricultural ranchettes up stream of the monitoring site. The Striplin Road site is now only monitored four times per year in April, July, August and September. The only parameters collected are for organophosphates and field measurements such as DO, pH, EC,TC and Flow. This site has an existing 2009 Management Plan (now suspended by the Water Board) for Dissolved Oxygen (DO).

Request for Reduction of One Monitoring Site

In September 2013, PNSSNS requested of SVWQC and the Regional Board that this site be removed from PNSSNS monitoring requirements. PNSSNS has performed required sampling at this site since approximately 2004 and paid for over 1,708 samples and analysis in addition to performing 228 tests for physical parameters through 2014. PNSSNS also was involved with one Management Plan for Chlorpyrifos (2005) at the Striplin Road site which was completed by PNSSNS although there is no hydrologic connection to PNSSNS. The Striplin Road site is included in PNSSNS' 2015 monitoring requirements and sampling is on-going. As part of this Plan, PNSSNS is requesting official removal of this site from the PNSSNS monitoring requirements.

See PNSSNS Monitoring Site Map, Figure 8 which identifies the monitoring sites in the Sacramento Valley Water Quality Coalition. The monitoring sites for PNSSNS are identified as CCBRW and CCSTR.

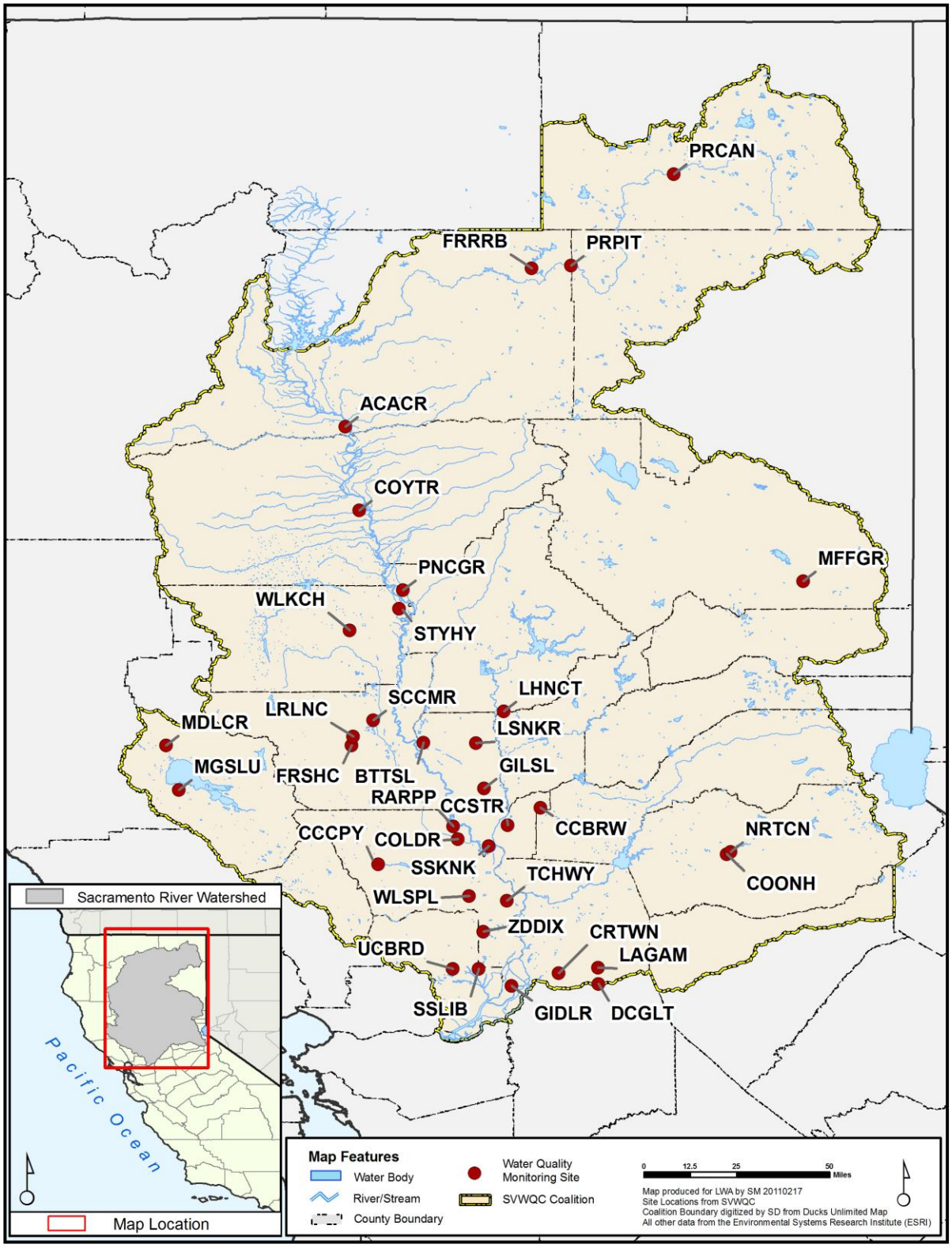


Figure 8 Sacramento River Watershed Water Quality Monitoring Sites
PNSSNS Monitoring Sites: CCBRW and CCSTR

Monitoring Results

Over the past eleven years of water quality monitoring and 5,035 samples[8], two Management Plans were required for Dissolved Oxygen (CCBRW and CCSTR locations) yet the requirements have been suspended in 2011 by the Regional Board. It is difficult to determine how agriculture could affect the results and/ or implement any management plans in response. Two Management Plans were completed for E. coli (CCBRW and CCSTR) and one Management Plan completed for Chlorpyrifos (CCSTR) from 2005 sampling. A request for the Striplin Road monitoring site to be removed from the sampling and monitoring was submitted in 2013 and PNSSNS is awaiting approval due to no hydrologic connection to irrigated agriculture in PNSSNS.

It is also difficult to determine whether a result of E. coli is caused by agriculture or not without speciation of the samples which is costly. PNSSNS's sampling area is within the Pacific Flyway Migration Route for migratory birds and there can be hundreds of thousands of water fowl at any one time during the sampling periods. It is assumed to be the source of E. coli especially since there is not much, if any livestock grazing in the vicinity.
See Figure 9.

From the Striplin Monitoring Site, 3 of the 5 exceedances in PNSSNS's history that triggered Management Plans, occurred at CCSTR. PNSSNS has petitioned the Regional Board for removal of the monitoring requirements for this site due to no hydrologic connection to PNSSNS. Refer to Table 5 for the PNSSNS Summary of Water Quality Sampling Results 2004-2014 and Table 6 for the Water Quality Monitoring and Exceedances Summary, 2004-2014. There are no Management Plans for toxicity, pesticides, metals or nutrients.

[8] PNSSNS water quality samples taken through 2014

Photography by LARRY WHITE: WILDLIFE PHOTOGRAPHER, Lincoln, CA. This photograph was taken from a PNSSNS member's ranch in Pleasant Grove on 1/8/2013. This location is very close to the PNSSNS' monitoring site at Brewer Road (CCBRW).This photo is an example representing the number of water fowl present in the watershed especially at times of water quality sampling.[9]

[9] Photo reprinted with permission by Larry White, Wildlife Photographer

Table 5 Summary of Water Quality Sampling Results for PNSSNS, 2004 - 2014

Sites

Analyte Category	Coon Creek at Striplin Road	Coon Creek at Brewer Road	Coon Creek at DLX Ranches	Coon Creek at Dowd Road	Notes:
Pesticide	6 of 1306: Thiobencarb (rice), 06/21/06 Thiobencarb (rice), 07/19/06 Thiobencarb (rice), 08/16/06 Chlorpyrifos, 09/07/05 Chlorpyrifos, 07/06/05 Chlorpyrifos, 05/17/11	3 of 1347: Diuron, 2/10/07 Thiobencarb (rice), 5/16/07 Chlorpyrifos, 8/17/11	NA	NA	2 exceedances for non-rice pesticides at Brewer Road; 3 exceedances for non-rice pesticides at Striplin; No active management plans for pesticides; Chlorpyrifos management plan for Striplin completed;
Legacy Pesticides	0 of 155	0 of 388	NA	NA	No exceedances or management plans;
Metals	0 of 106	2 of 283: Copper, 5/20/14 Copper, 5/16/07	NA	NA	2 copper exceedances (both non-PNSSNS member caused); No management plans triggered;
Toxicity	0 of 24	3 of 73: Selenastrum, 4/18/07 Pimephales, 2/22/08 Ceriodaphnia, 8/19/08	NA	0 of 1	No management plans triggered;
Microbiological	6 of 17: (E. Coli)	15 of 76: (E. Coli)	6 of 10: (E. Coli, fecal coliforms)	1 of 1: (E. Coli)	2 management plans completed for E. Coli
Nutrients	0 of 45	0 of 256	NA	NA	No exceedances or management plans;
Salinity	1 of 55: Conductivity, 4/20/11	0 of 94	0 of 6	0 of 2	No management plans triggered;
Physical (DO, pH, etc,)	22 of 228: (21 DO, 1 pH)	7 of 521: (6 DO, 1 pH)	0 of 29	0 of 13	2 DO Management Plans; Suspended by Regional Board
Total samples taken 5,035					

Table 6

Summary of PNSSNS 2014 Water Quality Monitoring and Exceedances[10]

Date	Category	Analyte	Fraction	Rep	Unit	Result	Trigger Limit
Coon Creek at Brewer Rd							
2/10/14	Microbiological	E. coli	Unfiltered	1	MPN/100ml	2419	235 (BP)
4/17/14	Physical	D. O.	None	1	mg/ L	6.53	7 (SSO COLD)
5/20/14 [11]	Trace Metal	Copper	Filtered	1	ug/ L	15	4.95 (CTR FW AQ Chronic) 6.99 (CTR)
5/20/14[12]	Trace Metal	Copper	Filtered	2	ug/ L	10	4.95 (CTR FW AQ Chronic) 6.99 (CTR
9/16/14	Microbiological	E. coli	Unfiltered	1	MPN/100ml	325.5	235 (BP)
Coon Creek at Striplin Rd							
9/16/14	Physical	D.O.	None	1	Mg/ L	5.62	7 (SSO COLD)

[10] SVWQC 2014 Exceedance Report for PNSSNS Sub-watershed. (Samples collected in 2014)
[11] Exceedance investigated and found not to be agricultural related. See PNSSNS and Placer County letters to CVRWQCB.
[12] Exceedance investigated and found to not be agricultural related. See PNSSNS and Placer County letters to CVRWQCB.

PNSSNS, its board members, technical advisory partners and members thoroughly investigate any water quality exceedance immediately upon notification.
A typical response is to immediately notify members via email alerts and/ or phone calls for members in the vicinity and sometimes through a mailing that an exceedance has occurred and may be attributable to an agricultural discharge. Best management practices are advised for certain crops that might be the cause. PNSSNS responds with its members in the following manner:

1. Report any exceedance to the PNSSNS Board of Directors
2. PNSSNS Executive Director work with the county Agricultural Commissioners to determine if any pesticide use in the sampling area, if exceedance was due to a pesticide.
3. Alert the technical experts that advise and perform technical assistance to PNSSNS
4. Mapping is performed to see if any members are within the area.
5. Map overlays are used to see if a member in the area registered use of a pesticide of concern.
6. If exceedance was due to irrigated agriculture, information is disseminated through newsletters, phone calls, emails and workshops.
7 If an exceedance was not deemed attributable to irrigated agriculture, the maps and background information is submitted to SVWQC for discussion with the Regional Board ILRP staff on behalf of PNSSNS. A request is then made to the ILRP staff to have the exceedance removed from a Management Plan requirement.
8. At the Annual PNSSNS Meeting, any exceedances are discussed and presentations for best management plans are provided.
9. PNSSNS partners provide education and outreach on management practices to protect water quality

PNSSNS has implemented the approved monitoring program in coordination with the Sacramento Valley Water Quality Coalition and has initiated follow-up activities required to address any observed exceedances. Throughout this process, the Coalition has kept an open line of communication with the Water Board and has made every effort to fulfill the requirements of the *ILRP* in a cost-effective, scientifically defensible, and management-focused manner. The Annual Monitoring Reports (AMR) are documentation of the success and continued progress of PNSSNS and the Coalition in achieving these objectives.

The following are links to the Annual Monitoring and Reporting representing monitoring data from 2004-2014 on the Northern California Water Association, Sacramento Valley Water Quality Coalition website. PNSSNS is one of the thirteen sub-watershed groups included in the semi-annual and annual reporting:

2005 SVWQC Annual Report
http://www.svwqc.org/wp-content/themes/SVWQC/docs/02-executive_summary_2005.pdf

2006 SVWQC Semi-Annual Report-June
http://www.svwqc.org/wp-content/themes/SVWQC/docs/03-2006-SVWQC-Storm-SAMR.pdf

2006 SCWQC Semi-Annual Report-December
http://www.svwqc.org/wp-content/themes/SVWQC/docs/04-SVWQC-Irr-SAMR-123106.pdf

2007 SVWQC Semi-Annual Report- June
http://www.svwqc.org/wp-content/themes/SVWQC/docs/05-SVWQC-SAMR-2007_06_29.pdf

2007 SVWQC Semi-Annual Report- December
http://www.svwqc.org/wp-content/themes/SVWQC/docs/06-SVWQC-Irrigation-2007-SAMR.pdf

2008 SVWQC Annual Report
http://www.svwqc.org/wp-content/themes/SVWQC/docs/07-SVWQC-SAMR-2006-6-30-Final.pdf

2009 SVWQC Annual Report
http://www.svwqc.org/wp-content/themes/SVWQC/docs/08-SVWQC_2009_AMR_2010-03-01_FINAL.PDF

2010 SVWQC Annual Report
http://www.svwqc.org/wp-content/themes/SVWQC/docs/09-SVWQC_2010_AMR_2011-03-01_FINAL_Amended_20110615.pdf

2011 SVWQC Annual Report
http://www.svwqc.org/wp-content/themes/SVWQC/docs/10-SVWQC_2011-AMR_FINAL_2012-03-01.pdf

2012 SVWQC Annual Report
http://www.svwqc.org/wp-content/themes/SVWQC/docs/annual-monitoring-report-2012.pdf

2013 SVWQC Annual Report
http://www.svwqc.org/wp-content/themes/SVWQC/docs/annual-monitoring-report-2013.pdf

2014 SVWQC Annual report, submitted June 1, 2015

SECTION 6 GROUNDWATER ASSESSMENT

While groundwater assessment and analysis is not necessarily part of the Reduced Monitoring and Management Verification Option Plan, PNSSNS thought it important to distinguish its area as a low vulnerability area for both surface and groundwater.

Current Programs and Groundwater Monitoring

Groundwater quality is well monitored in the major urban area of this sub-watershed, the Sacramento Metro area. The Sacramento Groundwater Authority (SGA), which overlies a portion of the North American Sub-basin, maintains a database of well data since the early 1990s. All SGA member agencies monitor their production wells for water quality, which includes approximately 260 public supply wells. Other cities and public water supply agencies that use groundwater monitor their wells to ensure groundwater quality compliance with CCR Title 22 as required by CDPH. In addition, many wells are regularly monitored by DWR, SGA, USGS, and by CASGEM monitoring entities for groundwater levels in the PNSSNS groundwater sub-basin.[13]

Vulnerability Analysis Results

The vulnerability analysis was performed by reviewing groundwater quality data and susceptibility factors (hydrogeology, soils and agronomy). The technical details related to the data processing that went into performing this analysis is described in the Sacramento Valley Water Quality Coalition's Groundwater Assessment Report submitted to the CVRWQCB in June 2014 (described in GAR, Section 4).

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Since a portion of the sub-watershed area that is farmed lies within the valley floor, the SACFEM area-based analysis is applicable for the PNSSNS Subwatershed. Maps of each susceptibility and vulnerability index distribution are shown in Figures 8-1 through 8-8 of the SVWQC GAR Report.

Groundwater Quality

The review of groundwater quality for the vulnerability analysis focuses on nitrate, salinity, and pesticides. Other constituents of concern are reviewed as necessary, based on documented occurrences.

In Placer and Nevada Counties, groundwater quality is generally good (acceptable for drinking water purposes) with some exceptions in wells that have high arsenic concentrations and sometimes high manganese concentrations. Groundwater in the shallower aquifer is generally of higher quality than that of the lower aquifer; the lower aquifer tends to have higher TDS, iron, manganese, and arsenic levels than the shallow aquifer[14]. Similarly, in the SGA area, the upper aquifer tends to have higher quality groundwater than the lower aquifer. The groundwater has generally good chemistry (low

[13] SVWQC Groundwater Assessment Report, June 2014

[14] City of Roseville et all, 2007

nitrate), although there are several contaminant plumes and point sources of contamination (SGA 2008).

The area along the Sacramento River extending from Sacramento International Airport northward to the Bear River contains high levels of TDS, chloride, sodium, bicarbonate, manganese, and arsenic. The highest levels of TDS are found in an area extending between Reclamation District 1001 and the Sutter Bypass, with maximum reported TDS exceeding 1,000 mg/L. There are three sites within the North American Sub-basin with significant groundwater contamination issues: the former McClellan Air Force Base, the Union Pacific Railroad Rail Yard in Roseville, and the Aerojet Superfund Site plume extending north under the American River. In the deeper portions of the aquifer, the groundwater geochemistry indicates the occurrence of connate water from the marine sediments underlying the freshwater aquifer, which mixes with the fresh water. Elevated levels of TDS, chloride, sodium, bicarbonate, boron, fluoride, nitrate, iron, manganese, and arsenic may be of concern in some areas of the Sub-basin (DWR 2003). These sites are not expected to be attributable to irrigated agricultural production.

