Contra Costa County Staff Responses to Issues Raised by the Public Regarding the County Integrated Pest Management Program

January 29 January 31, 20 20 19

Date(s) Issue Raised to: TWIC = Transportation, Water & Infrastructure Committee IPM = IPM Committee or subcommittees IO=Internal Operations Committee	Issues Raised by the Public	Steps taken by the IPM Advisory Committee and County Staff from January 2009 to the present
	Using glue boards for rodents	in County buildings
11/16/16-IPM 3/16/17-IPM 1/18/18-IPM 1/17/19-IPM	From Parents for a Safer Environment (PfSE) "The rodent control method that is horrible in particular is the use of glue boards in the county buildings. I hope to see this deplorable practice stop before the beginning of the NewYear. (11/16/16)	Pestec, the County's structural IPM contractor, used a small number of glue boards in 2016. In the past, glue boards have been used from time to time in detention facilities at the request of the Sheriff who is concerned that snap traps, the alternative, could be used by inmates as weapons. Pestec now has access to the interior space between the walls of cells where mice can roam, so technicians are able to set snap traps in those areas. Glue boards are not currently used at any facilities in the County. The County will keep glue boards as a tool for rodent control that will be used when there is no effective alternative.
	Choosing topics and speakers	s for the IPM Advisory Committee meetings
1/18/18-IPM 3/15/18-IPM 5/17/18-IPM 1/17/19-IPM 5/16/19-IPM 11/21/19-IPM 1/16/20-IPM	Choosing topics and speakers From Parents for a Safer Environment (PfSE) Speakers suggested by PfSE have not been chosen to give presentations to the IPM Committee. "The Committee agreed in 2018 that a subcommittee would be created to receive recommendations and select 4 to 5 expert speakers selected to present each year. There is still no transparency on how the speakers are being selected to date and it's May, 2019Allowing two individuals, even if it's the IPM Coordinator and the Chair, who do not disclose the process in which speakers are invited or rejected is not acceptable. This would not be an issue except that there have been speakers who provide disingenuous data like the LD50 acute toxicity charts without explaining that this does not address chronic toxicity like cancer and telling the Committee that caffeine, aspirin and salt are more "toxic" than pesticides. Also, having a speaker who has no	 The IPM Advisory Committee meetings The public has always been able to participate in suggesting speakers and topics for the IPM Committee meetings. A number of speakers and/or topics suggested by the public have been used over the years. In 2018, the IPM Committee spent several meetings on defining how speakers and topics will be chosen, with full participation of the public. The Committee now has a written policy that has been unanimously approved by the members. On 7/19/18, the IPM Advisory Committee unanimously accepted the following policy for selecting speakers: IPM Advisory Committee Policy on Choosing Topics and Speakers for Meeting Presentations The Committee welcomes the participation of the public in suggesting topics for presentations. At either the November or January meeting, the Committee will discuss possible topics and solicit ideas from the public. Suggested topics and/or speakers can be sent to the IPM Coordinator throughout the year. The Committee prefers topics that further the work of the Committee or its subcommittees, but this does not preclude other topics of interest to the Committee. The Committee chair and the IPM Coordinator will work together to choose the appropriate number of presentations from the Committee and the public, keeping in mind the mission statement in the Committee's bylaws. They will also choose presenters for each topic endeavoring to find people with the appropriate level of expertise. The ultimate decisions about topics and speakers will rest with the Committee Chair and the IPM Coordinator to follow the priorities set by the Committee.

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	expertise in toxicology and funded handsomly [sic] by the pesticide industry invited to convince the Committee that glyphosate being categorized as a carcinogen by the WHO IARC was political and not due to the weight of the scientific evidence was not only irresponsible but unethical. Selection of the presentation committee needs to get on the agenda ASAP." (5/16/19)	The Committee Chair and IPM Coordinator met in December 2019 to discuss the proposed list and solicited citizen and committee feedback in the 1/16/20 meeting. A spreadsheet documenting the proposed speakers along with the rationale for not considering certain speakers was included in the agenda packet for that meeting. Three citizens spoke out against the proposed speaker for the November 2020 meeting and one citizen spoke out against the proposed September 2020 speaker. The IPM Coordinator met to discuss these concerns with the Committee Chair on 1/30/20. It was agreed that the IPM Coordinator would rescind the invitation for the November speaker, but still plan on the September presenter addressing the Committee at that time. This modification to the 2020 will be announced at the March meeting of the IPM Advisory Committee.
	Citizens and Committee members made recommendations for speakers to invite to address the Committee in 2020 during the November 21 st IPM Committee meeting. (11/21/19) Citizens expressed concern about two of the speakers proposed during the January 16 th IPM Committee meeting. (1/16/20)	
	Herbicide spraying in a city pa	rk on Grayson Creek with no posting
3/1/18-IPM	From Parents for a Safer Environment (PfSE) "It was very upsetting to see these large areas treated with pesticide in such close proximity to where residents also spend time with their children and pets."	This should not have happened and as soon as the Public Works Department was alerted to the issue, they did an investigation and ultimately the employee responsible was disciplined.
	Using raptor perches to contro	ol ground squirrels
1/18/18-IPM 3/1/18-IPM 3/15/18-IPM 4/5/18-IPM 7/19/18-IPM 8/2/18-1PM	From Parents for a Safer Environment (PfSE) Ventura Co. has concluded a study showing that using perches for predatory birds reduce ground squirrel damage to levees by 50%. Contra Costa should adopt this method.	This was a small pilot study. Dr. Roger Baldwin, vertebrate specialist and researcher at UC Davis said he would not place a lot of weight on this study. "It is a small pilot study from which they are drawing 'massive' conclusions. Raptors 'may' be able to assist in some capacity, but they certainly aren't going to eliminate burrowing rodents from an area." In 2012, the Agriculture Department piloted the use of raptor perches in two Open Space areas. The installation of raptor perches did not seem to significantly reduce ground squirrel populations and ground squirrels undermined the footings of two of the raptor perches. Note that members of PfSE have been saying that the Agriculture Department used metal perches and that is why they did not work. This is not true. The perches are made of wood.
		The UC website, Ground Squirrel BMPs, says the following:

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		"In California, predators of ground squirrels include red-tailed hawks, eagles, and coyotes. As ground squirrels and their native predators have evolved over hundreds of years, ground squirrels have developed behaviors and abilities to avoid predation. In certain habitats, ground squirrels are frequent prey of rattlesnakes, though some ground squirrels have evolved a resistance to snake venom. Owls are nocturnal and do not generally prey on diurnal ground squirrels.
		"In the majority of situations, predators are not able to control ground squirrel populations."
		In 2019, an IPM Advisory Committee member corresponded with Ventura County
		staff to clarify various aspect of their raptor study. Copies of questions and answers to one such exchange is attached to the 2/21/19 Decision-Making Subcommittee meeting minutes.
	Chairing the IPM Committee s used to take notes	hould be rotated; a scribe not associated with the Committee should be
2/17/16-IPM 1/17/19-IPM	From Parents for a Safer Environment (PfSE)	• Every 2 years the Committee holds an election for officers. Anyone who wishes to chair the committee can nominate themselves.
	"Chairing the IPM Advisory Committee should be rotated among members who wish to chair. A Scribe should be independent of Committee members and staff involved with the IPM Program."	 The Committee elects a secretary to help take notes for the Committee's minutes which are written by staff. There is no outside person who could be a scribe.
	Staff has found no unique or i	nnovative pesticide alternatives in the Bay Area or Nation
11/4/15-IPM 2/17/16-IPM	From Parents for a Safer Environment (PfSE) "In the staff document provided titled 2015 IPM Program Accomplishments, I was very surprised to read that staff believes after reviewing programs throughout the 'Bay Area and the nation', that 'there is nothing unique or innovative in the Bay Area or the nation.'"	 PfSE appears to be concerned that staff has found no unique or innovative approaches to pest management. This concern seems to stem from a mis-reading of the 2015 IPM Program Accomplishments document in the section on the work history of the IPM Program Data Management subcommittee. The phrase actually reads: "Looked for data other than pesticide use to measure implementation of IPM in CCC; found nothing unique or innovative in the Bay Area or the nation"
	The IPM Coordinator does not review documents	allow the IPM Committee members and the public adequate time to
9/2/15-IPM	From Parents for a Safer Environment (PfSE)	• The IPM Coordinator sends out agenda materials in accordance with the Brown Act and County policy, which is 96 hours prior to the time of the public meeting.
	"People are often reluctant to admit that they have not had time to review documents before voting on minutes and other items.	 At the end of each meeting, the next meeting's agenda is planned so that members are aware of and can plan time for review of long or numerous documents.
	Committee members are likely to just go along with the majority and vote to accept documents as Staff	 Since the inception of the IPM Advisory Committee, the practice has been to distribute the minutes with the agenda materials. Because the by-laws were being updated to reflect the current designations for IPM Committee seats and to change public member terms, the IPM Coordinator proposed changing the by-

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	submits themIt is more reasonable to provide at least four to six weeks of time for volunteers to fit in the review amongst a busy schedule." (9/2/15) "I find it appalling that Staff would propose to totally eliminate the By-Laws language that requires a timely distribution of the meeting minutes to the IPM Advisory Committee. It has been difficult to read all the documents required for review within 5 days [from when] they are provided, which is a recent improvement to providing it 3 days prior to meetings that was practiced before my letter earlier this yearThe By-Laws currently states that minutes be distributed 1 week after the meetingI believe it's reasonable to amend [the by-laws] to distributing the materials within 2 weeks after the meeting to give staff time to prepare the meeting minutes, but eliminating this important timeline is not acceptable to the community." (9/2/15)	laws to reflect the current practice regarding distribution of the minutes. On 9/2/15 the IPM Committee members discussed these by-laws changes and heard comment from the public on the issue. The Committee voted to unanimously approve all the by-laws changes. The changes were approved by the full Board of Supervisors.
	IPM subcommittees should for	cus on pesticide use and not on bed bugs or removing turf
2/16/15-IPM 2/17/15-IPM 2/20/15-IPM 3/2/15-TWIC 3/4/15-IPM 5/6/15-IPM 8/6/15-IPM 9/2/15-IPM 11/4/15-IPM	From Parents for a Safer Environment (PfSE) Issue of the subcommittees working on bed bugs, a community problem, rather than County-only pesticide issues and working on turf removal around buildings rather than on pesticide use in rights-of-way	 Bed bugs affect 1000s of Contra Costa residents, both in municipalities and the unincorporated areas of the County. In order to get relief, desperate citizens are using many different kinds of pesticides in the home, throughout the bedroom, and often on the bedding itself. Reports indicate that frequently pesticides are used to excess and in a manner contrary to the labeled directions. This intimate contact with, and misuse of, pesticides is very troubling. This is a serious issue of pesticide exposure and contamination as well as an issue of the well-being of Contra Costa residents that the County has an obligation to address. There are also bed bug issues that need to be addressed in County buildings. Staff and buildings are vulnerable where the public goes in and out of offices frequently and in large numbers. Staff and supervisors need training in identifying risks, actual infestations, and opportunities for prevention. Converting turf to drought-tolerant landscaping accomplishes several things: Reduces the need for weed control and thus for herbicides. The limited irrigation and wood chip mulch between the drought-tolerant plants is not conducive to weed growth, Few weeds sprout in the dry soil under the mulch, and those that do sprout can often be hand-pulled. Addresses herbicide use near buildings, which is where people have the

