

Appendix D

Aquatic Estimated Environmental Concentrations (EEC's), Aquatic and Atmospheric Monitoring, and Modeling Input Files

Models and Scenarios

Estimated Environmental Concentrations (EEC's) for surface water were calculated using Tier II PRZM (Pesticide Root Zone Model, Version 3.12; May 7, 1998) and EXAMS (Exposure Analysis Modeling System, Version 2.97.5; June 13, 1997). PRZM is used to simulate pesticide transport as a result of runoff and erosion from a standardized field planted in a single crop, and EXAMS estimates environmental fate and transport of pesticides in a standardized pond. The most recent linkage program shell - PE4V01 (January 8, 2003), which incorporates the standard scenarios developed by EFED, was used to run these models.

The linked crop-specific scenarios and meteorological data were used to estimate exposure as a result of specific uses for each modeling scenario. Weather and agricultural practices are simulated over 30 years (<http://www.epa.gov/oppefed1/models/water/index.htm>). The reported EECs are values that are only expected to be reached once every ten years.

The model predictions are based on maximum labeled application rates of chlorothalonil. Based upon toxicity data for aquatic organisms, chlorothalonil degradates were not included in estimating aquatic concentrations. Scenarios developed specifically for this Red legged Frog Endangered Species assessment, along with standard EFED scenarios have been used to estimate surface water concentrations. All scenarios used in this assessment have had the modeled irrigation routines disabled. Among the standard EFED crop scenarios used in this assessment, there are: CAalmond, CANursery, CAonion, CAcitrus, CAfruit, and ORXmasTree. Additionally, a California corn scenarios developed for OP Cumulative assessment, and a CAcole crop, CAgarlic, CAmellons, CAPotato, CATurf, CARowCrop, and a CAWineGrapes scenarios that have been developed for use in the California Red Legged Frog endangered species assessment have been used to estimate surface water concentrations.

Description of Scenarios Developed Specifically for the California red Legged Frog Endangered Species Assessment

CALIFORNIA COLE CROP

This scenario is intended to represent general cole crop production in the Central California Coast/Coastal Valleys Range, primarily MLRAs 14 & 15, hereafter referred to as area of interest (AOI). Cole crops include crops such as broccoli, cauliflower, and cabbage. Based on 2002 USDA Census of Agriculture data, approximately 170,763 acres of these crops was grown in California (USDA, 2002). Among these crops, broccoli is the most common cole crop, representing roughly 70% of the total acreage. Within the AOI, approximately 78% of the cole crop acreage and nearly 60% of total pesticides pounds product applied to cole crops (broccoli, cabbage, and cauliflower) occurs in the counties of Monterey, Santa Barbara, and San Luis Obispo. Monterey is the top producing cole crop county in the state representing approximately 50% of the total acreage (USDA, 2002). It is also the top pesticide usage county (based on total pounds product applied) in the state (CalPIP, 2006) for application to cole crops.

This scenario is generally parameterized based on broccoli crops. Monterey County is the major broccoli production area, constituting nearly half the total acreage in California (VRIC, undated; Production areas and seasons). California broccoli production consists of 91% of all commercially grown broccoli grown in the United States (USDA 1999). Monterey County broccoli acreage was approximately 121,000 acres in 1998. (USDA 1999). The majority of broccoli grown in coastal valleys includes hybrids of the Italian green type, also known as sprouting green broccoli or calabrese. (VRIC, undated; Broccoli Varieties). Broccoli is mostly direct seeded; however, recently, there has been an increase in using transplants (VRIC 1996; USDA 1999).

Typical cropping practices includes flail mowing the previous crop, disking, ripping, plowing, multiple disking, land planning, listing, bed shaping and sprinkler irrigation practices (VRIC, 1996; UC Cooperative Extension Farm Advisor; USDA 1999). Sprinkler and furrow irrigation is typically used throughout the growing season. Both direct seeded and transplanted broccoli are established by sprinkler irrigation, which allows incorporation of herbicides and fertilizer application with the water. Once the plants are established, furrow, sprinkler or drip irrigation can be used (USDA, 1999; UC Cooperative Extension Farm Advisor; VRIC 1996). Broccoli plants have a maximum root depth of 18 inches and prefer well-drained soil, but can be grown on a variety of soil textures (VRIC 1996). In the coastal regions, two or more broccoli crops are common, in rotation with lettuce or celery (USDA 1999). Whether grown by direct seeding or with transplants, broccoli is typically grown in double rows on raised beds 38 to 42 inches. It is occasionally planted in single rows on 30 inch beds with plant spacing at 5 to 6 inches (VRIC 1996). In coastal districts, the use of high density broccoli plantings, which consists of six plant lines per bed with 80 inch centers, is a more recent trend (USDA 1999).

Metfile W23234 (Santa Maria) is the meteorological data set used to representative Central California Coast/Coastal Valleys Cole crop production. The station is located along the coast in Santa Barbara County within MLRA 15. It is roughly 106 miles to the south of Monterey County which contains the field used to represent this scenario. The Fresno station is approximately 20 miles closer to the geographic center of Monterey County, however the Santa Maria station was deemed more representative for several reasons. First, this scenario is generally a coastal scenario. Fresno is an inland station whereas the coastal Santa Maria station is more representative of the Coastal Climate of this scenario. In addition, the Santa Maria station receives approximately three inches more annual rainfall than the Fresno station, increasing the conservative nature of the scenario (NOAA, 2006).

Location and metfile selections are often the most important developments affecting scenario vulnerability and protectiveness. Metfile selection has been discussed above. Soil selection is also an important protectiveness factor. Because over 70% of the cole crops acreage consist of broccoli, soils were selected based on the ability to support broccoli production. The Marimel series was chosen for this scenario because it is found in Central California Coast/Coastal Valleys Range, is a hydrologic group C soil and accounts for 13% of cole crop bearing soils acreage (USDA, 2002; Table 5). It is a Fine-loamy, mixed, superactive, thermic Cumulic Haploxerolls soil found on slopes of 0 to 2% (USDA, 2003), which includes

CALIFORNIA GARLIC

California is the largest producer of garlic in the United States measured both in acres and number of producing farms (USDA, 2004). 29,240 acres were dedicated to garlic production in 2001, with 96.5% of production occurring in Fresno and Kern Counties located within the San Joaquin Valley. Approximately 65% of California garlic is grown for dehydration/processing, 20% for fresh market, and 15% (grown in the Northern and Eastern regions) for seed.

Garlic is propagated vegetatively through the planting of cloves. Root depth is usually 18-24". Both garlic and onions are grown in elevated light soil beds planted in double rows at a density of approximately 18 plants per foot. Fields are treated with herbicide immediately after planting and will usually receive one or two further applications before harvest. Garlic intended for fresh markets will often go without any insecticide treatments, while garlic grown for dehydration will receive insecticide treatments near maturity. The majority of garlic crops, intended for dehydration, will be mowed up to 2 months before harvest by mechanical diggers. Garlic grown for fresh markets is harvested earlier by mechanical "undercut" techniques that loosen the bulbs within the soil (USDA, 2004).

The Met station chosen was the Fresno station (W93193.dvf) located at 36° 47' N, 119° 43' W and at an elevation of approximately 102 meters above sea level. The station is located within Fresno County where the majority of garlic is grown and is the closest station containing the necessary data for PRZM. This station receives an average of approximately 27 cm of rainfall annually, with the majority of rainfall occurring between November and March.

The Cerini series is the second most common soil found in garlic producing areas of Fresno, Kern, and Kings Counties, accounting for nearly 20% of garlic bearing soils acreage (USDA, 2006). Garlic in California is predominantly grown on clay loam to sandy loam soils (USDA 2004). Cerini soils are found in Fresno and Kings Counties and are fine-loamy, mixed, superactive, thermic Fluventic Haplocambids soil found on slopes of 0 to 5% (USDA, 2003). Cerini soils are identified as garlic bearing soils (USDA 2003, USDA 2006) and are among the top soils for expected irrigated yields (Table 5). Cerini soils are not expected to yield garlic without irrigation (USDA, 2006; Table 5). Location and metfile selections are often the most important developments affecting scenario vulnerability and protectiveness. Because over 80% of garlic in California is grown in Fresno County (USDA, 2002; USDA, 2004) the metfile closest to the center of Fresno county was chosen. In fact, approximately 95% of garlic grown in Fresno county is grown in the area bounded by Interstate 5 on the west, the city of Huron on the south, and US 269 on the east (R. Ehn, California Garlic and Onion Research Advisory Board, personal communication). This detailed information allowed for soil selection within that boundary. The Cerini series was selected for this scenario because it is both representative of garlic bearing soils, is predominant in the main production area of Fresno county, and because it represents 60% of soils by drainage, the 90% for erodibility, and is among the steeper sloped garlic bearing soils (Table 5).

Cerini is a Hydrologic Group C soil, which includes the 90th percentile of these soils in drainage. Cerini soils have a USLE K factor of 0.37, which is common to 58% of coffee bearing soils and includes the 90th percentile of these soils in erodibility. Approximately 10% of garlic bearing soils have a pH lower than Cerini soils (7.7). However, soil pH is not currently a PRZM input parameter and is not expected to often affect chemical fate in the acidic range. Cerini soils have an A horizon from 0 to 5 inches (0-13 cm) deep and a B horizon from 5 to 52 inches (13-132 cm) deep. No benchmark soils of California were selected for this scenario, since no hydrologic group C or D benchmark soils bear garlic production (USDA, 2006). Cerini clay loam 0-2 percent slopes was used to parameterize this scenario (USDA 2006).

CALIFORNIA MELONS

This scenario is intended to represent California melon crops, such as cantaloupes, honeydew, and watermelons (Figure 1). Based on 2002 USDA National Agricultural Statistics Summary, approximately 70% of the crop acreage for the above three melon crops is cantaloupe production (USDA, 2002). The majority of cantaloupe production is in the southern San Joaquin Valley (*primarily Fresno County*). As such, soil, weather, and crop parameters for this scenario nominally represent cantaloupe production in the southern San Joaquin Valley. This scenario may also be used as a surrogate for other melon crops as determined on a case by case basis. Melons belong to the cucurbit family of plants, known as Cucurbitaceae, which includes cucumbers, gourds, squash, and pumpkins. There are several different genus names used in the family. Cantaloupes (*Cucumis melo* L. var. *antalupensis*) and honeydews (*Cucumis melo* L. var. *inodorus*) are classified in the same genus. Mixed melons include crenshaw, casaba, Santa Claus, Persian, Juan Canary, piel de sapo, and other melon types. California ranks first in the nation in production of cantaloupes. Acreage plantings for the year 2002 from the USDA National Agricultural Statistics Summary show California ranked number one with 52,727 acres of the total 105,262 planted acres in the United States. This puts the state's production at approximately 50% of all cantaloupes grown in the US (USDA, 2002). California also ranks first in the nation in production of honeydew melons. The same 2002 summary shows California ranked number one in planted honeydew acreage at 20,192 acres of the total 24,258 planted acres in the US (USDA, 2002).

There are three commonly recognized areas of melon production in California:

Area I, located in the northern San Joaquin Valley and lower Sacramento Valley grows approximately 6% of the state's cantaloupes with production focused in Stanislaus County. Area I produces 56% of the honeydews grown in the state with production in Sutter, Yolo, and Stanislaus Counties. Counties are being listed in order of highest planted acreage. Area I also produces approximately 21% of the mixed melons in Stanislaus and San Joaquin Counties. Planting of melons is from April to early July with harvest from mid-July to mid-October. Rainfall varies from about 26 inches per year in the Sacramento Valley to about 16 inches per year in Modesto in the northern San Joaquin Valley. Area I uses flood irrigation to pre-irrigate melon fields then utilizes dryland farming techniques to force the melon plants to send their root systems downward to a high water table. This allows melon growers to avoid subsequent irrigations via furrows (USDA, 1999).

Area II, the southern San Joaquin Valley, produces about 66% of the cantaloupes grown in the state. Production of cantaloupes occurs in Fresno, Merced, Kern, and Kings Counties. Area II produces 24% of the honeydews with production centered in Fresno County. Area II also produces 53% of the mixed melons in Fresno, Merced, and Kern Counties. Melons are planted from mid-March to mid-July with a harvest period from late-June into mid-to-late October depending on weather. Fresno receives about 10 inches of rainfall per year while Kern County receives about three inches per year. Furrow irrigation is very common in Area II, though there are some growers using subsurface drip irrigation in all three melon types. The growing region in Area II is commonly referred to as the westside district for melons as production occurs along the western part of the valley (USDA, 1999).

Area III, the desert growing region, covers Coachella, Imperial, and Palo Verde Valleys. Area III has both a spring and a fall crop of cantaloupes and honeydews. Planted acreage of cantaloupes and honeydews in Area III is split with about 76% of the acreage in a spring planting and the balance of 24% in a fall crop. This region grows about 28% of the state's cantaloupes with production across Imperial and Riverside Counties. Area III also produces 20% of the honeydews in the same counties. Area III produces 26% of the mixed melons with most of the production in Riverside County and minor acreage in San Bernardino County. Spring planting starts in mid-December and goes through March with harvests from mid-May into mid-July. Fall melon planting occurs in July and August with a fall harvest period from October into late December. This area produces melons with less than four inches of rainfall per year. Furrow irrigation is commonly used though there may occasionally be drip (USDA, 1999).

CALIFORNIA POTATOES

Kern County is the major potato production area in the San Joaquin Valley (Figure 1), constituting nearly half the total acreage in California (VRIC, undated(a); Areas of Potato Production in California). Kern County potato acreage rose from only a few hundred acres before 1940 to approximately 65,000 acres in the early 1950's. In recent years, 35,000 to 40,000 acres have been planted to potatoes annually (VRIC, undated(a); Areas of Potato Production in California). In addition, based on 2005 California Pesticide Usage Data (CalPIP, 2006), approximately 64% of all pesticides applied to potatoes in California (based on total pounds chemical applied) was applied in Kern County. The majority of potatoes grown in the San Joaquin Valley are the White Rose variety (VRIC, undated(b); Potato Varieties Grown in California).

Typical cropping practices include the chopping and shredding of the previous crop, mulching, precision tillage, levelling, and sprinkler irrigation practices (VRIC, 1977; UC Cooperative Extension Farm Advisor). Sprinkler irrigation is used on 99% of crop and furrow or rill irrigation is used on 1%, this allows precise application of water, nutrients, and crop enhancement materials (USDA, 2000a). Potatoes have a shallow, sparse root system and prefer very well-drained soil (e.g., loamy sand, sandy loam, high organic) and need frequent light irrigation, 1 to 2 times a week. The crop is sprinkler irrigated throughout the season (VRIC, 2000a). Potatoes are grown as an alternating crop and the crops preceding potatoes are important for several reasons; it is best if the previous crop's roots (e.g., carrots) penetrate to a greater soil depth than that needed by the potato plant; and in the San Joaquin Valley, soybeans have been found to prevent potato scab buildup (UC Cooperative Extension Farm Advisor); VRIC, 1977).