Nitrate

The PNSSNS Subwatershed NO3 analysis is based on a review of the concentration of the most recent sampling at each well from 410 wells located in this sub-watershed and for which records were readily available. Table 8-1 of the SVWQC GAR provides summary statistics for wells that were sampled for NO3 in the PNSSNS Subwatershed. Two percent of most recent wells had nitrate values above half the MCL, while less than 1 percent of wells had nitrate values exceeding the primary MCL of 45 mg/L. The average concentration is 5.8 mg/L, well below half the MCL. It should be noted that these wells are not necessarily restricted to irrigated agricultural areas, but represent the general water quality of groundwater in the entire sub-watershed.[15]

Salinity

As described in the GAR Section 4, salinity levels in groundwater are reviewed to identify areas of the aquifer with elevated values. High salinity levels in groundwater can be problematic when groundwater is used as the primary source of irrigation water, because this practice can potentially lead to accumulation of salts in the subsurface, creating the potential for long-term mass flux to the aquifer system. For this analysis, TDS concentrations along with EC values converted to TDS concentrations were used to evaluate the spatial and temporal distribution of salinity in groundwater underlying irrigated agriculture, from a total of 618 wells. Table 8-2 of the GAR provides summary statistics for wells that were sampled for TDS and EC in the PNSSNS Subwatershed. In this analysis, the most recent sample data available for each well was used. In the PNSSNS Subwatershed, 8 percent of most recent wells had TDS values above the recommended secondary MCL of 500 mg/L, and 2 percent of wells had TDS values exceeding the upper limit secondary MCL of 1,000 mg/L. The average concentration is 257 mg/L, which is below half the secondary recommended MCL of 500 mg/L. This attests to the very low salinity in this sub-watershed. It should be noted that not all of these wells necessarily overlie irrigated agriculture areas, but represent the general water quality of groundwater in the entire sub-watershed.

[15] Groundwater Assessment Report, Sacramento Valley Water Quality Coalition, June 2014

Conclusions

The vulnerability of groundwater was assessed using a combination of susceptibility indicators and groundwater quality monitoring results. The vulnerability designation concepts and methodology are described in detail in GAR Section 4. Based on this analysis, and taking into consideration the susceptibility and water quality results described above, a vulnerability map for potential groundwater contamination due to nitrate was developed for this sub-watershed and is shown on Figure 8-8 of the GAR Report.
The areas outside of the Valley floor are considered low vulnerability due to the excellent water quality and sparse irrigated agricultural areas. On the valley floor, there are 111 sections designated low vulnerability, 88 sections designated moderate vulnerability, and 20 sections designated as high vulnerability. A few data gap areas may also exist.
The few sections designated as high vulnerability in this sub-watershed are scattered along the Sacramento and Feather Rivers due to the higher geologic susceptibility in those areas. However, the effect of groundwater dilution from stream recharge to the aquifer might actually help lessen the potential for nitrate accumulation in the groundwater. In addition, based on the groundwater quality results described above, there are generally no high nitrate areas in groundwater underlying irrigated agricultural areas in the PNSSNS Subwatershed. Therefore, these areas might not be considered high vulnerability if nitrate concentration data were available for these specific sections. Salinity is high in the Sutter Basin area due to natural conditions. Agricultural lands in this area do not use groundwater as a source for irrigation water; therefore, agricultural practices do not pose a threat for the accumulation of salts in soil root zone. No high vulnerability sections due to salinity are identified in this sub-watershed.[16]

[16] SVWQC Groundwater Assessment Report, June 2014

SECTION 7 PESTICIDE USE

PNSSNS does not have any Management Plan requirements for pesticides. Each year, the County Agricultural Commissioners submits county reports to the CA Dept. of Pesticide Regulations (DPR). This data represents what pesticides were used by industry, in what quantities and whether there are further restrictions per county on a particular pesticide use. The 2013 Pesticide Use Report was just released by DPR.

PNSSNS's area comprises all of Nevada and Placer counties and only a fractional portion of Sutter (1/5) and Sacramento (1/4) counties.Pesticide use is reported by county and therefore it is difficult to determine pesticide use for a portion of the Sacramento and Sutter counties. The 2013 Pesticide Use Reports (PUR) for both Nevada and Placer counties are included in Appendix A.

The county PUR data summarizes the pesticide use from all industries which include water treatment, water areas, right of ways, landscaping, structural pest control, non-irrigated agriculture, forestry and un-cultivated non-agriculture in addition to irrigated agriculture. The crop reports also include rice which is not part of PNSSNS. Prior to subtracting out the other industries and rice from irrigated agriculture, Nevada County ranked 47th and Placer County ranked 39th out of 58 counties in the state for pesticde use. Surfactants, mineral oil and other organics are included in the PUR totals.

In Nevada County, only 19% of registered pesticide use was from irrigated agriculture. In Placer County, only 13% of registered pesticide use was from irrigated agriculture. The PUR data does not represent any pesticide use from "over the counter" home use. PNSSNS's irrigated agriculture represents only 2.6% of the land use and lies within a heavily mixed land use watershed area.

Irrigated pasture represents over 1/3 of the PNSSNS crops and uses almost no pesticides as an indsutry. In Nevada County, pasture only used 13.94 pounds of pesticides and in Placer County, pasture used 191 pounds. Wine grapes appear to have a higher use in pesticides yet it is largely comprised of mineral oil, petroleum distillates and sulfur. Wine grapes typically utilize drip irrigation systems with minimal potential for waste discharge.

In 2005, PNSSNS had its only Chlorpyrifos exceedance and a Management Plan was completed thereafter. Many of the county Agricultural Commissioners worked closely with the growers and were concerned over the occasional discharges in the Sacramento Valley. They worked collectively with the DPR and requested the pesticide have restrictions placed upon it. As a success story with the Irrigated Lands Regulatory Program and the result of the collaboration, the chlorpyrifos insecticide will soon be a statewide restricted material, July 1, 2015. The restrictions will be that it must be used by a certified applicator, an NOI shall be filed with every application and the county Agricultural Commissioner shall place restrictions on the permit such as a water holding requirement, wind restrictions, etc.

PNSSNS has a predominance of low intensity agriculture, a high percentage of best management practices implemented to protect water quality and minimal pesticide usage. There is no trend of pesticide degradation in the PNSSNS watershed and there are no Management Plans for pesticides with PNSSNS.

SECTION 8 FARM EVALUATION PLANS

The CVRWQCB Waste Discharge Order (March 12, 2014) establishes on-farm standards for implementation of management practices that all Members must achieve. The selection of appropriate management practices must include analysis of site-specific conditions, waste types, discharge mechanisms, and crop types. Considering this, as well as the Water Code 13360 mandate that the Regional Water Board not specify the manner of compliance with its requirements, selection must be done at the farm level. Following are the performance standards that all Members must achieve:

a. minimize waste discharge offsite in surface water,
b. minimize or eliminate the discharge of sediment above background levels,
c. minimize percolation of waste to groundwater,
d. minimize excess nutrient application relative to crop consumption,
e. prevent pollution and nuisance
f. achieve and maintain water quality objectives and beneficial uses,
g. protect wellheads from surface water intrusion.

Farm Evaluation Plan surveys (FEPs) were developed by the CVRWQCB ILRP staff and the PNSSNS sub-watershed coalition distributed the surveys to its members in January 2015. In addition to a member wide mailing of Farm Evaluation Plan surveys, PNSSNS sent email reminders, spoke at agricultural meetings and hosted nine workshops for members to attend for assistance filling out the FEP surveys. The UC Cooperative Extension Farm Advisors, County Agricultural Commissioners, Natural Resource Conservation Service staff, Resource Conservation District representatives, private technical consultants and PNSSNS board members assisted with the workshops. Volunteers spent 123 hours assisting the members with the FEP surveys in addition to the PNSSNS staff time.

As a WDO requirement to distribute, complete and report compliance with the FEPs, PNSSNS spent an additional $55,000 from January through April 2015 to provide outreach, dissemination of FEPs, development of a format and database for reporting the information to SVWQC and the CVRWQCB. This was an unexpected cost to PNSSNS.

The Farm Evaluation Plans are designed to collect information from each grower as follows:

1. identification of crops grown and acreage of each crop,
2. geographical location of the member's farm by Township,
3. identification of on-farm management practices implemented to achieve the WDR farm management performance standards,
4. identification of whether or not there is movement of soil during storm events and/or during irrigation (any erosion or sediment) and a description of where within the property this occurs,
5. identification of whether water leaves the property and is conveyed downstream

and a description of where within the property this occurs (point of discharge from property),
6. location of any active wells and abandoned wells, and
7. identification of whether wellhead protection and installation of backflow prevention devices have been implemented.

Information attained from Farm Evaluations describes how each member is implementing management practices to protect water quality while trend data are collected through monitoring. Management practices designed to protect the quality of surface and groundwater should be implemented, where applicable, by members in high or low vulnerability areas. Data from the Farm Evaluations can be used to evaluate changes in surface water quality relative to changes in management practices.

The Farm Evaluation Plan Surveys contain four sections with questions specific to both surface and groundwater management practices. Growers are required to complete:

- Part A: Whole Farm Evaluation – general farm information covers all parcels farmed by the member.
- Part B: Specific Field Evaluation – information for each field or management unit.
- Part C: Irrigation Well Information - one page for each membership or farm.
- Part D: Sediment and Erosion Control Practices – information for each field or management unit

As of May 1, 2015, approximately 85% Farm Evaluation Plan surveys have been completed by PNSSNS members. The Regional Water Board extended the deadline to July 1, 2015 for all members to complete the FEPs. The FEP survey questions will only reveal the responses to those specific questions and may not represent all the management practices implemented by members.

SECTION 9 REDUCED MONITORING PLAN SUMMARY

Section 9 summarizes the PNSSNS sub-watershed's predominance of low threat of waste discharge to surface and ground water. This Plan describes the approach to implementing the Reduced Monitoring /Management Practices Verification Option Plan.

As stated in Part III.C.1.a of Attachment B of Order No. R5-2014-003, the Executive Officer may approve the reduced monitoring/management practices verification option if the following conditions are met as documented in the proposal submitted by the third party:

1. There is a low threat of pesticide discharges from irrigated lands causing or contributing to a surface water quality exceedance or trend of degradation.

As demonstrated by the Pesticide Use Report information in Section 7, the watershed areas in the Placer and Nevada counties have very low pesticide use with small acreage, low intensity agriculture and no Management Plans exist for pesticides.

2. The parameters associated with any existing management plans in the sub-watershed do not include toxicity, pesticides, copper, or nutrients.

There are no Management Plans with PNSSNS for toxicity, pesticides, copper or nutrients.

3. There is a low intensity of agricultural land use in the sub-watershed.

The irrigated agriculture in the PNSSNS area, as explained in Section 2, is only 2.6% of the land use within the watershed boundary. The membership is represented by 50% of members having ten acres or less. The largest crop in PNSSNS is irrigated pasture, a very low intensity crop. Irrigated pasture is a perennial cover crop and a best management practice which helps slow any run-off, capture any nutrients or sediment and allow water to infiltrate especially during storm events.

4. A summary of previous monitoring results that confirms a low threat to surface water quality and potential risks to water quality from irrigated agriculture.

PNSSNS has implemented the required elements of the *ILRP* since 2004. The Coalition developed a Watershed Evaluation Report (WER) that set the priorities for development and implementation of the initial Monitoring and Reporting Program Plan (MRPP). The Coalition successfully developed the MRPP, QAPP, and Management Plan as required by the *ILRP.*

As demonstrated in Section 5, there are no significant water quality exceedances for the PNSSNS sub-watershed group from 2004-2014 monitoring years. PNSSNS has

demonstrated an excellent and expedient response with its members for any constituent of concern. PNSSNS does not have a Management Plan requirement for toxicity, pesticides, copper or nutrients.

5. A description of the management practices that may be employed to prevent impacts to water quality and the extent to which those practices are being implemented, if known.

As described in Section 3, there are a minimum of thirty different management practices utilized by growers in the PNSSNS sub-watershed group to protect water quality and minimize run-off. The 2008 PNSSNS survey to its member represented that 92% of members utilize at least two management practices to protect water quality. It is expected that the results of the 2015 Farm Evaluation Plans will demonstrate the type of practices implemented although the responses will be limited to the survey questions. At the time of this Plan, 85%of PNSSNS members have completed and submitted FEPs in advance of the deadline as established by the Regional Board.

6. A description of the education and outreach strategy that will promote the implementation and maintenance of appropriate management.

PNSSNS will continue to coordinate and provide education and outreach events for its members along with NRCS, RCDs, UCCE Farm Advisors, County Agricultural Commissioners and private technical consultants as outlined in Section 4. PNSSNS will continue to hold an annual meeting for its members, promote water quality management practices and record the education and outreach events on an annual basis. PNSSNS shall report the education and outreach event information along with the sampling and monitoring information, Farm Evaluation Plan updates and verification of management practices information.

7. A discussion of the strategy for verifying Member implementation of management practices that are protective of surface water quality. The strategy must provide for field verification of at least 5% of the irrigated acreage annually, on average. A separate description must be provided for each defined area.

PNSSNS shall provide verification of management practices implemented per the Farm Evaluation Plans for an average of 5% of its acreage annually. PNSSNS shall continue to collaborate with the NRCS, RCD, UCCE Farm Advisors, County Agricultural Commissioners and private technical consultants for member education and technical assistance with the verification process. PNSSNS may seek grant funds for financial assistance, if necessary to comply with the verification requirement and costs. This will be a costly and time consuming program.

PNSSNS shall develop a site visit confirmation form for each member where an on-site verification is performed. The Verification Report will at least list members

by Township as required in the WDR and verify the management practices per management unit as reported. PNSSNS will track the verifications annually including the date and entity performing the site visits. PNSSNS is proposing to report to the Regional Board as part of the “five year monitoring report”.

As stated in Part III.C.1.a of Attachment B of Order No. R5-2014-003, upon approval of the modified monitoring approach, the third-party shall conduct assessment monitoring at approved Representative sites in the sub-watershed area(s) once in every five (5) years. An exceedance of any pesticide, toxicity, copper, or nutrient water quality objective or trigger limit will require monitoring of that constituent for an additional two years. In addition, the third-party must receive Executive Officer approval for the continuation of this option for the sub-watershed where the exceedance occurred. Any Special Project monitoring required for management plans or TMDLs for lower priority parameters (i.e., not toxicity, copper, pesticides, or nutrients) must continue.

During the same year as assessment monitoring, Farm Evaluation survey information must also be collected from Members and reported as required in the Annual Monitoring Report. In each Annual Monitoring Report, the third-party must report on the implementation of the education and outreach strategy and the management practice verification strategy.

According to Attachment A to WDO R5-2014-0030 (Pg. 9), *“the Order includes provisions to reduce the reporting requirements for small farming operations and areas of low vulnerability”*.

PNSSNS is requesting approval of the Reduced Monitoring Plan proposal and has included the following requests:

1. The “Annual Monitoring Report” be changed to a “five year report” to coincide with sampling, monitoring and analysis along with updating any Farm Evaluation Plans and providing a detailed report for the education and outreach performed annually by PNSSNS. The information would be tracked annually, yet reported every five years. This is an effort to reduce paperwork and time for the Regional Board staff and reduce labor and costs for the sub-watershed group.

2. PNSSNS is currently sampling and monitoring water quality with its Representative sampling site Coon Creek @ Brewer Road for the 2015 monitoring season. PNSSNS is requesting approval of the Reduced Monitoring and Management Practices Verification Option Plan and upon approval by the CVRWQCB Executive Officer, the next sampling and monitoring year would be in 2019 / 2020.

3. As stated in Section 5 Water Quality Monitoring, since 2013, PNSSNS has requested the removal of the Coon Creek @ Striplin Road sampling site from the monitoring requirements as it was erroneously thought to be a lower section of Coon Creek. The Coon Creek at Striplin Road monitoring site has been confirmed to be a section of Ping Slough with no

hydrologic connectivity to Coon Creek or a representative drainage from the PNSSNS area. This site is drained from the Butte-Yuba-Sutter sub-watershed area and is duplicative of their TMDL site. Currently, PNSSNS provides sampling and monitoring at this site four times per year.

4. Management Plan Practices Verification with member's acreage shall achieve a minimum of 5% field verification, on average per year. PNSSNS is requesting the results are tracked on an annual basis and submitted every five years to CVRWQCB as part of the proposed "five year report".

5. No groundwater monitoring required as the majority of the growers are within the fractured rock system of the Sierra Foothills, use minimal nutrient inputs, very low use of pesticides and/or the watershed boundary does not contain any high vulnerability areas (HVAs) for pesticides, nutrients or salts.

6. PNSSNS assumes it shall continue to report membership status annually to CVRWQCB and pay the State Water Resources Control Board fees per enrolled acreage; therefore clarification is requested under the Reduced Monitoring Plan program.

PNSSNS sub-watershed group of members have been sampling and monitoring for eleven years in addition to the current 2014/ 2015 monitoring year. There are seven disadvantaged communities within the PNSSNS agricultural areas and the cost of the ILRP requirements is of utmost concern. The majority of members have low value crops and receive minimal income from agriculture. The addition of the new WDO requirements has increased the cost to PNSSNS by $55,000 due to the increased work for the Farm Evaluation Plans to date.[17]

PNSSNS has described its low percentage of land use within the watershed (only 2.6%) and its predominance of low intensity crops, limited pesticide use and 50% of members having only ten acres or less. It has been demonstrated through the sampling and monitoring that PNSSNS has statistically significant good water quality.

[17] PNSSNS cost analysis Jan-April 2015 for the outreach and assistance with the Farm Evaluation Plans in addition to developing the format and database for reporting to SVWQC and CVRWQCB.