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		greatest chance of being exposed to these pesticides.
		\circ Reduces maintenance hours because turf is a high maintenance plant.
		 Frees Grounds maintenance staff to better manage other landscapes and continue to reduce their use of pesticide.
		 Reduces the amount of electricity used to pump water, the amount of gas used in lawn mowers and trimmers and in trucks to travel to and from sites for maintenance, and reduces the amount of pesticide and fertilizer used in maintaining the turf. This reduces greenhouse gas emissions.
		 Demonstrates that the County is a leader in landscaping more wisely for the arid climate in which we live.
	County not tracking pesticide channels, and County-owned	use separately for Public Works rights-of-way/roadsides, flood control parcels
3/2/15-IPM 8/26/15-Email 3/16/16-IPM 1/17/19-IPM	From Parents for a Safer Environment (PfSE): "We do not see any good reason why pesticide usage is not being provided to the community for each roadside and flood control program." (3/2/15) "Posting online of pesticide use reports from each program simultaneously as they are	 The County has always tracked pesticide use separately for roadsides, flood control channels, and County-owned parcels, but because of a recent change in the way the Department reported pesticide use to the State of California, the state Pesticide Use Reports for FY 12-13 and FY 13-14 were not separated. The database that Public Works uses to track pesticide use cannot produce reports for PfSE that are user friendly since the database was never intended to be a pesticide use reporting tool. As a courtesy to PfSE, the Department has resumed separating pesticide use for the 3 programs when it reports to the state. These Pesticide Use Reports have been provided to PfSE for FY 14-15. There is not the staff available to post each of the monthly pesticide use reports
	generated [monthly]" (1/17/19)	on the IPM website, and there has been no interest for this expressed by the public except PfSE. These reports are public records and are available for anyone who wants to request them.
	Report the total amount of pes	ticide used not just the active ingredients
8/26/15-Email 11/4/15-IPM	From Parents for a Safer Environment (PfSE): "Report total amount, not just the	 In the spread sheet prepared by the IPM Coordinator every year for pesticide use by County operations, the total amount of pesticide product used is recorded as well as the total amount of pesticide active ingredient used for each product.
	active ingredients of pesticides used in usage spreadsheet"	 The California Department of Pesticide Regulation reports pesticide use for the state in pounds of active ingredient. The County has adopted this system so that pesticide use reporting is aligned with the state. But as noted above, the County spreadsheet also records total pounds or gallons of pesticide product used. The spreadsheet is posted on the IPM website and attached to the annual report.
	Corrections to the minutes of	the IPM Advisory Committee or its subcommittees requested by PfSE
5/6/15-IPM 6/9/15-IPM 8/6/15-IPM 7/20/16-IPM	From Parents for a Safer Environment (PfSE) Issue of PfSE requesting changes to the minutes and then changes are not made	 The IPM Committee of its subcommittees requested by FISL The IPM Committee members vote on whether or not to make corrections to the minutes. The members do not always vote to make PfSE's corrections, additions, and changes. The IPM Coordinator includes written changes from PfSE (as well as other public comment) as attachments to the official record of the meeting. The official agenda, minutes, public comment, and other attachments are posted on the IPM website.
	The herbicide Roundup (active	e ingredient glyphosate) has been designated as a probable human

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Committee	earsing can by the World Healt	th Organization's International Agency for Becourse on Concer (IABC)
		th Organization's International Agency for Research on Cancer (IARC)
6/9/15-IPM 7/8/15-IPM 8/6/15-IPM 9/2/15-IPM 7/20/17-IPM 11/16/17-IPM	From Parents for a Safer Environment (PfSE): "Considering that RoundUp products with the active ingredient, glyphosate, is [<i>sic</i>] being applied at the rate of nearly 1,000 lbs annually in the Grounds	 In 2015, he IPM Coordinator attended meetings in San Francisco with IPM coordinators and city and county staff from around the Bay to discuss the Roundup issue. At this point we do not have a less hazardous product with equivalent efficacy to replace Roundup, but we continue to look for one. The Grounds Division uses Roundup as a spot treatment and uses a little as necessary. In FY 14-15 the Grounds Division used 311 lbs. of glyphosate, the active ingredient in Roundup.
1/18/18-IPM 9/20/18-IPM <u>5/16/19-IPM</u> 7/18/19-IPM	Program alone, and that glyphosate has been listed as a Probable Human Carcinogen by the World Health Organization earlier this year, are there any plans by the county to eliminate	• The most serious risk of exposure to Roundup is to the applicator because that person is in close contact with the material, sometimes daily. The law and the County require applicators to wear personal protective equipment and to be trained annually to prevent exposure. In light of the new probable carcinogen designation, the County is looking at whether there are additional precautions that should be taken to protect workers.
	this risky chemical to reduce exposure to the community and wildlife?" Fred Schneider, PhD,	• IARC identifies the potential for a chemical to cause cancer but does not quantify any increased risk to people from a chemical so designated nor does it recommend a safe level of exposure. Those designations are left up to regulatory agencies around the world. The County is waiting for the USEPA to complete its review of glyphosate.
	Communications Director for Parents for a Safer Environment	 On 11/12/15, the European Food Safety Authority ruled that glyphosate probably does not cause cancer in humans despite IARC's findings.
	submitted a document entitled: Glyphosate & Monsanto Chronological Background Compiled from Published Reports and Media News Articles The document is attached to the	 In March 2017, the Australian government's Pesticides and Veterinary Medicines Authority (APVMA) produced its Final Regulatory Position on whether to conduct a formal reconsideration of the chemical glyphosate. They stated that "[b]ased on this nomination assessment, the APVMA concludes that the scientific weight-of- evidence indicates that: exposure to glyphosate does not pose a carcinogenic or genotoxic risk to humans."
	IPM Advisory Committee minutes for the 5/16/19 meeting Sheila Hill noted that many	 In April 2017, Health Canada released the following statement, "Following a rigorous science-based assessment, Health Canada has determined that when used according to the label, products containing glyphosate are not a concern to human health and the environment."
	agencies are stopping the use of glyphosate. (7/18/19)	The County is still waiting for the final risk assessment from the USEPA.
	Mei Mei Collins from the California Public Interest Research Group (CALPIRG) wanted a clear date for stopping the use of glyphosate. (7/18/19)	 In November 2017, researchers updated the Agricultural Health Study, which is a 20-year study of the effects of glyphosate on over 54,000 licensed pesticide applicators from North Carolina and Iowa. They found no statistically significant associations with glyphosate use and cancer in any part of the body. However, among applicators in the highest exposure quartile, there was an increased risk of acute myeloid leukemia compared with those who had never used glyphosate, though this association was not statistically significant. The researchers noted that this association requires confirmation.
	Representatives from Parents for a Safer Environment (PASE) expressed concern that so much glyphosate was being used at West County Detention Facility particularly considering ICE- detained families being exposed to it. They were glad to see the overall reduction and encouraged	 In August 2018, a San Francisco jury awarded a Benicia School District employee \$289 million in his lawsuit alleging that Monsanto's glyphosate caused his non-Hodgkin's lymphoma. In October 2018, the judge in the case reduced the award to \$78 million. Monsanto is appealing the judgment. There may be some concern in the County about liability attached to continuing to use glyphosate to manage weeds. Both County Counsel and Risk Management are aware of the lawsuit. In their 7/18/19 meeting, the IPM Advisory Committee requested a review of glyphosate use by County operations to be part of the 9/19/19 agenda. The new IPM Coordinator presented a preliminary review of glyphosate usage at the

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	Contra Costa County to speak with other jurisdictions such as the East Bay Regional Parks who recently voted to phase out the use of glyphosate in developed parkland. (9/19/19) PASE indicated that they are against bare-earth herbicide treatments and instead favor cover crops and other options. A concern was also expressed regarding unwanted glyphosate exposure of inmates, workers, deputies, and others who spend time at the locations where high glyphosate usage was reported in FY 18-19. (9/26/19)	 9/19/19 meeting. That review and subsequent analysis noted that although current Countywide usage is trending downward, the Grounds Division use of herbicides containing dyphosate has been constant since 2011 and saw a near doubling of usage in FY 18-19 over the average of the previous seven years. The IPM Advisory Committee referred the issue to the Decision-Making Subcommittee who heard updated information in the meetings on 9/26/19 and 10/31/19. The West County Detention Facility. The Marsh Creek Range, The Buchanan Field and Byron Airports, and Juvenile Hall were the sites that had the highest usage of Glyphosate in FY 18-19. The dyphosate applied at those five facilities accounted for over 60% of all glyphosate usage in the entire County. The Decision-Making Subcommittee aims to help the County departments develop site-specific decision documents at these locations in order reduce the apparent reliance on post-emergent glyphosate applications and review the feasibility of managing vegetation using integrated strategies. In June 2019, The Board of Trustees of the Mt. Diablo Unified School District eliminated the use of glyphosate in the District. East Bay Regional Park District Board of Directors voted in July 2019 to phase out the use of glyphosate by their Maintenance Department. City staff estimated that an additional 1825,000 per year would be needed to pay for mechanical labor. In October 2019, the Clavton City Council approved a moratorium until Spring 2021 on the use of Glyphosate by their Maintenance Department. City staff estimated. In egard to the PASE comments about ICE detainees from the 9/19/19 IPM Advisory Committee meeting, Jill Ray clarified that the Office of the Sheriff no longer has a contract with ICE and that this facility is only for adults and no children were detained. In a letter dated August 7, 2019. The EPA clarified that it "disagrees with IARC's assessment of glyphosate. EPA scientifies they Proposition 65 w

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		 restorative beauty of the facility. Innovative and regenerative strategies are prioritized and are consistent with the stated mission of each department as follows: "Public Works employees deliver cost effective, safe, reliable and sustainable projects, programs and quality services with a focus on our communities and provide support services that are competitive, attentive, responsive, efficient and safe to enable County Departments to provide high quality services to the public." "The Office of the Sheriff works in partnership with our diverse community to safeguard the lives, rights and property of the people we serve. With unwavering dedication we provide innovative professional law enforcement services to our community. We accomplish this mission by maintaining our Core Values (Honor—Courage—Commitment—Leadership—Teamwork) while always conducting ourselves with the highest ethical standards." One focus of the draft document involves alternative site programming, asserting that the facility was "designed to operate as a co-educational, program-oriented facility.' A deeper exploration of potential strategic partnerships that will maximize land-asset utilization is warranted. The 2011 Public Safety Realignment Act (Assembly Bill 109) placed additional responsibility for Counties to house low level offenders locally, provide post-incarceration supervision, and allocate associated revenues from the state. The current landscape maintenance arrangement between the Office of the Sheriff and Public Works may not have the capacity to manage the site beyond the reactive methods currently employed. However, existing reentry partnerships could be enhanced—and potentially funded—through AB 109 sources. Some County-stated objectives in this regard aspire to 'create linkages between the incarcerated person and various needed services and community programs, and to 'Explore options to maximize use of local jail facilities to serve the needs of the AB 109 population.' There are multiple r
		potential collaborative strategies." c comment for items not on the agenda are not answered by the IPM
8/6/15-IPM 7/20/16-IPM 9/21/16-IPM 3/16/17-IPM 11/16/17-IPM 1/11/18 Email 1/18/18-IPM	Committee From Parents for a Safer Environment (PfSE): "please allow ample time for answering and discussing these 6 questions as listed in order of priority at the next meeting agenda. Community members have been waiting patiently since last year for most of these questions to be addressed."	 The IPM Committee does not take up and discuss issues that are not on the published agenda for the meeting as this would be a violation of the Brown Act. Members of the Committee can request to have public concerns put on the agenda for a future meeting.
	IPM Committee members sho	uld RSVP for each meeting
6/9/15-IPM 7/8/15-IPM 8/6/15-IPM	From Parents for a Safer Environment (PfSE): "I attended the April 14, 2015	IPM Committee members alert the IPM Coordinator when they know they will be late or will be missing a meeting of either the full committee or a subcommittee. Unfortunately, unexpected circumstances do arise from time to time. The Weedee because the subcommittee the full of the subcommittee of the sub
11/16/17-IPM	meeting when we waited for over 30 minutes for staff and	 The Weed subcommittee meeting on April 14, 2015 was the first meeting of the full IPM Committee or any of its subcommittees that had to be cancelled for lack of

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	community members on the [Weed sub] Committee to arrive to no avail. Staff had to regretfully cancel the meeting due to lack of a quorumconsider asking for a heads-up from committee members if they cannot attend a future IPM meeting." (6/9/15 and 7/8/15) "Would the county request Committee members to provide in writing, anticipation of absenteeism so that those who arrive at meetings are not waiting for an hour only for the meeting to be cancelled due to lack of a quorum." (8/6/15)	a quorum since the IPM Advisory Committee was formed in 2010.
	Quorums have been disregard	led in previous subcommittee meetings
6/9/15-IPM 7/8/15-IPM	From Parents for a Safer Environment (PfSE): "According to Shirley Shelangoski who had attended all subcommittees between 2012- 2014, quorums were not considered in subcommittees until the recent year. Before, subcommittee meetings were held regardless of a lack of quorum."	All subcommittees consider whether or not there is a quorum before proceeding with a meeting. Attendance is tracked in each set of minutes.
	Absences on the IPM Commit	tee
8/6/15-IPM 8/26/15 Email 1/17/19-IPM	From Parents for a Safer Environment (PfSE): "Will the county track absenteeism and provide the data annually so that those who missed more than two in a given year be considered for removal from membership as stated in the By-Laws?"	 Absences are tracked in the minutes of every meeting of the full IPM Committee and each of its subcommittees. Attendance at meetings is reported annually to the Board of Supervisors. The Grounds Division itself does not have a seat on the IPM Committee. Facilities and Grounds is represented by Jerry Casey of Facilities.
	Grounds Division rep is absent from meetings.(1/17/19)	
	Pesticide Use around the Hazardous Materials Office and Co. Admin Bldg in Martinez	
2/20/15-IPM 8/615-IPM 2/17/16-IPM	From Parents for a Safer Environment (PfSE) Issue of members of PfSE observing pesticide use around	 The Hazardous Materials Program rents space from ERRG, a company that occupies the top floor of the building. They and not the County are responsible for maintaining the building and the property. The County's posting policy does not require private owners of buildings to post