Metfile W23155 is the meteorological data set representative of Bakersfield, CA. The station is situated in the center of Kern County, located in the extreme southern end of the great San Joaquin Valley and is partially surrounded by a horseshoe-shaped rim of mountains (NOAA, 2006). These zones of variation may be classified as valley, mountain, and desert areas, however, the overall climate can be classified as warm and semi-arid (NOAA, 2006). Its data were collected at the Meadows Field (WBAN 23155) in Bakersfield, CA, which receives an average annual rainfall of around 6.49 inches (NOAA, 2006). There is only one wet season during the year, as 90% of all precipitation falls from October through April (NOAA, 2006; TWCII, 2006). Snow in the valley is infrequent, with only a trace occurring in about one year out of seven (NOAA, 2006).

The Lewkalb series is the most common hydrologic group C soil found in Kern County where nearly half of all potatoes are grown (VRIC, undated(a); Table 5). It is a Coarse-loamy, mixed, superactive, calcareous, thermic Duric Torriorthents soil found on slopes of 0 to 2%. Potatoes in this area are generally grown on level ground (J. Nunez, personal communication). The soils are used mainly for range, as well as irrigated crops such as cotton, alfalfa, sugar beets, potatoes, and carrots are grown (USDA, 2001). The Lewkalb series was selected for this scenario because it supports potato production (USDA, 2001), is located in the highest potato production area in the state, is located in the highest potato pesticide usage area of the state, and because it is among the soils most vulnerable to runoff and erodibility in the area (Table 5).

The majority of potato bearing soils are in hydrologic group B (Table 5). The Lewkalb series however is a Hydrologic Group C soil and is listed as supporting potato production (Table 5; USDA, 2001). Lewkalb potato bearing soils have a USLE K factor of 0.32, which is common to 92% of potato bearing soils and includes the 90th percentile of these soils in erodibility (Table 5). Approximately 94% of potato bearing soils have a pH lower than Lewkalb soils. However, soil pH is not currently a PRZM input parameter and is not expected to often affect chemical fate in the acidic range. Based on the official soil series description (OSD) (USDA, 2001), Lewkalb soils have an A horizon from 0 to 23 inches (0-58 cm) deep and a C horizon from 23 to 65 inches (58-165 cm) deep. The soil parameters selected for this scenario were obtained from the USDA National Soils Characterization Database (NSCD) for Lekalb Sandy Loam. It is noted that horizon thicknesses generally agree between the OSD and NSCD, with slight variation.

CALIFORNIA ROW CROP

This scenario is intended to represent general row crop production in the Central California Coast/Coastal Valleys Range, primarily MLRAs 14 & 15, and parts of MLRA 20, hereafter referred to as area of interest (AOI). Row crops include crops such as artichokes, carrots, beans, asparagus, celery, peppers, and spinach. Based on 2002 USDA Census of Agriculture data, approximately 230,480 acres of these crops was grown in California (USDA, 2002). Within the AOI, approximately 46% of the row crop acreage occurs in the counties of Monterey, Kern, Ventura, Santa Barbara, and San Luis Obispo. Monterey and Kern are the top producing counties in the state representing 35% of the total acreage (USDA, 2002).

Carrots are the most common row crop in the AOI, representing roughly 30% of the total acreage. Carrots are always direct seeded in a narrow groove, and sown in 6 or 8 lines in beds 38 to 42 inches wide on residue conditions (USDA 1999); Monterey County cooperative extension agent). Carrots are irrigated by sprinklers during the entire season at a maximum application rate of 0.63 cm/hr. (USDA 200a). Carrot plants have a maximum root depth of 18 inches and prefer deep, well drained sandy loams soils with a pH range of 5.5 and 7.0 (USDA 200a; Monterey County cooperative extension agent). In the coastal regions, the carrots are planted from December to August for harvest in April to January (Monterey County Cooperative Extension Agent). Carrots are mechanically harvested with self-propelled, multi-row harvesters.

Metfile W23234 (Santa Maria) is the meteorological data set used to representative Central California Coast/Coastal Valleys Range Row crop production. The station is located along the coast in Santa Barbara County within MLRA 15. It is roughly 106 miles to the south of Monterey County which contains the field used to represent this scenario. The Fresno station is approximately 20 miles closer to the geographic center of Monterey County, however the Santa Maria station was deemed more representative for several reasons. First, this scenario is generally a coastal scenario. Fresno is an inland station whereas the coastal Santa Maria station is more representative of the Coastal Climate of this scenario. In addition, the Santa Maria station receives approximately three inches more annual rainfall than the Fresno station, increasing the conservative nature of the scenario (NOAA, 2006).

The Mocho series is the most common row crop soil found in Central California Coast/Coastal Valleys Range accounting for 13% of row crop acreage (USDA, 2002; Table 5). It is a fine-loamy, mixed, superactive, thermic Fluventic Haploxerolls soil found on slopes of 0 to 9% (USDA, 2001), which includes the maximum slope on which row crops are grown (R. Smith, Personal Communication). The soils are mostly irrigated and intensively used for forage, field and truck crops, some fruit and dry areas are used for grain and range (USDA, 2001). Location and metfile selections are often the most important developments affecting scenario vulnerability and protectiveness. Metfile selection has been discussed above. Soil selection is also an important protectiveness factor. Based on USDA data, the majority (54%) of row crop bearing soils in the region are hydrologic group B soils. Discussions with a local expert indicates that row crops in the region are limited to hydrological soil group A and B soils, with the Mocho series being representative of row crops in the region. The Mocho series was selected for this scenario because it is both highly representative of row crop bearing soils (R. Richards, personal communication) (Table 5), it represents the 90th percentile of vulnerability in erodibility, and it includes the maximum slope on which row crops are grown (R. Richards, personal communication) (Table 5). This scenario has been parameterized based on Mocho silt loams, 0-2 % slopes.

Mocho is a Hydrologic Group B soil, which does not include the 90th percentile of these soils in drainage based on soil survey data (USDA, 2006), however as noted above, local expert information indicated that row crops are limited to groups A and B. Because exposure scenarios are intended to represent the “high end” of what might occur in an actual agricultural setting, local expert knowledge and soil survey data led to the selection of Mocho soils. Mocho soils have a USLE K factor of 0.49, which is common to 10% of row crop bearing soils and includes the 90th percentile of these soils in erodibility. Approximately 77% of row crop bearing soils have a pH lower than Mocho soils (7.9-8.2). However, soil pH is not currently a PRZM input parameter and is not expected to often affect chemical fate in the acidic range. Based on the

CALIFORNIA TURF

This scenario is intended to represent turf areas (golf courses, parks, sod farms, and recreational fields) in central/northern California. Golf courses and turf farms generally both apply pesticides, however for this scenario parameters were selected to represent golf courses. Consultation with University of California Cooperative Extension (D. Haver, personal communication) indicated that parameterizing the scenario as golf course turf would generally be most conservative due to steeper slopes and proximity of golf courses to surface water resources (a majority of turf farms are located in the desert). Analyses were conducted within a refined area of interest (AOI) where there is a high density of golf courses, precipitation is expected to be high, and irrigation is common (Figure 1).

The most common turfgrass used for athletic fields, parks, and golf courses in California is common bermudagrass (*Cynodon dactylon*). Other major species used for turfgrass in California include Bentgrass (*Agrostis* spp.), Kentucky bluegrass (*Poa pratensis*), ryegrass (*Lolium* spp.), tall fescue (*Festuca arundinacea*), fine fescues (*Festuca* spp.), kikuygrass (*Pennisetum clandestinum*), St. Augustinegrass (*Stenotaphrum secundatum*), zoysiagrass (*Zoysia japonica*), and dichondra (*Dichondra micrantha*). Crop parameters for this scenario are based primarily on bermudagrass (*Cynodon* spp.) since it is a primary turf grass for golf courses and athletic fields. Common bermudagrass is drought tolerant and well adapted to sunny conditions. It is a medium, coarse-textured grass with a gray green color, but it becomes dormant and loses its color in cold weather. Common bermudagrass establishes a deep root system and produces long rhizomes and stolons. Common bermudagrass is planted in the spring or summer at a rate of 1 lb seed/1000 sq. ft. Common bermudagrass requires frequent mowing to maintain an attractive quality. It has good wear quality when it is growing, but produces heavy thatch and can produce thatch in light traffic areas (UCIPM, 2003). There are new seeded cultivars of common bermudagrass that have improved turfgrass quality characteristics. Within the vicinity of the AOI, bermudagrass is a common turf grass for golf courses, (Darren Haver, Watershed Management Advisor, UC Cooperative Extension). Bermudagrass grows on a wide variety of soils, from heavy clays to deep sands; tolerating acidic, alkaline and saline conditions. Bermudagrass does best on well-drained sites. Bermuda grass can survive low fertility conditions but requires high nitrogen concentrations for production of good quality turf (Duble 2004).

Metfile W23234 was selected for this scenario since it is the closest metfile to San Francisco. Its data were collected in San Francisco, CA. The station is located approximately 2 meters above mean seal level (AMSL). San Francisco receives approximately 20 inches of rainfall annually with nearly 60% of the annual precipitation occurring in January, February, and March (NOAA, 2006). This station is the closest available weather station that includes data required for PRZM.

Reliable and detailed spatial data regarding the locations and extent of golf courses in the Bay Area are unavailable. In the absence of detailed data, a coarse analysis of golf course locations with respect to STATSGO soils was performed using soils data from NRCS (USDA, 2006a) and the golf locales coverage obtained from Environmental Systems Research Institute, Inc. (ESRI, 2005). Soils were selected based on the overlap between golf courses in the AOI. Based on a geospatial analysis of soils (USDA 2006) and golf course locales (ESRI 2005), Capay soils were chosen to represent turf in the AOI (Table 5).

Based on the soils analysis, approximately 35% of the soils overlapping golf course locales are in hydrologic group D. The Capay series was chosen to represent turf areas in the AOI (Table 5) because it is one of the most common hydrologic group D soils co-located with golf courses, is among the most erodible, and includes the maximum slope on which golf courses are located (D. Haver, personal communication). Capay soils are in Hydrologic Group D soils and are located on the western edge of the Sacramento Valley and intermountain valleys of the Coast Range of northern California. The soil is extensive in MLRA-17 and has been mapped in MLRA 14 in some places (USDA, 2006b). Clear Lake soils (also widespread) were not used for scenario parameterization since the USLEK (0.174 – 0.24) is significantly lower than Capay. Capay soils co-located with golf course locales in the AOI have a USLE K factor of 0.17 to 0.37 which includes the 90th percentile of these soils in erodibility (Table 5). The Capay series is Fine, smectitic, thermic Typic Haploxererts. Capay soils are on alluvial fans, alluvial flats, interfan basins and basin rims with slopes ranging from 0 to 9 percent. (USDA 2006). Capay soils have an A horizon from 0 to 5 inches (0 to 13 cm) deep and a B horizon from 5 to 62 inches (13 to 157 cm) deep (USDA, 2006).

CALIFORNIA WINE GRAPES

The following parameters are valid for characterizing the Northern Coastal wine grape producing regions of California, USDA grape crush districts 1 through 4. While a greater majority of California wine grape production takes place within the San Joaquin valley, the demand for Sonoma, Napa, Lake, and Mendocino County grapes, shown by the weighted average per ton delivered, places the Northern Coastal area grape production five to fifteen times higher by price (USDA, 2006a). The Northern Coastal development regions are driven by this demand to utilize a wide variety of farming conditions to maximize production.

Grapes are a perennial crop with persistent vines growing on trellises constructed in rows. Surface soil around the vine row is usually sealed, but some plants can grow between vine rows. The soil between rows is usually disked. Foliage coverage at maturity is 100% under the trellis and approximately 30% per acre due to spacing between rows (R. Smith, personal communication). Grapes need at least 3 ft of well drained soil with a rooting depth of 2-4 ft and are typically grown on sandy or sandy loam soils. Vine rows are usually kept weed free, but there is some growth in the winter. Vineyards are typically irrigated using drip irrigation. Decisions to irrigate are site specific and are based on soil moisture and crop rooting depth (R. Smith, personal communication)

Metfile W23234 was selected for this scenario since it is the closest metfile to the wine grape producing counties of interest (Sonoma, Napa, Lake, and Mendocino). Its data were collected in San Francisco, CA. The station is located approximately 2 meters above mean seal level (AMSL). San Francisco receives approximately 20 inches (51 cm) of rainfall annually with nearly 60% of the annual precipitation occurring in January, February, and March (NOAA, 2006). This station is the closest available weather station that includes data required for PRZM. The Sacramento Met station W23232 located at 38° 31' N, 121° 30' W and 6 meters above sea level is also near this area, but receives approximately 2 inches less rainfall per year (approximately 18 inches) (NOAA, 2006).

There are approximately thirty different wine grape bearing soils in Napa, Sonoma, and Mendocino Counties (USDA, 2006b). Approximately 65% of wine grape bearing soils are in drainage groups C and D. Representative wine grape bearing soils include Diablo, Goldridge, Haire, and Yolo series (R. Smtih, personal communication). Of these, the Haire series is the most common wine grape producing soil of Napa, Sonoma, and Mondocino Counties, and the seventh most common wine grape bearing soil overall in these counties (Table 5). The Haire series accounts for approximately 5% of wine grape bearing soil acreage (USDA, 2006b). Haire soils are fine, mixed, superactive, thermic Typic Haploxerults located on nearly level to moderately steep hills at elevations of 20 to 2,400 feet (USDA, 2003). They are among the top soils for expected irrigated yields (Table 5). Location and metfile selections are often the most important developments affecting scenario vulnerability and protectiveness. Because this scenario is intended to represent wine grape production along the northern coastal area of California, the metfile closest to the center of the major wine producing counties in the region was chosen. The Haire soil series was selected for this scenario because it is both representative of wine grape bearing soils, is predominant in the main production areas of both Napa and Sonoma Counties, represents the majority (45%) of soils in drainage, 90% for erodibility, and is among the steeper sloped wine grape bearing soils (Table 5).

Haire is a Hydrologic Group C soil, which represents the majority (45%) these soils in drainage. Haire soils have a USLE K factor of ranging from 0.32-0.43; approximately 87% of wine grape bearing soils have a USLE K factor between 0.32 and 0.43 (Table 5). Less than 1% of wine grape bearing soils have a pH lower than Haire soils (5.6 - 6.7), although soil pH is not currently a PRZM input parameter and is not expected to often affect chemical fate in the acidic range. Haire soils have an A horizon from 0 to 24 inches (0-61 cm) deep, a B horizon from 24 to 36 inches (61-91 cm) deep, and a C horizon from 36 to 60 inches (91-152 cm) deep. Only two benchmark soils were identified as bearing wine grapes in drainage groups C or D (Clear Lake and Dibble), however Clear Lake was not suggested as a representative soil by local experts and Dibble is of only minor extent with respect to wine grape bearing soils (Table 5). Therefore, a benchmark soil of California was not selected for this scenario. Haire clay loam 15-30 percent

Selection of Crops and Application Rates

The selections of the crops grown in California that are subject to chlorothalonil application were based on information provided by a combination of sources. The first source of information was a combination of current product labels and the response to a June 4, 2007 EFED memo sent to Jill Bloom, Chemical Review Manager, Special Review Branch, Special Review and Reregistration Division (SRRD) requesting a list of the maximum allowable single and seasonal application rates and shortest application interval for chlorothalonil based upon the most current product labels.

