

YELLOW MATERIALS LIST

This list should serve as a reference document for material selection, and to demonstrate hazard screening protocol. It is not comprehensive of all materials, nor should it be adopted in whole. Sources should be viewed periodically for updates

San Francisco Tier 2 Limited

Source and Explanation of Protocol: <http://temp.sfgov.org/sfenvironment/aboutus/innovative/ipm/>

Pesticide Type	Use Category	Hazard Tier	Product Name	Active Ingredients	Use Limitations
	A = allowed L= limited L* = special concern	1 = Highest 2 = Moderate 3 = Lowest 4 = Data gaps			
Herbicide	L	Tier 2	Ezject Selective Injection Herbicide	glyphosate	Tree stump injection especially where resprouting is likely, prefer mechanical methods when possible such as stump grinding
Herbicide	L	Tier 2	Garlon 4	triclopyr	Targeted treatment of invasive exotics in parks,natural areas, right of ways. OK for fuel reduction, pilot alternative strategies.
Herbicide	L	Tier 2	Oust XP Herbicide by DuPont	sulfometuron-methyl	Rights of ways.
Herbicide	L	Tier 2	Roundup Pro Herbicide	glyphosate	Spot application of areas inaccessible or too dangerous for hand methods, right of ways, utility access, fire prevention. Use for cracks in hardscape and edging only as last resort. OK for renovation but must put in place weed prevention measures.
Herbicide	L	Tier 2	Roundup ProDry	glyphosate	same limitations as Roundup Pro
Herbicide	L	Tier 2	Turflon Ester (post)	triclopyr	Targeted treatment of turf; broadcast application requires exemption
Insecticide	L	Tier 2	Agnique MMF	isooctadecyl-hydroxyl	Standing water, human health concerns.
Insecticide	L	Tier 2	Altosid Briquets by Zoecon	methoprene	PUC for contained sewage treatment facilities. For public health use. Not for use in estuarine environments.
Insecticide	L	Tier 2	Altosid Pellets by Zoecon	methoprene	Not for use in estuarine environments
Insecticide	L	Tier 2	Avid 0.15 EC	avermectin	Nursery use only.
Insecticide	L	Tier 2	Azatin XL	Azadirachtin	Nurseries and established plants for interiorscapes.
Insecticide	L	Tier 2	Borid	boric acid	limit human exposure to dust

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Insecticide	L	Tier 2	Golden Bear Mosquito Larvicide GB-1111	Aliphatic Petroleum Hydrocarbon	Apply only in conjunction with appropriate prevention measures (such as increasing water flow), or when prevention measures are impractical. Use within requirements on vector control activities set by the Calif. Dept. of Health Services.
Insecticide	L	Tier 2	Maxforce FC Professional Insect Control Ant Bait Stations	fipronil	Minimize use through prevention, possible concern over active ingredient.
Insecticide	L	Tier 2	MaxForce FC Professional Insect Control Ant Killer Gel	fipronil .001%	Minimize use through prevention, possible concern over active ingredient.
Insecticide	L	Tier 2	Maxforce FC Professional Insect Control Roach Bait Stations	fipronil	Minimize use through prevention, possible concern over active ingredient.
Insecticide	L	Tier 2	Maxforce IBF4 Carpenter Ant Bait	fipronil	Minimize use through prevention, possible concern over active ingredient
Insecticide	L	Tier 2	Maxforce Roach Killer Bait Gel	fipronil	Minimize use through prevention, possible concern over active ingredient
Insecticide	L	Tier 2	M-pede Insecticide/Fungicide	potassium salts/ fatty acids	Nursery, specialty gardens, and Africanized Honey Bees.
Insecticide	L	Tier 2	Niban Granular Bait	orthoboric acid	Outdoor restricted to planted areas, prefer containers; indoor must be in containers or inaccessible to humans
Insecticide	L	Tier 2	PT Brand Wasp-Freeze Wasp and Hornet Killer Formula 1	phenothrin, allethrin, CO2	Use only when a concern for public safety.
Insecticide	L	Tier 2	PT Brand Wasp-Freeze Wasp and Hornet Killer Formula 1	phenothrin, allethrin, CO2	Use only when a concern for public safety.
Insecticide	L	Tier 2	Saf-T-Side	paraffinic oil	Trace of alkyl-phenol ethoxylates, avoid contact with surface waters.
Insecticide	L	Tier 2	Terro Ant Killer II Liquid Ant Baits	sodium tetraborate	
Insecticide	L	Tier 2	The Ecology Works Dust Mite and Flea Control	Disodium octaborate tetrahydrate (DOT) -98%	For flea and dust mite control when mechanical methods are impractical, in conjunction with prevention. Limit human exposure to dust.
Vertebrate	L	Tier 2	Ditrac supersize blox	diphacinone	Concern over 2nd poisoning, see site specific limits.

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Vertebrate	L	Tier 2	Eaton's All-Weather Bait Blocks Rodenticide with Apple Flavorizer	diphacinone 0.005%	Concern over 2nd poisoning, see site specific limits.
Vertebrate	L	Tier 2	Gopher Getter type 2 Bait by Wilco	chloro- phacinone	Damage to: dams, levies, athletic fields, active recreation areas, structures, high cultural value or landmark areas. Public Health concerns.
Vertebrate	L	Tier 2	JB Eaton Top Gun All-Weather Bait Block Rodenticide	bromethalin	Limited use to avoid rodent aversion to one specific bait. Use only in locked bait stations. High concern over secondary poisoning of birds.
Vertebrate	L	Tier 2	JT Eaton Answer for the Control of Pocket Gophers	diphacinone	Damage to: dams, levies, athletic fields, active recreation areas, structures, high cultural value or landmark areas. Public Health concerns.
Water applied herbicide	L	Tier 2	Aquamaster Herbicide (equivalent to Rodeo)	Glyphosate	May damage non-target plants. Use for emergent plants in ponds, lakes, drainage canals, and areas around water or within watershed areas. Only as a last resort when other management practices are ineffective. NOTE: Equivalent to "Rodeo Emerged Aquatic Weed and Brush Herbicide," an older product. Rodeo in storage may be used under the same limitations.
Water applied herbicide	L	Tier 2	Sonar A.S.	fluridone	Emergent plants in ponds, lakes, drainage canals. Only as a last resort when other mgmt. practices are ineffective.