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Committee 11/16/16-IPM 1/17/19-IPM	the Hazardous Materials Office at 4585 Pacheco Blvd. in Martinez without posting "Currently, pesticides are used outside the auspices of the County IPM program in many buildings, including the Hazardous Materials building and the County Administration building." (2/17/16)	 their pesticide use. On 8/6/15, PfSE videoed a Clark Pest Control technician spraying around the building at 4585 Pacheco Blvd. Clark, the contractor for ERRG, was using a pesticide called indoxacarb for ants that had been invading the building, particularly the top floor. Indoxacarb is listed as a "reduced risk" pesticide by the USEPA and is used by Pestec, the County contractor, in baits for cockroaches and ants. Hazardous Materials staff who experienced ant problems were educated by the IPM Coordinator, all food debris was removed, and boric acid baits were used in the two Hazardous Materials offices with ants trailing through. No pesticides are being used in or around the County Administration building at 651 Pine Street that are not applied by Pestec, the County contractor, as part of the County IPM program. We are not aware of any pesticides being used at other County buildings that are not applied by Pestec. If PfSE has specific evidence of this happening, we would gladly investigate.
	IPM Contract Language and re	eviewing contracts
11/6/13-IPM 12/5/13-TWIC 2/26/14-IPM 3/5/14-IPM 3/6/14-TWIC 8/26/15-Email 2/17/16-IPM 9/15/16-IPM 1/17/19-IPM	From Parents for a Safer Environment (PfSE): "the county still does not have IPM language in its contracts with pest control contractors" "Contractors conducting pest control should be evaluated annually by the IPM Advisory Committee and contracts bid upon and assessed for a strong IPM track record." (2/17/16) "The Public Works Dept's Special District currently has on its payroll, a contractor who did not have to bid with IPM experience as a criteria and uses only rodenticides, including 2 nd generation [<i>sic</i>] in public parks." (2/17/16) Concerns about the letter from Special Districts to its contractors explaining the IPM approach expected of them. (9/15/16)	 2009: the IPM Coordinator and County staff added IPM language to the contract for pest management in & around Co. buildings. The contractor emphasizes education, sanitation, and pest proofing as primary solutions. Insecticides, mainly in the form of baits, are used as a last resort. For the control of rats and mice in and around County buildings, the County only uses sanitation, education, and trapping. Special Districts currently hires only 1 contractor for pest control. He is employed by means of a purchase order, which is not an appropriate vehicle for IPM contract language; however, as a condition of his employment, he is required to abide by the Public Works "Landscape Design, Construction, and Maintenance Standards and Guidelines"¹ which contain language outlining the IPM approach. This also applies to any other contractor hired by Special Districts. this has been explained to PfSE several times. Spring 2012: to reinforce the IPM standards, the Special Districts Manager sent a letter to each Special Districts 'contractor detailing the IPM approach expected of them. This is an on-going practice and any new contractors will receive the same letter to emphasize the County's IPM principles. On 11/28/12, Susan JunFish asked for Special Districts contracts, purchase orders, and letters mentioned above that were sent out by Special Districts. On 2/14/13, Susan JunFish asked again for copies of the letters and was sent them on 2/15/13. The Grounds Division occasionally hires a contractor to apply pesticides that the Division does not have staff or equipment to apply itself. The IPM Coordinator considers that these contracts or purchase orders do not require IPM language because the contract is pired for a specific pesticide application and not to perform IPM services or make any IPM decisions. In these cases the Grounds Division has already gone through the IPM decision making proces sand has

¹ <u>http://www.co.contra-costa.ca.us/index.aspx?nid=2147</u>

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Committee		decided the operities work ordered is oppropriate
		decided the specific work ordered is appropriate.Reviewing contracts has not been in the purview of the IPM Advisory Committee.
		 The 1 contractor hired by Special Districts for pest control (see also the 2nd bullet, above) uses mostly trapping for vertebrate pests. In FY 15-16, he used 0.02ounces of the rodenticide active ingredient diphacinone (a 1st generation anticoagulant). He does not use any 2nd generation anticoagulants.
		 Since the IPM Program began reporting data on pesticide use in Special Districts in FY 08-09, no 2nd generation anticoagulants have been used.
		• The concerns expressed by Susan JunFish on 9/15/16 about the clarity and detail of the letter to contractors are valid and the Decision-Making subcommittee will take up these concerns.
	Unprofessional Behavior by Co	ounty Staff
11/6/13-IPM 11/13/13-IO 12/5/13-TWIC 2/26/14-IPM 3/5/14-IPM 3/6/14-TWIC	From Parents for a Safer Environment (PfSE): "serious pattern of hostile and unprofessional treatment to the community by County staff" "continued name-calling, shouting, and put-downs by county staff and Committee members at IPM meetings" "require staff to take training in order to learn how to work productively in public meetings"	 Staff disagree with the assertions that staff have been hostile or unprofessional toward members of PfSE or that staff have engaged in name-calling, shouting, or put-downs in any committee meetings. However, without reference to specific incidents on specific dates, it is impossible for staff to respond in detail. Members of the public have always had ample opportunity (within defined limits) to participate in all aspects of IPM Committee meetings. Starting in 2014, IPM full committee and subcommittee meetings will strictly adhere to the Ground Rules adopted unanimously by the IPM Committee on May 5, 2010. The IPM Coordinator will distribute Committee Ground Rules with each agenda packet. This will make public participation more fair and prevent one or a few individuals from dominating public comment. This course of action should limit the potential opportunities for improper discourse.
	Make Audio and/or Video Rec	ordings of IPM Committee Meetings
3/6/14-TWIC 3/2/15-TWIC 2/17/16-IPM 1/17/19-IPM	From Parents for a Safer Environment (PfSE): "record meetings with a camcorder" "The Community requested to have IPM related meetings recorded to achieve accurate meeting minutes that reflect what actually happened at the meetings and to encourage professional	 Vince Guise, Agricultural Commissioner in 2013, suggested that meetings be audio recorded (no video). The issue may be taken up at a future IPM Committee meeting. No other advisory bodies video or audio record their meetings. If the public wishes to record meetings, they may do so and should announce their intention at the beginning of the meeting. It appears that PfSE is recording all IPM Committee meetings on a laptop, so they will be able to reference those recordings if need be. At the January 18, 2018 IPM Committee meeting, Carlos Agurto, representative
	behavior."	from Pestec, the County's structural IPM Contractor, volunteered to be secretary to the Committee. He will make audio recordings of the meetings and provide the IPM Coordinator with at transcript. With audio recordings, video is not necessary.
		rents for a Safer Environment by the IPM Coordinator
2/12/14-TWIC 3/5/14-IPM 3/6/14-TWIC 2/17/16-IPM	From Parents for a Safer Environment (PfSE): "we ask that in the future, [County] staff not contact the community and pressure them to retract their	On November 13, 2013, Margaret Lynwood submitted a written public comment to the Internal Operations Committee. In the comment, she stated that she had "been attending pesticide related meetings and [had] discovered a serious pattern of hostile and unprofessional treatment to the community by county staff." Since Ms. Lynwood did not provide specific details, and the IPM coordinator had no record of her

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	public comments"	attending and did not remember seeing her in the last 4 years at any IPM Committee or subcommittee meetings, but only at TWIC and IO meetings, she contacted Ms. Lynwood by phone to understand her concerns and ask her if she felt that County Supervisors or other staff in TWIC or IO meetings had exhibited unprofessional behavior. She said, "No," and was unable to cite a specific instance when she had witnessed such behavior. The IPM Coordinator did not ask her to retract her public comment.
	Use of Pre-Emergent Herbicic	des
11/6/13-IPM 12/5/13-TWIC	From Parents for a Safer Environment (PfSE): "The Community wants to be assured that the Public Works Dept does not use pesticides along the Flood Control District that has [<i>sic</i>] residual activity before a forecasted rainstorm."	 This is an issue about pre-emergent herbicides and was discussed in a subcommittee meeting on 10/29/13 and again in the Advisory Committee meeting on 11/6/13. Both meetings were attended by both Susan JunFish and Shirley Shelangoski of PfSE. The following points were made: Pre-emergent herbicides have residual activity by design because they are meant to prevent the germination of weeds over an extended period of time, sometimes a number of weeks. Pre-emergent herbicides are used by Public Works as part of their herbicide rotation program to prevent the development of herbicide-resistant weeds. Herbicide rotation is one of a number of best practices strongly recommended by the University of California and many other researchers to prevent herbicide resistance². Creating herbicide-resistant weeds is considered an extremely serious problem by weed scientists throughout the world. Pre-emergent herbicides need irrigation or rainfall shortly after their application, typically within a few days to several weeks, to carry them shallowly into the soil where they become active. Because there is no irrigation on flood control access roads, pre-emergent herbicides must be applied prior to a rain event. The Department follows all label requirements for the application of pre-emergent herbicides (and all other herbicides can reduce the total amount of herbicide needed to control weeds in the County because it takes a smaller amount of pre-emergent herbicide to control weeds in an area than it would using a post-emergent herbicide.
	life) herbicide on flood control channel slopes without considering its half-
3/5/14-IPM 3/6/14-TWIC	From Parents for a Safer Environment (PfSE): "We want the Public works	Staff has reviewed EPA documents for triclopyr reregistration; information on triclopyr in the Nature Conservancy's <i>Weed Control Methods Handbook</i> ; information on triclopyr in the Weed Science Society of America's <i>Herbicide</i>

² 2012. Norsworthy, Jason K., et al. Reducing the Risks of Herbicide Resistance: Best Management Practices and Recommendations. *Weed Science* 2012 Special Issue:31-62.

^{2000.} Prather, Timothy S., J.M. DiTlmaso, and J.S. Holt. Herbicide Resistance: Definition and Management Strategies. University of California, Division of Agriculture and Natural Resources Publication #8012. 14 pp.

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8/26/15-Email	Department to consider the residual activity (or half-life) of pesticides prior to application. Particularly along the Flood Control District before a forecasted rain that can wash pesticides into the channels and contaminate the water that flows to the Bays"	 Handbook; and the CA Department of Pesticide Regulation's "Environmental Fate of Triclopyr" (January 1997); and has found that triclopyr: Is practically non-toxic to birds, fish, and crustaceans Is of very low toxicity to mammals and is rapidly absorbed and then rapidly excreted by the kidneys, primarily in unmetabolized form Has an average half-life in soil of 30 days (considered short persistence) Would have little toxicological hazard to fish and wildlife as currently used in forestry (CCC's use is similar, although the County uses less product per acre than studies cited) Has a low K_{oc}, which indicates mobility in soil; however, studies show that triclopyr is only somewhat prone to lateral movement and is practically not prone to vertical movement. In addition, triclopyr is fairly immobile in the subsurface flow. Could be used without harm to nearby streams in forestry applications if buffer zones are used around streams and ephemeral drainage routes. CCC Public Works Vegetation Management uses Garlon 3A as follows: Generally Garlon 3A is not used during the rainy season. It is used on roadsides, flood control channel slopes, and flood control channel access roads. On flood control channel slopes, Garlon 3A is sprayed down the slope no further than the toe of the slope. Flood control channels are trapezoidal in cross section, and the toe of the slope is where the slope meets the flat part of the channel. Depending on the site, the water in the channel is from 10-50 ft. from the toe.
	Posting for pesticide use	
11/6/13-IPM 12/5/13-TWIC 2/20/14-IPM 2/24/14-IPM 2/26/14-IPM 3/5/14-IPM 3/6/14-TWIC 4/2/14-IPM 12/4/14-TWIC 2/17/15-IPM 3/2/15-TWIC 8/26/15-Email	From Parents for a Safer Environment (PfSE): "The county staff are still not posting when applying pesticide in parks, along hiking trails, major intersections of rights of ways, along flood control districts where many people, children and their pets frequent." "Posting online of pesticide applications" "Posting online of pesticide use reports from <i>each</i> program as they are generated on a monthly basis [for fulfilling reporting requirements with the state	 In 2009 the Departments developed a pesticide use posting policy. The policy does not require posting in "rights-of-way or other areas that the general public does not use for recreation or pedestrian purposes". The CCC posting policy, including the provision mentioned above, is consistent with, and very similar to the posting policies of Santa Clara and Marin Counties and with the City of San Francisco. The policy was reviewed and discussed by the IPM Committee when it was first developed, and in 2012 was revised to allow web posting and allow permanent signs in certain areas. County Departments have verified that they abide by the posting policy. The County's website for online posting of pesticide applications (for the areas required by the CCC posting policy) was up and running as of 3/10/15. Pesticide use reports that are generated for the California Department of Pesticide Regulation are provided yearly to Parents for a Safer Environment. Monthly reports