The second source of information was a February 28, 2007 memo from Aret Jones, Chief of the Biological Analysis Branch, Biological and Economic Analysis Division (BEAD) outlining the maximum number of crop cycles per year in California written in response to a request for information on methomyl use sites.

The third source of information was taken directly from the Pesticide Use Report Data, California Department of Pesticide Regulation,¹ and from a report prepared from 2002 to 2005 data, provided by BEAD for this assessment.

Chlorothalonil maximum, allowable application rates and intervals between applications have been tabulated below (**Table D-1**). Registered use on strawberries only covers a post-harvest dip product, which is not expected to contribute to environmental surface or ground water concentrations. Approved labels also allow chlorothalonil to be used on both parsnips and soy beans. However, only limited acreage are planted in these crops within California, and available CAL PUR data does not report chlorothalonil use on either parsnips or soy beans from 2000 through 2005. With labeled application rates not exceeding rates for assessed crops, any limited acreage will be encompassed by modeling carrots and snap beans. California climate allows both an early and a late cropping period for some vegetables. In order to minimize pest pressures, both an early and late crop are often not grown in a single year at the same location. Where two cropping periods were modeled in a single year, the scenarios used were modified by advancing the crop emergence, maturation and harvest dates by six months, while allowing all other scenario parameters to remain the same. This insures that chlorothalonil would not be modeled using a scenario that would allow application to bare ground.

¹ 2005 California Pesticide Use Report - County-Level Usage for chlorothalonil in California in Support of a Red Legged Frog Endangered Species Assessment - <http://calpip.cdpr.ca.gov/cfdocs/calpip/prod/main.cfm>

Table D-1 Chlorothalonil Labeled Application Information			
Crop	Application Rate (lb. ai/acre)	Number of Applications	Application Interval (days)
Asparagus ²	3.0	3	14
Snap Beans ¹ (early)	2.25	4	7
Snap Beans ¹ (late)	2.25	4	7
Dry Beans ¹ (early)	1.5	4	7
Dry Beans ¹ (late)	1.5	4	7
Blueberry ¹	3.0	3	10
Carrot ¹ (early)	1.5	10	7
Carrot ¹ (late)	1.5	10	7
Celery ¹ (early)	2.25	7	7
Celery ¹ (late)	2.25	7	7
Cole Crops ¹ (early)	1.5	8	7
Cole Crops ¹ (late)	1.5	8	7
Conifers ¹	4.1	4	7
Corn ¹ (sweet and seed)	1.5	6	7
Cucurbit Foliage ¹	6.25 and 2.25	1 and 12	7
Filbert, Almond, Pistachio ¹	3.0	6	14
Golf Course Greens ²	11.3 or 7.3	6 or 10	14 or 7
Golf Course Tees ²	11.3 or 7.3	4 or 7	14 or 7
Golf Course Fairways ²	11.3 and 7.3	1 and 2	7
Golf Course Roughs ²	11.3 and 7.3	1 and 2	7
Grass Grown for Seed ²	1.5	3	14
Ornamentals	1.55	23	7
Roses	1.1	33	7
Pachysandra (low boxwood)	3.1	11	7
Onion (bulb)	2.25	6	7
Garlic	2.25	7	7
Green Onion, Shallot, Onion Grown for Seed	2.25	3	7
Passion Fruit and Mango	1.5	5	14
Peanut	1.1	8	14
Potato	1.1	10	5
Sod Farm	11.3 and 7.3	1 and 2	7
Stone Fruit, Including Cherries	3.1	5	10
Tomato	2.15	7	7
Turf (general)	11.3	2	7

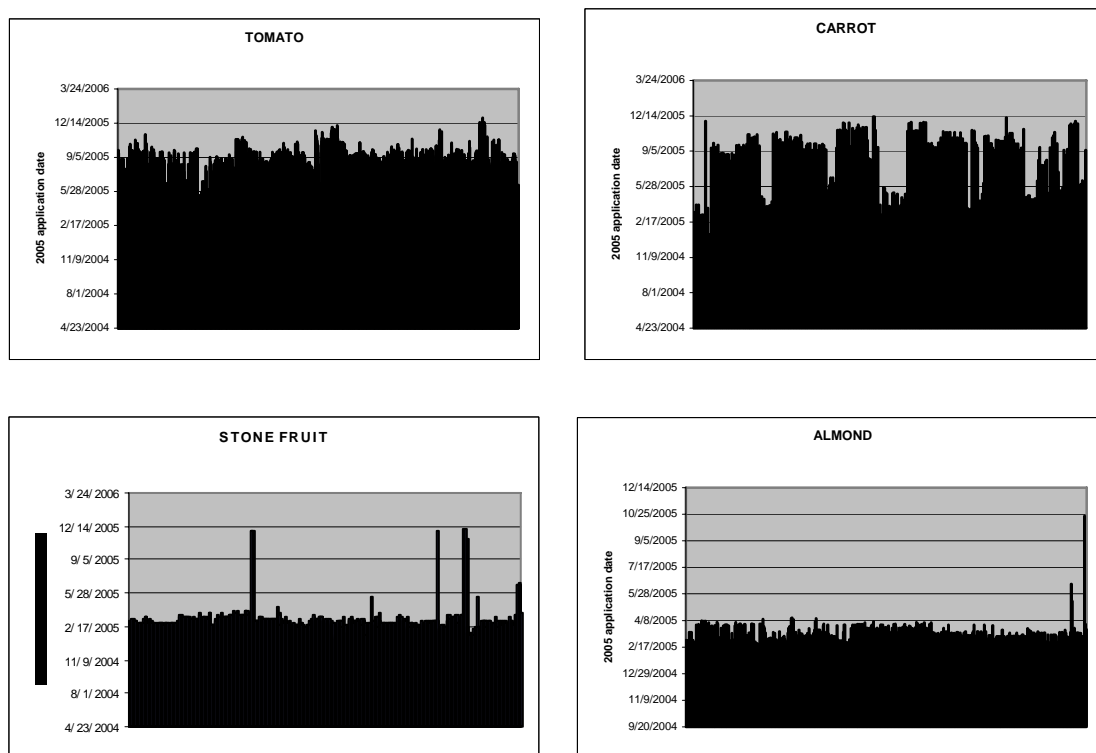
¹ aerial application

² ground spray application

Except for crops grown in desert areas of California where irrigation is essential, agricultural crops that have more than one cropping season per year in California were modeled with both early and late cropping dates. Crops grown in California deserts are not expected to produce surface water contamination due to pesticide transport through storm water run off, and have not been considered here. Modeled early and late season crops considered in this assessment were: beans, carrots, celery, green and bulb onions, and cole crops. As stated earlier, the February 28, 2007 BEAD memo outlining the maximum number of crop cycles per year in California for methamyl use sites was consulted to determine which crops would have more than one cropping period per year.

Application dates for aquatic modeling (Table D-2) were chosen using the California meteorological data associated with the chosen scenarios, and upon 2005 California Department of Pesticide Registration, Pesticide Use Reporting Usage Data² (CDPR PUR) for chlorothalonil applications (Figure D-1.). The data was downloaded from the web site, and sorted by crops modeled for this assessment. The sorted data was then plotted with Excel as a bar graph, with the x-axis of the plot representing the individual applications, and the y-axis representing the reported application date. Mathematical calculations were not used to choose the model input parameters for chlorothalonil application dates. A visual examination of the resulting plots was conducted to assist in choosing an application date for the tier 2, aquatic modeling. Additionally, the plotted 2005 CDPR PUR³, used to choose an application date was also employed to further validate information in the BEAD memo.

Figure D-1. Plotted 2005 California Use Dates



² The California Department of Pesticide Regulation’s Pesticide Use Reporting database provides a census of pesticide applications in the state. See <http://www.cdpr.ca.gov/docs/pur/purmain.htm>.

³ <http://calpip.cdpr.ca.gov/cfdocs/calpip/prod/main.cfm>

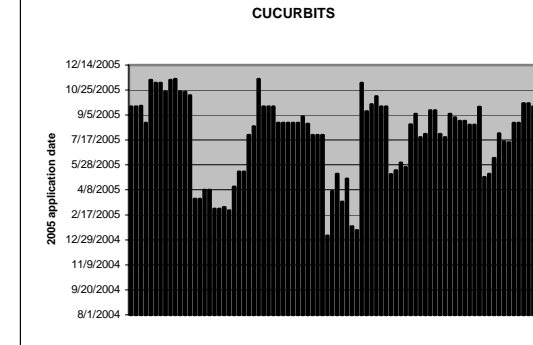
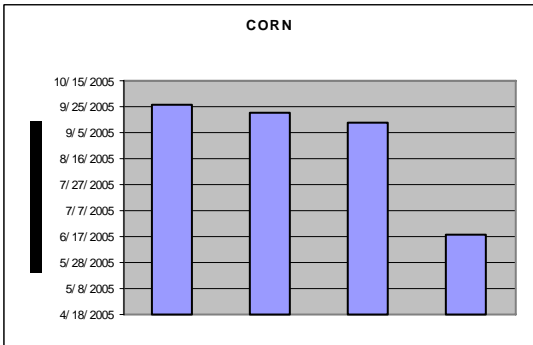
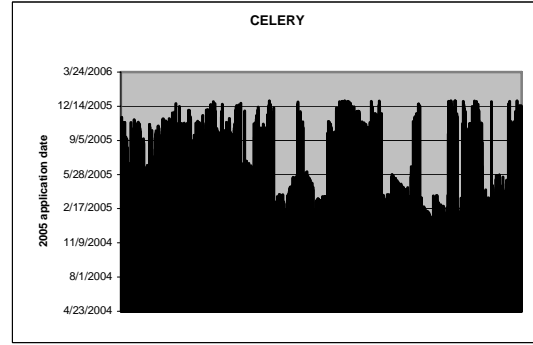
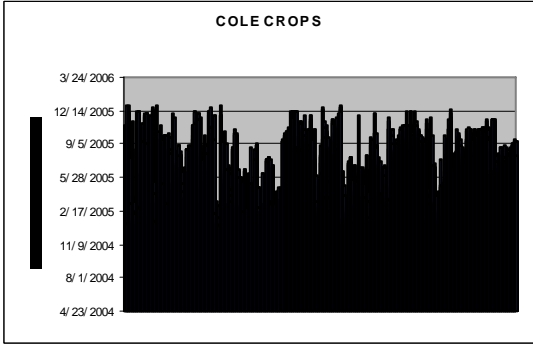
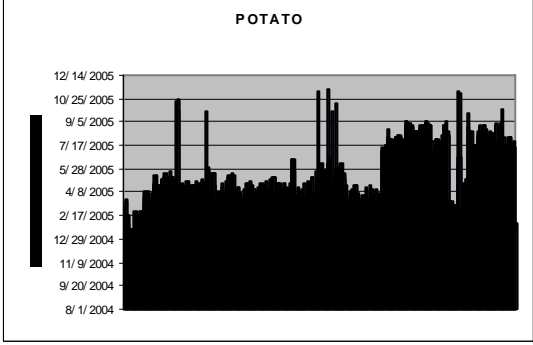
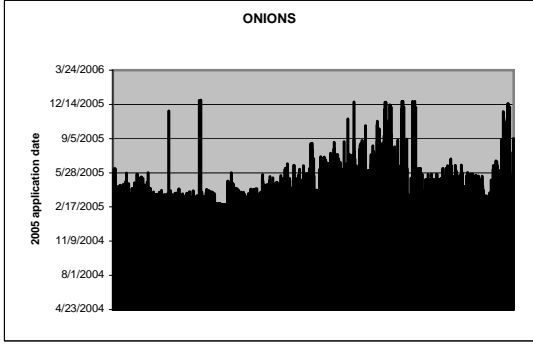
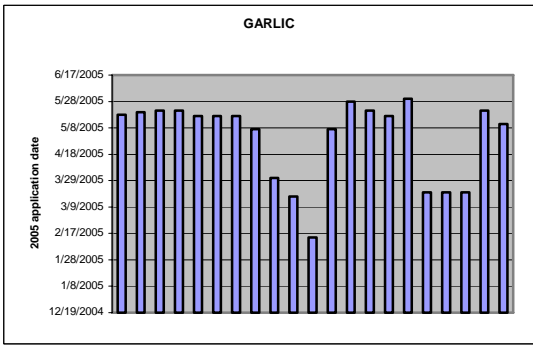
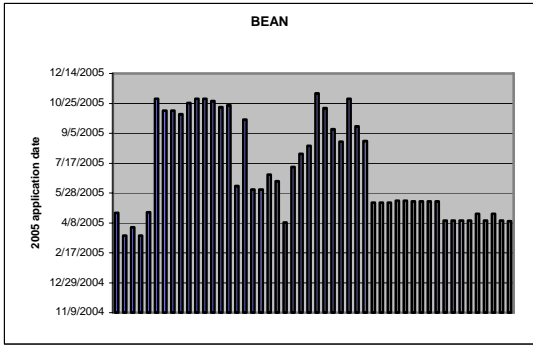


Table D-2 Chlorothalonil Tier 2 Aquatic Modeling Scenarios and Application Dates

Crop	PRZM/EXAMS Scenario	First Application Date
Asparagus ²	CARowCrop no_irrig	March 1
Snap Beans ¹ (early)	CARowCrop no_irrig	March 7
Snap Beans ¹ (late)	CARowCropLate no_irrig	October 1
Dry Beans ¹ (early)	CARowCrop no_irrig	March 7
Dry Beans ¹ (late)	CARowCropLate no_irrig	October 1
Blueberry ¹	CAWineGrapes no_irrig	April 1
Carrot (early) ¹	CARowCrop no_irrig	March 1
Carrot (late) ¹	CARowCropLate no_irrig	September 15
Celery (early) ¹	CARowCrop no_irrig	January 15
Celery (late) ¹	CARowCropLate no_irrig	September 15
Cole Crops (early) ¹	CAColeCrop_noirrig	February 1
Cole Crops (late) ¹	CAColeCrop_noirrig	July 2
Conifers ¹	ORXmasTreeC	October 1
Corn ¹ (sweet and seed)	CAcornOP	May 1
Cucurbit ¹	CAMellons no_irrig	May 15
Filbert, Almond, Pistachio ¹	CAalmond_Nirrig	March 1
Golf Course Turf ²	CAturf_noirrig	January 3
Grass Grown for Seed ²	CAturf_noirrig	January 3
Ornamentals ²	CANursery no_irrig	March 15
Roses ²	CANursery no_irrig	March 15
Pachysandra ² (low boxwood)	CANursery no_irrig	March 15
Onion ¹ (bulb)	CAonion no_irrig	February 1
Garlic ¹	CAGarlic no_irrig	March 20
Green Onion, Shallot,	CAonion no_irrig	February 1
Onion Grown for Seed ¹	CAonionLate no_irrig	September 9
Passion Fruit and Mango ¹	CACitrus_Nirrig	February 15
Peanut ¹	CAPotato_noirrig	May 15
Potato ¹	CAPotato_noirrig	February 17
Sod Farm ²	CAturf_noirrig	January 3
Stone Fruit, Including Cherries ¹	CAfruit_Nirrig	March 1
Tomato ¹	CAtomato_Nirrig	July 24
Turf ¹ (general)	CAturf_Noirrig	November 1

¹ aerial application² ground spray application

Chlorothalonil Input Parameters

The appropriate PRZM and EXAMS input parameters for chlorothalonil were selected from the environmental fate data submitted by the registrant and in accordance with US EPA-OPP EFED water model parameter selection guidelines, Guidance for Selecting Input Parameters in Modeling the Environmental Fate and Transport of Pesticides, Version II, February 28, 2002. The environmental fate data used to estimate the modeling input values appear in **Table D-3**.