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APPENDIX A

PESTICDE USE REPORTS

NEVADA COUNTY

PLACER COUNTY

Department of Pesticide Regulation
2013 Annual Statewide Pesticide Use Report Indexed by Commodity
Nevada County

Commodity Chemical	Pounds Applied	Agricultural Applications	Amount Treated	Unit Type
APPLE				
CODLING MOTH GRANULOSIS VIRUS	< 0.01	4	20.00	A
COPPER HYDROXIDE	7.66	2	1.00	A
COPPER OXIDE (OUS)	7.55	1	5.00	A
CYPRODINIL	0.33	3	1.50	A
DIMETHYLPOLYSILOXANE	0.16	7	3.50	A
ESFENVALERATE	0.07	4	2.25	A
LIME-SULFUR	30.79	2	10.00	A
MINERAL OIL	90.48	3	6.25	A
PETROLEUM OIL, UNCLASSIFIED	7.07	2	1.00	A
PHOSMET	2.00	2	1.25	A
POLYOXYETHYLENE POLYOXYPROPYLENE	0.64	7	3.50	A
Site Total	146.74	30		
BLACKBERRY				
POTASSIUM BICARBONATE	0.43		4.00	A
Site Total	0.43			
CHRISTMAS TREE				
GLYPHOSATE, ISOPROPYLAMINE SALT	23.22		7.50	A
ORYZALIN	20.48		7.50	A
OXYFLUORFEN	7.68		7.50	A
Site Total	51.37			
DITCH BANK				
GLYPHOSATE, ISOPROPYLAMINE SALT	7.34		34.00	A
Site Total	7.34			
FOREST, TIMBERLAND				
AMMONIUM SULFATE	17.37	2	235.50	A
CITRIC ACID	0.97	2	235.50	A
GLYPHOSATE, ISOPROPYLAMINE SALT	4,392.46	47	1,804.40	A
GLYPHOSATE, POTASSIUM SALT	3,474.85	44	1,453.10	A
2-(3-HYDROXYPROPYL)-HEPTA-METHYL TRISILOXANE, ETHOXYLATED, ACETATE	308.55	23	787.00	A
IMAZAPYR, ISOPROPYLAMINE SALT	198.50	21	505.15	A
METHYLATED SOYBEAN OIL	3,075.82	76	2,789.45	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	572.73	76	2,789.45	A
OLEIC ACID, METHYL ESTER	925.66	23	787.00	A
PHOSPHORIC ACID	5.37	2	235.50	A
POLYACRYLIC POLYMER	0.49	2	235.50	A
POLYALKENE OXIDE MODIFIED HEPTAMETHYL TRISILOXANE	133.13	69	2,674.90	A
STRYCHNINE	0.28	3	114.90	A
TRICLOPYR, BUTOXYETHYL ESTER	352.07	7	416.50	A
Site Total	13,458.25	223		
GRAPE				
FENARIMOL	0.04	2	1.00	A
KRESOXIM-METHYL	0.15	2	1.00	A
4-NONYLPHENOL, FORMALDEHYDE RESIN, PROPOXYLATED	0.16	3	1.50	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	0.20	3	1.50	A
SULFUR	2.50	2	1.00	A

Department of Pesticide Regulation
2013 Annual Statewide Pesticide Use Report Indexed by Commodity
Nevada County

Commodity Chemical	Pounds Applied	Agricultural Applications	Amount Treated	Unit Type
Site Total	3.05	9		
GRAPE, WINE				
ABAMECTIN	0.90	1	62.00	A
ALPHA-ALKYL (C9-C11)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	45.01	18	162.30	A
ALPHA-PINENE BETA-PINENE COPOLYMER	47.66	2	124.00	A
ALKYL (C8,C10) POLYGLUCOSIDE	2.20	1	62.00	A
AMMONIUM NITRATE	1.06	2	64.00	A
AMMONIUM PROPIONATE	0.71	1	4.00	A
AMMONIUM SULFATE	2.65	3	68.00	A
AZOXYSTROBIN	0.15	1	1.00	A
BACILLUS PUMILUS, STRAIN QST 2808	< 0.01	1	0.25	A
N,N-BIS-(2-OMEGA-HYDROXYPOLY(OXYETHYLENE)ETHYL) ALKYLAMINE, ALKYL DERIVED FROM TALLOW FATTY ACIDS	2.01	2	124.00	A
BOSCALID	3.50	4	23.72	A
BUTYL ALCOHOL	0.53	4	13.25	A
CHROMOBACTERIUM SUBTSUGAE STRAIN PRAA4-1	6.90	3	17.60	A
CITRIC ACID	0.35	1	4.00	A
COPPER HYDROXIDE	26.96	1	62.00	A
COPPER OXIDE (OUS)	7.61	4	12.50	A
CYPRODINIL	1.57	1	4.00	A
DIETHYLENE GLYCOL	1.06	2	30.40	A
DIFENOCONAZOLE	0.55	1	4.00	A
DIMETHYLPOLYSILOXANE	0.21	21	265.05	A
DINOSEB	0.57	2	17.00	A
FENARIMOL	0.07	1	1.90	A
FLUMIOXAZIN	0.54	4	6.42	A
GLYPHOSATE, ISOPROPYLAMINE SALT	13.05	6	29.25	A
GLYPHOSATE, POTASSIUM SALT	34.89	6	74.25	A
IMIDACLOPRID	0.23	1	6.00	A
IPRODIONE	1.50	1	4.00	A
ISOPROPYL ALCOHOL	1.97	8	148.00	A
KRESOXIM-METHYL	13.93	3	93.00	A
METHYL SILICONE RESINS	0.02	6	11.40	A
METRAFENONE	18.19	1	62.00	A
MINERAL OIL	806.68	41	237.95	A
MODIFIED PHTHALIC GLYCEROL ALKYD RESIN	3.90	5	20.00	A
MYCLOBUTANIL	1.27	5	13.44	A
4-NONYLPHENOL, FORMALDEHYDE RESIN, PROPOXYLATED	1.87	8	25.16	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	35.30	22	216.81	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE), PHOSPHATE ESTER	0.51	1	4.00	A
ORYZALIN	2.08	1	4.00	A
OXYFLUORFEN	7.69	2	66.00	A
PETROLEUM DISTILLATES, REFINED	3,743.66	33	757.80	A
PHOSPHORIC ACID	0.07	1	4.00	A
POLYALKENE OXIDE MODIFIED HEPTAMETHYL TRISILOXANE	0.43	8	35.00	A
POLYETHYLENE GLYCOL	12.47	8	148.00	A
POLYPROPYLENE GLYCOL	0.02	6	11.40	A
POTASSIUM BICARBONATE	61.50	4	15.00	A
PROPYLENE GLYCOL	2.12	12	71.30	A
PYRACLOSTROBIN	1.78	4	23.72	A
PYRETHRINS	2.52	13	46.70	A

Department of Pesticide Regulation
2013 Annual Statewide Pesticide Use Report Indexed by Commodity
Nevada County

Commodity Chemical		Pounds Applied	Agricultural Applications	Amount Treated	Unit Type
QUINOXYFEN		2.16	4	33.00	A
REYNOUTRIA SACHALINENSIS		0.78	3	30.86	A
SODIUM POLYACRYLATE		0.02	1	4.00	A
SPIROTETRAMAT		0.94	1	62.00	A
STRYCHNINE		0.01	1	8.50	A
STYRENE BUTADIENE COPOLYMER		1.34	9	36.90	A
SULFUR		2,239.63	88	590.85	A
TALL OIL FATTY ACIDS		2.62	4	154.40	A
TEBUCONAZOLE		2.64	3	28.00	A
TETRACONAZOLE		7.35	4	214.00	A
TRIFLOXYSTROBIN		16.59	6	185.50	A
TRIFLUMIZOLE		11.65	1	62.00	A
ALPHA-2,6,8-TRIMETHYL-4-NONYLOXY-OMEGA-HYDROXYPOLY(OXYETHYLENE)		0.59	8	35.00	A
TRISODIUM PHOSPHATE		0.02	1	4.00	A
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)		0.05	1	1.90	A
Site Total		7,206.81	314		
LANDSCAPE MAINTENANCE					
ACEPHATE		1.52			
ACID BLUE 9, DIAMMONIUM SALT		7.56			
ALUMINUM PHOSPHIDE		0.11			
AMINOPYRALID, TRIISOPROPANOLAMINE SALT		15.76			
AZADIRACHTIN		< 0.01			
AZOXYSTROBIN		5.93			
BENSULIDE		35.79			
BIFENTHRIN		0.45			
BOSCALID		0.82			
BROMETHALIN		< 0.01			
CARBARYL		< 0.01			
CARFENTRAZONE-ETHYL		0.24			
CHLORANTRANILIPROLE		6.72			
CHLOROPHACINONE		< 0.01			
CHLOROTHALONIL		376.48			
		211.25	7	21.25	A
Total Pounds On This Chemical	587.73				
CLOPYRALID, MONOETHANOLAMINE SALT		1.44			
CLOTHIANIDIN		0.55			
COPPER ETHANOLAMINE COMPLEXES, MIXED		736.17			
COPPER ETHYLENEDIAMINE COMPLEX		324.82			
COPPER HYDROXIDE		1.38			
COPPER TRIETHANOLAMINE COMPLEX		366.66			
BETA-CYFLUTHRIN		0.23			
CYPERMETHRIN		0.15			
2,4-D, DIMETHYLAMINE SALT		17.19			
2,4-D, 2-ETHYLHEXYL ESTER		8.21			
DICAMBA		0.50			
DICAMBA, DIMETHYLAMINE SALT		1.56			
DINOTEFURAN		0.54			
DIPHACINONE		< 0.01			
DIQUAT DIBROMIDE		1,258.69			
DITHIOPYR		52.65			
ENDOTHALL, DIPOTASSIUM SALT		3,166.51			
ETHEPHON		76.92			
		29.94	3	9.00	A
Total Pounds On This Chemical	106.87				

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Commodity Chemical		Pounds Applied	Agricultural Applications	Amount Treated	Unit Type
ETHYLENE GLYCOL MONOMETHYL ETHER		0.09			
FIPRONIL		0.04			
FLUAZIFOP-P-BUTYL		0.02			
FLUDIOXONIL		3.30			
		2.25	1	3.25	A
Total Pounds On This Chemical	5.55				
FLUMIOXAZIN		4.78			
FLUOXASTROBIN		< 0.01			
FLURIDONE		46.55			
FLUROXYPYR		0.15			
FLUTOLANIL		20.30			
FORMIC ACID		10.95			
GLYPHOSATE, DIMETHYLAMINE SALT		235.68			
GLYPHOSATE, ISOPROPYLAMINE SALT		1,046.72			
		0.48	1	100.00	A
Total Pounds On This Chemical	1,047.20				
GLYPHOSATE, MONOAMMONIUM SALT		2.66			
HALOSULFURON-METHYL		0.01			
IMAZAMOX, AMMONIUM SALT		6.88			
IMAZAPYR, ISOPROPYLAMINE SALT		0.48			
IMIDACLOPRID		9.38			
INDOXACARB		0.30			
IRON PHOSPHATE		< 0.01			
ISOOCTYL PHTHALATE		0.09			
ISOPROPYL ALCOHOL		0.07			
ISOPROPYLAMINE DODECYLBENZENE SULFONATE		0.02			
ISOXABEN		2.85			
LECITHIN		0.13			
LIME-SULFUR		0.76			
MANCOZEB		12.00			
MCPA		1.31			
MCPA, DIMETHYLAMINE SALT		< 0.01			
MCPP, POTASSIUM SALT		4.45			
MCPP-P, DIMETHYLAMINE SALT		4.60			
MECOPROP-P		1.77			
METHYLATED SOYBEAN OIL		45.95			
MINERAL OIL		13.75			
MORPHOLINE		0.04			
MSMA		30.07			
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		7.89			
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE), BRANCHED		0.06			
OLEIC ACID		0.12			
OLEIC ACID, METHYL ESTER		16.02			
ORYZALIN		18.24			
PACLOBUTRAZOL		4.92			
PCNB		1,768.68			
PENDIMETHALIN		12.37			
PENOXSULAM		1.23			
PERMETHRIN		27.16			
PETROLEUM OIL, PARAFFIN BASED		3.04			
PETROLEUM OIL, UNCLASSIFIED		14.38			
PHOSPHORIC ACID, MONOPOTASSIUM SALT		8.00			
POLYALKENE OXIDE MODIFIED HEPTAMETHYL TRISILOXANE		0.42			
POLYOXYETHYLENE SORBITAN MONOOLEATE		0.07			
POLYOXYETHYLENE SORBITAN TRIOLEATE		0.49			

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PRODIAMINE		0.11			
PROPICONAZOLE		40.77			
		18.58	7	21.25	A
Total Pounds On This Chemical	59.36				
PYRACLOSTROBIN		1.90			
PYRAFLUFEN-ETHYL		0.04			
QUINCLORAC, DIMETHYLAMINE SALT		0.38			
SODIUM DIISOOCTYLSULFOSUCCINATE		0.01			
SPINOSAD		< 0.01			
TALL OIL FATTY ACIDS		1.09			
TARTRAZINE		0.62			
THIOPHANATE-METHYL		14.98	2	3.25	A
		2.35			
Total Pounds On This Chemical	17.33				
THYMOL		27.50			
TRICLOPYR, BUTOXYETHYL ESTER		20.92			
TRICLOPYR, TRIETHYLAMINE SALT		29.33			
TRIFLURALIN		1.48			
TRINEXAPAC-ETHYL		23.77			
		0.50	3	9.00	A
Total Pounds On This Chemical	24.27				
TRITICONAZOLE		2.28			
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)		0.06			
VINCLOZOLIN		2.70			
ZINC PHOSPHIDE		4.33			
Site Total		10,292.45	24		
N-GRNHS FLOWER					
CARFENTRAZONE-ETHYL		0.77		216.50	A
CHLOROTHALONIL		14.98		3.00	A
2,4-D, 2-ETHYLHEXYL ESTER		8.56		210.00	A
DICAMBA		0.53		210.00	A
DITHIOPYR		17.50		33.00	A
ETHEPHON		9.98		3.50	A
FLUTOLANIL		4.53		3.50	A
GLYPHOSATE, ISOPROPYLAMINE SALT		1.60		15.00	A
IPRODIONE		5.30		3.00	A
MECOPROP-P		1.95		210.00	A
MESOTRIONE		1.50		42.00	A
PRODIAMINE		39.41		33.00	A
TRINEXAPAC-ETHYL		1.63		9.50	A
Site Total		108.23			
N-GRNHS TRANSPLANTS					
GLYPHOSATE, ISOPROPYLAMINE SALT		0.31	6	1.98	A
ORYZALIN		0.01	1	0.68	A
OXYFLUORFEN		0.02	1	0.68	A
Site Total		0.34	7		
N-OUTDR TRANSPLANTS					
GLYPHOSATE, ISOPROPYLAMINE SALT		1.42	12	12.00	A
ORYZALIN		0.02	2	2.00	A
OXYFLUORFEN		0.04	2	2.00	A
Site Total		1.48	14		

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PASTURELAND				
AMINOPYRALID, TRIISOPROPANOLAMINE SALT	2.11		16.50	A
GLYPHOSATE, POTASSIUM SALT	8.28		9.00	A
LECITHIN	0.86		4.00	A
METHYLATED SOYBEAN OIL	0.43		4.00	A
TRICLOPYR, BUTOXYETHYL ESTER	0.79		42.00	A
TRICLOPYR, TRIETHYLAMINE SALT	1.05		2.00	A
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)	0.43		4.00	A
Site Total	13.94			
PEACH				
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES	3.67	3	4.68	A
COPPER OXIDE (OUS)	50.51	4	5.34	A
Site Total	54.18	7		
PUBLIC HEALTH				
BACILLUS THURINGIENSIS, SUBSP. ISRAELENSIS, STRAIN AM 65-52	0.20			
S-METHOPRENE	0.18			
MINERAL OIL	2.44			
PIPERONYL BUTOXIDE	0.36			
PIPERONYL BUTOXIDE, OTHER RELATED	0.09			
RESMETHRIN	0.15			
Site Total	3.41			
RANGELAND				
AMINOPYRALID, TRIISOPROPANOLAMINE SALT	0.27		15.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT	26.19		647.00	A
TRICLOPYR, BUTOXYETHYL ESTER	49.79		859.00	A
Site Total	76.25			
RIGHTS OF WAY				
ACEPHATE	5.17			
ALPHA-ALKYL (C8-C18)-OMEGA-HYDROXYPOLY (OXYETHYLENE) POLY(OXYPROPYLENE)	0.01			
ALPHA-ALKYL (C9-C11)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	92.70			
AMINOPYRALID, TRIISOPROPANOLAMINE SALT	29.79			
AMMONIUM PROPIONATE	2.41			
AMMONIUM SULFATE	0.60			
BENZOIC ACID	1.91			
BORAX	21.32			
CHLORSULFURON	0.16			
CITRIC ACID	1.20			
CLOPYRALID, MONOETHANOLAMINE SALT	24.43			
COPPER ETHANOLAMINE COMPLEXES, MIXED	5,263.21			
COPPER ETHYLENEDIAMINE COMPLEX	1,731.83			
COPPER HYDROXIDE	1.52			
COPPER TRIETHANOLAMINE COMPLEX	1,954.87			
DIETHYLENE GLYCOL	40.34			
DIMETHYL ALKYL TERTIARY AMINES	2.08			
DIMETHYLPOLYSILOXANE	1.11			
DITHIOPYR	68.55			
ENDOTHALL, DIPOTASSIUM SALT	257.00			

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FATTY ACIDS, MIXED		80.98			
FLUAZIFOP-P-BUTYL		0.47			
FLUMIOXAZIN		7.46			
GLYPHOSATE, DIMETHYLAMINE SALT		552.95			
GLYPHOSATE, ISOPROPYLAMINE SALT		2,185.70			
		2.05	1	10,000.00	S
Total Pounds On This Chemical	2,187.75				
GLYPHOSATE, POTASSIUM SALT		113.98			
2-(3-HYDROXYPROPYL)-HEPTA-METHYL TRISILOXANE, ETHOXYLATED, ACETATE		5.59			
ISOPROPYLAMINE DODECYLBENZENE SULFONATE		< 0.01			
ISOXABEN		46.03			
KEROSENE		3.69			
LECITHIN		1.02			
METAM-SODIUM		68.10			
METHYLATED SOYBEAN OIL		154.45			
MINERAL OIL		741.63			
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		165.82			
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE), PHOSPHATE ESTER		1.75			
N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE		< 0.01			
OLEIC ACID, METHYL ESTER		62.07			
ORYZALIN		400.74			
OXYFLUORFEN		48.75			
PETROLEUM DISTILLATES		3.25			
PETROLEUM OIL, PARAFFIN BASED		0.38			
PHENOTHRIN		< 0.01			
PIPERONYL BUTOXIDE		< 0.01			
POLYACRYLAMIDE POLYMER		< 0.01			
POLYALKENE OXIDE MODIFIED HEPTAMETHYL TRISILOXANE		0.99			
POLYOXYETHYLENE SORBITAN MONOOLEATE		< 0.01			
POLYOXYETHYLENE SORBITAN TRIOLEATE		0.06			
PRODIAMINE		172.25			
PROPOXUR		0.06			
PYRETHRINS		< 0.01			
SODIUM CARBONATE PEROXYHYDRATE		21.68			
SODIUM POLYACRYLATE		0.06			
SULFOMETURON-METHYL		3.13			
TALL OIL FATTY ACIDS		0.01			
TETRAMETHRIN		< 0.01			
TRICLOPYR, BUTOXYETHYL ESTER		11.07			
TRICLOPYR, TRIETHYLAMINE SALT		73.83			
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)		105.64			
Site Total		14,535.88	1		
STONE FRUIT					
LIME-SULFUR		6.14		0.13	A
Site Total		6.14			
STRUCTURAL PEST CONTROL					
ABAMECTIN		< 0.01			
ABAMECTIN, OTHER RELATED		< 0.01			
ACETAMIPRID		4.98			
D-TRANS ALLETHRIN		0.02			
AMINOPYRALID, TRIISOPROPANOLAMINE SALT		0.43			