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11/4/15-IPM 2/17/16-IPM 11/16/16-IPM 11/16/17-IPM 6/18/18-IPM 9/20/18-IPM 1/17/19-IPM 5/16/19-IPM	Department of Pesticide Regulation]" Provide a list of where pesticide applications were posted for each IPM program and how many signs were used in 2013. (4/2/14) "The County's Posting Policy states that posting is required where there is foot access by the public or where the area is used for recreationPfSE has shown you photos of children walking along these access trailsThese access roads look just like walking trails along often idyllic looking creeks that the community use on a daily basis." (12/4/14) Concerns about pesticide posting (2/17/15) "Posting is still not done in most treated areas where people have foot access and where they recreate per the CC County's Posting Policy." (3/2/15) "I'd also like to see that posting is being done per policy." (11/16/16) "it's clear that pesticide treatments that can expose people are not all being posted online as the policy instructs. This Committee can also include this topic on the agenda and work with the county programs to see how to streamline the posting online by staff since there are hundreds of treatments annually, with a significant fraction occurring where people recreate or have foot access per the county's policy to post." (5/16/19)	 are available if the public wishes to view them. In the 5/27/14 IPM Transparency subcommittee meeting, the IPM Coordinator presented a chart with a list of pesticide application postings and the number of posting signs used during the 2013 calendar year. Note that the County Posting Policy states that posting is "Not required in locations that the public does not use for recreation or pedestrian purposes" Recreation is defined as "any activity where significant physical contact with the treated area is likely to occur". On Pinole Creek, in the photo submitted by PfSE, the Public Works Department does not treat the paved path next to the school that the children are shown walking on. Most of the County's Flood Control access roads are within locked gates with signs saying "Property of Contra Costa. No Trespassing". No one should be jogging or walking along these roads. If PfSE can provide the County with information on specific access roads and specific times when people have been exposed to pesticide spraying, the County will investigate immediately. Without information on specific locations, the County is unable to investigate this concern about not posting "in most treated areas where people have foot access and where they recreate". The IPM Committee has formed a Task Force to review the County's posting policy and compliance with that policy. (11/16/17) The Posting Task Force met six times throughout the spring and summer of 2018 and revised the posting sign and policy with public input at every meeting. The suggestions for revisions have been sent to the Public Works Department for review. There is validity about the concern expressed on 5/16/19 regarding online posting. The Public Works Department for review.
	Adopting an IPM ordinance	
9/4/13-IPM 11/6/13-IPM 2/26/14-IPM 3/5/14-IPM 3/6/14-TWIC 3/2/15-TWIC	From Parents for a Safer Environment (PfSE): Issue of adopting an IPM ordinance for the County	 In 2009, Susan JunFish proposed the need for an IPM Ordinance to the BOS. The Board directed the Committee to investigate the issue. In 2009, County Counsel wrote an opinion recommending the use of an administrative bulletin to supplement the County's IPM Policy. County Counsel continues to stand by their 2009 opinion. At several meetings in 2010 and 2011, the IPM Committee studied the issue and

Issues Raised by the Public	Steps taken by the IPM Advisory Committee and County Staff from January 2009 to the present
	 concluded unanimously that the County should adopt an IPM Administrative Bulletin to supplement the IPM Policy that the County adopted in 2002. In CCC an administrative bulletin serves to direct staff and carries consequences for non- compliance. The IPM Committee found no advantage to adopting an IPM ordinance. In April of 2013, the IPM Administrative Bulletin was adopted. In the fall of 2013, the IPM Committee again reviewed the issue of adopting an IPM Ordinance. For the second time, the Committee saw no advantage to developing an ordinance and once again voted unanimously to recommend the continued use of the IPM Policy supplemented by the IPM Administrative Bulletin.
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From Parents for a Safer Environment (PfSE): Disagreement on how the County should report "Bad Actor ³ " pesticides in the IPM Annual Report County staff has not identified all the Bad Actor pesticides. Susan JunFish is willing to make a presentation to the Committee on Bad Actors. (3/11/19) Would like the IPM Committee to look at establishing approved, limited, and restricted categories of pesticides as other counties have adopted to make it easier for staff to choose materials. (3/11/19)	 Since FY 00-01, the County has been publishing pesticide use figures that include use figures for "Bad Actors". Note that <u>all</u> pesticides used by County operations are reported in the IPM Annual Report, regardless of the toxicity or hazards of the pesticide. At issue is the categorization of pesticides in the report, not whether all use is reported. Susan JunFish, of Parents for a Safer Environment (PfSE), has been asking that additional pesticides be reported as "Bad Actors". To resolve this issue, the IPM Committee heard presentations from Susan JunFish and held a special meeting of the Data Management subcommittee on March 25, 2013 devoted exclusively to this issue. Dr. Susan Kegley⁴ was invited to speak, as requested by Ms. JunFish. After hearing Dr. Kegley's presentation and discussing the issue with her and with representatives of PfSE, the subcommittee members concluded that the County should report as "Bad Actors" only those that are designated as such in the Pesticide Action Network database. June 26, 2013: The IPM Committee voted unanimously to make changes to the 2012 IPM Annual or reflect the recommendation from the Data Management subcommittee, as noted above. The IPM Coordinator continues to report pesticides as "Bad Actors" only if they are designated as such in the PAN database. This year's Pesticide Use Summary Comparison chart classified all products containing glyphosate and dicamba as bad actors. Since it is unclear when PAN listed them as bad actors, the chart was amended to include dicamba since 2000 and glyphosate since 2015, since the latter was likely listed after the IARC designation. If a pesticide is discovered to have been classified as a bad actor, the comparison chart is revised. The IPM Advisory Committee has requested that the IPM Coordinator provide an
	Reporting "Bad Actor" pesticit From Parents for a Safer Environment (PfSE): Disagreement on how the County should report "Bad Actor ³ " pesticides in the IPM Annual Report County staff has not identified all the Bad Actor pesticides. Susan JunFish is willing to make a presentation to the Committee on Bad Actors. (3/11/19) Would like the IPM Committee to look at establishing approved, limited, and restricted categories of pesticides as other counties have adopted to make it easier for staff to choose materials.

³ "Bad Actor" is a term coined by 2 advocacy groups, Pesticide Action Network (PAN) and Californians for Pesticide Reform, to identify a "most toxic" set of pesticides. These pesticides are at least one of the following: known or probable carcinogens, reproductive or developmental toxicants, cholinesterase inhibitors, known groundwater contaminants, or pesticides with high acute toxicity. The pesticides designated as "Bad Actors" can be found in the PAN database on line: http://www.pesticideinfo.org/

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⁴ Ph.D. Organic/Inorganic Chemistry; Principal and CEO, Pesticide Research Institute; former Senior Staff Scientist for Pesticide Action Network (PAN); instrumental in the development of the PAN database.

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2/17/15-IPM	From Parents for a Safer Environment (PfSE): "Use of paraquat for Aquatic Weed Control and other broad applied Bad Actor Pesticides by the Department of Agriculture." (Particular mention of South American sponge plant in the Delta was made.)	 Actors for Aquatic Weed Control by the Department of Agriculture The Agriculture Department has not used paraquat in any aquatic weed applications and does not apply herbicides to the Delta for aquatic weeds. In the past, the Department has treated purple loosestrife in County waterways that feed into the Delta, but from this point forward they will not be treating any aquatic weeds. The State Department of Boating and Waterways (DBW) has treated various areas in the Delta for invasive aquatic weeds over the years, and in September 2012, Governor Brown signed legislation authorizing DBW to add South American sponge plant to the list of weeds they treat. State weed science experts judged that South American sponge plant posed a serious threat to the ecosystems in California waterways. This was based on research, the biology of the plant, and the rapid rate of its spread in California. Judicious use of herbicide to eliminate small infestations before they take over and completely clog Delta waterways is an excellent use of herbicide and will prevent huge expenditures of labor and herbicide in the future. This kind of preventive use of a pesticide to reduce the necessity to use large amounts of pesticide when the pest has built to great numbers is a recognized and legitimate IPM tactic.
11/6/13-IPM 12/5/13-TWIC	Providing comments on the keep From Parents for a Safer Environment (PfSE):	Strel study, and rodenticides use concerns On 9/18/12 Susan JunFish circulated to members of the IPM Committee the abstract from the kestrel study mentioned at left. On 2/4/13, the IPM Coordinator
2/20/14-IPM 2/24/14-IPM 3/5/14-IPM 3/6/14-TWIC 8/26/15-Email 7/20/16-IPM	"We have asked the Dept of Ag and the IPM Advisory Committee to provide comments on the Kestrel study and PfSE's Draft LD50 document in the past two years." In conjunction with this research paper, PfSE has brought up its concern about the rodenticides used by County operations. "Contractors [in Special Districts] use pesticides [rodenticides] before demonstrating alternatives first." (8/26/15) "I would like to first point out that the Special District program of Public Works is still using rodenticides in the county parksIt would be helpful to see the decision making tree on the way rodenticides are chosen instead of traps or asphyxiation methods using safer gases like carbon dioxide." (3/16/16) "The Public Works Special District program is using about 50 lbs. of	 circulated the actual research paper to all the members of the IPM Committee. On November 22, 2013, Vince Guise, Agricultural Commissioner, sent a formal response to Susan JunFish regarding the kestrel study. (TWIC and the IPM Committee Chair and IPM Coordinator were cc'ed on this communication.) On January 7, 2014, Vince Guise re-sent the formal response to Susan JunFish and Shirley Shelangoski. On January 16. 2014, Shirley Shelangoski confirmed having received the document. Susan JunFish asked the Committee to comment on the study, and the formal response was provided by the Agriculture Dept. Regarding "PfSE's Draft LD50 document", neither the Committee nor County staff can comment on data calculated by Susan JunFish that have no references or clear calculation methods. This was conveyed to PfSE in the Department of Agriculture's Kestrel response letter. Note that as part of the Department of Agriculture's ground squirrel program, the Department surveys ground squirrel treated areas for ground squirrel carcasses (or any other carcasses). Staff rarely find dead ground squirrels above ground, which is consistent with U.C. research in the state and the experience of other agencies. Staff has never found secondary kill, such as raptors or predatory mammals, in areas the Department treats. This does not mean, nor does the County claim, that no secondary kill ever occurs in the course of the County's treatment program. The IPM Committee did not discuss the research paper specifically; however, the Committee and County staff took the following steps regarding the rodenticide issue: In 2012, the Agriculture Dept. conducted an in-house trial of live-trapping of ground squirrels as a possible alternative to rodenticides treatment. See

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	rodenticides in parks." (7/20/16)	below for more detail.
		 At their January 2013 meeting, the Committee heard a presentation from the Agriculture Dept on the trapping study and heard a presentation from the State Department of Fish and Wildlife on secondary poisoning of raptors and other predators and the state's efforts to restrict use of the more toxic 2nd generation anticoagulant rodenticides (CCC does not use 2nd generation anticoagulants because of their toxicity and their hazards to non-target animals that consume poisoned rodents).
		 At their March 2013 meeting, the Committee heard a presentation from Dr. Jim Hale on wildlife issues in CCC that included discussion of the impacts of rodenticides.
		 At their May 2013 meeting, the Committee heard a presentation from Mt. Diablo Audubon on their campaign to curb the use of 2nd generation rodenticides.
		 The Agriculture and Public Works Departments jointly prepared a map of the County marking where rodenticides are used by the Agriculture Dept. This map was presented in separate meetings to Supervisors Gioia, Mitchoff, and Andersen, and to Susan JunFish & Shirley Shelangoski of PfSE. In these meetings the Agricultural Commissioner explained the Department's ground squirrel program and the live trapping study.
		 The Agriculture Dept. prepared a very detailed decision making document for ground squirrel management in the County to record their decision making process and explain the complexities involved in their decisions, including biology, safety, efficacy, cost and the goals of the program. This document was discussed extensively in a subcommittee meeting and again in a regular Committee meeting. PfSE members were present and participated in the discussion.
		 In 2013, the Agriculture Dept revised its ground squirrel baiting methodology to make it safer for staff, to make applications more precisely targeted, and to reduce the amount of bait used each season. The amount of bait used by the Department has been reduced by over 50% since 2011. Use has gone from 35,915 lbs in 2011 and 14,271 lbs in 2013. 14,271 lbs of bait is 1.4 lbs. of actual diphacinone.
		 In February and again in August of 2013, the IPM Coordinator investigated rodenticides use by contractors to Special Districts. She presented her findings to the Committee at the 9/4/13 meeting.
		 On 3/5/14, the IPM Committee heard an update from the California Department of Fish and Wildlife on the regulations concerning 2nd generation anticoagulant rodenticides and on secondary poisoning of raptors and mammalian predators by anticoagulant rodenticides.
		 The Special Districts' contractor has reduced his use of anticoagulant bait from 188 lbs in FY 12-13 to 88 lbs in FY 13-14 and to 53.5 lbs in FY 14-15. The amount of actual anticoagulant active ingredient in 53.5 lbs is 0.0027 lbs (0.04 oz). The contractor has increased trapping and is not using any of the more toxic and dangerous 2nd generation anticoagulants.
		 In FY 15-16 the Special Districts vertebrate pest manager used 27.5 lbs. of rodent bait, which is 0.0013 lbs. (0.02 oz.) of diphacinone. 9.5 lbs. of that rodent bait was used in a park (Livorna Park). This is 0.0076 oz of diphacinone. As noted above, the County is no longer using rodenticides in Livorna or any other park. In FY 16-17 the Special Districts vertebrate pest