Table D-3. Summary of PRZM/EZAMS Environmental Fate Data Used for Aquatic Exposure Inputs⁴ for the Endangered Red Legged Frog Assessment

Fate Property	Value	MRID (or source)
Molecular Weight	265.91 amu	Chlorothalonil RED, EPA 738-R-99004, April, 1999
Henry's constant at 20 °C	2.6 x 10⁻⁷ atm - m³/mole	Chlorothalonil RED, EPA 738-R-99004, April, 1999
Vapor Pressure at 26 °C	5.7 x 10⁻⁷ torr	MRID 00153732
Solubility in Water at 25 °C	0.8 mg/L	Chlorothalonil RED, EPA 738-R-99004, April, 1999
Photolysis in Water	10 hours (0.4 days)	MRIDs 45710223, (40183418)
Aerobic Soil Metabolism	71 days (90% upper bound on mean of 68, 24, 22 and 24 days; 35.4 + ((3.2 x 22.4)/sqrt 4)	MRID 00087351
Hydrolysis	stable @ pH =5 and 7	MRID 0040539
Aerobic Aquatic Metabolism (water column)	35.2 days (90% upper bound on mean of 13, 21 and 2.5 days; 12.2 + ((4.3 x 9.36)/sqrt 3)	MRID 45908001, (42226101)
Anaerobic Aquatic Metabolism (benthic)	15 days (range 5 to 15 days reported)	MRID 00147975
K _d	19.5	MRID 00115105
Application Efficiency	0.95 percent (0.99 percent)	EFED Guidance for aerial (ground) application
Spray Drift Fraction	0.05 percent (0.01 percent)	EFED Guidance for aerial (ground) application

Tier 2 modeling results for labeled chlorothalonil use within the state of California appear in **Table D-4**, below. For uses with differing application rates, golf course turf and cucurbits, the input file generated by using the pe4 shell for a single application rate was modified to include the dual application rates, modeling the larger rate fir the first applications, followed by the lesser application rate. The linked models were than run manually. All model output files, and the input files for the manual runs, have been added to this appendix.

Turf uses, golf course, sod farms and general turf uses, along with chlorothalonil uses on ornamental crops produced the highest estimated environmental concentrations (EECs). When there is more than one the cropping period a year, late season crops generally produced EECs higher about 20% than the early season crops. Cole crops were the exception, with earlier crops producing EECs that were about 20% higher than EECs for the late cropping period.

⁴ Inputs determined in accordance with EFED "Guidance for Chemistry and Management Practice Input Parameters for Use in Modeling the Environmental Fate and Transport of Pesticides" dated February 28, 2002

Table D-4 Tier II Estimated Aquatic Estimated Environmental Concentration (EECs) of Chlorothalonil					
Crop	App Rate (lb. ai/acre)	No of App/ App Interval (days)	1-in-10-Year Annual Exceedance Probability		
			Peak EEC (ppb)	21-day EEC (ppb)	60-day EEC (ppb)
Asparagus	3.0	3 / 14	28.8	23.8	18.0
Early Snap Beans	2.25	4 / 7	31.7	26.2	19.5
Late Snap Beans	2.25	4 / 7	38.5	30.0	23.3
Early Dry Beans	1.5	4 / 7	21.1	17.5	13.0
Late Dry Beans	1.5	4 / 7	25.6	20.0	13.1
Blueberry	3.0	3 / 10	23.9	19.4	14.4
Early Carrots	1.5	10 / 7	31.0	26.2	23.4
Late Carrots	1.5	10 / 7	65.1	53.0	43.0
Early Celery	2.25	7 / 7	63.3	51.6	42.0
Late Celery	2.25	7 / 7	68.7	54.5	41.4
Early Cole Crops	1.5	8 / 7	63.6	53.1	41.7
Late Cole Crops	1.5	8 / 7	52.8	41.7	30.2
Conifers	4.1	4 / 7	18.8	16.0	12.0
Corn	1.5	6 / 7	21.5	17.9	12.6
Cucurbit	6.25 plus 2.25	1 plus 4 / 7	27.8	23.2	17.9
Filberts, Almonds, Pistachios	3.0	6 / 12	29.0	23.6	17.5
Total Golf Course Turf (adjusted) ⁵	11.3 plus 0.7 ³ ¹²	1 or 2 plus 2, 4 or 7 / 7 ⁶	279	262	148
Grass Grown for Seed or Hay	1.5	3 / 14	29.5	21.5	12.4
Sod Farms	11.3 plus 0.7 ³	1 plus 2 / 7	274	260	146
General Turf	11.3	2 / 7	115	90.2	61.6
Ornamentals	1.55	23 / 7	139	114	72.7
Roses	1.1	33 / 7	108	83.3	53.3
Pachysandra	3.1	11 / 7	121	96.7	66.6
Bulb Onions	2.25	6 / 7	32.5	25.2	19.4
Garlic	2.25	7 / 7	35.4	31.7	25.8
Early Green, Shallot, Seed Onions	2.25	3 / 7	19.6	15.2	10.9
Late Green, Shallot, Seed Onions	2.25	3 / 7	15.0	11.7	8.1
Passion Fruit	1.5	5 / 14	2.6	2.2	2.1
Peanut	1.1	8 / 14	7.0	5.5	5.2
Potatoes	1.1	10 / 5	19.5	16.8	13.8
Stone Fruit and Cherries	3.1	5 / 10	31.0	25.5	20.4
Tomatoes	2.15	7 / 7	46.7	33.9	27.9

For golf course turf, EECs for individual turf types were modeled separately adjusted by the appropriate EFED golf course adjustment factors⁷. Green, tees, fairways and roughs were adjusted by factors of 0.026, 0.024, 0.29 and 0.66, respectively, and summed to produce the

⁵ Golf Course Adjustment Factors (GCAF) for Modifying Estimated Drinking Water Concentrations and Estimated Environmental Concentrations Generated by Tier I (FIRST) and Tier II (PRZM/EXAMS) Models

http://www.epa.gov/oppfed1/models/water/golf_course_adjustment_factors.htm

⁶ See Table 3.2.3.b for specific values of individual types of for golf courses

⁷ Golf Course Adjustment Factors (GCAF) for Modifying Estimated Drinking Water Concentrations and Estimated Environmental Concentrations Generated by Tier I (FIRST) and Tier II (PRZM/EXAMS) Models

http://www.epa.gov/oppfed1/models/water/golf_course_adjustment_factors.htm

EECs resulting from labeled uses of chlorothalonil on golf courses. While annual application rates for greens and tees are much higher than labeled rates for fairways and roughs, greens and tees comprise a much smaller percentage of the total golf courses, and result in a much smaller contribution to the estimated environmental concentrations. EECs resulting from treatment of only greens and tees would be much lower (less than 8 %) than when chlorothalonil is applied to the entire golf course. A more complete assessment of individual and total allowable golf course values appears in **Table D-5**, below.

Table D-5 Tier II Refined Estimated Aquatic Estimated Environmental Concentration (EECs) of Use of Chlorothalonil (ground spray application) on Golf Course Turf (adjusted by GCAF)										
Golf Course Turf Type	Application Specification			Unadjusted 1-in-10-Year Annual Exceedance Probability			Golf Course Adjust. Factor	Adjusted 1-in-10-Year Annual Exceedance Probability		
	App Rate lbs/acre	No Apps	App Interval days	Peak EEC ppb	21-day EEC ppb	60-day EEC ppb		Peak EEC ppb	21-day EEC ppb	60-day EEC ppb
Greens	11.3 plus 7.23	2 plus 7	7	382	303	258	2.6%	9.9	7.9	6.7
Tees	11.3 plus 7.23	2 plus 4	7	369	293	144	2.4%	8.9	7.0	3.5
Fairways	11.3 plus 7.23	1 plus 2	7	274	260	146	29%	79	75	42
Roughs	11.3 plus 7.23	1 plus 2	7	274	260	146	66%	181	172	96
Total Golf Course Turf ⁸	11.3 plus 7.23	1 plus 2 to 8	7	--	--	--	100%	279	262	148

⁸ Sum of adjusted values for greens, tees, fairways and roughs,

Environmental Monitoring Data

Water Monitoring

Available NAWQA⁹ (USGS National Water Quality Assessment Data Warehouse) aquatic monitoring data indicate that chlorothalonil was not detected in either surface water or ground water at any of the site types monitored throughout the United States. Available SWAMP¹⁰ (California State Water Resources Control Board, Surface Water Ambient Monitoring Program) aquatic monitoring data indicate that chlorothalonil was not detected in surface water at any of the site types monitored throughout California. Additionally, local monitoring data from southern Florida also indicate that chlorothalonil was not present in any samples tested. However, data for specific use patterns (application rate, spatial and temporal distributions) that are necessary to evaluate the monitoring data are not currently available. Further, groundwater monitoring data from Suffolk County, New York¹¹ confirmed that chlorothalonil metabolites were present in ground water, but the identified metabolite(s) were not identified to be of concern for the aquatic portion of this assessment.

Surface Water Monitoring in California

Surface water samples (324) were collected from 32 USGS water monitoring stations in 10 CA counties from March 18, 1993 to Nov. 2, 2002. The counties (# of samples) include Alpine (4), El-Dorado (4), Merced (87), Nevada (4), Orange (10), Sacramento (57), San Bernardino (8), San Joaquin (50), Stanislaus (74), Sutter (2), and Yolo (24). Minimum reporting limit ranged from 0.0350 to 0.5780 µg/L. There was one detection of chlorthalonil (0.290 µg/L) in a surface water sample from Merced County (USGS Station # 1123500) on Feb 08, 1994.

Ground Water Monitoring in California

Ground water samples (381) were collected from 297 USGS water monitoring wells in 19 CA counties from August 11, 1993 to Sept 21, 2004. The counties (# of samples) include Butte (9), Colusa (4), Fresno (82), Glenn (12), Kern (4), Kings (8), Los Angeles (2), Madera (14), Merced (31), Orange (26), Placer (3), Riverside (16), Sacramento (30), San Bernardino (10), San Joaquin (30), Stanislaus (56), Sutter (17), Tulare (23), Yolo (1), and Yuba (3). Minimum reporting limit ranged from 0.0350 to 0.480 µg/L. There were no chlorthalonil detections in the ground water samples.

Atmospheric Monitoring in California

While evolution of volatile compounds was not significant in laboratory testing, ambient air monitoring from 7/5/89 to 8/3/89 for four sites in Fresno County,¹² California was targeted for chlorothalonil applications to tomatoes for control of black mold. All samples (n=92) were less than the minimum detection limit of 7.0 ng/m³.

⁹ USGS National Water Quality Assessment Data Warehouse <http://web1.er.usgs.gov/NAWQAMapTheme/index.jsp>

¹⁰ California Environmental Protection Agency, State Water Resources Control Board, Surface Water Ambient Monitoring Program (SWAMP) <http://www.swrcb.ca.gov/swamp/>

¹¹ MRID 44006001

¹² Kollman, W. S.. 2002. Summary of Assembly Bill 1807/3219: Pesticide Air Monitoring Results: Conducted by California Air Resources Board 1986-2000. California Department of Pesticide Regulation

Ambient air monitoring was conducted from 1/8/90 to 2/2/90 at three sites in Ventura County,¹³ California was targeted to coincide with applications to celery. The maximum air concentration was 0.005 $\mu\text{g}/\text{m}^3$ at air sampling site near the Animal Control Shelter in Camarillo, California. Five air samples were above the minimum detection limit of 4.0 ng/m^3 , while 96% of the samples were below the minimum detection limit.

Ambient air monitoring was conducted during 2/92 for 72 hours immediately after chlorothalonil applications to celery in Ventura County,¹⁴ California was aerially applied at a rate of 1 lb/acre. The maximum air concentration was 158 ng/m^3 . Only 25% of the samples had no detection of chlorothalonil ($< 4 \text{ ng}/\text{m}^3$).

Ambient air samples were taken between 5/31/00 and 8/3/00. Sampling was 24 hour samples for 4 days a week during a 10 week period. Lompac,¹⁵ California was selected as a monitoring site because it is downwind from agricultural areas. Chlorothalonil was detected in trace quantities (at or below the detection limit). The percent of air samples with detectable level of chlorothalonil were 17%. The estimated concentrations are 4.3 ng/m^3 for the highest 1 day concentration, 3.27 ng/m^3 for the highest 14 day air concentration, and 1.61 ng/m^3 for the highest 10 week air concentration.

Terrestrial field dissipation studies¹⁶ indicate that chlorothalonil dissipates from a terrestrial test plot with a total system half-life of four to eleven weeks.