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4-AMINOPYRIDINE	< 0.01			
BIFENTHRIN	220.61			
BORAX	0.10			
BORIC ACID	71.31			
BRODIFACOUM	< 0.01			
BROMACIL	< 0.01			
BROMADIOLONE	0.05			
BROMETHALIN	< 0.01			
CHLORFENAPYR	5.87			
CHLORSULFURON	0.17			
CHOLECALCIFEROL	< 0.01			
COPPER NAPHTHENATE	2.10			
CYFLUTHRIN	30.89			
BETA-CYFLUTHRIN	28.37			
CYPERMETHRIN	29.57			
(S)-CYPERMETHRIN	< 0.01			
DDVP	0.08			
DDVP, OTHER RELATED	< 0.01			
DELTAMETHRIN	12.38			
DIATOMACEOUS EARTH	0.63			
DIETHYLENE GLYCOL	< 0.01			
DIFETHIALONE	< 0.01			
DIMETHYLPOLYSILOXANE	< 0.01			
DINOTEFURAN	0.17			
DIPHACINONE	< 0.01			
DIPHACINONE, SODIUM SALT	< 0.01			
DISODIUM OCTABORATE TETRAHYDRATE	161.78			
DITHIOPYR	0.25			
DIURON	< 0.01			
ESFENVALERATE	1.00			
ETOFENPROX	0.05			
FATTY ACIDS, MIXED	0.01			
FIPRONIL	43.47			
FLUMIOXAZIN	0.35			
GLYPHOSATE, ISOPROPYLAMINE SALT	12.93			
HYDRAMETHYLNON	0.38			
HYDROPRENE	0.16			
IMIDACLOPRID	63.17			
INDAZIFLAM	0.51			
INDOXACARB	3.03			
IRON PHOSPHATE	< 0.01			
ISOPROPYLAMINE DODECYLBENZENE SULFONATE	< 0.01			
ISOXABEN	0.66			
LAMBDA-CYHALOTHRIN	1.90			
MALATHION	0.07			
METHOPRENE	< 0.01			
S-METHOPRENE	0.02			
MUSCALURE	< 0.01			
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	0.02			
N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE	0.69			
PERMETHRIN	42.62			
PETROLEUM OIL, PARAFFIN BASED	0.19			
PHENOTHRIN	0.03			
PHENYLETHYL PROPIONATE	3.01			
PIPERONYL BUTOXIDE	54.10			
PIPERONYL BUTOXIDE, OTHER RELATED	13.40			

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Commodity Chemical	Pounds Applied	Agricultural Applications	Amount Treated	Unit Type
POLYACRYLAMIDE POLYMER	0.33			
POLYBUTENES	0.24			
POLYOXYETHYLENE SORBITAN MONOOLEATE	< 0.01			
POLYOXYETHYLENE SORBITAN TRIOLEATE	0.03			
PRALLETHRIN	0.03			
PROPOXUR	0.03			
PYRETHRINS	14.10			
PYRIPROXYFEN	0.43			
SILICA AEROGEL	5.86			
SULFAQUINOXALINE	< 0.01			
SULFURYL FLUORIDE	330.81			
TETRAMETHRIN	0.03			
THIAMETHOXAM	0.44			
THYME	5.02			
TRICLOPYR, TRIETHYLAMINE SALT	< 0.01			
TRIFLURALIN	2.65			
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)	0.02			
WARFARIN	< 0.01			
ZINC PHOSPHIDE	< 0.01			
Site Total	1,171.59			
UNCULTIVATED AG				
GLYPHOSATE, ISOPROPYLAMINE SALT	3.99		4.90	A
TRICLOPYR, BUTOXYETHYL ESTER	3.70		20.00	A
Site Total	7.69			
UNCULTIVATED NON-AG				
AMINOPYRALID, TRIISOPROPANOLAMINE SALT	2.98	1	21.00	A
2,4-D, DIMETHYLAMINE SALT	0.95		3.00	A
DIMETHYLPOLYSILOXANE	0.16	1	12.00	A
FLUAZIFOP-P-BUTYL	0.38		100.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT	7.16		112.90	A
OLEIC ACID, METHYL ESTER	2.58		102.00	A
POLYOXYETHYLENE POLYOXYPROPYLENE	0.64	1	12.00	A
TALL OIL FATTY ACIDS	0.51		2.00	A
TRICLOPYR, BUTOXYETHYL ESTER	2.63		10.10	A
TRICLOPYR, TRIETHYLAMINE SALT	25.30		24.00	A
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)	0.51		2.00	A
Site Total	43.81	2		
VEGETABLE				
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN HD-1	0.06	3	30,000.00	S
PYRETHRINS	0.99	12	102,900.00	S
Site Total	1.06	15		
VEGETABLES, LEAFY				
IRON PHOSPHATE	0.09	3	30,000.00	S
PYRETHRINS	0.04	5	86,000.00	S
Site Total	0.13	8		
VERTEBRATE CONTROL				
BROMADIOLONE	< 0.01			
DIPHACINONE	< 0.01			

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Site Total		< 0.01			
WATER (INDUSTRIAL)					
SODIUM BROMIDE		49.81		1.00	A
SODIUM HYPOCHLORITE		34.32		1.00	A
Site Total		84.14			
WATER AREA					
ACID BLUE 9, DIAMMONIUM SALT		3.49		3.00	A
COPPER ETHANOLAMINE COMPLEXES, MIXED		74.17	3	39.30	A
COPPER ETHYLENEDIAMINE COMPLEX		0.19		0.50	A
COPPER SULFATE (PENTAHYDRATE)		56.43		2.70	A
COPPER TRIETHANOLAMINE COMPLEX		0.21		0.50	A
DIQUAT DIBROMIDE		42.24	2	120.48	A
		0.52		3,000.00	S
Total Pounds On This Chemical	42.77				
ENDOTHALL, DIPOTASSIUM SALT		78.26		157.00	A
ENDOTHALL, MONO [N,N-DIMETHYL ALKYLAMINE] SALT		0.56		0.33	A
FLURIDONE		2.79		2.25	A
GLYPHOSATE, ISOPROPYLAMINE SALT		13.06		47.25	A
LECITHIN		0.05		0.33	A
METHYLATED SOYBEAN OIL		0.02		0.33	A
SODIUM CARBONATE PEROXYHYDRATE		0.07		0.25	A
TARTRAZINE		0.29		3.00	A
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)		0.02		0.33	A
Site Total		272.39	5		
Nevada County Total		47,547.10	659		

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Commodity Chemical	Pounds Applied	Agricultural Applications	Amount Treated	Unit Type
ALFALFA				
CHLORPYRIFOS	139.59	7	298.00	A
HEXAZINONE	151.67	7	298.00	A
LAMBDA-CYHALOTHRIN	7.15	7	298.00	A
PARAQUAT DICHLORIDE	200.46	7	298.00	A
PENDIMETHALIN	846.59	7	298.00	A
Site Total	1,345.45	28		
ALMOND				
Z-8-DODECENOL	< 0.01	2	0.30	A
E-8-DODECENYL ACETATE	< 0.01	2	0.30	A
Z-8-DODECENYL ACETATE	< 0.01	2	0.30	A
GLYPHOSATE, ISOPROPYLAMINE SALT	0.41	1	0.25	A
Site Total	0.41	3		
ANIMAL PREMISE				
BORIC ACID	4,704.00	13	1,066,750.00	S
POTASSIUM PEROXYMONOSULFATE	316.87	13	944,000.00	S
SODIUM CHLORIDE	22.20	13	944,000.00	S
Site Total	5,043.07	26		
APPLE				
	0.20	1	10.00	A
	0.18	1	1.50	A
	1.60	1	1.50	A
	0.76	1	1.50	A
	1.53	1	1.50	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN				
	0.05	1	0.12	A
	1.98	3	17.00	U
	< 0.01	1	1.50	A
	8.05	5	66.00	A
	10.10	1	10.00	A
	< 0.01	2	1.50	A
	0.77	2	10.00	U
	9.98	2	1.75	A
	0.02	1	2.00	U
10.01				
	0.10	1	0.12	A
	12.63	2	0.50	A
	0.01	6	2.36	A
	0.11	3	2.40	A
	0.56	2	10.10	A
	< 0.01	1	35.00	U
0.57				
	0.38	1	1.50	A
	1.45	1	1.50	A
	0.09	2	11.00	U
1.54				
	0.05	5	0.86	A
	0.06	3	2.40	A
	405.00	7	90.00	A
	0.03	1	0.12	A
	1,337.98	6	91.50	A
	3.15	2	10.00	U

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Commodity / Chemical		Pounds Applied	Agricultural Applications	Amount Treated	Unit Type
Total Pounds On This Chemical	1,341.13				
MYCLOBUTANIL		7.80	3	38.00	A
MYRISTYL ALCOHOL		0.01	3	2.40	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPO	LY				
(OXYETHYLENE)		0.64	6	1.11	A
OLEIC ACID, METHYL ESTER		37.90	1	10.00	A
ORYZALIN		3.12	1	1.50	A
OXYFLUORFEN		0.69	1	1.50	A
PETROLEUM DISTILLATES		0.38	1	0.25	A
PETROLEUM OIL, UNCLASSIFIED		2.58	1	0.12	A
PHOSMET		55.23	7	20.86	A
		1.24	7	34.00	U
Total Pounds On This Chemical	56.46				
POLYETHYLENE GLYCOL		0.30	5	0.86	A
POLYOXYETHYLENE SOYBEAN OIL FATTY ACID ESTE	R	0.06	1	1.50	A
PSEUDOMONAS FLUORESCENS, STRAIN A506		7.55	3	30.00	A
SPINETORAM		3.94	2	36.00	A
STREPTOMYCIN SULFATE		11.90	11	40.84	A
TALL OIL		< 0.01	1	1.50	A
TRIFLOXYSTROBIN		< 0.01	1	0.12	A
Site Total		1,930.21	94		
APRICOT					
ACETAMIPRID		0.12	1	1.00	A
CARBARYL		0.27	2	6.00	U
COPPER AMMONIUM COMPLEX		0.13	2	5.00	U
COPPER HYDROXIDE		6.63	3	1.50	A
		0.19	2	6.00	U
Total Pounds On This Chemical	6.81				
COPPER OXIDE (OUS)		0.25	1	0.30	A
COPPER OXYCHLORIDE		0.54	2	0.50	A
Z-8-DODECENOL		< 0.01	2	0.80	A
E-8-DODECENYL ACETATE		< 0.01	2	0.80	A
Z-8-DODECENYL ACETATE		< 0.01	2	0.80	A
ESFENVALERATE		< 0.01	1	1.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT		0.05	2	6.00	U
MINERAL OIL		34.78	1	1.00	A
		0.53	2	5.00	U
Total Pounds On This Chemical	35.31				
PYRETHRINS		< 0.01	1	0.30	A
REYNOUTRIA SACHALINENSIS		0.07	1	0.30	A
Site Total		43.57	21		
BEEHIVE					
AMITRAZ		1.10	1	32.00	A
FORMIC ACID		0.21	1	3.00	A
THYMOL		1.65	2	54.00	U
Site Total		2.96	4		
BLACKBERRY					
SPINETORAM		0.19	1	3.00	A
Site Total		0.19	1		
BROCCOLI					
BACILLUS THURINGIENSIS (BERLINER)		0.04	2	0.20	A

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BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		2.58	6	4.09	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL		13.3	5	4.50	A
IMIDACLOPRID		7	2	0.65	A
MINERAL OIL		0.03	3	2.50	A
POTASH SOAP		14.1	4	3.00	A
PYRETHRINS		1	3	0.12	A
		9.04			
		0.05			
Site Total		39.23	25		
BRUSSELS SPROUT					
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		1.24	3	2.30	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL		12.4	6	4.00	A
MINERAL OIL		2	2	1.50	A
POTASH SOAP		8.82	4	2.50	A
		8.59			
Site Total		31.07	15		
CABBAGE					
BACILLUS THURINGIENSIS (BERLINER)		0.08	3	0.30	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		1.14	5	1.78	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL		8.21	5	2.00	A
IMIDACLOPRID		0.02	2	0.33	A
MINERAL OIL		8.82	2	1.50	A
POTASH SOAP		2.93	4	0.90	A
PYRETHRINS		0.07	2	0.20	A
Site Total		21.27	23		
CAULIFLOWER					
BACILLUS THURINGIENSIS (BERLINER)		0.06	2	0.20	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		2.10	6	3.55	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL		13.37	5	4.50	A
IMIDACLOPRID		0.02	2	0.33	A
MINERAL OIL		14.11	3	2.50	A
POTASH SOAP		7.77	4	2.50	A
PYRETHRINS		0.04	3	0.12	A
Site Total		37.48	25		
CHERRY					
CARBARYL		1.18	2	6.00	U
COPPER AMMONIUM COMPLEX		0.13	2	4.00	U
COPPER HYDROXIDE		1.93	1	1.00	A
		0.03	1	3.00	U
Total Pounds On This Chemical	1.96				
COPPER OXIDE (OUS)		0.42	1	0.50	A
COPPER SULFATE (BASIC)		0.07	1	0.02	A
DIAZINON		0.05	1	0.10	A
DIMETHYLPOLYSILOXANE		< 0.01	3	0.30	A
E,E-8,10-DODECADIEN-1-OL		< 0.01	1	0.03	A
ESFENVALERATE		0.10	2	2.25	A
FENPROPATHRIN		0.47	1	2.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT		0.03	2	4.00	U
GLYPHOSATE, POTASSIUM SALT		0.43	2	0.14	A
ISOPROPYL ALCOHOL		0.02	3	0.30	A

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LAURYL ALCOHOL		< 0.01	1	0.03	A
MINERAL OIL		0.53	2	4.00	U
MYRISTYL ALCOHOL		< 0.01	1	0.03	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		0.18	3	0.30	A
PETROLEUM OIL, UNCLASSIFIED		1.77	1	2.00	U
		0.06	1	0.02	A
Total Pounds On This Chemical	1.83				
POLYETHYLENE GLYCOL		0.10	3	0.30	A
PYRETHRINS		0.02	1	0.50	A
REYNOUTRIA SACHALINENSIS		0.11	1	0.50	A
SPINETORAM		0.05	3	0.30	A
Site Total		7.69	29		
CHESTNUT					
GLYPHOSATE, POTASSIUM SALT		0.73	2	0.07	A
Site Total		0.73	2		
CITRUS					
ALUMINUM PHOSPHIDE		3.75	1	5.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT		25.43	8	63.10	A
GLYPHOSATE, POTASSIUM SALT		3.88	2	3.00	A
ISOPROPYL ALCOHOL		0.24	2	3.00	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		0.66	1	1.50	A
OLEIC ACID		0.02	1	1.50	A
PETROLEUM OIL, UNCLASSIFIED		294.59	2	13.00	A
TALL OIL		0.05	1	1.50	A
ALPHA-[PARA-(1,1,3,3-TETRAMETHYLBUTYL)PHENYL]-OMEGA-HYDROXYPOLY(OXYETHYLENE)		0.35	1	1.50	A
Site Total		328.97	15		
COLLARD					
BACILLUS THURINGIENSIS (BERLINER)		0.08	3	0.30	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		1.78	4	2.45	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN HD-1		0.10	1	1.00	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL		16.43	7	4.90	A
MINERAL OIL		14.11	3	2.50	A
POTASH SOAP		7.76	3	2.30	A
PYRETHRINS		0.08	4	0.22	A
Site Total		40.34	25		
CORN (FORAGE - FODDER)					
GLYPHOSATE, POTASSIUM SALT		568.06	17	263.00	A
Site Total		568.06	17		
CUCUMBER					
BACILLUS THURINGIENSIS (BERLINER)		0.02	1	0.05	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		1.08	2	1.15	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL		7.64	3	2.05	A
		0.04	3	750.00	S

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Total Pounds On This Chemical	7.69				
MINERAL OIL		11.4	6	6.00	A
PYRETHRINS		3	5	4.05	A
		0.05			
Site Total		20.26	20		
DITCH BANK					
GLYPHOSATE, ISOPROPYLAMINE SALT		1.69		0.50	A
Site Total		1.69			
EGGPLANT					
BACILLUS THURINGIENSIS (BERLINER)		0.02	1	0.10	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		1.08	2	1.10	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL		4.78	2	1.10	A
ESFENVALERATE		< 0.01	1	0.10	A
MINERAL OIL		5.29	1	1.00	A
PYRETHRINS		0.03	1	0.10	A
Site Total		11.19	8		
FARM/AG BUILDING					
BORIC ACID		1,152.00	3	202,500.00	S
POTASSIUM PEROXYMONOSULFATE		77.08	3	202,500.00	S
SODIUM CHLORIDE		5.40	3	202,500.00	S
Site Total		1,234.48	6		
FIG					
ESFENVALERATE		< 0.01	1	9.00	U
GLYPHOSATE, ISOPROPYLAMINE SALT		0.03	2	4.00	U
Site Total		0.03	3		
FOOD PROCRESSING PLANT					
SODIUM CHLORITE		140.87		1.00	U
Site Total		140.87			
FOREST, TIMBERLAND					
AMMONIUM PROPIONATE		2.51	1	38.10	A
AMMONIUM SULFATE		0.63	1	38.10	A
BORAX		328.50	6	464.50	A
CALCIUM CHLORIDE		0.21	1	20.00	A
CITRIC ACID		1.84	2	58.10	A
GLYPHOSATE, ISOPROPYLAMINE SALT		4,959.76	80	1,505.50	A
GLYPHOSATE, POTASSIUM SALT		714.96	7	258.40	A
2-(3-HYDROXYPROPYL)-HEPTA-METHYL TRISILOXANE, ETHOXYLATED, ACETATE		135.14	14	471.90	A
IMAZAPYR, ISOPROPYLAMINE SALT		185.03	36	710.00	A
METHYLATED SOYBEAN OIL		4,074.30	64	1,342.50	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		728.80	64	1,342.50	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE), PHOSPHATE ESTER		0.63	1	38.10	A
OLEIC ACID, METHYL ESTER		406.50	14	531.90	A
POLYALKENE OXIDE MODIFIED HEPTAMETHYL TRISILOXANE		21.59	10	384.30	A
POLYMERIZED ACRYLIC ACID		1.26	1	38.10	A