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Infrastructure		
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		manager used 18 lbs. of rodent bait, which is 0.0009 lbs. (0.01 oz.). In FY 17- 18, no rodenticides were used in Special Districts. The vertebrate pest manager used only trapping.
		 As of May 2016, Special Districts is no longer baiting with diphacinone for rats in Livorna Park. The shrubs that were being damaged by rat gnawing have recovered and are thriving. The contractor will continue to monitor at Livorna for rat damage.
		 In the spring of 2016, the IPM Decision-Making subcommittee asked the IPM
		Coordinator to create a decision-making document for gopher management in the County. The document was finished in June 2016. In the Grounds Division, the gopher manager uses only carbon dioxide asphyxiation and traps to control gophers in County landscaping. The Special Districts' contractor uses trapping and diphacinone, a 1 st generation anticoagulant rodenticide, for gophers in Livorna Park. He uses trapping in Livorna wherever it is safe to do so, i.e., where children are unlikely to find and play with the traps. He uses diphacinone in the Hidden Pond and Driftwood landscaping zones because the budgets in these two Special Districts will not
		cover trapping, which is more labor intensive. Both those landscaping zones are frontage property. The only other location where the Special Districts' contractor manages vertebrate pests is the Alamo School field, where he is using traps.
		 In 2018, the IPM Committee had presentations on ground squirrel management and rodenticide hazards.
	Trapping for ground squirrels	
12/5/13-TWIC 2/20/14-IPM	From Parents for a Safer Environment (PfSE): "[PfSE] asked TWIC to instruct the	 In 2012, the Agriculture Department ran an extensive, in-house ground squirrel live trapping trial to determine the feasibility of using live traps to protect critical County infrastructure from ground squirrel burrowing.
2/24/14-IPM 3/5/14-IPM 3/6/14-TWIC	Department of Agriculture and Public Works Dept to use trapping methods [for ground squirrels]"	 The trapping was successful in that staff were easily able to capture 152 ground squirrels in the 1,200 linear foot trial area along a County road over the 5 day trial period.
10/9/14-TWIC 1/14/15-IPM	"Santa Clara spends only \$25/ground squirrel trapping &	 The squirrels were euthanized on site by the California Department of Fish and Wildlife.
8/26/15-Email 2/17/16-IPM	removal" "Isn't it worth the effort to learn	 Unfortunately, squirrels from the surrounding area quickly moved into the vacant burrows. <u>This makes trapping ineffective in areas with</u> surrounding pressure from ground squirrels.
7/20/16-IPM at several IPM Decision Making Meetings	how the other counties are doing using only trapping for ground squirrel control?" (10/9/14) "One cannot compare efficiency of	 When the Department uses rodenticide bait, the squirrels do not move back into the vacant burrows for an extended period of time. The Department surmises that because baited squirrels die mostly in their burrows, the carcasses repel any newcomers.
throughout 2018 1/17/19-IPM	our [County] staff applying rodenticides and compare that to them trapping and stacking up overtime costs during the learning	 The Department found that live trapping would be prohibitive. It would cost \$5,074/linear mile compared to \$220/linear mile using bait. The Department treats around 925 linear miles of roadway each year.
	curveA good-faith comparison would have been to utilize expert trappers vs our staff applying rodenticides, and then comparing costs." (10/9/14)	 Note that along roadsides, the Department spreads bait in a 12 to 15 ft wide swath at a rate of 2 to 3 oat kernels per square foot only in areas where ground squirrels are active. This treatment method takes advantage of the natural foraging habit of the ground squirrel, an animal that is highly adapted to finding individual seed kernels on the ground.

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	the county would incur a charge of \$16,720 per linear mile for ground squirrel control if we paid a contractor who charges \$25/squirrel trapped. This is very speculative and we would like to see the county take bids from trappers and share the proposals with the Committee." (1/14/15) "Bilet Trial of redaptiation ve	 Using their fees per hour or per squirrel trapped, the Department estimated that the cost to use a contractor to trap ground squirrels would be between \$12,524 and \$16,700 per linear mile. This does not compare favorably to the Department estimate of \$5,074/linear if work were done by Department staff. Note that at the \$25/squirrel rate quoted by PfSE, it would cost the County \$16,720/linear mile if the ground squirrel catch rate were similar to the 152 squirrels/1,200 linear feet. This is 3 times more than it cost for Agriculture Department personnel to trap over a linear mile, so using a contractor would not save money, even if this method were effective.
	 "Pilot Trial of rodenticides vs tapping done in 2012, biased & scientifically indefensible." (8/26/15) "Cost of trapping inflated." (8/26/15) "Trapping [for ground squirrels] costs about 50% more according to a Ventura County Ag Dept report, or approximately \$80,000 more for CCC." (7/20/16) 	 We are assuming that Susan JunFish's 7/20/16 comment on the cost of trapping ground squirrels comes from the IPM plan for Rodent Control for Flood Control Facility Protection approved by the Ventura Board of Supervisors in December 2006. PfSE provided a copy of this IPM plan to the IPM Committee a number of years ago. In a table in that IPM plan, the county summarizes the costs for various treatments for grounds squirrels. The table makes it clear that the costs are "estimates [for] one treatment event for a typical [flood control] facility." The Ventura IPM plan estimates the cost of trapping to be almost 100% more than the cost of broadcasting diphacinone bait (\$1700 for baiting vs. \$2900 for trapping). Note that the report does not define the "typical facility", so it is not possible to compare their estimates to the actual costs experienced in Contra Costa County. Note also that Ventura did not run a trial prior to adopting their IPM plan to determine the real costs of trapping or whether that strategy could be effective within the 3 "treatment events" the IPM plan recommends. It is not clear how Ms. JunFish calculated the \$80,000 extra needed to trap ground squirrels in Contra Costa County.
		 One of the pest control contractors who was contacted for an estimate said he had also observed the ineffectiveness of trapping in areas with surrounding ground squirrel pressure.
		 The Department also observed some other unexpected outcomes: Traps were checked daily, but staff found squirrels bloodied and wounded from fighting with each other or trying to chew their way out of the traps.
		 Traps were vandalized by the public even though large signs warned people to leave the traps alone. This exposed the public to health risks from bites and scratches and from transmissible diseases carried by ground squirrels.
		 In certain small areas that have a limited number of ground squirrel colonies, live trapping may be a viable alternative.
		• Santa Clara County Regional Parks find live trapping effective for their limited use of the method. They trap squirrels around Regional Park buildings to prevent undermining of foundations. This is a very small area compared to the hundreds of miles of roads involved in CCC. Park rangers are close by to educate the public and to observe the traps continually. This reduces vandalism and allows park personnel to have squirrels dispatched soon after they are trapped, which prevents harm to the squirrels from fighting or gnawing the cage.
		 In March 2006, the Ventura County Board of Supervisors directed county staff to avoid the use of anticoagulant rodenticides within county-owned properties and facilities. To address these concerns, the county hired a consultant and formed an ad hoc committee. The County developed an IPM program and as a result of a subsequent study, the ad hoc committee and the Board recommended broadcast

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		target animals, the risk of injury to curious children, and the expense.
	Burrowing rodent control	
1/20/17-IPM 11/16/17-IPM 1/17/19 <u>-IPM</u>	From Parents for a Safer Environment (PfSE): The IPM Committee should investigate the use of carbon	In 2017, the IPM Committee heard a presentation on the use of carbon monoxide and carbon dioxide for burrowing rodents. Dr. Roger Baldwin, from UC Cooperative Extension, gave the presentation on carbon monoxide (CO) and made the following points:
<u>2/21/19-IPM</u> <u>3/11/19-IPM</u> <u>4/25/19-IPM</u>	monoxide for controlling burrowing rodents. <u>"Dr Baldwin of the UC IPM</u> <u>Cooperative extension did a field</u> <u>trial on 120 acres of an almond</u> <u>orchard w/ serious ground squirrel</u> <u>problem in 2015 or 2016. Within a</u> <u>week, he concluded 100% kill</u> <u>rate. CO usage this way has been</u> <u>legal in CA since 2012 only. He</u> <u>believes that it is the most</u> <u>effective fumigant in dry soil</u> <u>conditions.</u>	 His research was done in alfalfa fields, but it probably relates fairly well to rights-of-way. (In CCC, the greatest amount of rodenticide is used on rights-of-way to reduce damage from ground squirrels. A tiny amount of rodenticide is used in Special Districts for gophers, and no rodenticides are used in County grounds.) Using CO in rights-of-way will cost more than it did in his alfalfa fields. Efficacy still varies tremendously from site to site. It works best when soil is moist and not sandy. It takes 3-4 minutes to treat each burrow, and other openings must be covered with soil, so the gas does not escape. It would be difficult to try to dig up hard packed clay in the summer to cover burrow openings. Sand bags might work, but they are heavy and time-consuming to load, unload, and carry to and from the truck to each hole.
	In moist soil, aluminum phosphide works best although it is much more toxic when breathed in has more restrictions and permitting requirements that are required prior to usage. He found CO not as effective for gophers for some reason. I spoke with Alan Hurlburt@cot.net the proprietor of HMGophercontrol.com they sell PERC. 530-667-5181 based on the border of OR & CA & willing to give a talk. He recommends the \$10K model for our purposes. He sells the smaller \$5400 model too & willing to present a minimum of 20 min presentation. He will not haul a big apparatus down for a demo. There are service providers in our area that can do that as listed below. The county may want to have a pilot treatment conducted by one of these contractors prior to purchasing a	The Grounds Division Vertebrate Pest Manager already uses carbon dioxide to kill gophers and moles in County landscaping, in addition to trapping. In the summer of 2017, the Grounds Division hosted a demonstration of the carbon monoxide machine, which they are considering purchasing. Using either CO or CO ₂ along County roads would likely be very costly due to the many miles of road and the many ground squirrel burrows along some sections of road. It would be most effective in the winter or spring when the soil is wet and prevents gasses from leaking out. The Agriculture Department, the entity that manages ground squirrels for the Public Works Department, is engaged in invasive weed control and other duties during that time of year and could not attend to ground squirrels as well. In August when the Department has traditionally handled ground squirrels, the soil is dry and hard. Gasses leak out in dry soil, and as mentioned above, covering holes would be challenging. In 2019, IPM Committee members spoke with staff at Los Vaqueros Reservoir about their ground squirrel management program which includes on-site relocations and grouting (burrow destruction). The reservoir staff does not use fumigation because of potential effects on nontarget animals inhabiting burrows. They also contacted staff from Modesto Irrigation District, Santa Barbara County Parks, Orange County Parks, and Clark Pest Control who employ carbon monoxide fumigation techniques. Committee members heard positive reviews from each of the agencies contacted but were not able to locate an operation who has experience deploying the system along roadsides.

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	 \$4.8K or \$10K equipment. This method is relatively new but reportedly working well. Not one has asked for a refund. It's also the only method that is approved by the U.S. Humane Society according to one of the contractors who use PERC. He claims that CO works even in porous soil b/c it takes less to kill than CO2 that does not work in porous soil. CO is cheaper than tanks of CO2. CO works in most any conditions. Over 1,000 Pressurized Exhaust Rodent Control PERC units were sold in North America, including 400 units in CA. Also being used by state agencies in OR, Idaho, WA, and Nevada. City of San Diego has 15 I followed up with H&M Gopher Control Manufacturing and had the chance to speak with Alan Hulbert, the proprietor who is now 78 years old. He developed PERC or Pressurized Exhaust Rodent ControllerTheir device is selling so well by word of mouth particularly by central valley public agencies who are using them along levees, tht he said he cannot kee up with the demandOne is Modesto Irrigation District who purchased many units for 208 miles of canals and pipelinesThey had used the scatter rodenticide baits in the papersusing PERC is more time efficient than all the time it took to build the T bait stations and scatter baits then using PERC H&M claims that CO works well in porous soil since it does not require saturation like CO2 to kill and Dr. Roger Baldwin of the UC IPM Cooperative Extension presented this same result to the 	the aim of using it for gopher control at sensitive sites such as schools. That demand never materialized and the machine hasn't been utilized as much as they initially hoped. Mr. Gingrich verified that it was an effective tool whenever they had an opportunity to use it but was skeptical about its efficacy for treating ground squirrels near roadsides. He also raised caution about staff exposure to fleas when walking slowly around fields in addition to the hazards of staff breathing the fumes from the machine. During the Decision-Making Subcommittee meeting on 10/31/19 the Agriculture Department representative confirmed that it is not fleasible or cost effective for them to provide CO services for ground squirrel abatement. The Subcommittee is now working to engage the Public Works Maintenance Division in discussing the possibility of implementing an early spring fumigation program—even if only on a pilot-basis—to supplement the Agriculture Department's current baiting practices along roadsides and Flood-Control channels.