¹³ Kollman, W. S.. 2002. Summary of Assembly Bill 1807/3219: Pesticide Air Monitoring Results: Conducted by California Air Resources Board 1986-2000. California Department of Pesticide Regulation

¹⁴ Kollman, W. S.. 2002. Summary of Assembly Bill 1807/3219: Pesticide Air Monitoring Results: Conducted by California Air Resources Board 1986-2000. California Department of Pesticide Regulation

¹⁵ Source: Wollford, Pamela, R. Segawa, M. Brattesani, J. Schreider, and S. Powell. 2003. Ambient Air Monitoring for Pesticides in Lompoc, California; Volume 3: Multiple Pesticides. California Department of Pesticide Regulation

¹⁶ MRIDs 00071625, 87369, 87301, 87332, 71627

PRZM/EXAMS INPUT FILES FOR MANUAL RUNS

Golf Course Tees

"CA turf.txt, 1/8/2007"

"San Francisco Bay Area, CA; MLRA 14,15; Metfile: W23234.dvf"

*** Record 3:

0.77 0 0 17.5 1 2

*** Record 6 -- ERFLAG

4

*** Record 7:

0.37 1.8 0.5 10 1 7.5 354

*** Record 8

1

*** Record 9

1 0.1 15 100 2 80 80 80 0

1.3

*** Record 9a-d

1 24

0101 1601 0102 1602 0103 1603 0104 1604 0105 1605 0106 1606 0107
1607 0108 1608

.001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001
.001 .001 .001

.110 .110 .110 .110 .110 .110 .110 .110 .110 .110 .110 .110 .110
.110 .110 .110

0109 1609 0110 1610 0111 1611 0112 1612

.001 .001 .001 .001 .001 .001 .001 .001

.110 .110 .110 .110 .110 .110 .110 .110

*** Record 10 -- NCPDS, the number of cropping periods

30

*** Record 11

010161	020161	311261	1
010162	020162	311262	1
010163	020163	311263	1
010164	020164	311264	1
010165	020165	311265	1
010166	020166	311266	1
010167	020167	311267	1
010168	020168	311268	1
010169	020169	311269	1
010170	020170	311270	1
010171	020171	311271	1
010172	020172	311272	1
010173	020173	311273	1
010174	020174	311274	1
010175	020175	311275	1
010176	020176	311276	1
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010178	020178	311278	1
010179	020179	311279	1
010180	020180	311280	1
010181	020181	311281	1
010182	020182	311282	1
010183	020183	311283	1
010184	020184	311284	1
010185	020185	311285	1
010186	020186	311286	1

010187	020187	311287	1
010188	020188	311288	1
010189	020189	311289	1
010190	020190	311290	1

*** Record 12 -- PTITLE
chlorothalonil - 1 applications @ 12.7 kg/ha

*** Record 13
270 1 0 0

*** Record 15 -- PSTNAM
chlorothalonil

*** Record 16

030161	0 2	0.0	12.7	0.99	0.01
100161	0 2	0.0	12.7	0.99	0.01
170161	0 2	0.0	8.1	0.99	0.01
240161	0 2	0.0	8.1	0.99	0.01
310161	0 2	0.0	8.1	0.99	0.01
070261	0 2	0.0	8.1	0.99	0.01
140261	0 2	0.0	8.1	0.99	0.01
210261	0 2	0.0	8.1	0.99	0.01
280261	0 2	0.0	8.1	0.99	0.01
030162	0 2	0.0	12.7	0.99	0.01
100162	0 2	0.0	12.7	0.99	0.01
170162	0 2	0.0	8.1	0.99	0.01
240162	0 2	0.0	8.1	0.99	0.01
310162	0 2	0.0	8.1	0.99	0.01
070262	0 2	0.0	8.1	0.99	0.01
140262	0 2	0.0	8.1	0.99	0.01
210262	0 2	0.0	8.1	0.99	0.01
280262	0 2	0.0	8.1	0.99	0.01
030163	0 2	0.0	12.7	0.99	0.01
100163	0 2	0.0	12.7	0.99	0.01
170163	0 2	0.0	8.1	0.99	0.01
240163	0 2	0.0	8.1	0.99	0.01
310163	0 2	0.0	8.1	0.99	0.01
070263	0 2	0.0	8.1	0.99	0.01
140263	0 2	0.0	8.1	0.99	0.01
210263	0 2	0.0	8.1	0.99	0.01
280263	0 2	0.0	8.1	0.99	0.01
030164	0 2	0.0	12.7	0.99	0.01
100164	0 2	0.0	12.7	0.99	0.01
170164	0 2	0.0	8.1	0.99	0.01
240164	0 2	0.0	8.1	0.99	0.01
310164	0 2	0.0	8.1	0.99	0.01
070264	0 2	0.0	8.1	0.99	0.01
140264	0 2	0.0	8.1	0.99	0.01
210264	0 2	0.0	8.1	0.99	0.01
280264	0 2	0.0	8.1	0.99	0.01
030165	0 2	0.0	12.7	0.99	0.01
100165	0 2	0.0	12.7	0.99	0.01
170165	0 2	0.0	8.1	0.99	0.01
240165	0 2	0.0	8.1	0.99	0.01
310165	0 2	0.0	8.1	0.99	0.01
070265	0 2	0.0	8.1	0.99	0.01
140265	0 2	0.0	8.1	0.99	0.01
210265	0 2	0.0	8.1	0.99	0.01
280265	0 2	0.0	8.1	0.99	0.01
030166	0 2	0.0	12.7	0.99	0.01
100166	0 2	0.0	12.7	0.99	0.01

170166	0	2	0.0	8.1	0.99	0.01
240166	0	2	0.0	8.1	0.99	0.01
310166	0	2	0.0	8.1	0.99	0.01
070266	0	2	0.0	8.1	0.99	0.01
140266	0	2	0.0	8.1	0.99	0.01
210266	0	2	0.0	8.1	0.99	0.01
280266	0	2	0.0	8.1	0.99	0.01
030167	0	2	0.0	12.7	0.99	0.01
100167	0	2	0.0	12.7	0.99	0.01
170167	0	2	0.0	8.1	0.99	0.01
240167	0	2	0.0	8.1	0.99	0.01
310167	0	2	0.0	8.1	0.99	0.01
070267	0	2	0.0	8.1	0.99	0.01
140267	0	2	0.0	8.1	0.99	0.01
210267	0	2	0.0	8.1	0.99	0.01
280267	0	2	0.0	8.1	0.99	0.01
030168	0	2	0.0	12.7	0.99	0.01
100168	0	2	0.0	12.7	0.99	0.01
170168	0	2	0.0	8.1	0.99	0.01
240168	0	2	0.0	8.1	0.99	0.01
310168	0	2	0.0	8.1	0.99	0.01
070268	0	2	0.0	8.1	0.99	0.01
140268	0	2	0.0	8.1	0.99	0.01
210268	0	2	0.0	8.1	0.99	0.01
280268	0	2	0.0	8.1	0.99	0.01
030169	0	2	0.0	12.7	0.99	0.01
100169	0	2	0.0	12.7	0.99	0.01
170169	0	2	0.0	8.1	0.99	0.01
240169	0	2	0.0	8.1	0.99	0.01
310169	0	2	0.0	8.1	0.99	0.01
070269	0	2	0.0	8.1	0.99	0.01
140269	0	2	0.0	8.1	0.99	0.01
210269	0	2	0.0	8.1	0.99	0.01
280269	0	2	0.0	8.1	0.99	0.01
030170	0	2	0.0	12.7	0.99	0.01
100170	0	2	0.0	12.7	0.99	0.01
170170	0	2	0.0	8.1	0.99	0.01
240170	0	2	0.0	8.1	0.99	0.01
310170	0	2	0.0	8.1	0.99	0.01
070270	0	2	0.0	8.1	0.99	0.01
140270	0	2	0.0	8.1	0.99	0.01
210270	0	2	0.0	8.1	0.99	0.01
280270	0	2	0.0	8.1	0.99	0.01
030171	0	2	0.0	12.7	0.99	0.01
100171	0	2	0.0	12.7	0.99	0.01
170171	0	2	0.0	8.1	0.99	0.01
240171	0	2	0.0	8.1	0.99	0.01
310171	0	2	0.0	8.1	0.99	0.01
070271	0	2	0.0	8.1	0.99	0.01
140271	0	2	0.0	8.1	0.99	0.01
210271	0	2	0.0	8.1	0.99	0.01
280271	0	2	0.0	8.1	0.99	0.01
030172	0	2	0.0	12.7	0.99	0.01
100172	0	2	0.0	12.7	0.99	0.01
170172	0	2	0.0	8.1	0.99	0.01
240172	0	2	0.0	8.1	0.99	0.01
310172	0	2	0.0	8.1	0.99	0.01
070272	0	2	0.0	8.1	0.99	0.01

140272	0	2	0.0	8.1	0.99	0.01
210272	0	2	0.0	8.1	0.99	0.01
280272	0	2	0.0	8.1	0.99	0.01
030173	0	2	0.0	12.7	0.99	0.01
100173	0	2	0.0	12.7	0.99	0.01
170173	0	2	0.0	8.1	0.99	0.01
240173	0	2	0.0	8.1	0.99	0.01
310173	0	2	0.0	8.1	0.99	0.01
070273	0	2	0.0	8.1	0.99	0.01
140273	0	2	0.0	8.1	0.99	0.01
210273	0	2	0.0	8.1	0.99	0.01
280273	0	2	0.0	8.1	0.99	0.01
030174	0	2	0.0	12.7	0.99	0.01
100174	0	2	0.0	12.7	0.99	0.01
170174	0	2	0.0	8.1	0.99	0.01
240174	0	2	0.0	8.1	0.99	0.01
310174	0	2	0.0	8.1	0.99	0.01
070274	0	2	0.0	8.1	0.99	0.01
140274	0	2	0.0	8.1	0.99	0.01
210274	0	2	0.0	8.1	0.99	0.01
280274	0	2	0.0	8.1	0.99	0.01
030175	0	2	0.0	12.7	0.99	0.01
100175	0	2	0.0	12.7	0.99	0.01
170175	0	2	0.0	8.1	0.99	0.01
240175	0	2	0.0	8.1	0.99	0.01
310175	0	2	0.0	8.1	0.99	0.01
070275	0	2	0.0	8.1	0.99	0.01
140275	0	2	0.0	8.1	0.99	0.01
210275	0	2	0.0	8.1	0.99	0.01
280275	0	2	0.0	8.1	0.99	0.01
030176	0	2	0.0	12.7	0.99	0.01
100176	0	2	0.0	12.7	0.99	0.01
170176	0	2	0.0	8.1	0.99	0.01
240176	0	2	0.0	8.1	0.99	0.01
310176	0	2	0.0	8.1	0.99	0.01
070276	0	2	0.0	8.1	0.99	0.01
140276	0	2	0.0	8.1	0.99	0.01
210276	0	2	0.0	8.1	0.99	0.01
280276	0	2	0.0	8.1	0.99	0.01
030177	0	2	0.0	12.7	0.99	0.01
100177	0	2	0.0	12.7	0.99	0.01
170177	0	2	0.0	8.1	0.99	0.01
240177	0	2	0.0	8.1	0.99	0.01
310177	0	2	0.0	8.1	0.99	0.01
070277	0	2	0.0	8.1	0.99	0.01
140277	0	2	0.0	8.1	0.99	0.01
210277	0	2	0.0	8.1	0.99	0.01
280277	0	2	0.0	8.1	0.99	0.01
030178	0	2	0.0	12.7	0.99	0.01
100178	0	2	0.0	12.7	0.99	0.01
170178	0	2	0.0	8.1	0.99	0.01
240178	0	2	0.0	8.1	0.99	0.01
310178	0	2	0.0	8.1	0.99	0.01
070278	0	2	0.0	8.1	0.99	0.01
140278	0	2	0.0	8.1	0.99	0.01
210278	0	2	0.0	8.1	0.99	0.01
280278	0	2	0.0	8.1	0.99	0.01
030179	0	2	0.0	12.7	0.99	0.01

100179	0	2	0.0	12.7	0.99	0.01
170179	0	2	0.0	8.1	0.99	0.01
240179	0	2	0.0	8.1	0.99	0.01
310179	0	2	0.0	8.1	0.99	0.01
070279	0	2	0.0	8.1	0.99	0.01
140279	0	2	0.0	8.1	0.99	0.01
210279	0	2	0.0	8.1	0.99	0.01
280279	0	2	0.0	8.1	0.99	0.01
030180	0	2	0.0	12.7	0.99	0.01
100180	0	2	0.0	12.7	0.99	0.01
170180	0	2	0.0	8.1	0.99	0.01
240180	0	2	0.0	8.1	0.99	0.01
310180	0	2	0.0	8.1	0.99	0.01
070280	0	2	0.0	8.1	0.99	0.01
140280	0	2	0.0	8.1	0.99	0.01
210280	0	2	0.0	8.1	0.99	0.01
280280	0	2	0.0	8.1	0.99	0.01
030181	0	2	0.0	12.7	0.99	0.01
100181	0	2	0.0	12.7	0.99	0.01
170181	0	2	0.0	8.1	0.99	0.01
240181	0	2	0.0	8.1	0.99	0.01
310181	0	2	0.0	8.1	0.99	0.01
070281	0	2	0.0	8.1	0.99	0.01
140281	0	2	0.0	8.1	0.99	0.01
210281	0	2	0.0	8.1	0.99	0.01
280281	0	2	0.0	8.1	0.99	0.01
030182	0	2	0.0	12.7	0.99	0.01
100182	0	2	0.0	12.7	0.99	0.01
170182	0	2	0.0	8.1	0.99	0.01
240182	0	2	0.0	8.1	0.99	0.01
310182	0	2	0.0	8.1	0.99	0.01
070282	0	2	0.0	8.1	0.99	0.01
140282	0	2	0.0	8.1	0.99	0.01
210282	0	2	0.0	8.1	0.99	0.01
280282	0	2	0.0	8.1	0.99	0.01
030183	0	2	0.0	12.7	0.99	0.01
100183	0	2	0.0	12.7	0.99	0.01
170183	0	2	0.0	8.1	0.99	0.01
240183	0	2	0.0	8.1	0.99	0.01
310183	0	2	0.0	8.1	0.99	0.01
070283	0	2	0.0	8.1	0.99	0.01
140283	0	2	0.0	8.1	0.99	0.01
210283	0	2	0.0	8.1	0.99	0.01
280283	0	2	0.0	8.1	0.99	0.01
030184	0	2	0.0	12.7	0.99	0.01
100184	0	2	0.0	12.7	0.99	0.01
170184	0	2	0.0	8.1	0.99	0.01
240184	0	2	0.0	8.1	0.99	0.01
310184	0	2	0.0	8.1	0.99	0.01
070284	0	2	0.0	8.1	0.99	0.01
140284	0	2	0.0	8.1	0.99	0.01
210284	0	2	0.0	8.1	0.99	0.01
280284	0	2	0.0	8.1	0.99	0.01
030185	0	2	0.0	12.7	0.99	0.01
100185	0	2	0.0	12.7	0.99	0.01
170185	0	2	0.0	8.1	0.99	0.01
240185	0	2	0.0	8.1	0.99	0.01
310185	0	2	0.0	8.1	0.99	0.01