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STRYCHNINE	0.76	12	288.90	A
TRICLOPYR, BUTOXYETHYL ESTER	94.98	5	136.70	A
Site Total	11,657.40	226		
FUMIGATION, OTHER				
MAGNESIUM PHOSPHIDE	0.21			
Site Total	0.21			
GRAPE				
BOSCALID	0.02	3	0.12	A
ESFENVALERATE	< 0.01	1	8.00	U
GLYPHOSATE, ISOPROPYLAMINE SALT	0.59	1	1.00	A
GLYPHOSATE, POTASSIUM SALT	5.52	1	3.75	A
ORYZALIN	4.16	1	3.75	A
PETROLEUM DISTILLATES, REFINED	28.15	1	2.50	A
POTASSIUM BICARBONATE	0.33	2	0.08	A
PYRACLOSTROBIN	0.01	3	0.12	A
QUINOXYFEN	< 0.01	2	0.08	A
SULFUR	41.24	10	11.50	A
Site Total	80.02	22		
GRAPE, WINE				
ABAMECTIN	0.08	1	5.20	A
ALPHA-ALKYL (C9-C11)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	1.76	1	17.00	A
ALPHA-ALKYL (C10-C12)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	2.21	5	10.00	A
ALPHA-PINENE BETA-PINENE COPOLYMER	3.61	2	21.40	A
ALKYL (C8,C10) POLYGLUCOSIDE	0.40	1	1.30	A
ALKYL (C12-C15)-POLY(OXYPROPYLENE) POLY (OXYETHYLENE) - IODINE COMPLEX	5.85	4	34.00	A
AMMONIUM NITRATE	0.21	2	7.30	A
AMMONIUM SULFATE	0.92	2	7.30	A
BACILLUS PUMILUS, STRAIN QST 2808	0.02	1	0.25	A
N,N-BIS-(2-OMEGA-HYDROXYPOLY(OXYETHYLENE)ETHYL) ALKYLAMINE, ALKYL DERIVED FROM TALLOW FATTY ACIDS	1.32	6	55.40	A
BOSCALID	10.13	13	56.88	A
BUTYL ALCOHOL	2.05	3	54.00	A
CHENOPODIUM AMBROSIODES NEAR AMBROSIODES	0.93	1	0.75	A
COPPER HYDROXIDE	9.78	5	70.33	A
COPPER OXYCHLORIDE	3.17	1	16.20	A
DIMETHYLPOLYSILOXANE	0.57	18	158.83	A
FATTY ACIDS, MIXED	0.68	10	209.26	A
FLUMIOXAZIN	16.18	13	67.03	A
GLYPHOSATE, ISOPROPYLAMINE SALT	103.24	30	102.45	A
GLYPHOSATE, POTASSIUM SALT	176.79	9	80.43	A
IMIDACLOPRID	1.06	2	16.50	A
ISOPROPYL ALCOHOL	0.05	2	10.40	A
ISOXABEN	1.40	1	1.25	A
KAOLIN	142.50	3	4.40	A
KRESOXIM-METHYL	0.52	1	5.20	A
LIME-SULFUR	187.10	14	35.20	A
MANCOZEB	5.85	1	5.20	A
METRAFENONE	2.53		11.00	A

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MINERAL OIL	103.04	4	42.53	A
MYCLOBUTANIL	5.10	8	64.13	A
4-NONYLPHENOL, FORMALDEHYDE RESIN, PROPOXYLATED	7.50	14	247.26	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	51.14	20	324.79	A
NONYL PHENOXY POLYOXYETHYLENE ETHANOL-IODINE COMPLEX	4.12	2	36.00	A
OLEIC ACID	3.12	3	49.13	A
ORYZALIN	10.40	2	6.50	A
OXYFLUORFEN	2.15	3	7.50	A
PERMETHRIN	0.20	1	4.00	A
PETROLEUM DISTILLATES, REFINED	140.74	15	17.00	A
POLYETHYLENE GLYCOL	0.33	2	10.40	A
POTASSIUM BICARBONATE	92.15	5	34.25	A
PROPYLENE GLYCOL	12.58	12	93.13	A
PYRACLOSTROBIN	5.15	13	56.88	A
QUINOXYFEN	0.99	8	17.00	A
SODIUM DIOCTYLSULFOSUCCINATE	5.83	3	49.13	A
SULFUR	1,422.49	69	334.53	A
SULFURIC ACID	0.67	4	34.00	A
TALL OIL FATTY ACIDS	0.05	2	21.40	A
TEBUCONAZOLE	2.50	12	29.90	A
TETRACONAZOLE	0.76	4	25.50	A
TRIFLOXYSTROBIN	6.77	17	74.03	A
Site Total	2,558.67	267		
KALE				
AZADIRACHTIN	0.01	10	800.00	U
BACILLUS THURINGIENSIS (BERLINER)	0.08	3	1.10	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES	1.82	6	3.36	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL	17.19	8	5.15	A
MINERAL OIL	14.19	4	3.00	A
POTASH SOAP	8.55	5	2.92	A
PYRETHRINS	0.07	4	0.62	A
Site Total	41.93	40		
KIWI				
GLYPHOSATE, POTASSIUM SALT	0.34	1	0.10	A
MINERAL OIL	417.36	1	11.50	A
PETROLEUM OIL, UNCLASSIFIED	7.63	1	1.40	A
PHOSMET	0.70	1	1.40	A
Site Total	426.04	4		
KOHLRABI				
BACILLUS THURINGIENSIS (BERLINER)	0.06	2	0.20	A
PYRETHRINS	0.04	1	0.10	A
Site Total	0.10	3		
LANDSCAPE MAINTENANCE				
ABAMECTIN	0.02			
ACEPHATE	57.04			
ACIBENZOLAR-S-METHYL	0.55			
ACID BLUE 9, DIAMMONIUM SALT	2.76			
ALPHA-ALKYLARYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)	0.24			

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ALPHA-ALKYL (C9-C16)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		0.63			
ALPHA-ALKYL (C12-C14)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		2.53			
ALKYL (C9-C11) OLIGOMERIC D-GLUCOPYRANOSIDE		1.01			
D-TRANS ALLETHRIN		< 0.01			
ALLYLOXYPOLYETHYLENE GLYCOL ACETATE		0.90			
AMINOPYRALID, TRIISOPROPANOLAMINE SALT		31.90			
AMMONIUM NITRATE		9.59			
AMMONIUM PROPIONATE		1.10			
AMMONIUM SULFATE		0.28			
AZADIRACHTIN		< 0.01			
AZOXYSTROBIN		62.95			
		5.98	3	8.00	A
Total Pounds On This Chemical	68.93				
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		0.14			
BACILLUS THURINGIENSIS (BERLINER), SUBSP. KURSTAKI, STRAIN SA-11		< 0.01			
BENEFIN		2.15			
BENSULIDE		69.75			
BENZOIC ACID		0.75			
BIFENTHRIN		9.01			
BOSCALID		5.56			
BRODIFACOUM		< 0.01			
BROMADIOLONE		< 0.01			
BROMETHALIN		0.09			
BUTYL ALCOHOL		0.57			
CARBARYL		10.35			
CARBON		0.10			
CARFENTRAZONE-ETHYL		11.68			
		0.47	2	4.60	A
Total Pounds On This Chemical	12.15				
CHLORANTRANILIPROLE		14.44			
		0.47	1	2.30	A
Total Pounds On This Chemical	14.92				
CHLOROPHACINONE		< 0.01			
CHLOROTHALONIL		2,631.89			
		594.26	18	77.40	A
		7.77	2	55,337.00	S
Total Pounds On This Chemical	3,233.93				
CHLORPYRIFOS		1.13			
CHLORSULFURON		0.37			
CITRIC ACID		0.55			
CLOPYRALID, MONOETHANOLAMINE SALT		35.57			
CLOPYRALID,TRIETHYLAMINE SALT		9.83			
		0.54	3	31.00	A
Total Pounds On This Chemical	10.36				
CLOTHIANIDIN		4.92			
COCONUT DIETHANOLAMIDE		2.01			
COPPER		0.09			
COPPER AMMONIUM COMPLEX		2.00			
COPPER DIAMMONIUM DIACETATE COMPLEX		8.28			
COPPER ETHANOLAMINE COMPLEXES, MIXED		104.91			
COPPER ETHYLENEDIAMINE COMPLEX		40.58			
COPPER HYDROXIDE		28.24			
COPPER SULFATE (PENTAHYDRATE)		4.90			

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COPPER TRIETHANOLAMINE COMPLEX		45.81			
CYFLUTHRIN		25.12			
BETA-CYFLUTHRIN		2.22			
CYPERMETHRIN		63.76			
2,4-D		6.24			
2,4-D, DIMETHYLAMINE SALT		123.76			
2,4-D, 2-ETHYLHEXYL ESTER		271.38			
DICAMBA		20.41			
DICAMBA, DIMETHYLAMINE SALT		16.95			
DIETHYLENE GLYCOL		0.76			
DIKEGULAC SODIUM		70.30			
DIMETHENAMID-P		1.90			
DIMETHYL ALKYL TERTIARY AMINES		0.82			
DIMETHYLPOLYSILOXANE		3.36			
DINOTEFURAN		6.78			
DIPHACINONE		0.21			
DIPHACINONE, SODIUM SALT		< 0.01			
DIQUAT DIBROMIDE		217.67			
DISODIUM OCTABORATE TETRAHYDRATE		1.84			
DITHIOPYR		722.18			
DIURON		590.24			
DODECYLBENZENE SULFONIC ACID		8.71			
EDTA, TETRASODIUM SALT		0.54			
ENDOTHALL, DIPOTASSIUM SALT		82.36			
ETHEPHON		483.36			
		30.07	6	13.80	A
Total Pounds On This Chemical	513.43				
ETHOFUMESATE		86.12			
ETHYLENE GLYCOL		0.53			
FATTY ACIDS, MIXED		1.62			
FATTY ACIDS DERIVED FROM TALLOW		1.01			
FENARIMOL		1.13			
FERRIC SODIUM EDTA		0.03			
FIPRONIL		0.49			
FLUAZIFOP-BUTYL		< 0.01			
FLUAZIFOP-P-BUTYL		3.99			
FLUDIOXONIL		9.36			
		3.12	2	5.50	A
		0.12	1	22,000.00	S
Total Pounds On This Chemical	12.60				
FLUMIOXAZIN		9.26			
FLURIDONE		7.09			
FLUROXYPYR, 1-METHYLHEPTYL ESTER		7.15			
FLUTOLANIL		65.88			
		19.60	1	2.30	A
Total Pounds On This Chemical	85.48				
TAU-FLUVALINATE		0.09			
FOSETYL-AL		168.40			
FREE FATTY ACIDS AND/OR AMINE SALTS		0.34			
GLYPHOSATE, DIMETHYLAMINE SALT		73.33			
GLYPHOSATE, ISOPROPYLAMINE SALT		4,466.00			
		7.99	2	10.00	A
		3.96	1	22,000.00	S
Total Pounds On This Chemical	4,477.95				
GLYPHOSATE, MONOAMMONIUM SALT		393.86			
GLYPHOSATE, POTASSIUM SALT		1,921.46			
		0.86	1	15.30	A

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Total Pounds On This Chemical	1,922.32			
HALOSULFURON-METHYL	7.18			
2-(3-HYDROXYPROPYL)-HEPTA-METHYL TRISILOXANE, ETHOXYLATED, ACETATE	3.12			
IMAZAMOX, AMMONIUM SALT	0.93			
IMAZAPYR, ISOPROPYLAMINE SALT	0.69			
IMIDACLOPRID	330.74			
	73.13	4	60.00	A
Total Pounds On This Chemical	403.86			
INDAZIFLAM	3.17			
INDOXACARB	1.42			
IPRODIONE	228.32			
	48.52	4	9.20	A
Total Pounds On This Chemical	276.84			
IRON PHOSPHATE	4.60			
ISOPROPYL ALCOHOL	9.18			
ISOPROPYLAMINE DODECYLBENZENE SULFONATE	0.10			
ISOXABEN	328.25			
KEROSENE	1.45			
LECITHIN	71.53			
MALATHION	0.03			
MANCOZEB	181.95			
MCPA, DIMETHYLAMINE SALT	58.07			
MCPA, ISOOCTYL ESTER	21.07			
MCPP, DIMETHYLAMINE SALT	0.42			
MCPP, POTASSIUM SALT	8.56			
MCPP-P, DIMETHYLAMINE SALT	26.27			
MECOPROP-P	58.63			
MEFENOXAM	10.71			
MEFENOXAM, OTHER RELATED	0.32			
MESOTRIONE	12.35			
	0.34	2	5.00	A
Total Pounds On This Chemical	12.70			
METALDEHYDE	3.83			
METCONAZOLE	14.75	1	32.00	A
METHYLATED SOYBEAN OIL	87.35			
S-METOLACHLOR	14.94			
MINERAL OIL	172.33			
MSMA	195.45			
MYCLOBUTANIL	8.53			
NAA	0.74			
NAA, AMMONIUM SALT	10.62			
NONANOIC ACID	10.56			
NONANOIC ACID, OTHER RELATED	0.56			
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	92.54			
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE), PHOSPHATE ESTER	0.80			
OLEIC ACID	0.36			
OLEIC ACID, ETHYL ESTER	2.25			
OLEIC ACID, METHYL ESTER	4.97			
ORGANO/MODIFIED POLYSILOXANE	0.03			
ORYZALIN	242.70			
	3.18	2	10.00	A
Total Pounds On This Chemical	245.88			
OXADIAZON	32.73			
OXYFLUORFEN	9.20			

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OXYTETRACYCLINE HYDROCHLORIDE		0.04			
PACLOBUTRAZOL		29.67			
		27.84	11	153.10	A
Total Pounds On This Chemical	57.51				
PCNB		289.62			
PENDIMETHALIN		2,799.09			
PERMETHRIN		142.35			
PETROLEUM DISTILLATES		17.24			
PETROLEUM OIL, PARAFFIN BASED		17.96			
PETROLEUM OIL, UNCLASSIFIED		172.07			
PHENOTHRIN		< 0.01			
PHENYLETHYL PROPIONATE		0.73			
PHOSPHORIC ACID		1.72			
PIPERONYL BUTOXIDE		0.07			
POLYALKENE OXIDE MODIFIED HEPTAMETHYL TRISILOXANE		1.70			
POLYETHYLENE GLYCOL DIACETATE		0.08			
POLYETHYLENE GLYCOL MONO(3-(TETRAMETHYL-1-(TRIMETHYLSILOXY)DISILOXANYL)PROPYL)ETHER		0.08			
POLYOXIN D, ZINC SALT		4.48			
POLY(OXYETHYLENE) (DIMETHYLIMINO) ETHYLENE (DIMETHYLIMINO) ETHYLENE DICHLORIDE		0.01			
POLYOXYETHYLENE DIOLEATE		0.39			
POLYOXYETHYLENE SORBITOL, MIXED ETHER ESTER		5.81			
POLYOXYETHYLENE SORBITAN MONOOLEATE		0.52			
POLYOXYETHYLENE SORBITAN TRIOLEATE		2.71			
POTASH SOAP		1.04			
POTASSIUM PHOSPHITE		64.92			
PRODIAMINE		703.70			
		52.50	1	65.00	A
Total Pounds On This Chemical	756.20				
PROPICONAZOLE		150.09			
		18.79	7	19.60	A
		0.48	1	22,000.00	S
Total Pounds On This Chemical	169.36				
PROPOXUR		< 0.01			
PROPYLENE GLYCOL		0.50			
PYRACLOSTROBIN		32.91			
		18.72	7	37.80	A
Total Pounds On This Chemical	51.63				
PYRAFLUFEN-ETHYL		0.06			
PYRETHRINS		0.14			
QUINCLORAC		52.68			
QUINCLORAC, DIMETHYLAMINE SALT		7.40			
SETHOXYDIM		0.53			
SIDURON		0.50			
SILICONE DEFOAMER		0.23			
SODIUM NITRATE		0.55			
SODIUM POLYACRYLATE		0.03			
SODIUM XYLENE SULFONATE		2.68			
SPINOSAD		0.58			
SPIROMESIFEN		0.07			
SULFENTRAZONE		18.44			
SULFOMETURON-METHYL		11.03			
SULFUR		0.41			
TALL OIL		1.46			
TALL OIL FATTY ACIDS		6.25			
TARTRAZINE		0.18			

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TEBUCONAZOLE		19.70			
TETRACHLORVINPHOS		0.03			
ALPHA-[PARA-(1,1,3,3-TETRAMETHYLBUTYL)PHENYL]-OMEGA-HYDROXYPOLY(OXYETHYLENE)		16.09			
TETRAPOTASSIUM PYROPHOSPHATE		1.34			
THIOPHANATE		1.73			
THIOPHANATE-METHYL		189.17			
		3.37	1	33,337.00	S
Total Pounds On This Chemical	192.55				
THYME		1.22			
TRIADIMEFON		17.50	3	12.00	A
		17.28			
Total Pounds On This Chemical	34.79				
TRICLOPYR, BUTOXYETHYL ESTER		144.61			
		67.61	7	69.20	A
Total Pounds On This Chemical	212.21				
TRICLOPYR, TRIETHYLAMINE SALT		153.86			
		1.47	3	31.00	A
Total Pounds On This Chemical	155.33				
TRIETHANOLAMINE		3.42			
TRIFLOXYSTROBIN		1.41			
		0.52	1	3.00	A
Total Pounds On This Chemical	1.92				
TRIFLOXYSULFURON-SODIUM		0.05			
TRIFLURALIN		116.55			
ALPHA-2,6,8-TRIMETHYL-4-NONYLOXY-OMEGA-HYDROXYPOLY(OXYETHYLENE)		0.14			
TRINEXAPAC-ETHYL		131.21			
		18.90	36	317.40	A
Total Pounds On This Chemical	150.11				
TRITICONAZOLE		20.77			
		10.56	4	9.20	A
Total Pounds On This Chemical	31.33				
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)		37.43			
UREA		7.19			
VINCLOZOLIN		19.41			
ZINC PHOSPHIDE		30.00	1	100.00	A
		5.54			
Total Pounds On This Chemical	35.54				
Site Total		21,929.03	132		
MELON					
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		1.08	2	0.35	A
ESFENVALERATE		< 0.01	1	0.25	A
Site Total		1.08	3		
MINT					
MINERAL OIL		0.07	1	0.10	A
POTASH SOAP		0.03	1	0.10	A
Site Total		0.10	2		
N-GRNHS FLOWER					
ACIBENZOLAR-S-METHYL		0.06		3.00	A
AZOXYSTROBIN		1.25		3.00	A