Seattle Tier 2

Source and Explanation of Protocol: <http://www.ci.seattle.wa.us/environment/pesticides.htm>

Type		Tier	Product	Active	Notes
Fungicide		Tier 2	Aliette	fosetyl aluminum	toxic to aquatic invertebrates
Insecticide		Tier 2	Altosid XR Briquets	methoprene	toxic to aquatic invertebrates
Insecticide		Tier 2	Altosid XR-G	methoprene	no data on persistence, but strongly bound to soil
Insecticide		Tier 2	ARI Wasp & Hornet Killer	tetramethrin;phenothrin	toxic to fish and aquatic invertebrates
Insecticide		Tier 2	Azatin XL	azadirachtin	no data on persistence, but strongly bound to soil
Insecticide		Tier 2	Bee Bopper II	tetramethrin;phenothrin	*contains ethylbenzene as inert ingredient

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Fungicide		Tier 2	Camelot	copper salts of fatty acids	
Other		Tier 2	Cycocel	chlormequat chloride	hazard to birds of prey; multiple-feeding baits offer more safety margin
Other		Tier 2	D-Con Lim N8	brodifacoum	limit use near water to avoid runoff
Herbicide		Tier 2	Devrinol 50WP	napropamide	limit use near water to avoid runoff
Herbicide		Tier 2	Devrinol 5-G	napropamide	no data on persistence, but strongly bound to soil
Insecticide		Tier 2	Enforcer Wasp & Hornet	phenothrin; tetramethrin	limit use near water to avoid runoff
Herbicide		Tier 2	Expedite	glyphosate	limit use near water to avoid runoff
Herbicide		Tier 2	Expedite II	glyphosate	limit use near water to avoid runoff
Herbicide		Tier 2	Expedite Plus	glyphosate; oryzalin	limit use near water to avoid runoff
Herbicide		Tier 2	Gallery 75 DF	isoxaben	limit use near water to avoid runoff
Herbicide		Tier 2	Garlon 4	triclopyr	limit use near water to avoid runoff
Herbicide		Tier 2	Knock-Out (old formula)	glyphosate	limit use near water to avoid runoff
Herbicide		Tier 2	Krenite	fosamine ammonium	*product is pathogenic to honey bees
Insecticide		Tier 2	Naturalis-O	Beauveria bassiana	*depending on mobility, could be Tier 3
Herbicide		Tier 2	Nature's Glory (RTU)	acetic acid	(same registration as Expedite II, see above)
Herbicide		Tier 2	Nomix Sweep		Suggest avoiding products with a.i. >~30%
Insecticide		Tier 2	Off Insect Repellent	DEET	off-target toxicity mitigated by indoor use
Insecticide		Tier 2	Orthene PT 1300	acephate	indoor use product
Insecticide		Tier 2	Ortho Flying & Crawling Insect Killer	phenothrin; d trans allethrin	limit use near water to avoid runoff
Herbicide		Tier 2	Oust	sulfometuron methyl	limit use near water to avoid runoff
Herbicide		Tier 2	Pathfinder II	triclopyr	limit use near water to avoid runoff
Herbicide		Tier 2	Poast	sethoxydim	
Fungicide		Tier 2	Prostar 70WP	flutolanil	
Insecticide		Tier 2	Raid Flying Insect	allethrin; phenothrin	very high BCF
Insecticide		Tier 2	Raid Wasp & Hornet	tetramethrin; permethrin	BMP for mole control should be developed
Other		Tier 2	Revenge Mole	zinc phosphide	aquatic applications require state permit
Herbicide		Tier 2	Rodeo	glyphosate	

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Insecticide		Tier 2	Rose Defense	neem oil	limit use near water to avoid runoff
Herbicide		Tier 2	Roundup (18% conc)	glyphosate	limit use near water to avoid runoff
Herbicide		Tier 2	Roundup Pro	glyphosate	Possible toxicity to bees based on label of 90% prod.
Insecticide		Tier 2	Safer Bio-Neem	azadirachtin	
Insecticide		Tier 2	Safer Yard & Garden	pyrethrins; fatty acid soap	indoor use only
Insecticide		Tier 2	Summit Sumithrin Greenhouse Spray	phenothrin	
Insecticide		Tier 2	Superior Spray Oil	petroleum distillates	limit use near water to avoid runoff
Herbicide		Tier 2	Surflan 75W	oryzalin	limit use near water to avoid runoff
Herbicide		Tier 2	Surflan AS	oryzalin	
Fungicide		Tier 2	Triact 70	neem oil	limit use near water to avoid runoff
Herbicide		Tier 2	Turflon Ester	triclopyr ester	limit use near water to avoid runoff
Herbicide		Tier 2	Weed Stopper	oryzalin	limit use near water to avoid runoff
Herbicide		Tier 2	XL 2G	benefin; oryzalin	
Insecticide		Tier 2	Zep Insect Repellent	DEET	no data on persistence, but strongly bound to soil
Insecticide		Tier 2	Zep Total Control	tetramethrin; phenothrin	no data on persistence, but strongly bound to soil
Insecticide		Tier 2	ZEP Tox Wasp & Hornet	tetramethrin; phenothrin	