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	several years ago and said he found 100% effectiveness using PERC for ground squirrel control in a highly valuable orchard that was over 100 acres" (2/21/19)	
	According to Roger Baldwin, a combination of approaches works best for controlling ground squirrels. The PERC machine is for large areas and there are models that cost \$6K, \$10K, and	
	\$17K. The Burrow Rx costs \$2K and is for smaller areas. The <u>County should have contractors</u> come in and do trials. The County could buy a machine and rent it out to make money. (3/11/19)	
	The County should contact other counties that have done their own cost estimates for the machines. (3/11/19)	
	Susan JunFish offered to provide contact information for manufacturers of fumigation equipment. (4/25/19)	
	CCC is the only Bay Area cour	nty using rodenticides for ground squirrels
12/5/13-TWIC 10/9/14TWIC 7/20/16-IPM 1/17/19-IPM	From Parents for a Safer Environment (PfSE): "[Contra Costa is] currently the only Bay Area county to continue to use the archaic and non- specific to target pest method of rodenticides to kill grounds squirrels"	Note that CCC uses diphacinone-treated bait to protect critical infrastructure in the County from damage caused by ground squirrel burrowing. Diphacinone is a 1 st generation anticoagulant that is less toxic and less persistent in animal tissues than 2 nd generation anticoagulants. The Agriculture Department endeavors to maintain a relatively ground squirrel-free 100 ft buffer along various County roads (mainly in East County), along levees and railroad embankments, and around earthen dams and bridge abutments. To maintain this buffer, the Department treats a 12 to 15 ft. swath.
	"It's great that the Agriculture Department has decreased usage of rodenticides from 36,615 pounds [of treated grain] applied two years ago to 14,391 pounds	 Alameda County engages in a ground squirrel treatment program using diphacinone bait that is very similar to CCC. They treat roadsides and levees and Zone 7 Water District sites and use a similar amount of diphacinone- treated bait. The City and County of San Francisco does not have ground squirrel problems to
	[of treated grain] applied in the most recent fiscal year. However it is still 14,301 pound [<i>sic</i>] more of bait applied than all Marin, San Francisco, and Santa Clara	contend with; however, as of February of 2016, their IPM program allows the use of bromadiolone bait (a 2 nd generation anticoagulant rodenticide) for rats at the SF Airport and by commercial lessees on city properties that are not adjacent to natural areas. Second generation anticoagulants are more toxic and more persistent in the tissues of poisoned animals than 1 st generation anticoagulants, such as the diphacinone that CCC Department of Agriculture uses. Bromadiolone

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	counties combined that do not use any rodenticides at all in open space." (10/9/14)	 persists in liver tissues for 248 days compared to 90 days for diphacinone which makes sub-lethally poisoned animals walking hazards for predators much longer. Note that as of February 2016, San Francisco allows the use of diphacinone for
		 baiting rats in areas with high public health concerns and where trapping is infeasible. CCC uses only trapping to control rats and mice in and around County buildings. But note also that CCC is far less urbanized than San Francisco, and therefore does not have the same kind of severe pest pressure from rats. Marin and Napa County Public Works Departments reported that they have nowhere near the kind of ground squirrel populations that East Contra Costa County has, and consequently, they don't do anything about the few ground squirrels along their roads.
	The County should use volunt	
12/5/13-TWIC 3/6/14-TWIC 2/17/16-IPM 11/16/17-IPM 1/17/19-IPM	From Parents for a Safer Environment (PfSE): The County should use free labor programs	 This could be particularly helpful around County buildings. The Grounds Manager would welcome Parents for a Safer Environment (PfSE) volunteers to pull weeds at particular sites, but PfSE would first need to negotiate with the County to determine if PfSE volunteers would be permitted work on County landscaping. If the work were approved, PfSE would need to organize and supervise the volunteers.
		• Note that County unions have protested the use of inmate labor for jobs that could be filled by union members. The union recently won a grievance against the Sheriff's Department regarding the use of inmate labor for grounds maintenance work. The union has filed a grievance against the fire department regarding the use of inmate labor to clear brush. The Grounds Manager does not anticipate that PfSE volunteers pulling weeds would precipitate these kinds of union actions.
		• In the County's other IPM programs, using volunteers is more difficult.
		 "Free" labor involves considerable County resources including outreach to solicit volunteers, planning and organizing work sessions, staff time for training volunteers, transportation of volunteers, equipment for volunteers and staff time for supervision.
		 Almost all of the Agriculture Department's noxious weed program involves activity on private land or on lands that are not owned or managed by the County. Use of volunteer help in these areas would involve liability for those land owners or managers.
		 Much of the Public Works Department's creek and roadside vegetation management involves work in dangerous areas such as roadsides or steep and rocky slopes and requires the use of hazardous equipment such as chain saws and brush cutters. County liability for volunteers performing this kind of work would be extremely high.
		 The County's structural IPM program is not suited to the use of volunteer labor. Note that the County does use volunteers, most notably in creek restoration and
		clean up, for creek water quality monitoring and for outreach to the public about creek water quality and the value of healthy creeks and watersheds.
	Grazing has no significant im	pact on water quality
12/4/14-TWIC 8/26/15-Email	From Parents for a Safer Environment (PfSE):	 The County is aware that grazing does not have a significant impact on water quality. Economics and not water quality is the limiting factor in the vegetation management situations in the County. Public Works continues to expand its

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	"[I]n each of the four case studies, grazing had NO significant impact on water quality. It is my hope that this research can provide decision makers with confidence that managed grazing is an effective, economical and safe vegetation management tool along watercourses." "Small PfSE Pilot Trial in 2009 showed no contaminants downstream of grazing." (8/26/15)	grazing program where it is most appropriate and/or cost-effective, and grazing has become a permanent tool in the County's IPM Toolbox.
	The County should expand go	at grazing and competitive planting
12/5/13-TWIC 3/5/14-TWIC 2/17/15-IPM 8/26/15-Email 7/20/16-IPM 5/11/17-IPM 11/16/17- IPM 1/17/19-IPM	From Parents for a Safer Environment (PfSE): "The County should expand the competitive planting and goat grazing programs" "[One decision-making document] asserts that goat grazing costs much more than herbicide spraying; however it appears the cost of grazing during the in- season are [<i>sic</i>] being compared with herbicide usage. Other case studies we are evaluating show that grazing is cost effective and even cheaper than herbicide usage." (2/17/15) Grazing costs are inflated and cost of herbicide use is deflated. (8/2615) "With evidence that grazing causes no more damage and can be less expensive in the short term and also less risk to public health and the environment, we need to expedite moving away from herbicide usage and utilize more grazing." (7/20/16)	 The County Flood Control District is partnering with Restoration Trust, an Oaklandbased non-profit, in a native planting experiment along Clayton Valley Drain (near Hwy 4 adjacent to Walnut Creek). The study involves planting 2 species of native sedge and 1 species of native grass. These are perennial species that stay green year round and are resistant to fire. The plants are compatible with flood control objectives because they do not have woody stems, and during flood events, they would lie down on the slope, thus reducing flow impedance. They are not sensitive to broadleaf herbicides that will be needed to control weeds at least until the plants have spread enough to outcompete weeds. County volunteers installed the first plantings on December 7, 2013 Note that it is conceivable that herbicides may always have to be used on these plantings to prevent the area from being overrun with weeds because the surrounding weed pressure is very high. Restoration Trust will be monitoring the test plots through 2018 to assess the survival of the native plants and their degree of successful competition with nonnative annual species. The County will gather information over the same time period to determine whether, how, and where to expand this kind of planting. The County cannot expand this project without data on its costs and viability. Over the last 3 years, the Public Works Department has expanded its use of goat grazing considerably. In FY 12-13 they grazed 74 acres, in FY 13-14 they grazed 183 acres, and in FY 14-15 they grazed 367 acres. It is now a regular management tool for the Department. Every site the County manages differs in the ease with which goats can be used and their suitability for managing vegetation. The Department uses goats where they are appropriate and cost effective, and continues to gather data on costs and long-term effectiveness at individual sites. Cost is affected by many factors: The size of the site—loading and unloading the animals is a fixe

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		 The presence of endangered species—sites with endangered species and other restrictions from the State Dept. of Fish and Wildlife are good candidates for grazing regardless of the cost Although the cost of off-season grazing is less expensive than during the peak grazing season, Public Works cannot effectively manage all the weeds that grow in the Flood Control District only with off-season grazing. In 2016 Public Works continued to use grazing wherever possible and to allow the grazer to stage goats on various channels and in detention basins in exchange for free vegetation management from the goats. In FY 15-16 the County used goats to graze a total of 315 acres which included 158 free acres. Without the staging arrangement with the grazer, the County would have paid around \$950/acre for grazing. With the free acres, the cost came down to \$470/acre. This is twice what it costs to treat creek banks with herbicide (\$222/acre).
	Considering least-toxic alterna	atives before choosing pesticides
12/5/13-TWIC 2/26/14-IPM 2/17/15-IPM 8/6/15-IPM 8/26/15-Email 11/4/15-IPM 2/17/16-IPM 11/16/17-IPM 1/17/19-IPM	From Parents for a Safer Environment (PfSE): "Staff has still not demonstrated that for each pest control problem, least toxic alternatives were evaluated prior to choosing pesticides." Estimates for costs of herbicide applications need to include cost of permits, tracking requirements, storage of chemicals, licensing, training, etc. "The IPM Advisory Committee has not yet reviewed several key data in the [decision-making documents] that justify using broadcast herbicide spraying along Right of Ways and rodenticide usage in open space." (2/17/15) "Also, has the county investigated least toxic methods in accordance with the IPM Policy?" (8/6/15)	 In 2012, the IPM Committee developed a form for recording IPM decisions made by the Departments. In 2013, each IPM program in the County produced at least 1 decision-making document for a specific pest or pest management situation (the Agriculture Department produced 2 documents that year). These documents show which least-toxic alternatives are considered and tested, which are being regularly employed, which are not, and why. In 2013, 2014, 2015, 2016 & 2017, each new decision-making document was extensively reviewed by the Decision-Making subcommittee with PfSE members in attendance. Recording the thought processes and decision-making path for each pest or pest management situation takes considerable time (approximately 40 hours of work per document). In 2014, the Decision-Making subcommittee reviewed and, after numerous revisions, accepted 4 more decision-making documents. These discussions were conducted in public with members of PfSE in attendance. In 2015, the Weed subcommittee reviewed and revised 1 more decision-making document which covered how the County decides to use grazing as a management tool. In 2014, the Cost Accounting subcommittee chose to research the costs associated with altering landscapes around County buildings to require less maintenance, less water, and less herbicide. The subcommittee also explored that this is a very worthy goal, but more complicated to achieve than expected. Sites must be considered individually because one plan will not fit all, and in the midst of severe drought, it is not the time to begin replanting. The subcommittee also explored the idea of replacing lawns with artificial turf, but decided that it is not the answer except in very specific, limited situations. Artificial turf has high up-front costs, still requires maintenance, can become infested with weeds growing in soil that accumulates on top of the mat, and has environmental consequences at the end of its life, Herbicide treatment co