070285	0	2	0.0	8.1	0.99	0.01
140285	0	2	0.0	8.1	0.99	0.01
210285	0	2	0.0	8.1	0.99	0.01
280285	0	2	0.0	8.1	0.99	0.01
030186	0	2	0.0	12.7	0.99	0.01
100186	0	2	0.0	12.7	0.99	0.01
170186	0	2	0.0	8.1	0.99	0.01
240186	0	2	0.0	8.1	0.99	0.01
310186	0	2	0.0	8.1	0.99	0.01
070286	0	2	0.0	8.1	0.99	0.01
140286	0	2	0.0	8.1	0.99	0.01
210286	0	2	0.0	8.1	0.99	0.01
280286	0	2	0.0	8.1	0.99	0.01
030187	0	2	0.0	12.7	0.99	0.01
100187	0	2	0.0	12.7	0.99	0.01
170187	0	2	0.0	8.1	0.99	0.01
240187	0	2	0.0	8.1	0.99	0.01
310187	0	2	0.0	8.1	0.99	0.01
070287	0	2	0.0	8.1	0.99	0.01
140287	0	2	0.0	8.1	0.99	0.01
210287	0	2	0.0	8.1	0.99	0.01
280287	0	2	0.0	8.1	0.99	0.01
030188	0	2	0.0	12.7	0.99	0.01
100188	0	2	0.0	12.7	0.99	0.01
170188	0	2	0.0	8.1	0.99	0.01
240188	0	2	0.0	8.1	0.99	0.01
310188	0	2	0.0	8.1	0.99	0.01
070288	0	2	0.0	8.1	0.99	0.01
140288	0	2	0.0	8.1	0.99	0.01
210288	0	2	0.0	8.1	0.99	0.01
280288	0	2	0.0	8.1	0.99	0.01
030189	0	2	0.0	12.7	0.99	0.01
100189	0	2	0.0	12.7	0.99	0.01
170189	0	2	0.0	8.1	0.99	0.01
240189	0	2	0.0	8.1	0.99	0.01
310189	0	2	0.0	8.1	0.99	0.01
070289	0	2	0.0	8.1	0.99	0.01
140289	0	2	0.0	8.1	0.99	0.01
210289	0	2	0.0	8.1	0.99	0.01
280289	0	2	0.0	8.1	0.99	0.01
030190	0	2	0.0	12.7	0.99	0.01
100190	0	2	0.0	12.7	0.99	0.01
170190	0	2	0.0	8.1	0.99	0.01
240190	0	2	0.0	8.1	0.99	0.01
310190	0	2	0.0	8.1	0.99	0.01
070290	0	2	0.0	8.1	0.99	0.01
140290	0	2	0.0	8.1	0.99	0.01
210290	0	2	0.0	8.1	0.99	0.01
280290	0	2	0.0	8.1	0.99	0.01
*** Record 17						
	0	1	0			
*** Record 18						
	0	0	0.5			
*** Record 19	--	STITLE				
"Capay Silty Clay Loam, hydrologic group D"						
*** Record 20						
	205	0	0	0	0	0
		0	0	0	0	0
*** Record 26						


```

0      0      0
*** Record 33
5
1      2      0.37      0.47      0      0      0
0.0097630.009763      0
0.1      0.47      0.27      35.6      19.5
2      10      1.48      0.352      0      0      0
0.0097630.009763      0
5      0.352      0.241      0.87      19.5
3      43      1.48      0.352      0      0      0
0.0097630.009763      0
1      0.352      0.241      0.87      19.5
4      74      1.53      0.348      0      0      0
0.0097630.009763      0
2      0.348      0.3      0.44      19.5
5      76      1.53      0.349      0      0      0
0.0097630.009763      0
4      0.349      0.236      0.15      19.5

```

***Record 40

```

0
YEAR      10      YEAR      10      YEAR
10  1
1
1 -----
7      YEAR
PRCP      TSER      0      0
RUNF      TSER      0      0
INFL      TSER      1      1
ESLS      TSER      0      0      1.0E3
RFLX      TSER      0      0      1.0E5
EFLX      TSER      0      0      1.0E5
RZFX      TSER      0      0      1.0E5

```

Golf Course Greens

"CAturf.txt, 1/8/2007"

"San Francisco Bay Area, CA; MLRA 14,15; Metfile: W23234.dvf"

*** Record 3:

0.77 0 0 17.5 1 2

*** Record 6 -- ERFLAG

4

*** Record 7:

0.37 1.8 0.5 10 1 7.5 354

*** Record 8

1

*** Record 9

1 0.1 15 100 2 80 80 80 0

1.3

*** Record 9a-d

1 24

0101 1601 0102 1602 0103 1603 0104 1604 0105 1605 0106 1606 0107

1607 0108 1608

.001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001

.001 .001 .001

.110 .110 .110 .110 .110 .110 .110 .110 .110 .110 .110 .110 .110

.110 .110 .110

0109 1609 0110 1610 0111 1611 0112 1612

.001 .001 .001 .001 .001 .001 .001 .001

.110 .110 .110 .110 .110 .110 .110 .110

*** Record 10 -- NCPDS, the number of cropping periods

30

*** Record 11

010161 020161 311261 1

010162 020162 311262 1

010163 020163 311263 1

010164 020164 311264 1

010165 020165 311265 1

010166 020166 311266 1

010167 020167 311267 1

010168 020168 311268 1

010169 020169 311269 1

010170 020170 311270 1

010171 020171 311271 1

010172 020172 311272 1

010173 020173 311273 1

010174 020174 311274 1

010175 020175 311275 1

010176 020176 311276 1

010177 020177 311277 1

010178 020178 311278 1

010179 020179 311279 1

010180 020180 311280 1

010181 020181 311281 1

010182 020182 311282 1

010183 020183 311283 1

010184 020184 311284 1

010185 020185 311285 1

010186 020186 311286 1

010187 020187 311287 1

010188 020188 311288 1

010189 020189 311289 1

010190 020190 311290 1
*** Record 12 -- PTITLE
chlorothalonil - 1 applications @ 12.7 kg/ha

*** Record 13
180 1 0 0

*** Record 15 -- PSTNAM

chlorothalonil

*** Record 16

030161	0	2	0.0	12.7	0.99	0.01
100161	0	2	0.0	12.7	0.99	0.01
170161	0	2	0.0	8.1	0.99	0.01
240161	0	2	0.0	8.1	0.99	0.01
310161	0	2	0.0	8.1	0.99	0.01
070261	0	2	0.0	8.1	0.99	0.01
030162	0	2	0.0	12.7	0.99	0.01
100162	0	2	0.0	12.7	0.99	0.01
170162	0	2	0.0	8.1	0.99	0.01
240162	0	2	0.0	8.1	0.99	0.01
310162	0	2	0.0	8.1	0.99	0.01
070262	0	2	0.0	8.1	0.99	0.01
030163	0	2	0.0	12.7	0.99	0.01
100163	0	2	0.0	12.7	0.99	0.01
170163	0	2	0.0	8.1	0.99	0.01
240163	0	2	0.0	8.1	0.99	0.01
310163	0	2	0.0	8.1	0.99	0.01
070263	0	2	0.0	8.1	0.99	0.01
030164	0	2	0.0	12.7	0.99	0.01
100164	0	2	0.0	12.7	0.99	0.01
170164	0	2	0.0	8.1	0.99	0.01
240164	0	2	0.0	8.1	0.99	0.01
310164	0	2	0.0	8.1	0.99	0.01
070264	0	2	0.0	8.1	0.99	0.01
030165	0	2	0.0	12.7	0.99	0.01
100165	0	2	0.0	12.7	0.99	0.01
170165	0	2	0.0	8.1	0.99	0.01
240165	0	2	0.0	8.1	0.99	0.01
310165	0	2	0.0	8.1	0.99	0.01
070265	0	2	0.0	8.1	0.99	0.01
030166	0	2	0.0	12.7	0.99	0.01
100166	0	2	0.0	12.7	0.99	0.01
170166	0	2	0.0	8.1	0.99	0.01
240166	0	2	0.0	8.1	0.99	0.01
310166	0	2	0.0	8.1	0.99	0.01
070266	0	2	0.0	8.1	0.99	0.01
030167	0	2	0.0	12.7	0.99	0.01
100167	0	2	0.0	12.7	0.99	0.01
170167	0	2	0.0	8.1	0.99	0.01
240167	0	2	0.0	8.1	0.99	0.01
310167	0	2	0.0	8.1	0.99	0.01
070267	0	2	0.0	8.1	0.99	0.01
030168	0	2	0.0	12.7	0.99	0.01
100168	0	2	0.0	12.7	0.99	0.01
170168	0	2	0.0	8.1	0.99	0.01
240168	0	2	0.0	8.1	0.99	0.01
310168	0	2	0.0	8.1	0.99	0.01
070268	0	2	0.0	8.1	0.99	0.01
030169	0	2	0.0	12.7	0.99	0.01
100169	0	2	0.0	12.7	0.99	0.01

170169	0	2	0.0	8.1	0.99	0.01
240169	0	2	0.0	8.1	0.99	0.01
310169	0	2	0.0	8.1	0.99	0.01
070269	0	2	0.0	8.1	0.99	0.01
030170	0	2	0.0	12.7	0.99	0.01
100170	0	2	0.0	12.7	0.99	0.01
170170	0	2	0.0	8.1	0.99	0.01
240170	0	2	0.0	8.1	0.99	0.01
310170	0	2	0.0	8.1	0.99	0.01
070270	0	2	0.0	8.1	0.99	0.01
030171	0	2	0.0	12.7	0.99	0.01
100171	0	2	0.0	12.7	0.99	0.01
170171	0	2	0.0	8.1	0.99	0.01
240171	0	2	0.0	8.1	0.99	0.01
310171	0	2	0.0	8.1	0.99	0.01
070271	0	2	0.0	8.1	0.99	0.01
030172	0	2	0.0	12.7	0.99	0.01
100172	0	2	0.0	12.7	0.99	0.01
170172	0	2	0.0	8.1	0.99	0.01
240172	0	2	0.0	8.1	0.99	0.01
310172	0	2	0.0	8.1	0.99	0.01
070272	0	2	0.0	8.1	0.99	0.01
030173	0	2	0.0	12.7	0.99	0.01
100173	0	2	0.0	12.7	0.99	0.01
170173	0	2	0.0	8.1	0.99	0.01
240173	0	2	0.0	8.1	0.99	0.01
310173	0	2	0.0	8.1	0.99	0.01
070273	0	2	0.0	8.1	0.99	0.01
030174	0	2	0.0	12.7	0.99	0.01
100174	0	2	0.0	12.7	0.99	0.01
170174	0	2	0.0	8.1	0.99	0.01
240174	0	2	0.0	8.1	0.99	0.01
310174	0	2	0.0	8.1	0.99	0.01
070274	0	2	0.0	8.1	0.99	0.01
030175	0	2	0.0	12.7	0.99	0.01
100175	0	2	0.0	12.7	0.99	0.01
170175	0	2	0.0	8.1	0.99	0.01
240175	0	2	0.0	8.1	0.99	0.01
310175	0	2	0.0	8.1	0.99	0.01
070275	0	2	0.0	8.1	0.99	0.01
030176	0	2	0.0	12.7	0.99	0.01
100176	0	2	0.0	12.7	0.99	0.01
170176	0	2	0.0	8.1	0.99	0.01
240176	0	2	0.0	8.1	0.99	0.01
310176	0	2	0.0	8.1	0.99	0.01
070276	0	2	0.0	8.1	0.99	0.01
030177	0	2	0.0	12.7	0.99	0.01
100177	0	2	0.0	12.7	0.99	0.01
170177	0	2	0.0	8.1	0.99	0.01
240177	0	2	0.0	8.1	0.99	0.01
310177	0	2	0.0	8.1	0.99	0.01
070277	0	2	0.0	8.1	0.99	0.01
030178	0	2	0.0	12.7	0.99	0.01
100178	0	2	0.0	12.7	0.99	0.01
170178	0	2	0.0	8.1	0.99	0.01
240178	0	2	0.0	8.1	0.99	0.01
310178	0	2	0.0	8.1	0.99	0.01
070278	0	2	0.0	8.1	0.99	0.01

030179	0	2	0.0	12.7	0.99	0.01
100179	0	2	0.0	12.7	0.99	0.01
170179	0	2	0.0	8.1	0.99	0.01
240179	0	2	0.0	8.1	0.99	0.01
310179	0	2	0.0	8.1	0.99	0.01
070279	0	2	0.0	8.1	0.99	0.01
030180	0	2	0.0	12.7	0.99	0.01
100180	0	2	0.0	12.7	0.99	0.01
170180	0	2	0.0	8.1	0.99	0.01
240180	0	2	0.0	8.1	0.99	0.01
310180	0	2	0.0	8.1	0.99	0.01
070280	0	2	0.0	8.1	0.99	0.01
030181	0	2	0.0	12.7	0.99	0.01
100181	0	2	0.0	12.7	0.99	0.01
170181	0	2	0.0	8.1	0.99	0.01
240181	0	2	0.0	8.1	0.99	0.01
310181	0	2	0.0	8.1	0.99	0.01
070281	0	2	0.0	8.1	0.99	0.01
030182	0	2	0.0	12.7	0.99	0.01
100182	0	2	0.0	12.7	0.99	0.01
170182	0	2	0.0	8.1	0.99	0.01
240182	0	2	0.0	8.1	0.99	0.01
310182	0	2	0.0	8.1	0.99	0.01
070282	0	2	0.0	8.1	0.99	0.01
030183	0	2	0.0	12.7	0.99	0.01
100183	0	2	0.0	12.7	0.99	0.01
170183	0	2	0.0	8.1	0.99	0.01
240183	0	2	0.0	8.1	0.99	0.01
310183	0	2	0.0	8.1	0.99	0.01
070283	0	2	0.0	8.1	0.99	0.01
030184	0	2	0.0	12.7	0.99	0.01
100184	0	2	0.0	12.7	0.99	0.01
170184	0	2	0.0	8.1	0.99	0.01
240184	0	2	0.0	8.1	0.99	0.01
310184	0	2	0.0	8.1	0.99	0.01
070284	0	2	0.0	8.1	0.99	0.01
030185	0	2	0.0	12.7	0.99	0.01
100185	0	2	0.0	12.7	0.99	0.01
170185	0	2	0.0	8.1	0.99	0.01
240185	0	2	0.0	8.1	0.99	0.01
310185	0	2	0.0	8.1	0.99	0.01
070285	0	2	0.0	8.1	0.99	0.01
030186	0	2	0.0	12.7	0.99	0.01
100186	0	2	0.0	12.7	0.99	0.01
170186	0	2	0.0	8.1	0.99	0.01
240186	0	2	0.0	8.1	0.99	0.01
310186	0	2	0.0	8.1	0.99	0.01
070286	0	2	0.0	8.1	0.99	0.01
030187	0	2	0.0	12.7	0.99	0.01
100187	0	2	0.0	12.7	0.99	0.01
170187	0	2	0.0	8.1	0.99	0.01
240187	0	2	0.0	8.1	0.99	0.01
310187	0	2	0.0	8.1	0.99	0.01
070287	0	2	0.0	8.1	0.99	0.01
030188	0	2	0.0	12.7	0.99	0.01
100188	0	2	0.0	12.7	0.99	0.01
170188	0	2	0.0	8.1	0.99	0.01
240188	0	2	0.0	8.1	0.99	0.01

310188	0	2	0.0	8.1	0.99	0.01				
070288	0	2	0.0	8.1	0.99	0.01				
030189	0	2	0.0	12.7	0.99	0.01				
100189	0	2	0.0	12.7	0.99	0.01				
170189	0	2	0.0	8.1	0.99	0.01				
240189	0	2	0.0	8.1	0.99	0.01				
310189	0	2	0.0	8.1	0.99	0.01				
070289	0	2	0.0	8.1	0.99	0.01				
030190	0	2	0.0	12.7	0.99	0.01				
100190	0	2	0.0	12.7	0.99	0.01				
170190	0	2	0.0	8.1	0.99	0.01				
240190	0	2	0.0	8.1	0.99	0.01				
310190	0.349		0			0			0	
	0.0097630.009763					0				
	4	0.349		0.236		0.15		19.5		
***Record 40										
	0									
		YEAR	10			YEAR	10		YEAR	
10	1									
	1									
	7	YEAR								
PRCP	TSER	0	0							
RUNF	TSER	0	0							
INFL	TSER	1	1							
ESLS	TSER	0	0	1.0E3						
RFLX	TSER	0	0	1.0E5						
EFLX	TSER	0	0	1.0E5						
RZFX	TSER	0	0	1.0E50	2	0.0	8.1	0.99	0.01	
070290	0	2	0.0	8.1	0.99	0.01				
*** Record 17										
	0	1	0							
*** Record 18										
	0	0	0.5							
*** Record 19 -- STITLE										
"Capay Silty Clay Loam, hydrologic group D"										
*** Record 20										
	205		0	0	0	0	0	0	0	0
*** Record 26										
	0	0	0							
*** Record 33										
	5									
	1	2	0.37	0.47		0	0		0	
		0.0097630.009763		0						
		0.1	0.47	0.27		35.6	19.5			
	2	10	1.48	0.352		0	0		0	
		0.0097630.009763		0						
		5	0.352	0.241		0.87	19.5			
	3	43	1.48	0.352		0	0		0	
		0.0097630.009763		0						
		1	0.352	0.241		0.87	19.5			
	4	74	1.53	0.348		0	0		0	
		0.0097630.009763		0						
		2	0.348	0.3		0.44	19.5			
	5	76	1.53							