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BENSULIDE		19.84		3.00	A
CARBARYL		60.18		16.40	A
CARFENTRAZONE-ETHYL		0.31		3.00	A
		< 0.01		5,000.00	S
Total Pounds On This Chemical	0.31				
CHLORANTRANILIPROLE		0.31		3.00	A
CHLOROTHALONIL		536.14		61.50	A
CLOPYRALID, MONOETHANOLAMINE SALT		1.98		8.00	A
CLOPYRALID,TRIETHYLAMINE SALT		6.12		42.00	A
DITHIOPYR		39.13		84.00	A
ETHEPHON		21.96		6.00	A
FLUDIOXONIL		2.83		7.50	A
FLUMIOXAZIN		0.03		27,200.00	S
FLUTOLANIL		25.20		6.00	A
TAU-FLUVALINATE		< 0.01	2	6,000.00	S
FORAMSULFURON		1.46		44.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT		2.00		36,000.00	S
IMIDACLOPRID		10.22		34.00	A
INDAZIFLAM		3.20		36.00	A
IPRODIONE		9.99		3.50	A
MEFENOXAM		15.85		32.80	A
MEFENOXAM, OTHER RELATED		0.01		2.80	A
MSMA		24.89		12.00	A
PACLOBUTRAZOL		8.60		84.50	A
PCNB		125.97		6.00	A
PRODIAMINE		32.70		44.00	A
PROPICONAZOLE		16.39		13.50	A
PYRACLOSTROBIN		2.57		5,000.00	S
		1.27		3.50	A
Total Pounds On This Chemical	3.84				
TEBUCONAZOLE		26.19		36.00	A
THIOPHANATE-METHYL		26.91		6.00	A
TRICLOPYR, BUTOXYETHYL ESTER		2.21		5.50	A
TRICLOPYR, TRIETHYLAMINE SALT		16.70		42.00	A
TRINEXAPAC-ETHYL		8.60		145.52	A
		0.13		3.00	C
Total Pounds On This Chemical	8.72				
TRITICONAZOLE		3.38		3.00	A
Site Total		1,054.61	2		
N-GRNHS PLANTS IN CONTAINERS					
ACEPHATE		8.00	5	11.00	A
AZADIRACHTIN		< 0.01	1	1,200.00	S
N6-BENZYL ADENINE		< 0.01	1	200.00	S
CHLOROTHALONIL		0.11	3	2,450.00	S
COPPER HYDROXIDE		4.43	19	8.56	A
COPPER OCTANOATE		0.04	1	300.00	S
DAMINOZIDE		66.41	11	11.05	A
DINOTEFURAN		0.11	3	750.00	S
FLUDIOXONIL		0.38	13	5,350.00	S
MEFENOXAM		0.19	13	5,350.00	S
MEFENOXAM, OTHER RELATED		< 0.01	11	4,150.00	S
MINERAL OIL		0.14	1	1,000.00	S
4-NONYLPHENOL, FORMALDEHYDE RESIN, PROPOXYLATED		9.41	36	37.02	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		11.40	36	37.02	A

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PACLOBUTRAZOL		0.72		6.00	A
THIAMETHOXAM		0.31	3	6.50	A
THIOPHANATE-METHYL		0.03	3	2,450.00	S
TRINEXAPAC-ETHYL		0.25		6.00	A
Site Total		101.93	110		
N-OUTDR FLOWER					
BIFENTHRIN		0.49		3.00	A
BISPYRIBAC-SODIUM		0.16		7.70	A
CHLOROTHALONIL		16.50		3.00	A
CLOTHIANIDIN		0.99		3.00	A
ETHOFUMESATE		133.54		60.00	A
FLUMIOXAZIN		0.02		4,000.00	S
GLYPHOSATE, ISOPROPYLAMINE SALT		9.97	1	3.00	A
IMIDACLOPRID		29.12		68.00	A
PACLOBUTRAZOL		6.33		75.00	A
POTASSIUM PHOSPHITE		100.44		63.00	A
PYRACLOSTROBIN		1.20		3.00	A
TEBUCONAZOLE		19.96		27.00	A
TRINEXAPAC-ETHYL		2.39		43.00	A
Site Total		321.10	1		
N-OUTDR PLANTS IN CONTAINERS					
ABAMECTIN		0.30	8	16.00	A
ACEPHATE		0.43	5	0.56	A
ACETAMIPRID		24.33	102	275.35	A
AZADIRACHTIN		1.52	26	79.15	A
AZOXYSTROBIN		10.25	12	53.50	A
N6-BENZYL ADENINE		0.11	3	700.00	S
BIFENAZATE		1.00	1	2.00	A
BIFENTHRIN		8.64	64	153.61	A
		0.02	1	1,000.00	S
Total Pounds On This Chemical	8.65				
N,N-BIS-(2-OMEGA-HYDROXYPOLY(OXYETHYLENE)ETHYL) ALKYLAMINE, ALKYL DERIVED FROM TALLOW FATTY ACIDS		0.02	1	1.50	A
BOSCALID		4.39	14	22.31	A
		0.01	2	2,000.01	S
Total Pounds On This Chemical	4.41				
BUTYL ALCOHOL		7.01	9	38.50	A
CALCIUM HYDROXIDE		327.00	11	28.99	A
CARBARYL		5.22	1	1.75	A
CHLOROPICRIN		11,334.00	4	62.90	A
CHLOROTHALONIL		17.02	7	6.75	A
CLOFENTEZINE		8.85	22	52.85	A
COPPER HYDROXIDE		46.19	10	21.30	A
COPPER OCTANOATE		0.20	2	1,500.00	S
		0.10	1	0.01	A
Total Pounds On This Chemical	0.31				
COPPER OXYCHLORIDE		0.76	4	0.26	A
COPPER SULFATE (BASIC)		333.70	39	93.46	A
COPPER SULFATE (PENTAHYDRATE)		208.94	11	28.99	A
CYFLUTHRIN		1.36	14	43.45	A
(S)-CYPERMETHRIN		3.69	34	79.75	A
CYPRODINIL		1.59	5	6.95	A
1,3-DICHLOROPROPENE		19,956.99	4	62.90	A

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DIETHYLENE GLYCOL		45.33	145	362.20	A
DIMETHYLPOLYSILOXANE		1.09	155	401.95	A
DINOTEFURAN		< 0.01	1	200.00	S
DIQUAT DIBROMIDE		21.86	90	11.80	A
DITHIOPYR		0.75	1	0.50	A
		0.02	2	999.00	S
Total Pounds On This Chemical	0.77				
Z-8-DODECENOL		< 0.01	1	6.66	A
E-8-DODECENYL ACETATE		< 0.01	1	6.66	A
Z-8-DODECENYL ACETATE		0.07	1	6.66	A
ETOXAZOLE		0.14	2	1.00	A
FATTY ACIDS, MIXED		83.62	147	371.10	A
FENPYROXIMATE		0.39	3	3.35	A
FLUAZIFOP-P-BUTYL		0.38	2	1.00	A
FLUDIOXONIL		0.44	13	7,250.00	S
		0.34	3	0.51	A
Total Pounds On This Chemical	0.78				
FLUMIOXAZIN		7.25	83	21.88	A
TAU-FLUVALINATE		0.01	1	0.12	A
GLYPHOSATE, ISOPROPYLAMINE SALT		183.03	144	52.89	A
GLYPHOSATE, POTASSIUM SALT		220.76	33	59.00	A
		20.96	7	148,100.00	S
Total Pounds On This Chemical	241.71				
IMIDACLOPRID		1.06	3	1.28	A
		< 0.01	1	300.00	S
Total Pounds On This Chemical	1.07				
ISOPARAFFINIC HYDROCARBONS		0.88	1	1.50	A
ISOXABEN		12.49	21	18.20	A
		7.07	21	172,000.00	S
Total Pounds On This Chemical	19.56				
KAOLIN		380.00	9	20.60	A
LAMBDA-CYHALOTHRIN		6.09	78	196.75	A
LECITHIN		9.75	5	9.58	A
MANCOZEB		61.34	15	41.60	A
MEFENOXAM		3.05	35	99.81	A
		0.21	13	7,250.00	S
Total Pounds On This Chemical	3.27				
MEFENOXAM, OTHER RELATED		0.10	34	99.56	A
		< 0.01	13	7,250.00	S
Total Pounds On This Chemical	0.10				
METALDEHYDE		0.30	1	10,000.00	S
METHIDATHION		9.75	2	6.50	A
METHOXYFENOZIDE		0.26	1	1.25	A
METHYLATED SOYBEAN OIL		4.87	5	9.58	A
MINERAL OIL		109.63	10	8.04	A
MYCLOBUTANIL		0.40	2	3.70	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		195.70	157	411.10	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE), PHOSPHATE ESTER		0.02	1	1.50	A
ORCHEX 796 OIL		0.60	1	1.50	A
ORYZALIN		4.68	3	2.25	A
OXYFLUORFEN		1.76	3	2.50	A
PENDIMETHALIN		30.15	20	18.20	A
POLYACRYLAMIDE POLYMER		0.23	12	28.15	A
POLYETHYLENE GLYCOL MONO(3-(TETRAMETHYL-1-(TRIMETHYLSILOXY)DISILOXANYL)PROPYL)ETHER		0.10	1	1.25	A

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PRODIAMINE		22.03	145	20.82	A
		5.72	16	152,000.00	S
		0.23			
Total Pounds On This Chemical	27.98				
PROPICONAZOLE		3.56	16	33.65	A
PROPYLENE GLYCOL		0.05	1	1.25	A
PYRACLOSTROBIN		2.23	14	22.31	A
		< 0.01	2	2,000.01	S
Total Pounds On This Chemical	2.24				
SETHOXYDIM		1.07	3	4.50	A
SIMAZINE		3.60	1	1.00	A
SPINETORAM		15.81	76	204.40	A
SPINOSAD		14.40	68	175.35	A
SPIRODICLOFEN		18.50	17	49.30	A
SPIROTETRAMAT		1.41	30	85.63	A
STREPTOMYCIN SULFATE		4.93	5	11.90	A
SULFUR		25.20	1	1.75	A
TALL OIL FATTY ACIDS		0.09	1	1.50	A
THIAZOPYR		2.32	2	1.25	A
THIOPHANATE-METHYL		0.13	4	0.26	A
TRIFLURALIN		< 0.01	1	1,000.00	S
ALPHA-2,6,8-TRIMETHYL-4-NONYLOXY-OMEGA-HYDROXYPOLY(OXYETHYLENE)		0.18	1	1.25	A
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)		122.98	150	371.78	A
ZIRAM		26.22	6	9.65	A
Site Total		34,001.25	1,588		
NECTARINE					
ACETAMIPRID		4.08	5	34.50	A
ALKYL (C8,C10) POLYGLUCOSIDE		16.96	6	40.50	A
AMMONIUM NITRATE		6.86	2	13.50	A
AMMONIUM SULFATE		13.73	2	13.50	A
BOSCALID		0.71	1	7.50	A
CARBARYL		0.27	2	6.00	U
CASTOR OIL ETHOXYLATE		0.35	2	13.50	A
COPPER AMMONIUM COMPLEX		0.21	2	6.00	U
COPPER HYDROXIDE		82.91	2	13.50	A
		0.05	2	2.00	U
Total Pounds On This Chemical	82.96				
COPPER OXIDE (OUS)		0.42	1	0.50	A
CYPRODINIL		3.16	2	13.50	A
DIMETHYLPOLYSILOXANE		0.10	2	13.50	A
Z-8-DODECENOL		< 0.01	2	1.00	A
E-8-DODECENYL ACETATE		< 0.01	2	1.00	A
Z-8-DODECENYL ACETATE		< 0.01	2	1.00	A
FLUMIOXAZIN		3.44	2	13.50	A
GLYPHOSATE, ISOPROPYLAMINE SALT		13.03	2	13.50	A
		0.03	3	4.00	U
Total Pounds On This Chemical	13.06				
HEXYTHIAZOX		0.36	1	7.50	A
LECITHIN		27.52	4	27.00	A
MINERAL OIL		469.53	2	13.50	A
		0.84	2	6.00	U
Total Pounds On This Chemical	470.37				
ORYZALIN		28.08	2	13.50	A
OXYFLUORFEN		6.24	2	13.50	A

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PETROLEUM OIL, UNCLASSIFIED	1.77	1	2.00	U
PHOSMET	0.05	3	5.00	U
POLYOXYETHYLENE SOYBEAN OIL FATTY ACID ESTER	2.59	2	13.50	A
POLYSILOXANE	0.10	4	27.00	A
POTASSIUM HYDROXIDE	2.99	4	27.00	A
PROPIONIC ACID	20.38	4	27.00	A
PYRACLOSTROBIN	0.36	1	7.50	A
PYRETHRINS	0.02	1	0.50	A
REYNOUTRIA SACHALINENSIS	0.11	1	0.50	A
TALL OIL	0.35	2	13.50	A
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)	30.58	4	27.00	A
ZIRAM	143.64	4	27.00	A
Site Total	881.83	53		
OAT				
CARFENTRAZONE-ETHYL	0.07	1	5.00	A
CASTOR OIL ETHOXYLATE	1.54	2	25.00	A
MCPA, DIMETHYLAMINE SALT	14.13	2	25.00	A
POLYOXYETHYLENE SOYBEAN OIL FATTY ACID ESTER	11.53	2	25.00	A
TALL OIL	1.54	2	25.00	A
Site Total	28.80	5		
OAT (FORAGE - FODDER)				
MCPA, DIMETHYLAMINE SALT	39.87	1	38.00	A
Site Total	39.87	1		
OLIVE				
PHOSMET	0.05	2	5.00	U
Site Total	0.05	2		
PASTURELAND				
AMINOPYRALID, TRIISOPROPANOLAMINE SALT	1.02	1	12.75	A
CARFENTRAZONE-ETHYL	0.51	1	35.00	A
CASTOR OIL ETHOXYLATE	2.15	1	35.00	A
CLOPYRALID, MONOETHANOLAMINE SALT	0.74	2	6.00	A
2,4-D, DIMETHYLAMINE SALT	7.88	1	3.50	A
GLYPHOSATE, ISOPROPYLAMINE SALT	25.61	1	24.95	A
GLYPHOSATE, POTASSIUM SALT	28.92	2	94.50	A
ISOPROPYL ALCOHOL	0.05	1	4.50	A
MCPA, DIMETHYLAMINE SALT	19.78	1	35.00	A
OLEIC ACID	0.02	1	4.50	A
PETROLEUM OIL, PARAFFIN BASED	1.01	1	10.00	A
POLYOXYETHYLENE MIXED FATTY ACID ESTER	0.18	1	10.00	A
POLYOXYETHYLENE SOYBEAN OIL FATTY ACID ESTER	16.14	1	35.00	A
TALL OIL	2.15	1	35.00	A
ALPHA-[PARA-(1,1,3,3-TETRAMETHYLBUTYL)PHENYL]-OMEGA-HYDROXYPOLY(OXYETHYLENE)	0.35	1	4.50	A
TRICLOPYR, BUTOXYETHYL ESTER	84.75	4	388.75	A
TRICLOPYR, TRIETHYLAMINE SALT	0.40		0.20	A
Site Total	191.67	16		
PEACH				
ACETAMIPRID	2.35	3	20.00	A
ALKYL (C8,C10) POLYGLUCOSIDE	16.33	6	39.00	A

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AMMONIUM NITRATE		6.61	2	13.00	A
AMMONIUM SULFATE		13.22	2	13.00	A
BOSCALID		2.46	4	16.25	A
CARBARYL		0.87	2	14.00	U
CASTOR OIL ETHOXYLATE		0.07	2	13.00	A
CHLORANTRANILIPROLE		0.02	1	0.19	A
CHLORPYRIFOS		25.25	1	25.00	A
CLOFENTEZINE		12.97	2	50.00	A
COPPER AMMONIUM COMPLEX		0.63	2	18.00	U
COPPER HYDROXIDE		248.36	14	65.25	A
		0.31	2	9.00	U
Total Pounds On This Chemical	248.67				
COPPER OXIDE (OUS)		119.22	2	16.10	A
COPPER OXYCHLORIDE		5.18	2	4.50	A
COPPER SULFATE (BASIC)		0.57	1	0.12	A
CYPRODINIL		3.05	2	13.00	A
DIAZINON		0.73	4	3.20	A
DIMETHYLPOLYSILOXANE		0.11	9	17.50	A
E,E-8,10-DODECADIEN-1-OL		< 0.01	2	0.09	A
Z-8-DODECENOL		< 0.01	2	11.80	A
E-8-DODECENYL ACETATE		< 0.01	2	11.80	A
Z-8-DODECENYL ACETATE		0.07	2	11.80	A
ESFENVALERATE		4.62	6	83.05	A
FLUMIOXAZIN		3.32	2	13.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT		22.67	3	25.00	A
		0.08	3	10.00	U
Total Pounds On This Chemical	22.76				
GLYPHOSATE, POTASSIUM SALT		20.56	12	3.16	A
HEXYTHIAZOX		0.34	1	7.00	A
IPRODIONE		11.79	1	12.00	A
ISOPROPYL ALCOHOL		0.21	7	4.50	A
LAMBDA-CYHALOTHRIN		0.98	1	25.00	A
LAURYL ALCOHOL		< 0.01	2	0.09	A
LECITHIN		26.50	4	26.00	A
LIME-SULFUR		3.08	1	10.00	U
METHOXYFENOZIDE		1.75	2	8.19	A
MINERAL OIL		1,101.05	8	37.50	A
		2.60	2	18.00	U
Total Pounds On This Chemical	1,103.65				
MYRISTYL ALCOHOL		< 0.01	2	0.09	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		2.71	9	6.25	A
ORYZALIN		27.04	2	13.00	A
OXYFLUORFEN		6.01	2	13.00	A
PETROLEUM DISTILLATES		1.13	2	1.75	A
PETROLEUM OIL, PARAFFIN BASED		27.87	1	4.00	A
PETROLEUM OIL, UNCLASSIFIED		28.78	3	4.12	A
PHOSMET		5.43	4	5.25	A
		0.22	1	16.00	U
Total Pounds On This Chemical	5.65				
POLYETHYLENE GLYCOL		1.33	7	4.50	A
POLYOXYETHYLENE SOYBEAN OIL FATTY ACID ESTER		0.50	2	13.00	A
POLYSILOXANE		0.10	4	26.00	A
POTASSIUM HYDROXIDE		2.88	4	26.00	A
PROPICONAZOLE		8.78	4	79.00	A
PROPIONIC ACID		19.63	4	26.00	A
PYRACLOSTROBIN		1.25	4	16.25	A