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		pesticides and alternatives.
	Excessive pesticide use in CC	C
12/5/13-TWIC 2/26/14-IPM	From Parents for a Safer Environment (PfSE): Contra Costa County uses more	 The assertion that CCC uses more pesticide than any other Bay Area County, or other counties combined, is hard to evaluate since staff have not seen current pesticide use figures for County operations in other Bay Area Counties.
12/4/14-TWIC 3/10/15-IPM 2/17/16-IPM 3/16/16-IPM 7/20/16-IPM	pesticide than any other Bay Area County (or, than several Bay Area Counties combined) "lack of progress is evident in that the county has not significantly	 This could be researched, but would take time. It is difficult to compare counties, all of which vary greatly in their size, their budgets, their staff, their pests, their weather, and the kinds of responsibilities they choose to undertake. Staff feel that comparing pesticide use in various counties is not particularly relevant to how well Contra Costa County operations are implementing IPM.
11/16/17-IPM 1/17/19-IPM <u>3/11/19-IPM</u>	altered their use of pesticide since 2009" "The single most underlying problem I see in the IPM Program is that there is little to no	 In 2012 and 2013, the IPM Data Management subcommittee undertook to find additional metrics to evaluate the County's IPM programs. This proved to be a difficult task, and the committee's research did not discover any unique or innovative measures for evaluating IPM programs in other Bay Area counties, or across the U.S.
		• The subcommittee agreed that pesticide use data do not reveal whether the County is implementing IPM, and so in 2012, the subcommittee developed the IPM Priority Assessment Tool. This is a compilation of IPM best management practices (BMPs). The subcommittee asked the Departments to fill out the form in 2012 and 2013 and report the percentage of implementation of each of the BMPs.
	S.F., and Santa Clara Counties [<i>sic</i>] for the same pest problems." (2/17/16) "I am concerned about the exponential increase of herbicides being applied by the Grounds program in the last fiscal year [FY	 It is important to understand that pesticide use can increase and decrease from year to year depending on the pest population, the weather, the invasion of new and perhaps difficult to control pests, the use of new products that contain small percentages of active ingredient, the use of chemicals that are less hazardous but not as effective, the addition or subtraction of new pest management projects to a department's workload, and cuts or increases to budgets or staff that change priorities or workload.
	14-15]." (3/16/16) "The Right of Ways program of Public Works alone used over 10,200 lbs of pesticides last fiscal year, using 20 herbicidesThese [<i>sic</i>] program needs review of why so much pesticides are required and at such high rates." (3/16/16) "CCC Ag Dept's usage of the active ingredient diphacinone rodenticides in the last 5 years increased by 15% in open space, with a 90% increase between the last 2 years." (7/20/16) "The Public Works Department's	 From FY 00-01 through FY 17-18, the County has reduced its pesticide use by 79%from 18,931 lbs of active ingredient in FY 00-01 to 3914 lbs of active ingredient in FY 17-18.
		• Since FY 00-01, each Department has been evaluating its pesticide use and researching options for eliminating or reducing pesticide use. By 2015 County operations had eliminated the use of 24 of the 31 "Bad Actor" pesticides that they had been using and had reduced the lbs of "Bad Actor" active ingredients by 84%.
		 By 2018 County operations had reduced the lbs of "Bad Actor" active ingredients by 90.5%. The County's pesticide use trend follows a trend typical of other pollution reduction
		programs. Early reductions are dramatic during the period when changes that are easy to make are accomplished. Once this "low-hanging fruit" has been plucked, it takes more time and effort to investigate and analyze where additional changes can be made. The County is entering this period, and if further reductions in pesticide use are to be made, it will require time for focused study and additional
	Grounds Program in the last 5 years increased their herbicide usage by 73%. CCC Grounds program used 700% more	 Note that County operations use about 2% of all the pesticide (active ingredients) that is required to be reported in the County. The total reported to the state does not include homeowner use, which researchers suspect is a considerable amount.
	herbicides than the counties of Santa Clara and Marin combined last year [presumably 2015] (600	 In FY 14-15, the Grounds Division used only 1/3 of the pesticide it used in FY 00- 01. The amount used in FY 14-15 was 154 lbs. of active ingredient <i>less</i> than in FY

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	lbs vs 100 lbs) even when Santa	13-14.
	Clara county has at least 50% more grounds requiring management." (7/20/16)	• In FY 14-15 the Public Works Roadside and Flood Control Channel Maintenance Division (the "Right of Ways program" that PfSE refers to) used 4,780 lbs. of pesticide active ingredients. This is a little more than ¼ of the pesticide they used
	The Public Works Department's	in FY 00-01.
	Facilities program manages pests	• In FY 14-15 the Agriculture Department used 346 lbs. <i>less</i> of the anticoagulant
	in buildings and has been doing great until last year when insecticide usage inside building(s) [<i>sic</i>] went up past 8	diphacinone than the previous year. In FY 15-16, the Department reduced its use even further. In FY 14-15 the Department used 154.7 lbs of diphacinone and in FY 15-16 it used 76 lbs. Over the last 5 years, this is a dramatic decrease of 86% and a decrease of 95% from the 1420.7 lbs. used by the Department in FY 00-01.
	lbs." (7/20/16)	 The Grounds Division use of herbicide has indeed increased over the last 8 years.
	The Grounds Division needs to	The Recession and its attendant budget cuts, along with decisions by the former
	improve. What are they doing around clinics and Head Starts?	Grounds manager to stop almost all herbicide use, contributed to several years of minimal use. Weeds and their seeds were not managed effectively for several
	<u>(3/11/19)</u>	years resulting in large weed and weed seed loads at many County properties.
		Over the last 6 years, the current Grounds Manager and his crew have been working very hard to reduce the weed pressure and improve the aesthetics of
		County landscaping. This has included the application of prodigious amounts of
		woodchip mulch and reducing irrigation to prevent weeds, but it has also meant
		the use of more herbicide. Inadequate budgets and staffing problems have made the recovery of County properties slow. Currently (2016) the Division is in much
		better shape and has enough money and almost enough staff to properly maintain
		County landscaping. As the crew reduces the weed load, they can more easily maintain relatively weed-free landscapes with physical methods such as hand-pulling and mulching.
		• Pestec, the County's structural pest management contractor that manages pests in
		and around buildings, has been battling very large ant populations the last 3 (2015-2018) years, and this has increased the amount of insecticide used.
		Insecticides for ants are all in the form of baits and pose very little exposure for County staff and wildlife.
		 The Grounds Division does not apply herbicides around Head Start facilities. They
		have an internal procedure that relies on mechanical and cultural methods to
		manage nuisance vegetation. Head Start locations fall under the Healthy Schools Act (HSA), and their IPM plan is annually reviewed. Unless a clinic is housed in
		the same facility as a daycare or school, it is not subject to the HSA. IPM Program
		staff are currently convening a team of stakeholders to make sure Juvenile Hall is compliant with all aspect of the HSA.
	CCC should do more IPM trair	hing and outreach to County staff and the public
12/5/13-TWIC	From Parents for a Safer	• The IPM Committee is an advisory body to the Board of Supervisors and does not
2/17/16-IPM	Environment (PfSE):	have a budget, nor does it have the staff or the mandate to provide outreach and
3/16/16-IPM	"the County IPM Coordinator and	training.
11/16/16-IPM	the IPM Advisory Committee [should] provide annual IPM	• There is no need to duplicate San Francisco and Santa Clara's regional IPM conferences, and it would be impossible for the IPM Coordinator to do so without
3/16/17-IPM	training and outreach programs to	staff and budget.
1/17/19-IPM	both county staff and the public"	• In 2012, the IPM Coordinator partnered with cities in CCC to provide a half-day
<u>11/21/19-IPM</u>	The County should "provide training and conferences such as those conducted by Santa Clara	landscape IPM training to City and County staff and will probably do so again in the future.

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	and San Francisco counties which train hundreds of interested participants." "I would like to see Contra Costa County, with more resources than	 The IPM Coordinator provides extensive education in person and over the phone to County staff and Contra Costa citizens on bed bug awareness and an IPM approach to managing bed bugs. The IPM Coordinator produces educational materials on bed bugs for professionals and lay people. Materials are housed on the Health Services bed bug website (cchealth.org/bedbugs).
	[Parents for a Safer Environment],	 The Departments provide annual training to County staff that includes IPM.
	facilitate some training for municipalities in our county for some of the toughest problems that trigger pesticide usage"	 County staff attend numerous trainings and conferences that include IPM training in order to stay current on pest management research and to maintain their various licenses.
	(11/16/16)	 The Department of Agriculture has a biologist on-call from 8 AM to 5 PM each weekday to answer questions from the public about pests and pest management. Biologists base their responses on IPM principles and on materials and resources from the U.C. Statewide IPM Program.
		• Every day in the course of their work, County staff from Public Works, Health Services and the Department of Agriculture engage citizens in dialog about the pest management work the County does and the IPM principles the County employs.
		 The Department of Agriculture provides many training sessions each year on pesticide safety (including IPM issues) to growers, farm workers, agencies, and the pest control industry.
		 The Department of Agriculture is a member of the Egeria densa Integrated Pest Management Committee and developed the Contra Costa Delta/Discovery Bay Region Brazilian Waterweed (Egeria densa) Integrated Pest Management Plan.
		• The County Clean Water Program sponsors an annual Bay Friendly Landscaping training for County staff and professional landscapers throughout the county. This training includes information about IPM and about reducing inputs into and outputs from landscaping activities to prevent pollution in creeks and the Bay.
		 The County Clean Water Program provides support for watershed coordinators and friends of creeks groups that coordinate volunteers to conduct general outreach to the community about water quality in creeks and the value and importance of wildlife habitat, watersheds, and creek restoration.
		 The County Clean Water Program provides support to the Bringing Back the Natives Garden Tour which educates the public about the many benefits of gardening with California native plants.
		 The County Clean Water Program supports the Our Water, Our World Program in Contra Costa County (a program originally developed by CC Central Sanitary District). This program provides in-store IPM education directly to consumers who are purchasing pesticides. IPM training is also provided for nursery and hardware store employees.
		 In 2014 the County Clean Water Program launched 3 other IPM and pesticide public education programs.
		 The Contra Costa Master Gardener Program trains volunteers with a curriculum that includes IPM. Master Gardener volunteers are available Monday through Thursday from 9 to Noon to answer gardening and pest management questions from the public. Advice is based on materials and resources from the U.C. Statewide IPM Program. Master Gardeners also provide presentations on gardening and IPM to a broad cross section of Contra Costa citizens.
		The IPM Coordinator accepts many speaking engagements throughout the County

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		and the region to provide training on IPM and especially on bed bug issues.
		• The IPM Coordinator and other County staff have been working closely with cities to provide guidance on the bed bug infestations they are experiencing.
		• The IPM Coordinator is working with Code Enforcement in the City of Richmond to develop bed bug training for Code Enforcement officers throughout the state.
		 Every month the IPM Coordinator spends a significant number of hours talking with citizens about least-hazardous bed bug control.
		• The Agricultural Department represents the California Agricultural Commissioner's and Sealer's Association as the sitting member of the California Invasive Species Advisory Task Force.
		 In October 2013, County staff attended a Parents for a Safer Environment's IPM workshop and found it informative. Parents for a Safer Environment can provide a useful community service by hosting more such workshops.
		 In April 2014, the IPM Coordinator provided an in-person IPM tutorial for the Grounds Division's new spray technician.
		• In May 2014, the IPM Coordinator arranged an IPM workshop given by Pestec, the County's Structural IPM Contractor, for the County's Head Start Home Base educators. Pestec presented information on how to prevent pests in the home and simple, non-toxic strategies for low income families to use to combat pest invasions. Home Base educators provide in-home education to Head Start families.
		 In May 2014, the Contra Costa Environmental Health Division sponsored a workshop on IPM for bed bugs for County Environmental Health Inspectors and code enforcement officers in Contra Costa municipalities.
		 In July 2014, the County hosted a presentation by the U.C. Horticultural Advisor on how landscapes should be managed during drought and how to plan landscapes for what is likely to be continual droughts. County staff, both administrators and maintenance personnel, along with park personnel from the city of Danville attended.
		 In July 2014, the IPM Coordinator provided a bed bug awareness training for the residents of Meadow Wood at Alamo Creek, a senior living facility in Danville, along with subsequent consultation with individual residents and staff.
		 In September 2014, the IPM Coordinator provided the Greater Richmond Interfaith Program with assistance for a bed bug infestation at their Family Housing Program.
		 In February 2015, the IPM Coordinator met with staff at the Bay Area Rescue Mission in Richmond to discuss bed bug prevention.
		 In June 2015, the IPM Coordinator completed an IPM Guidance manual for municipalities in Contra Costa County with help from Beth Baldwin of the County Clean Water Program and Stephen Pree of the City of El Cerrito. The three had worked for 2 years to develop IPM guidance for cities on implementing IPM and to develop standard operating procedures for various pests. The three presented an IPM workshop for municipal staff that included information on how to use the manual and resources available to them within the County.
		 In November 2015, the IPM Coordinator and Luis Agurto from Pestec provided a bed bug training for County Adult Protective Services staff who have been encountering bed bug problems in their clients homes more frequently.