Golf Course Fairways and Roughs

"CA turf.txt, 1/8/2007"

"San Francisco Bay Area, CA; MLRA 14,15; Metfile: W23234.dvf"

*** Record 3:

0.77 0 0 17.5 1 2

*** Record 6 -- ERFLAG

4

*** Record 7:

0.37 1.8 0.5 10 1 7.5 354

*** Record 8

1

*** Record 9

1 0.1 15 100 2 80 80 80 0

1.3

*** Record 9a-d

1 24

0101 1601 0102 1602 0103 1603 0104 1604 0105 1605 0106 1606 0107
1607 0108 1608

.001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001
.001 .001 .001

.110 .110 .110 .110 .110 .110 .110 .110 .110 .110 .110 .110 .110
.110 .110 .110

0109 1609 0110 1610 0111 1611 0112 1612

.001 .001 .001 .001 .001 .001 .001 .001
.110 .110 .110 .110 .110 .110 .110 .110

*** Record 10 -- NCPDS, the number of cropping periods

30

*** Record 11

010161 020161 311261 1

010162 020162 311262 1

010163 020163 311263 1

010164 020164 311264 1

010165 020165 311265 1

010166 020166 311266 1

010167 020167 311267 1

010168 020168 311268 1

010169 020169 311269 1

010170 020170 311270 1

010171 020171 311271 1

010172 020172 311272 1

010173 020173 311273 1

010174 020174 311274 1

010175 020175 311275 1

010176 020176 311276 1

010177 020177 311277 1

010178 020178 311278 1

010179 020179 311279 1

010180 020180 311280 1

010181 020181 311281 1

010182 020182 311282 1

010183 020183 311283 1

010184 020184 311284 1

010185 020185 311285 1

010186 020186 311286 1

010187 020187 311287 1

010188 020188 311288 1

010189 020189 311289 1

010190 020190 311290 1
*** Record 12 -- PTITLE
chlorothalonil - 9 applications @ 12.7 kg/ha

*** Record 13
90 1 0 0

*** Record 15 -- PSTNAM
chlorothalonil

*** Record 16
230161 0 2 0.0 12.7 0.99 0.01
300161 0 2 0.0 8.2 0.99 0.01
060261 0 2 0.0 8.2 0.99 0.01
230162 0 2 0.0 12.7 0.99 0.01
300162 0 2 0.0 8.2 0.99 0.01
060262 0 2 0.0 8.2 0.99 0.01
230163 0 2 0.0 12.7 0.99 0.01
300163 0 2 0.0 8.2 0.99 0.01
060263 0 2 0.0 8.2 0.99 0.01
230164 0 2 0.0 12.7 0.99 0.01
300164 0 2 0.0 8.2 0.99 0.01
060264 0 2 0.0 8.2 0.99 0.01
230165 0 2 0.0 12.7 0.99 0.01
300165 0 2 0.0 8.2 0.99 0.01
060265 0 2 0.0 8.2 0.99 0.01
230166 0 2 0.0 12.7 0.99 0.01
300166 0 2 0.0 8.2 0.99 0.01
060266 0 2 0.0 8.2 0.99 0.01
230167 0 2 0.0 12.7 0.99 0.01
300167 0 2 0.0 8.2 0.99 0.01
060267 0 2 0.0 8.2 0.99 0.01
230168 0 2 0.0 12.7 0.99 0.01
300168 0 2 0.0 8.2 0.99 0.01
060268 0 2 0.0 8.2 0.99 0.01
230169 0 2 0.0 12.7 0.99 0.01
300169 0 2 0.0 8.2 0.99 0.01
060269 0 2 0.0 8.2 0.99 0.01
230170 0 2 0.0 12.7 0.99 0.01
300170 0 2 0.0 8.2 0.99 0.01
060270 0 2 0.0 8.2 0.99 0.01
230171 0 2 0.0 12.7 0.99 0.01
300171 0 2 0.0 8.2 0.99 0.01
060271 0 2 0.0 8.2 0.99 0.01
230172 0 2 0.0 12.7 0.99 0.01
300172 0 2 0.0 8.2 0.99 0.01
060272 0 2 0.0 8.2 0.99 0.01
230173 0 2 0.0 12.7 0.99 0.01
300173 0 2 0.0 8.2 0.99 0.01
060273 0 2 0.0 8.2 0.99 0.01
230174 0 2 0.0 12.7 0.99 0.01
300174 0 2 0.0 8.2 0.99 0.01
060274 0 2 0.0 8.2 0.99 0.01
230175 0 2 0.0 12.7 0.99 0.01
300175 0 2 0.0 8.2 0.99 0.01
060275 0 2 0.0 8.2 0.99 0.01
230176 0 2 0.0 12.7 0.99 0.01
300176 0 2 0.0 8.2 0.99 0.01
060276 0 2 0.0 8.2 0.99 0.01
230177 0 2 0.0 12.7 0.99 0.01
300177 0 2 0.0 8.2 0.99 0.01

3	43	1.48	0.352	0	0	0
	0.0097630.009763		0			
	1	0.352	0.241	0.87	19.5	
4	74	1.53	0.348	0	0	0
	0.0097630.009763		0			
	2	0.348	0.3	0.44	19.5	
5	76	1.53	0.349	0	0	0
	0.0097630.009763		0			
	4	0.349	0.236	0.15	19.5	

***Record 40

0	YEAR	10	YEAR	10	YEAR
---	------	----	------	----	------

10 1

1	
1	-----
7	YEAR

PRCP	TCUM	0	0
RUNF	TCUM	0	0
INFL	TCUM	1	1
ESLS	TCUM	0	0 1.0E3
RFLX	TCUM	0	0 1.0E5
EFLX	TCUM	0	0 1.0E5
RZFX	TCUM	0	0 1.0E5

Cucurbits

"Camelon.txt, 1/8/2007"
"Fresno, Kern, Kings, Madera, and Merced Counties, CA; MLRA 17;
Metfile: W93193.dvf"
*** Record 3:
0.7 0 0 17.5 1 1
*** Record 6 -- ERFLAG
4
*** Record 7:
0.37 0.2 0.3 10 1 1 354
*** Record 8
1
*** Record 9
1 0.25 46 100 3 91 87 88 0
25
*** Record 9a-d
1 25
1605 0106 1606 0107 1607 0108 1608 0109 1509 1609 0110 1610 0111
1611 0112 1612
.019 .018 .017 .016 .014 .012 .010 .009 .015 .015 .015 .016 .007
.007 .008 .008
.070 .070 .070 .070 .070 .070 .070 .070 .070 .070 .070 .070 .070
.070 .070 .070
0101 1601 0102 1602 0103 1603 0104 1604 0105
.010 .011 .012 .013 .015 .016 .018 .019 .019
.070 .070 .070 .070 .070 .070 .070 .070 .070 .070
*** Record 10 -- NCPDS, the number of cropping periods
30
*** Record 11
160561 010861 020861 1
160562 010862 020862 1
160563 010863 020863 1
160564 010864 020864 1
160565 010865 020865 1
160566 010866 020866 1
160567 010867 020867 1
160568 010868 020868 1
160569 010869 020869 1
160570 010870 020870 1
160571 010871 020871 1
160572 010872 020872 1
160573 010873 020873 1
160574 010874 020874 1
160575 010875 020875 1
160576 010876 020876 1
160577 010877 020877 1
160578 010878 020878 1
160579 010879 020879 1
160580 010880 020880 1
160581 010881 020881 1
160582 010882 020882 1
160583 010883 020883 1
160584 010884 020884 1
160585 010885 020885 1
160586 010886 020886 1
160587 010887 020887 1
160588 010888 020888 1