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PYRETHRINS		0.06	1	2.10	A
REYNOUTRIA SACHALINENSIS		0.46	1	2.10	A
SODIUM HYPOCHLORITE		0.25	1	4.00	A
SPINETORAM		0.23	5	2.50	A
TALL OIL		0.07	2	13.00	A
TEBUCONAZOLE		5.40	1	7.00	A
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)		29.44	4	26.00	A
ZIRAM		295.74	11	68.07	A
Site Total		2,123.23	140		
PEAR					
ACETAMIPRID		0.03	1	0.25	A
ALKYL (C8,C10) POLYGLUCOSIDE		0.27	1	0.25	A
AMMONIUM NITRATE		0.13	1	0.25	A
AMMONIUM SULFATE		0.25	1	0.25	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		0.81	3	1.98	A
CARBARYL		0.57	2	12.00	U
CASTOR OIL ETHOXYLATE		0.01	1	0.25	A
CHLORANTRANILIPROLE		0.56	2	6.00	A
CODLING MOTH GRANULOSIS VIRUS		< 0.01	11	12.00	A
COPPER AMMONIUM COMPLEX		0.49	2	11.00	U
COPPER HYDROXIDE		2.77	5	4.76	A
		0.02	1	2.00	U
Total Pounds On This Chemical	2.80				
COPPER OXYCHLORIDE		0.19	2	1.50	A
DIMETHYLPOLYSILOXANE		< 0.01	1	0.25	A
E,E-8,10-DODECADIEN-1-OL		0.19	3	4.30	A
ESFENVALERATE		0.01	1	0.50	A
		< 0.01	1	9.00	U
Total Pounds On This Chemical	0.01				
FLUMIOXAZIN		0.06	1	0.25	A
GLYPHOSATE, ISOPROPYLAMINE SALT		0.24	1	0.25	A
		0.06	2	7.00	U
Total Pounds On This Chemical	0.30				
LAURYL ALCOHOL		0.11	3	4.30	A
MANCOZEB		13.50	1	3.00	A
METHOXYFENOZIDE		0.19	1	0.66	A
MINERAL OIL		329.19	12	21.76	A
		2.01	2	11.00	U
Total Pounds On This Chemical	331.20				
MYRISTYL ALCOHOL		0.02	3	4.30	A
ORYZALIN		0.52	1	0.25	A
OXYFLUORFEN		0.12	1	0.25	A
PETROLEUM OIL, UNCLASSIFIED		56.23	4	3.66	A
PHOSMET		5.32	5	5.55	A
		0.08		6.00	U
Total Pounds On This Chemical	5.40				
POLY-I-PARA-MENTHENE		6.10	12	12.00	A
POLYOXYETHYLENE SOYBEAN OIL FATTY ACID ESTER		0.10	1	0.25	A
SAPONIN		0.27	1	2.00	A
SPINETORAM		0.66	2	6.00	A
SPINOSAD		0.30	2	2.00	A
STREPTOMYCIN SULFATE		1.00	9	5.94	A
SULFUR		16.00	1	1.00	A
TALL OIL		0.01	1	0.25	A

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TRIFLOXYSTROBIN		0.05	1	0.66	A
Site Total		438.45	93		
PECAN					
E,E-8,10-DODECADIEN-1-OL		< 0.01	1	1.00	U
LAURYL ALCOHOL		< 0.01	1	1.00	U
MYRISTYL ALCOHOL		< 0.01	1	1.00	U
Site Total		< 0.01	1		
PEPPER, FRUITING					
BACILLUS THURINGIENSIS (BERLINER)		0.02	1	0.10	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		1.08	2	0.47	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL		1.91	1	0.10	A
PYRETHRINS		0.03	1	0.10	A
Site Total		3.04	5		
PERSIMMON					
ESFENVALERATE		< 0.01	1	0.25	A
GLYPHOSATE, ISOPROPYLAMINE SALT		0.02	2	2.00	U
Site Total		0.02	3		
PLUM					
ACETAMIPRID		0.24	1	2.00	A
ALKYL (C8,C10) POLYGLUCOSIDE		2.14	1	2.00	A
AMMONIUM NITRATE		1.02	1	2.00	A
AMMONIUM SULFATE		2.03	1	2.00	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		1.08	2	2.00	A
CARBARYL		0.27	2	6.00	U
CASTOR OIL ETHOXYLATE		0.01	1	2.00	A
COPPER AMMONIUM COMPLEX		0.21	2	6.00	U
COPPER HYDROXIDE		13.05	2	2.33	A
		0.02	1	2.00	U
Total Pounds On This Chemical	13.08				
COPPER OXIDE (OUS)		0.08	1	0.10	A
COPPER SULFATE (BASIC)		0.78	1	0.17	A
DIAZINON		0.13	1	0.33	A
DIMETHYLPOLYSILOXANE		0.02	2	2.25	A
E,E-8,10-DODECADIEN-1-OL		< 0.01	2	0.15	A
Z-8-DODECENOL		< 0.01	2	10.33	A
E-8-DODECENYL ACETATE		< 0.01	2	10.33	A
Z-8-DODECENYL ACETATE		0.07	2	10.33	A
ESFENVALERATE		< 0.01	1	1.00	A
FLUMIOXAZIN		0.51	1	2.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT		1.93	1	2.00	A
		0.04	3	5.00	U
Total Pounds On This Chemical	1.97				
GLYPHOSATE, POTASSIUM SALT		1.42	2	0.24	A
ISOPROPYL ALCOHOL		0.01	1	0.25	A
LAURYL ALCOHOL		< 0.01	2	0.15	A
METHOXYFENOZIDE		0.05	1	0.17	A
MINERAL OIL		132.16	4	5.00	A
		0.84	2	6.00	U
Total Pounds On This Chemical	133.01				

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MYRISTYL ALCOHOL	< 0.01	2	0.15	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	0.15	2	0.58	A
ORYZALIN	4.16	1	2.00	A
OXYFLUORFEN	0.92	1	2.00	A
PETROLEUM DISTILLATES	0.01	1	0.33	A
PETROLEUM OIL, UNCLASSIFIED	0.69	1	0.17	A
PHOSMET	0.20	3	9.00	U
POLYETHYLENE GLYCOL	0.08	1	0.25	A
POLYOXYETHYLENE SOYBEAN OIL FATTY ACID ESTER	0.08	1	2.00	A
PYRETHRINS	< 0.01	1	0.10	A
REYNOUTRIA SACHALINENSIS	0.02	1	0.10	A
TALL OIL	0.01	1	2.00	A
ZIRAM	1.52	1	0.25	A
Site Total	165.99	45		
PLUOT				
Z-8-DODECENOL	< 0.01	2	1.00	A
E-8-DODECENYL ACETATE	< 0.01	2	1.00	A
Z-8-DODECENYL ACETATE	< 0.01	2	1.00	A
Site Total	< 0.01	2		
POMEGRANATE				
ESFENVALERATE	< 0.01	1	14.00	U
Site Total	< 0.01	1		
PRUNE				
COPPER OXIDE (OUS)	0.08	1	0.10	A
PYRETHRINS	< 0.01	1	0.10	A
REYNOUTRIA SACHALINENSIS	0.02	1	0.10	A
Site Total	0.11	3		
PUBLIC HEALTH				
BACILLUS SPHAERICUS, SEROTYPE H-5A5B, STRAIN 2362	109.90			
BACILLUS THURINGIENSIS (BERLINER), SUBSP. ISRAELENSIS, SEROTYPE H-14	183.17			
BACILLUS THURINGIENSIS, SUBSP. ISRAELENSIS, STRAIN AM 65-52	7,457.11			
COPPER ETHANOLAMINE COMPLEXES, MIXED	18.52			
DELTAMETHRIN	0.67			
ETOFENPROX	30.22			
FIPRONIL	< 0.01			
ALPHA-ISOOCTADECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)	0.16			
METHOPRENE	22.72			
S-METHOPRENE	5.48			
MINERAL OIL	3.43			
NALED	4,980.45			
PHENOTHRIN	307.83			
PIPERONYL BUTOXIDE	246.39			
PIPERONYL BUTOXIDE, OTHER RELATED	61.60			
PYRETHRINS	0.03			
SPINOSAD	5.55			
Site Total	13,433.23			

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QUINCE				
E,E-8,10-DODECADIEN-1-OL	0.02	3	0.33	A
LAURYL ALCOHOL	< 0.01	3	0.33	A
MYRISTYL ALCOHOL	< 0.01	3	0.33	A
Site Total	0.03	3		
RADISH				
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES	0.05	1	0.10	A
PYRETHRINS	0.01	1	0.10	A
Site Total	0.06	2		
RANGELAND				
CLOPYRALID, MONOETHANOLAMINE SALT	0.74	3	40.00	A
Site Total	0.74	3		
REGULATORY PEST CONTROL				
CALCIUM HYPOCHLORITE	1.50			
COPPER ETHANOLAMINE COMPLEXES, MIXED	370.24			
FATTY ACIDS, C16-C18 AND C18-UNSATURATED, METHYL ESTERS	0.57			
FLURIDONE	6.05			
GLYPHOSATE, POTASSIUM SALT	6.95			
LIMONENE	2.83			
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)	0.38			
Site Total	388.51			
RICE				
ALPHA-ALKYL (C9-C11)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	203.92	17	1,662.70	A
ALKYL (C8,C10) POLYGLUCOSIDE	147.69	13	753.10	A
AMMONIUM NITRATE	71.09	16	1,005.10	A
AMMONIUM SULFATE	162.99	17	1,040.10	A
AZOXYSTROBIN	624.52	45	3,451.00	A
BACILLUS THURINGIENSIS (BERLINER), SUBSP. KURSTAKI, STRAIN SA-11	870.70	10	682.90	A
BENSULFURON METHYL	161.67	25	1,794.60	A
BISPYRIBAC-SODIUM	94.46	35	2,236.80	A
CARFENTRAZONE-ETHYL	101.18	13	681.00	A
CASTOR OIL ETHOXYLATE	60.17	26	1,457.90	A
CITRIC ACID	8.99	3	109.00	A
CLOMAZONE	1,583.36	81	4,762.71	A
COPPER SULFATE (PENTAHYDRATE)	58,691.06	62	4,272.64	A
CYHALOFOP-BUTYL	233.48	12	787.30	A
(S)-CYPERMETHRIN	34.81	11	706.60	A
DIFLUBENZURON	49.13	2	259.00	A
DIMETHYLPOLYSILOXANE	12.25	20	1,258.70	A
EMULSIFIABLE METHYLATED VEGETABLE OIL	33.20	2	145.00	A
FATTY ACIDS, MIXED	1.61	1	30.00	A
GLYCEROL	2.51	1	35.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT	84.90	1	98.80	A
HALOSULFURON-METHYL	36.43	13	757.90	A
HYDROTREATED PARAFFINIC SOLVENT	576.88	13	365.41	A
2-(3-HYDROXYPROPYL)-HEPTA-METHYL TRISILOXANE, ETHOXYLATED, ACETATE	29.81	11	496.50	A

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ISOPROPYLAMINE DODECYLBENZENE SULFONATE	1.09	5	233.90	A
LAMBDA-CYHALOTHRIN	179.98	104	6,640.33	A
METHYLATED SOYBEAN OIL	558.32	8	445.50	A
MINERAL OIL	1,099.39	7	611.30	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	2,016.29	81	5,253.61	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE), PHOSPHATE ESTER	1,353.58	17	865.90	A
OLEIC ACID	241.18	6	825.00	A
OLEIC ACID, METHYL ESTER	89.42	11	496.50	A
ORCHEX 796 OIL	1,661.39	6	825.00	A
ORTHOSULFAMURON	2.00	1	35.00	A
PENDIMETHALIN	175.82	4	260.00	A
PENOXSULAM	162.75	62	4,403.19	A
PETROLEUM DISTILLATES	6,329.40	38	3,128.80	A
PETROLEUM OIL, PARAFFIN BASED	1,235.45	23	919.40	A
PHOSPHORIC ACID	6.52	5	336.30	A
POLYACRYLAMIDE POLYMER	0.25	1	35.00	A
POLYALKENE OXIDE MODIFIED HEPTAMETHYL TRISILOXANE	5.00	2	69.00	A
POLYETHER MODIFIED POLYSILOXANE	16.69	5	352.70	A
POLYETHYLENE GLYCOL MONO(3-(TETRAMETHYL-1-(TRIMETHYLSILOXY)DISILOXANYL)PROPYL)ETHER	111.87	11	990.70	A
POLYMERIZED PINENE	132.56	2	85.00	A
POLYOXYETHYLENE MIXED FATTY ACID ESTER	118.85	14	426.70	A
POLYOXYETHYLENE POLYOXYPROPYLENE	81.46	10	713.30	A
POLYOXYETHYLENE SORBITOL, MIXED ETHER ESTER	81.92	4	258.80	A
POLYOXYETHYLENE SORBITAN MONOOLEATE	4.37	5	233.90	A
POLYOXYETHYLENE SORBITAN TRIOLEATE	28.78	5	233.90	A
POLYOXYETHYLENE SOYBEAN OIL FATTY ACID ESTER	451.29	26	1,457.90	A
POTASSIUM HYDROXIDE	0.34	2	74.00	A
POTASSIUM NITRATE	3.24	2	74.00	A
PROPANIL	40,489.33	126	8,071.71	A
PROPYLENE GLYCOL	4.06	3	204.00	A
SILICONE DEFOAMER	0.62	8	445.50	A
SODIUM CHLORATE	171.90	1	30.00	A
SODIUM HYDROXIDE	1.38	1	35.00	A
TALL OIL	60.17	26	1,457.90	A
TALL OIL FATTY ACIDS	161.36	15	714.41	A
THIOBENCARB	621.60	4	218.00	A
TRICLOPYR, TRIETHYLAMINE SALT	1,824.46	108	7,227.61	A
TRISODIUM PHOSPHATE	1.02	1	135.00	A
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)	3.60	2	145.00	A
VINYL POLYMER	3.50	4	314.30	A
Site Total	123,369.02	925		
RIGHTS OF WAY				
ALPHA-ALKYL (C9-C11)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	89.48			
ALPHA-ALKYL (C9-C16)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	2.68			
ALPHA-PINENE BETA-PINENE COPOLYMER	92.57			
ALPHA-ALKYL (C12-C14)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	0.24			
ALKYL (C8,C10) POLYGLUCOSIDE	3.90			
AMINOPYRALID, TRIISOPROPANOLAMINE SALT	405.84			
AMMONIUM PROPIONATE	60.71			

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AMMONIUM SULFATE		15.18			
BENZOIC ACID		3.92			
N,N-BIS-(2-OMEGA-HYDROXYPOLY(OXYETHYLENE)ETHYL) ALKYLAMINE, ALKYL DERIVED FROM TALLOW FATTY ACIDS		3.91			
BROMACIL		2.40			
BUTYL ALCOHOL		24.79			
CHLORSULFURON		11.23			
CITRIC ACID		30.36			
CLETHODIM		6.66			
CLOPYRALID, MONOETHANOLAMINE SALT		41.59			
COPPER CITRATE CHELATE		246.17			
COPPER ETHANOLAMINE COMPLEXES, MIXED		4,933.86			
COPPER ETHYLENEDIAMINE COMPLEX		2,544.42			
COPPER GLUCONATE CHELATE		251.71			
COPPER SULFATE (PENTAHYDRATE)		396.00			
COPPER TRIETHANOLAMINE COMPLEX		2,872.11			
DIETHYLENE GLYCOL		86.37			
DIMETHYL ALKYL TERTIARY AMINES		4.27			
DIMETHYLPOLYSILOXANE		15.41			
DIQUAT DIBROMIDE		101.21			
DITHIOPYR		242.51			
DIURON		734.76			
ENDOTHALL, DIPOTASSIUM SALT		1,451.05			
FATTY ACIDS, METHYL ESTERS		10.41			
FATTY ACIDS, MIXED		153.83			
FATTY ACIDS DERIVED FROM TALLOW		0.10			
FLUMIOXAZIN		300.01			
GLYPHOSATE, DIMETHYLAMINE SALT		2,508.56			
GLYPHOSATE, ISOPROPYLAMINE SALT		7,566.80			
		18.86	5	18.66	A
Total Pounds On This Chemical	7,585.66				
GLYPHOSATE, POTASSIUM SALT		1,245.32			
HEXAZINONE		207.75			
IMAZAPYR, ISOPROPYLAMINE SALT		229.97			
INDAZIFLAM		6.41			
ISOPROPYL ALCOHOL		1.55			
ISOXABEN		102.61			
KEROSENE		7.59			
LECITHIN		52.12			
METHYLATED SOYBEAN OIL		176.35			
METHYL SILICONE RESINS		4.38			
MINERAL OIL		748.44			
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		655.39			
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE), PHOSPHATE ESTER		44.02			
ALPHA-OCTYLPHENYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)		41.31			
OLEIC ACID, ETHYL ESTER		0.75			
OLEIC ACID, METHYL ESTER		18.27			
ORYZALIN		903.21			
OXYFLUORFEN		25.84			
PETROLEUM DISTILLATES		90.09			
PHENOTHRIN		< 0.01			
POLYACRYLAMIDE POLYMER		1.28			
POLYALKENE OXIDE MODIFIED HEPTAMETHYL TRISILOXANE		0.33			
POLYOXYETHYLENE DIOLEATE		0.13			