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		 In April 2016, the IPM Coordinator helped arrange a County-sponsored Bay Friendly Landscaping refresher training at the Pittsburg Civic Center open to all Bay Friendly certified landscaping professionals in the County.
		 In April 2016, the IPM Coordinator and Luis Agurto from Pestec provided a bed bug awareness training for staff from the Behavioral Health Division.
		 In May 2016, the IPM Coordinator arranged a talk on mosquitoes as vectors of disease by Dr. Steve Schutz of CC Mosquito and Vector Control for the IPM Advisory Committee.
		 In May 2016, the IPM Coordinator gave a class in home and garden pests at the Gardens at Heather Farms for the general public.
		 In May 2016, the IPM Coordinator helped arrange a talk at the Richmond Civic Center on vertebrate pest management for County and municipal staff and professional landscapers.
		 In May 2016, the IPM Coordinator provided a bed bug prevention training to the County's Discovery House staff.
		 In June 2016, the IPM Coordinator and Carlos Agurto from Pestec provided a bed bug prevention refresher training to the Concord Homeless Shelter and Calli House youth shelter staff.
		 In July 2016, the IPM Coordinator provided bed bug prevention trainings for both Adult Mental Health and Older Adult Mental Health staff.
		 In August 2016, the IPM Coordinator provided bed bug prevention trainings for the Behavioral Health safety coordinators and for a group of board and care owners and managers.
		 In October 2016, the IPM Coordinator provided a bed bug prevention talk for homeless care providers, worked with the City of Richmond to create a plan for managing bed bugs in their city, and talked to staff at 1650 Cavallo about preventing ant infestations.
		• In January 2017, the IPM Coordinator gave a presentation on bed bugs for a group home in Antioch.
		 In February 2017, the IPM Coordinator provided the IPM presentation for the Bay Friendly Landscaping training in Concord.
		 In February 2017, the IPM Coordinator gave a bed bug talk at a home for HIV patients in El Cerrito.
		 During the spring of 2017, the IPM Coordinator consulted on a project of the Alameda County Healthy Homes program to create a three-part online training series on IPM for landlords and property owners.
		 In May of 2017, the IPM Coordinator participated in a bed bug investigation of a motel in Richmond and helped to educate the owner about bed bug prevention.
		 In August, the IPM Coordinator gave a bed bug awareness presentation to WIC staff.
		 During the summer of 2017, the IPM Outreach subcommittee of the IPM Advisory Committee developed a short presentation on pest management in homes for County in-home visitors. The subcommittee has three presentations scheduled through the end of 2017, and will be contacting additional groups for presentations in the new year. As of November 2018, the subcommittee had given 14 presentations which trained 233 in-home visitors about the risks of pests and pesticides in the home and explained prevention and control measures for

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		common pests.
		In August of 2017, the IPM Coordinator and Carlos Agurto from Pestec, the County's structural pest management contractor, provided a bed bug prevention training for Calli House Youth Shelter staff. In September, the IPM Coordinator provided a bed bug prevention presentation for WIC staff. In January and March 2018, Pestec and the IPM Coordinator provided additional training for all staff from all of the County shelters. They had provided this training in the past, but will now provide it at least annually to make sure new staff understand the threat, how to take precautions, and how to prevent infestations.
		 During 2018, the IPM Coordinator and members of the IPM Advisory Committee gave outreach presentations to 235 County staff and volunteers to help them assist their clients with pest management issues in the home.
		In early February 2020, the IPM Coordinator convened a carbon dioxide injector demonstration of a device that may help reduce problematic populations of ground squirrels around County Facilities. Personnel from the Public Works and Agriculture Departments were present, and received two hours of continuing education units from the California Department of Pesticide Regulation.
		• <u>The IPM Coordinator will be requesting continuing education units for several IPM</u> <u>Committee meetings and other training events scheduled for 2020.</u>
	Violations of the Brown Act	
12/5/13-TWIC 3/2/15-TWIC	From Parents for a Safer Environment (PfSE): "continued violations of the Brown	• Staff always respond within 10 days to public records requests. In almost all cases staff respond within 1 to 3 days. The only reason for delay has been to find and collect documents that have been requested.
8/6/15-IPM 2/17/16-IPM	Act including repeated disposal of original meeting minutes, repeated	• The County takes public records requests seriously and responds promptly to each one.
	failure to provide public records at all or much later than 10 working day, and meeting minutes that do not accurately reflect comments	• Hand written meeting minutes are recycled after official minutes have been typed up. Official minutes, once approved by the IPM Committee, are posted on the IPM website.
	"our county's IPM policy and the Public Records Act have been violated at least on a quarterly basis by staff since 2009." (3/2/15)	• The IPM Committee approves the minutes for each meeting. The public is provided time to comment on the minutes, and as the IPM Committee sees fit, the minutes are corrected.
		• Staff are ready to respond to any specific instances or claims of Brown Act violations. Staff maintain written logs of all public records requests.
	"We are still waiting to learn where Fusilade II Turf and Ornamental herbicide had been applied by the Grounds Program in the past years" (8/6/15)	• On July 8, 2015 Susan JunFish formally requested information about Fusilade use by the Grounds Division. On July 16, 2015 the IPM Coordinator provided her with a chart, created for her, showing how much and where Fusilade was used (0 used in FY 12-13 and FY 14-15 and 0.1 pound used once in a parking lot in FY 13-14).
	Financial incentives to serve of	on the IPM Committee/Conflict of interest on the IPM Committee
12/5/13-TWIC 1/14/15 IPM	From Parents for a Safer Environment (PfSE):	Staff disagree that there are any kinds of financial incentives to serve on the IPM Advisory Committee, but will defer to the Board of Supervisors on whether to impace such a margareterium.
3/2/15-TWIC 2/17/16-IPM	The County should "discourage financial incentives of [IPM Committee] applicants by	 impose such a moratorium. If the public has evidence of financial incentives for serving on the IPM Committee, we request that they bring that evidence forward.
	providing a minimum of a 5 year moratorium for those who serve to	 Michael Baefsky was not a member of the IPM Advisory Committee when he was asked to contract with General Services to advise the County on non-chemical

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	be eligible for receiving a county contract or any funding" "In 2009, Michael Baefsky, a community representative of the IPM Advisory Committee received a contract with the former General Services Department according to a document from Terry Mann, former Deputy Director of the General Services Dept. After receiving that contract, Mr. Baefsky's behavior on the Committee changed significantly."	 methods to manage weeds on the Camino Tassajara medians in 2009. His contract ended in 2009. That year he attended meetings of the IPM Task Force, an informal body with no official appointees. The IPM Advisory Committee was not created until 2010, and he was appointed by the Board to an At-Large seat in 2010. He has held no contracts with the County since 2009. The IPM Committee bylaws state the following in sections III.B.2&3: "Contractors who provide pest management services to the County may not serve on the Committee. The exception is A.1.d., above, the Current Structural Pest Management Contractor with General Services Department. "If a member's work status or residence changes, he/she must notify the Committee in writing, within thirty (30) days of their change in status. The Chair will review the change of status and determine if the member is still eligible for membership according to these by-laws. If they are found to be ineligible, the member will be asked to resign his/her position."
	Monetary compensation or gif	ts from pesticide salespeople
12/5/13-TWIC 3/2/15-TWIC	From Parents for a Safer Environment (PfSE): "We are requesting that TWIC require that all staff involved in ordering pesticides from salespersons fill out a form disclosing any monetary compensation or any other forms of gifts from pesticide salespersons"	 County staff do not receive (and have not been offered) gifts or compensation in any form from pesticide salespeople or any other salespeople. Accepting gifts or compensation would be against County policy⁵ and would subject staff and their departments to disciplinary action If the public has evidence of County staff taking bribes, we urge the public to provide that evidence for investigation.
	IPM Committee did not accept all of Parents for a Safer Environment's priorities as their own	
2/12/14-TWIC 11/16/17-IPM 1/17/18-Email 1/18/18-IPM	From Parents for a Safer Environment (PfSE): The IPM Committee is planning to include only 70% of PfSE's priorities as the Committee's priorities for 2014 Taking PfSE's priorities into	 The IPM Committee devoted more than an entire meeting to the discussion of its work priorities for 2014. The public was fully involved in the discussion and PfSE provided documents and testimony detailing their own priorities. The Committee had a thorough discussion and then voted on which priorities to pursue. The IPM Committee continues to hear from PfSE about, and involve them in, setting priorities for the Committee (11/2017 and 1/2018).

⁵ California Government Code § 1090 prevents county employees and officials from being "financially interested" in any contract made by them in their official capacity, or by anybody or board of which they are members.

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California Government Code § 81000 et seq., known as the Political Reform Act, requires, among other things, that certain public employees perform their duties in an impartial manner, free from bias caused by their own financial interest. See Cal Gov Code § 81001(b). It also prevents certain employees from using their positions to influence county decisions in which they have a financial interest. See Cal Gov Code 87100. The Act also requires certain employees and officers to file a Form 700, Statement of Economic Interests (the CCC Agricultural Commissioner, the managers in Public Works and the IPM Coordinator fill out this form) See Cal Gov Code 89503.

CCC Administrative Bulletin 117.6, paragraph 6, can be read to prevent employees from accepting any gift which "is intended, or could reasonably considered as tending to influence business or applications pending before the Board of Supervisors."

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	IPM Coordinator references state	nents by members of Parents for a Safer Environment that were never made
3/2/15	From Parents for a Safer Environment (PfSE): "PfSE members also feel a lack of goodwill and collaboration when the IPM Coordinator references statements by members that were never made. For example, in the Response Table, it states that a PfSE member stated at the February 12, 2015 [<i>sic</i>] TWIC meeting that 'The IPM Committee is planning to include only 70% of PfSE's priorities as the Committee's priorities for 2014.' We would be thrilled if this was the case"	 In her written public comments to TWIC on February 12, 2014, Susan JunFish states: "We believe that the Committee is planning to address about 70% of the priority issues the community has raised, so we are hopeful. The two areas where there has been no plan to address are columns 4 and 5 of the table."
	The IPM Committee needs a n	on-voting facilitator
2/12/14-TWIC 3/2/15-TWIC	From Parents for a Safer Environment: "an impartial, non-voting facilitator would make the meetings run smoother and become more viable"	 Staff believe that meetings are run effectively and efficiently. The new IPM Committee chair has been very effective at running the 2014 and 2015 IPM Committee meetings and allowing the public ample opportunities to provide comment.
	Parents for a Safer Environme Review Report	nt disagrees with responses to "unresolved" issues in the Triennial
11/6/13-IPM 2/12/14-TWIC 3/5/14-IPM 3/2/15-TWIC	From Parents for a Safer Environment: Disagreement with the response by staff to "unresolved issues" in the Triennial Review Report for the IPM Advisory Committee	 The response in dispute refers to the question in Section VIII of the Triennial Review report to the Board of Supervisors from the IPM Committee: "The purpose of this section is to briefly describe any potential issues raised by advisory body members, stakeholders, or the general public that the advisory body has been unable to resolve." The response given to this question in the report accurately reflects the response intended by the IPM Committee as agreed at their November 6, 2013 meeting. The Triennial Review Report has been accepted by TWIC and the BOS, and the IPM Committee cannot go back and change the report.
		 The issue in question for the IPM Committee was whether to describe in Section VIII only issues that the Committee had been unable to resolve, or to also include a discussion of issues that PfSE felt were still unresolved. The Committee debated this and decided to also include a discussion of issues that PfSE felt were unresolved. However, it was completely clear from the discussion at the meeting that the Committee agreed that the issues described in this section (with the exception of the two that were noted as ongoing) had previously been given due consideration by the Committee, and that the Committee had addressed the issues. The Committee directed the IPM Coordinator to meet with the Committee

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		 Note that in the IPM Committee's extensive planning sessions for 2014 work, the Committee did not identify any of the "unresolved" issues as priorities for 2014.
	The IPM Website is not current	<u>t.</u>
<u>5/16/19</u>	From Parents for a Safer Environment (PASE): "Currently the county's IPM website is far behind in being current. Specifically, there is no annual report, whether the 2018 report that was recently approved, or any of the older reports. As Shirley Shelangoski has presented several times in the past years, the website is far from being transparent and informative. Please place this item on the agenda so that there could be clear delineation of the timing and what documents should be on the IPM website for the new IPM Coordinator. Second, the most recent pesticide usage by county depts. Is dated as FY 14-15. We need to upload the FY 17-18 usage spreadsheet. It's sad that even PASE's website has that document uploaded. It took only 5 minutes and there's no reason to not have these documents on the website as agreed in past IPM Advisory Committee meetings. Third, all the pesticide use reports can easily be uploaded as one pdf file. They should be available for the community to see." (5/16/19)	• The 2018 annual report was added to the website shortly after this concern was expressed. The IPM Coordinator acknowledges that many website updates are needed and plans to prioritize these updates in the coming months.
<u>5/30/19-IPM</u>	Susan JunFish requested that the Maintenance Division provide a report on the efficacy of weed management without pesticides during 2018 (5/30/19)	<u>Intenance Division to Report on non-chemical Vegetation Management</u> <u>The Decision-Making Subcommittee made a similar recommendation in their annual report and that recommendation to the Public Works Department is also included in the in the annual report which was approved by the IPM Advisory Committee on 11/21/19.</u>

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	Request for Public Works Main	ntenance Division to Report on non-chemical Vegetation Management
<u>9/26/19-IPM</u>	From Parents for a Safer Environment (PASE): Karolina Park referenced comments made by Public Works Staff in the 8/8/19 Subcommittee meeting regarding the eradication of Dittrichia in roadways by hand not being feasible or cost effective. She requested that an article by Chuck Morse published in the Cal-IPC News be added to the record for the 9/26/19 meeting. The article was from the Spring 2013 issue and described the efforts of the Mendocino County Department of Agriculture to control the spread of Dittrichia graveolens (stinkwort) in that jurisdiction.	 The article was included in the meeting minutes of the Decision-Making Subcommittee meeting of 9/26/19. Additionally, the IPM Coordinator spoke with Mendocino County Department of Agriculture staff to find out the current status of the program. While the first few years of this effort seemed to initially slow the spread of stinkwort in Mendocino County, the species' coverage in the county has increased. They no longer use hand-pulling as a major form of control. The topic of Dittrichia was discussed at a Regional IPM Coordinator's meeting on 11/22/19. Representatives from multiple public agencies throughout the Bay Area indicated that it is becoming a major problem and hand-pulling is not considered a viable solution at the jurisdictional scale, although some agencies have successfully contained populations at some parks and open space areas though the efforts of volunteer groups.