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POLYOXYETHYLENE SORBITAN MONOOLEATE	0.04			
POLYPROPYLENE GLYCOL	5.21			
PRODIAMINE	144.71			
SODIUM CARBONATE PEROXYHYDRATE	12.62			
SODIUM POLYACRYLATE	1.52			
STRYCHNINE	0.08			
SULFOMETURON-METHYL	168.62			
SULFUR	0.60			
TALL OIL FATTY ACIDS	1.30			
TEBUTHIURON	6.40			
TETRAMETHRIN	< 0.01			
TRICLOPYR, BUTOXYETHYL ESTER	1,366.96			
TRICLOPYR, TRIETHYLAMINE SALT	153.80			
TRIFLURALIN	13.00			
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)	249.77			
Site Total	31,921.63	5		
SQUASH				
AZADIRACHTIN	< 0.01	5	460.00	U
Site Total	< 0.01	5		
SQUASH, SUMMER				
BACILLUS THURINGIENSIS (BERLINER)	0.02	1	0.10	A
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES	1.08	2	1.15	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL	7.64	3	2.10	A
MINERAL OIL	11.43	6	6.00	A
PYRETHRINS	0.05	5	4.10	A
Site Total	20.22	17		
STRUCTURAL PEST CONTROL				
ABAMECTIN	0.02			
ABAMECTIN, OTHER RELATED	< 0.01			
ACEPHATE	5.82			
ACETAMIPRID	2.68			
ALKYL (50%C14, 40%C12, 10%C16) DIMETHYLBENZYL AMMONIUM CHLORIDE	0.27			
ALKYL (C8,C10) POLYGLUCOSIDE	0.04			
D-TRANS ALLETHRIN	0.97			
4-AMINOPYRIDINE	0.08			
AMMONIUM NITRATE	0.07			
AMMONIUM SULFATE	0.07			
BALSAM FIR OIL	< 0.01			
BIFENTHRIN	2,140.11			
BORAX	17.17			
BORIC ACID	948.52			
BRODIFACOUM	0.02			
BROMADIOLONE	0.20			
BROMETHALIN	< 0.01			
CAPSICUM OLEORESIN	< 0.01			
CARBARYL	6.88			
CARFENTRAZONE-ETHYL	0.03			
CHLORANTRANILIPROLE	30.32			
CHLORFENAPYR	223.34			
CHLOROPHACINONE	< 0.01			

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CHOLECALCIFEROL	0.02			
CLOTHIANIDIN	0.03			
COCONUT DIETHANOLAMIDE	1.02			
COPPER ETHANOLAMINE COMPLEXES, MIXED	7.01			
COPPER HYDROXIDE	1.02			
CYFLUTHRIN	23.45			
BETA-CYFLUTHRIN	68.87			
CYPERMETHRIN	473.87			
(S)-CYPERMETHRIN	< 0.01			
2,4-D, DIMETHYLAMINE SALT	0.09			
2,4-D, 2-ETHYLHEXYL ESTER	0.60			
DELTAMETHRIN	127.17			
DIATOMACEOUS EARTH	0.99			
DIAZINON	< 0.01			
DICAMBA	0.04			
DICAMBA, DIMETHYLAMINE SALT	0.02			
DIDECYL DIMETHYL AMMONIUM CHLORIDE	< 0.01			
DIFENACOUM	< 0.01			
DIFETHIALONE	0.02			
DIFLUBENZURON	2.20			
DIMETHYLPOLYSILOXANE	< 0.01			
DINOTEFURAN	0.13			
DIPHACINONE	0.08			
DIPHACINONE, SODIUM SALT	< 0.01			
DIQUAT DIBROMIDE	< 0.01			
DISODIUM OCTABORATE TETRAHYDRATE	828.83			
DITHIOPYR	1.31			
DODECYLBENZENE SULFONIC ACID	4.41			
EDTA, TETRASODIUM SALT	0.27			
ESFENVALERATE	6.10			
ETHEPHON	0.99			
ETOFENPROX	0.03			
FERRIC SODIUM EDTA	< 0.01			
FIPRONIL	933.31			
GERMAN COCKROACH PHEROMONE	< 0.01			
GLYPHOSATE, ISOPROPYLAMINE SALT	5.18			
GLYPHOSATE, MONOAMMONIUM SALT	0.23			
GLYPHOSATE, POTASSIUM SALT	4.35			
HYDRAMETHYLNON	0.66			
HYDROPRENE	24.10			
IMIDACLOPRID	108.44			
INDAZIFLAM	1.32			
INDOXACARB	14.79			
IRON PHOSPHATE	0.20			
ISOPROPYL ALCOHOL	6.11			
ISOXABEN	0.42			
LAMBDA-CYHALOTHRIN	39.03			
LIMONENE	29.97			
MALATHION	43.76			
MANCOZEB	0.23			
MARGOSA OIL	0.38			
MCPP, DIMETHYLAMINE SALT	< 0.01			
MCPP-P, DIMETHYLAMINE SALT	0.04			
MECOPROP-P	0.15			
METALDEHYDE	1.53			
METHOPRENE	0.02			
S-METHOPRENE	0.67			

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METHYL ANTHRANILATE	0.43			
MSMA	0.28			
MUSCALURE	0.12			
NICARBAZIN	< 0.01			
NOVIFLUMURON	0.24			
N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE	10.15			
OXADIAZON	5.00			
PERMETHRIN	1,237.50			
PERMETHRIN, OTHER RELATED	0.02			
PETROLEUM DISTILLATES	1.34			
PHENOTHRIN	1.01			
PHENYLETHYL PROPIONATE	3.72			
PHOSPHORIC ACID	0.87			
PIPERONYL BUTOXIDE	606.91			
PIPERONYL BUTOXIDE, OTHER RELATED	150.62			
POLYACRYLAMIDE POLYMER	1.13			
POLYBUTENES	0.84			
PRALLETHRIN	0.32			
PROPICONAZOLE	5.99			
PROPOXUR	0.49			
PYRETHRINS	153.40			
PYRIPROXYFEN	1.09			
SILICA AEROGEL	14.55			
SILICONE DEFOAMER	0.12			
SODIUM XYLENE SULFONATE	1.36			
STRYCHNINE	0.03			
SULFAQUINOXALINE	< 0.01			
SULFLURAMID	< 0.01			
SULFURYL FLUORIDE	2,343.10			
Z,E-9,12-TETRADECADIEN-1-YL ACETATE	2.33			
TETRAMETHRIN	0.01			
ALPHA-[PARA-(1,1,3,3-TETRAMETHYLBUTYL)PHENYL]-OMEGA-HYDROXYPOLY(OXYETHYLENE)	5.16			
TETRAPOTASSIUM PYROPHOSPHATE	0.68			
THIAMETHOXAM	10.47			
THIOPHANATE-METHYL	9.09			
THYME	6.15			
TRICLOPYR, BUTOXYETHYL ESTER	0.06			
TRIETHANOLAMINE	1.73			
TRINEXAPAC-ETHYL	16.18			
WARFARIN	< 0.01			
ZINC PHOSPHIDE	0.28			
Site Total	10,732.90			
SWISS CHARD				
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES	1.24	3	2.30	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL	7.83	4	2.55	A
MINERAL OIL	7.65	3	2.75	A
POTASH SOAP	5.06	3	2.80	A
PYRETHRINS	< 0.01	2	0.02	A
Site Total	21.79	15		
TANGERINE				
GLYPHOSATE, ISOPROPYLAMINE SALT	12.48	6	25.50	A
GLYPHOSATE, POTASSIUM SALT	8.19	2	8.00	A

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Site Total		20.67	8		
TOMATO					
AZADIRACHTIN		< 0.01	7	6,100.00	U
BACILLUS THURINGIENSIS, SUBSP. KURSTAKI, STRAIN ABTS-351, FERMENTATION SOLIDS AND SOLUBLES		0.54	1	1.50	A
CLARIFIED HYDROPHOBIC EXTRACT OF NEEM OIL		0.02	1	0.50	A
ESFENVALERATE		< 0.01	1	0.25	A
POTASH SOAP		0.02	1	0.50	A
PYRETHRINS		< 0.01	1	0.50	A
SULFUR		5.70	16	15,400.00	U
Site Total		6.29	26		
UNCULTIVATED AG					
		0.15		6.00	A
		2,242.35	1	151.00	A
		0.09	1	12.40	A
		2.49		1.28	A
		0.05	1	12.40	A
		0.08		0.20	A
		171.86	31	158.41	A
		4.05	1	15,000.00	S
	175.91				
		538.14	6	233.53	A
		26.78		143.00	U
	564.92				
		0.05	1	12.40	A
		0.05	1	12.40	A
		9.55	1	7.50	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY					
		1.05	1	7.50	A
		0.02	1	12.40	A
		55.65	2	239.00	A
		0.56	1	0.30	A
		0.42		0.36	A
		0.07		15.00	A
		0.01	1	7.50	A
		3.60	1	1.00	A
ALPHA-[PARA-(1,1,3,3-TETRAMETHYLBUTYL)PHENYL]-					
		0.35	1	12.40	A
		16.34	2	13.00	A
		20.17	1	12.50	A
		3,093.93	49		
UNCULTIVATED NON-AG					
AMINOPYRALID, TRIISOPROPANOLAMINE SALT		1.18		175.00	A
		< 0.01	1	25.00	A
		2.66		200.00	A
		1.72	3	5.51	A
		1.49		18.00	U
	3.22				
		0.30		200.00	A
		15.77		179.00	A
		0.04		100.00	A
		23.17	4		

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VEGETABLE				
GLYPHOSATE, ISOPROPYLAMINE SALT	3.98	1	1.00	A
PYRETHRINS	0.02	1	1.00	A
Site Total	3.99	2		
VERTEBRATE CONTROL				
BROMADIOLONE	< 0.01			
DIPHACINONE	< 0.01			
Site Total	< 0.01			
WALNUT				
ABAMECTIN	20.11	16	908.25	A
ACETAMIPRID	4.20	1	35.00	A
ALPHA-ALKYL (C9-C11)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	5.07	3	68.00	A
ALKYL (C8,C10) POLYGLUCOSIDE	101.74	12	316.00	A
AMMONIUM NITRATE	49.10	15	384.00	A
AMMONIUM SULFATE	126.85	17	484.00	A
BIFENTHRIN	76.08	6	412.00	A
BUTYL ALCOHOL	0.74	2	16.00	A
CARFENTRAZONE-ETHYL	3.07	5	133.00	A
CHLORANTRANILIPROLE	273.41	3	201.25	A
CHLORPYRIFOS	2,237.94	14	1,168.00	A
CITRIC ACID	1.83	2	100.00	A
CODLING MOTH GRANULOSIS VIRUS	< 0.01	4	49.00	A
COPPER HYDROXIDE	3,505.00	42	2,619.50	A
COPPER OXYCHLORIDE	2,178.34	30	1,816.50	A
CORN PRODUCT, HYDROLYZED	250.26	11	170.00	A
BETA-CYFLUTHRIN	0.10	5	38.50	A
DIETHYLENE GLYCOL	155.13	24	1,105.70	A
DIMETHYLPOLYSILOXANE	5.51	52	2,027.20	A
E,E-8,10-DODECADIEN-1-OL	< 0.01	3	9.00	U
FATTY ACIDS, MIXED	276.27	24	1,105.70	A
GAMMA-CYHALOTHRIN	0.24	2	12.50	A
GLUFOSINATE-AMMONIUM	2.19	2	16.00	A
GLYCEROL	10.04	2	100.00	A
GLYPHOSATE, ISOPROPYLAMINE SALT	679.28	12	378.35	A
GLYPHOSATE, POTASSIUM SALT	2,745.93	51	1,598.10	A
HEXYTHIAZOX	55.59	6	362.00	A
HYDROTREATED PARAFFINIC SOLVENT	138.63	10	612.00	A
IMIDACLOPRID	5.50	8	95.50	A
ISOPROPYL ALCOHOL	35.07	21	582.85	A
KAOLIN	1,710.00	4	36.00	A
LAMBDA-CYHALOTHRIN	0.20	1	6.25	A
LAURYL ALCOHOL	< 0.01	3	9.00	U
MANCOZEB	5,135.09	42	2,619.50	A
METHYLATED SOYBEAN OIL	402.14	16	468.00	A
METHYL SILICONE RESINS	108.38	9	411.25	A
MINERAL OIL	126.80	4	117.35	A
MYRISTYL ALCOHOL	< 0.01	3	9.00	U
4-NONYLPHENOL, FORMALDEHYDE RESIN, PROPOXYLATED	268.21	8	576.00	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)	1,040.66	73	2,784.55	A
ORYZALIN	96.93	2	46.60	A
OXYFLUORFEN	611.16	41	1,162.40	A

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PARAQUAT DICHLORIDE		1,436.23	29	1,149.48	A
PENDIMETHALIN		1,295.74	18	547.30	A
PENOXSULAM		1.73	2	56.00	A
PHOSPHORIC ACID		71.58	14	478.35	A
POLYACRYLAMIDE POLYMER		1.01	2	100.00	A
POLYETHYLENE GLYCOL		106.16	9	204.50	A
POLYETHYLENE GLYCOL MONO(3-(TETRAMETHYL-1-(TRIMETHYLSILOXY)DISILOXANYL)PROPYL)ETHER		29.91	5	385.00	A
PROPYLENE GLYCOL		15.21	5	385.00	A
RIMSULFURON		18.75	13	385.10	A
SAFLUFENACIL		15.36	13	351.00	A
SILICONE DEFOAMER		0.40	13	377.00	A
SODIUM HYDROXIDE		5.50	2	100.00	A
SPINETORAM		1.37	1	12.50	A
SPIROTETRAMAT		1.26	4	82.50	A
TALL OIL		41.26	8	576.00	A
TALL OIL FATTY ACIDS		6.25	2	36.00	A
ALPHA-2,6,8-TRIMETHYL-4-NONYLOXY-OMEGA-HYDROXYPOLY(OXYETHYLENE)		55.77	5	385.00	A
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)		404.19	24	1,105.70	A
Site Total		25,950.52	459		
WATER (INDUSTRIAL)					
1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN		1,084.02		4.00	U
		135.50		1.00	A
Total Pounds On This Chemical	1,219.52				
2,2-DIBROMO-3-NITRILOPROPIONAMIDE		1,332.44		7.00	U
1,3-DICHLORO-5,5-DIMETHYLHYDANTOIN		578.01		4.00	U
		72.25		1.00	A
Total Pounds On This Chemical	650.26				
1,3-DICHLORO-5-ETHYL-5-METHYLHYDANTOIN		318.01		4.00	U
		39.75		1.00	A
Total Pounds On This Chemical	357.76				
GLUTARALDEHYDE		85.74		2.00	A
SODIUM BROMIDE		458.01		6.00	U
		54.76		2.00	A
Total Pounds On This Chemical	512.77				
SODIUM HYPOCHLORITE		315.60		6.00	U
		37.73		2.00	A
Total Pounds On This Chemical	353.33				
Site Total		4,511.81			
WATER AREA					
COPPER ETHANOLAMINE COMPLEXES, MIXED		1,286.12		385.00	U
		155.18	1	62.22	A
		0.82		19,000.00	S
Total Pounds On This Chemical	1,442.12				
COPPER SULFATE (PENTAHYDRATE)		46.60		17.64	A
		5.28		2,054,587.36	C
		1.35		133,898.00	S
Total Pounds On This Chemical	53.24				
2,2-DIBROMO-3-NITRILOPROPIONAMIDE		203.63		1.00	U
DIQUAT DIBROMIDE		126.15		248.00	U
		59.30		45.32	A
		2.56		1,251,158.47	C
		0.91		83,832.00	S

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Total Pounds On This Chemical	188.93				
ENDOTHALL, DIPOTASSIUM SALT		19.04		7.50	A
FATTY ACIDS, C16-C18 AND C18-UNSATURATED, METHYL ESTERS		4.66		224.00	U
		0.10		3.00	A
Total Pounds On This Chemical	4.77				
FLURIDONE		4.15		36.00	U
		3.54		6.00	A
Total Pounds On This Chemical	7.69				
GLYPHOSATE, ISOPROPYLAMINE SALT		20.05		6.75	A
		0.08		28,109.00	S
Total Pounds On This Chemical	20.13				
HYDROGEN CHLORIDE		23.99		31.00	U
LIMONENE		23.32		224.00	U
		0.51		3.00	A
Total Pounds On This Chemical	23.83				
ALPHA-UNDECYL-OMEGA-HYDROXYPOLY(OXYETHYLENE)		3.11		224.00	U
		0.07		3.00	A
Total Pounds On This Chemical	3.18				
Site Total		1,990.54	1		
WATER FILTER					
SODIUM HYPOCHLORITE		23.8		8.00	A
		6		5.00	U
Total Pounds On This Chemical	32.61	8.75			
Site Total		32.61			
WHEAT					
ALKYL (C8,C10) POLYGLUCOSIDE		10.68	1	100.00	A
AMMONIUM NITRATE		5.08	1	100.00	A
AMMONIUM SULFATE		10.17	1	100.00	A
CARFENTRAZONE-ETHYL		0.47	1	40.00	A
CASTOR OIL ETHOXYLATE		2.46	1	40.00	A
DIMETHYLPOLYSILOXANE		0.18	2	200.00	A
ISOPROPYL ALCOHOL		2.10	1	100.00	A
MCPA, DIMETHYLAMINE SALT		22.15	1	40.00	A
MESOSULFURON-METHYL		1.87	2	140.00	A
ALPHA-(PARA-NONYLPHENYL)-OMEGA-HYDROXYPOLY (OXYETHYLENE)		24.30	1	100.00	A
POLYETHYLENE GLYCOL		13.26	1	100.00	A
POLYOXYETHYLENE SOYBEAN OIL FATTY ACID ESTER		18.45	1	40.00	A
TALL OIL		2.46	1	40.00	A
Site Total		113.62	7		
WHEAT (FORAGE - FODDER)					
MCPA, DIMETHYLAMINE SALT		549.15	2	582.00	A
VINYL POLYMER		2.55	2	582.00	A
Site Total		551.70	4		
Placer County Total		303,082.73	4,695		