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160589 010889 020889      1
160590 010890 020890      1
*** Record 12 -- PTITLE
chlorothalonil - 12 applications @ 2.522 kg/ha
*** Record 13
      390      1      0      0
*** Record 15 -- PSTNAM
chlorothalonil
*** Record 16
150561 0 2 0.0 7.000 0.95 0.05
210561 0 2 0.0 2.522 0.95 0.05
280561 0 2 0.0 2.522 0.95 0.05
040661 0 2 0.0 2.522 0.95 0.05
110661 0 2 0.0 2.522 0.95 0.05
180661 0 2 0.0 2.522 0.95 0.05
250661 0 2 0.0 2.522 0.95 0.05
020761 0 2 0.0 2.522 0.95 0.05
090761 0 2 0.0 2.522 0.95 0.05
160761 0 2 0.0 2.522 0.95 0.05
230761 0 2 0.0 2.522 0.95 0.05
300761 0 2 0.0 2.522 0.95 0.05
060861 0 2 0.0 2.522 0.95 0.05
150562 0 2 0.0 7.000 0.95 0.05
210562 0 2 0.0 2.522 0.95 0.05
280562 0 2 0.0 2.522 0.95 0.05
040662 0 2 0.0 2.522 0.95 0.05
110662 0 2 0.0 2.522 0.95 0.05
180662 0 2 0.0 2.522 0.95 0.05
250662 0 2 0.0 2.522 0.95 0.05
020762 0 2 0.0 2.522 0.95 0.05
090762 0 2 0.0 2.522 0.95 0.05
160762 0 2 0.0 2.522 0.95 0.05
230762 0 2 0.0 2.522 0.95 0.05
300762 0 2 0.0 2.522 0.95 0.05
060862 0 2 0.0 2.522 0.95 0.05
150563 0 2 0.0 7.000 0.95 0.05
210563 0 2 0.0 2.522 0.95 0.05
280563 0 2 0.0 2.522 0.95 0.05
040663 0 2 0.0 2.522 0.95 0.05
110663 0 2 0.0 2.522 0.95 0.05
180663 0 2 0.0 2.522 0.95 0.05
250663 0 2 0.0 2.522 0.95 0.05
020763 0 2 0.0 2.522 0.95 0.05
090763 0 2 0.0 2.522 0.95 0.05
160763 0 2 0.0 2.522 0.95 0.05
230763 0 2 0.0 2.522 0.95 0.05
300763 0 2 0.0 2.522 0.95 0.05
060863 0 2 0.0 2.522 0.95 0.05
150564 0 2 0.0 7.000 0.95 0.05
210564 0 2 0.0 2.522 0.95 0.05
280564 0 2 0.0 2.522 0.95 0.05
040664 0 2 0.0 2.522 0.95 0.05
110664 0 2 0.0 2.522 0.95 0.05
180664 0 2 0.0 2.522 0.95 0.05
250664 0 2 0.0 2.522 0.95 0.05
020764 0 2 0.0 2.522 0.95 0.05
090764 0 2 0.0 2.522 0.95 0.05
160764 0 2 0.0 2.522 0.95 0.05

```

230764	0	2	0.0	2.522	0.95	0.05
300764	0	2	0.0	2.522	0.95	0.05
060864	0	2	0.0	2.522	0.95	0.05
150565	0	2	0.0	7.000	0.95	0.05
210565	0	2	0.0	2.522	0.95	0.05
280565	0	2	0.0	2.522	0.95	0.05
040665	0	2	0.0	2.522	0.95	0.05
110665	0	2	0.0	2.522	0.95	0.05
180665	0	2	0.0	2.522	0.95	0.05
250665	0	2	0.0	2.522	0.95	0.05
020765	0	2	0.0	2.522	0.95	0.05
090765	0	2	0.0	2.522	0.95	0.05
160765	0	2	0.0	2.522	0.95	0.05
230765	0	2	0.0	2.522	0.95	0.05
300765	0	2	0.0	2.522	0.95	0.05
060865	0	2	0.0	2.522	0.95	0.05
150566	0	2	0.0	7.000	0.95	0.05
210566	0	2	0.0	2.522	0.95	0.05
280566	0	2	0.0	2.522	0.95	0.05
040666	0	2	0.0	2.522	0.95	0.05
110666	0	2	0.0	2.522	0.95	0.05
180666	0	2	0.0	2.522	0.95	0.05
250666	0	2	0.0	2.522	0.95	0.05
020766	0	2	0.0	2.522	0.95	0.05
090766	0	2	0.0	2.522	0.95	0.05
160766	0	2	0.0	2.522	0.95	0.05
230766	0	2	0.0	2.522	0.95	0.05
300766	0	2	0.0	2.522	0.95	0.05
060866	0	2	0.0	2.522	0.95	0.05
150567	0	2	0.0	7.000	0.95	0.05
210567	0	2	0.0	2.522	0.95	0.05
280567	0	2	0.0	2.522	0.95	0.05
040667	0	2	0.0	2.522	0.95	0.05
110667	0	2	0.0	2.522	0.95	0.05
180667	0	2	0.0	2.522	0.95	0.05
250667	0	2	0.0	2.522	0.95	0.05
020767	0	2	0.0	2.522	0.95	0.05
090767	0	2	0.0	2.522	0.95	0.05
160767	0	2	0.0	2.522	0.95	0.05
230767	0	2	0.0	2.522	0.95	0.05
300767	0	2	0.0	2.522	0.95	0.05
060867	0	2	0.0	2.522	0.95	0.05
150568	0	2	0.0	7.000	0.95	0.05
210568	0	2	0.0	2.522	0.95	0.05
280568	0	2	0.0	2.522	0.95	0.05
040668	0	2	0.0	2.522	0.95	0.05
110668	0	2	0.0	2.522	0.95	0.05
180668	0	2	0.0	2.522	0.95	0.05
250668	0	2	0.0	2.522	0.95	0.05
020768	0	2	0.0	2.522	0.95	0.05
090768	0	2	0.0	2.522	0.95	0.05
160768	0	2	0.0	2.522	0.95	0.05
230768	0	2	0.0	2.522	0.95	0.05
300768	0	2	0.0	2.522	0.95	0.05
060868	0	2	0.0	2.522	0.95	0.05
150569	0	2	0.0	7.000	0.95	0.05
210569	0	2	0.0	2.522	0.95	0.05
280569	0	2	0.0	2.522	0.95	0.05

040669	0	2	0.0	2.522	0.95	0.05
110669	0	2	0.0	2.522	0.95	0.05
180669	0	2	0.0	2.522	0.95	0.05
250669	0	2	0.0	2.522	0.95	0.05
020769	0	2	0.0	2.522	0.95	0.05
090769	0	2	0.0	2.522	0.95	0.05
160769	0	2	0.0	2.522	0.95	0.05
230769	0	2	0.0	2.522	0.95	0.05
300769	0	2	0.0	2.522	0.95	0.05
060869	0	2	0.0	2.522	0.95	0.05
150570	0	2	0.0	7.000	0.95	0.05
210570	0	2	0.0	2.522	0.95	0.05
280570	0	2	0.0	2.522	0.95	0.05
040670	0	2	0.0	2.522	0.95	0.05
110670	0	2	0.0	2.522	0.95	0.05
180670	0	2	0.0	2.522	0.95	0.05
250670	0	2	0.0	2.522	0.95	0.05
020770	0	2	0.0	2.522	0.95	0.05
090770	0	2	0.0	2.522	0.95	0.05
160770	0	2	0.0	2.522	0.95	0.05
230770	0	2	0.0	2.522	0.95	0.05
300770	0	2	0.0	2.522	0.95	0.05
060870	0	2	0.0	2.522	0.95	0.05
150571	0	2	0.0	7.000	0.95	0.05
210571	0	2	0.0	2.522	0.95	0.05
280571	0	2	0.0	2.522	0.95	0.05
040671	0	2	0.0	2.522	0.95	0.05
110671	0	2	0.0	2.522	0.95	0.05
180671	0	2	0.0	2.522	0.95	0.05
250671	0	2	0.0	2.522	0.95	0.05
020771	0	2	0.0	2.522	0.95	0.05
090771	0	2	0.0	2.522	0.95	0.05
160771	0	2	0.0	2.522	0.95	0.05
230771	0	2	0.0	2.522	0.95	0.05
300771	0	2	0.0	2.522	0.95	0.05
060871	0	2	0.0	2.522	0.95	0.05
150572	0	2	0.0	7.000	0.95	0.05
210572	0	2	0.0	2.522	0.95	0.05
280572	0	2	0.0	2.522	0.95	0.05
040672	0	2	0.0	2.522	0.95	0.05
110672	0	2	0.0	2.522	0.95	0.05
180672	0	2	0.0	2.522	0.95	0.05
250672	0	2	0.0	2.522	0.95	0.05
020772	0	2	0.0	2.522	0.95	0.05
090772	0	2	0.0	2.522	0.95	0.05
160772	0	2	0.0	2.522	0.95	0.05
230772	0	2	0.0	2.522	0.95	0.05
300772	0	2	0.0	2.522	0.95	0.05
060872	0	2	0.0	2.522	0.95	0.05
150573	0	2	0.0	7.000	0.95	0.05
210573	0	2	0.0	2.522	0.95	0.05
280573	0	2	0.0	2.522	0.95	0.05
040673	0	2	0.0	2.522	0.95	0.05
110673	0	2	0.0	2.522	0.95	0.05
180673	0	2	0.0	2.522	0.95	0.05
250673	0	2	0.0	2.522	0.95	0.05
020773	0	2	0.0	2.522	0.95	0.05
090773	0	2	0.0	2.522	0.95	0.05

160773	0	2	0.0	2.522	0.95	0.05
230773	0	2	0.0	2.522	0.95	0.05
300773	0	2	0.0	2.522	0.95	0.05
060873	0	2	0.0	2.522	0.95	0.05
150574	0	2	0.0	7.000	0.95	0.05
210574	0	2	0.0	2.522	0.95	0.05
280574	0	2	0.0	2.522	0.95	0.05
040674	0	2	0.0	2.522	0.95	0.05
110674	0	2	0.0	2.522	0.95	0.05
180674	0	2	0.0	2.522	0.95	0.05
250674	0	2	0.0	2.522	0.95	0.05
020774	0	2	0.0	2.522	0.95	0.05
090774	0	2	0.0	2.522	0.95	0.05
160774	0	2	0.0	2.522	0.95	0.05
230774	0	2	0.0	2.522	0.95	0.05
300774	0	2	0.0	2.522	0.95	0.05
060874	0	2	0.0	2.522	0.95	0.05
150575	0	2	0.0	7.000	0.95	0.05
210575	0	2	0.0	2.522	0.95	0.05
280575	0	2	0.0	2.522	0.95	0.05
040675	0	2	0.0	2.522	0.95	0.05
110675	0	2	0.0	2.522	0.95	0.05
180675	0	2	0.0	2.522	0.95	0.05
250675	0	2	0.0	2.522	0.95	0.05
020775	0	2	0.0	2.522	0.95	0.05
090775	0	2	0.0	2.522	0.95	0.05
160775	0	2	0.0	2.522	0.95	0.05
230775	0	2	0.0	2.522	0.95	0.05
300775	0	2	0.0	2.522	0.95	0.05
060875	0	2	0.0	2.522	0.95	0.05
150576	0	2	0.0	7.000	0.95	0.05
210576	0	2	0.0	2.522	0.95	0.05
280576	0	2	0.0	2.522	0.95	0.05
040676	0	2	0.0	2.522	0.95	0.05
110676	0	2	0.0	2.522	0.95	0.05
180676	0	2	0.0	2.522	0.95	0.05
250676	0	2	0.0	2.522	0.95	0.05
020776	0	2	0.0	2.522	0.95	0.05
090776	0	2	0.0	2.522	0.95	0.05
160776	0	2	0.0	2.522	0.95	0.05
230776	0	2	0.0	2.522	0.95	0.05
300776	0	2	0.0	2.522	0.95	0.05
060876	0	2	0.0	2.522	0.95	0.05
150577	0	2	0.0	7.000	0.95	0.05
210577	0	2	0.0	2.522	0.95	0.05
280577	0	2	0.0	2.522	0.95	0.05
040677	0	2	0.0	2.522	0.95	0.05
110677	0	2	0.0	2.522	0.95	0.05
180677	0	2	0.0	2.522	0.95	0.05
250677	0	2	0.0	2.522	0.95	0.05
020777	0	2	0.0	2.522	0.95	0.05
090777	0	2	0.0	2.522	0.95	0.05
160777	0	2	0.0	2.522	0.95	0.05
230777	0	2	0.0	2.522	0.95	0.05
300777	0	2	0.0	2.522	0.95	0.05
060877	0	2	0.0	2.522	0.95	0.05
150578	0	2	0.0	7.000	0.95	0.05
210578	0	2	0.0	2.522	0.95	0.05

280578	0	2	0.0	2.522	0.95	0.05
040678	0	2	0.0	2.522	0.95	0.05
110678	0	2	0.0	2.522	0.95	0.05
180678	0	2	0.0	2.522	0.95	0.05
250678	0	2	0.0	2.522	0.95	0.05
020778	0	2	0.0	2.522	0.95	0.05
090778	0	2	0.0	2.522	0.95	0.05
160778	0	2	0.0	2.522	0.95	0.05
230778	0	2	0.0	2.522	0.95	0.05
300778	0	2	0.0	2.522	0.95	0.05
060878	0	2	0.0	2.522	0.95	0.05
150579	0	2	0.0	7.000	0.95	0.05
210579	0	2	0.0	2.522	0.95	0.05
280579	0	2	0.0	2.522	0.95	0.05
040679	0	2	0.0	2.522	0.95	0.05
110679	0	2	0.0	2.522	0.95	0.05
180679	0	2	0.0	2.522	0.95	0.05
250679	0	2	0.0	2.522	0.95	0.05
020779	0	2	0.0	2.522	0.95	0.05
090779	0	2	0.0	2.522	0.95	0.05
160779	0	2	0.0	2.522	0.95	0.05
230779	0	2	0.0	2.522	0.95	0.05
300779	0	2	0.0	2.522	0.95	0.05
060879	0	2	0.0	2.522	0.95	0.05
150580	0	2	0.0	7.000	0.95	0.05
210580	0	2	0.0	2.522	0.95	0.05
280580	0	2	0.0	2.522	0.95	0.05
040680	0	2	0.0	2.522	0.95	0.05
110680	0	2	0.0	2.522	0.95	0.05
180680	0	2	0.0	2.522	0.95	0.05
250680	0	2	0.0	2.522	0.95	0.05
020780	0	2	0.0	2.522	0.95	0.05
090780	0	2	0.0	2.522	0.95	0.05
160780	0	2	0.0	2.522	0.95	0.05
230780	0	2	0.0	2.522	0.95	0.05
300780	0	2	0.0	2.522	0.95	0.05
060880	0	2	0.0	2.522	0.95	0.05
150581	0	2	0.0	7.000	0.95	0.05
210581	0	2	0.0	2.522	0.95	0.05
280581	0	2	0.0	2.522	0.95	0.05
040681	0	2	0.0	2.522	0.95	0.05
110681	0	2	0.0	2.522	0.95	0.05
180681	0	2	0.0	2.522	0.95	0.05
250681	0	2	0.0	2.522	0.95	0.05
020781	0	2	0.0	2.522	0.95	0.05
090781	0	2	0.0	2.522	0.95	0.05
160781	0	2	0.0	2.522	0.95	0.05
230781	0	2	0.0	2.522	0.95	0.05
300781	0	2	0.0	2.522	0.95	0.05
060881	0	2	0.0	2.522	0.95	0.05
150582	0	2	0.0	7.000	0.95	0.05
210582	0	2	0.0	2.522	0.95	0.05
280582	0	2	0.0	2.522	0.95	0.05
040682	0	2	0.0	2.522	0.95	0.05
110682	0	2	0.0	2.522	0.95	0.05
180682	0	2	0.0	2.522	0.95	0.05
250682	0	2	0.0	2.522	0.95	0.05
020782	0	2	0.0	2.522	0.95	0.05

090782	0	2	0.0	2.522	0.95	0.05
160782	0	2	0.0	2.522	0.95	0.05
230782	0	2	0.0	2.522	0.95	0.05
300782	0	2	0.0	2.522	0.95	0.05
060882	0	2	0.0	2.522	0.95	0.05
150583	0	2	0.0	7.000	0.95	0.05
210583	0	2	0.0	2.522	0.95	0.05
280583	0	2	0.0	2.522	0.95	0.05
040683	0	2	0.0	2.522	0.95	0.05
110683	0	2	0.0	2.522	0.95	0.05
180683	0	2	0.0	2.522	0.95	0.05
250683	0	2	0.0	2.522	0.95	0.05
020783	0	2	0.0	2.522	0.95	0.05
090783	0	2	0.0	2.522	0.95	0.05
160783	0	2	0.0	2.522	0.95	0.05
230783	0	2	0.0	2.522	0.95	0.05
300783	0	2	0.0	2.522	0.95	0.05
060883	0	2	0.0	2.522	0.95	0.05
150584	0	2	0.0	7.000	0.95	0.05
210584	0	2	0.0	2.522	0.95	0.05
280584	0	2	0.0	2.522	0.95	0.05
040684	0	2	0.0	2.522	0.95	0.05
110684	0	2	0.0	2.522	0.95	0.05
180684	0	2	0.0	2.522	0.95	0.05
250684	0	2	0.0	2.522	0.95	0.05
020784	0	2	0.0	2.522	0.95	0.05
090784	0	2	0.0	2.522	0.95	0.05
160784	0	2	0.0	2.522	0.95	0.05
230784	0	2	0.0	2.522	0.95	0.05
300784	0	2	0.0	2.522	0.95	0.05
060884	0	2	0.0	2.522	0.95	0.05
150585	0	2	0.0	7.000	0.95	0.05
210585	0	2	0.0	2.522	0.95	0.05
280585	0	2	0.0	2.522	0.95	0.05
040685	0	2	0.0	2.522	0.95	0.05
110685	0	2	0.0	2.522	0.95	0.05
180685	0	2	0.0	2.522	0.95	0.05
250685	0	2	0.0	2.522	0.95	0.05
020785	0	2	0.0	2.522	0.95	0.05
090785	0	2	0.0	2.522	0.95	0.05
160785	0	2	0.0	2.522	0.95	0.05
230785	0	2	0.0	2.522	0.95	0.05
300785	0	2	0.0	2.522	0.95	0.05
060885	0	2	0.0	2.522	0.95	0.05
150586	0	2	0.0	7.000	0.95	0.05
210586	0	2	0.0	2.522	0.95	0.05
280586	0	2	0.0	2.522	0.95	0.05
040686	0	2	0.0	2.522	0.95	0.05
110686	0	2	0.0	2.522	0.95	0.05
180686	0	2	0.0	2.522	0.95	0.05
250686	0	2	0.0	2.522	0.95	0.05
020786	0	2	0.0	2.522	0.95	0.05
090786	0	2	0.0	2.522	0.95	0.05
160786	0	2	0.0	2.522	0.95	0.05
230786	0	2	0.0	2.522	0.95	0.05
300786	0	2	0.0	2.522	0.95	0.05
060886	0	2	0.0	2.522	0.95	0.05
150587	0	2	0.0	7.000	0.95	0.05

210587	0	2	0.0	2.522	0.95	0.05
280587	0	2	0.0	2.522	0.95	0.05
040687	0	2	0.0	2.522	0.95	0.05
110687	0	2	0.0	2.522	0.95	0.05
180687	0	2	0.0	2.522	0.95	0.05
250687	0	2	0.0	2.522	0.95	0.05
020787	0	2	0.0	2.522	0.95	0.05
090787	0	2	0.0	2.522	0.95	0.05
160787	0	2	0.0	2.522	0.95	0.05
230787	0	2	0.0	2.522	0.95	0.05
300787	0	2	0.0	2.522	0.95	0.05
060887	0	2	0.0	2.522	0.95	0.05
150588	0	2	0.0	7.000	0.95	0.05
210588	0	2	0.0	2.522	0.95	0.05
280588	0	2	0.0	2.522	0.95	0.05
040688	0	2	0.0	2.522	0.95	0.05
110688	0	2	0.0	2.522	0.95	0.05
180688	0	2	0.0	2.522	0.95	0.05
250688	0	2	0.0	2.522	0.95	0.05
020788	0	2	0.0	2.522	0.95	0.05
090788	0	2	0.0	2.522	0.95	0.05
160788	0	2	0.0	2.522	0.95	0.05
230788	0	2	0.0	2.522	0.95	0.05
300788	0	2	0.0	2.522	0.95	0.05
060888	0	2	0.0	2.522	0.95	0.05
150589	0	2	0.0	7.000	0.95	0.05
210589	0	2	0.0	2.522	0.95	0.05
280589	0	2	0.0	2.522	0.95	0.05
040689	0	2	0.0	2.522	0.95	0.05
110689	0	2	0.0	2.522	0.95	0.05
180689	0	2	0.0	2.522	0.95	0.05
250689	0	2	0.0	2.522	0.95	0.05
020789	0	2	0.0	2.522	0.95	0.05
090789	0	2	0.0	2.522	0.95	0.05
160789	0	2	0.0	2.522	0.95	0.05
230789	0	2	0.0	2.522	0.95	0.05
300789	0	2	0.0	2.522	0.95	0.05
060889	0	2	0.0	2.522	0.95	0.05
150590	0	2	0.0	7.000	0.95	0.05
210590	0	2	0.0	2.522	0.95	0.05
280590	0	2	0.0	2.522	0.95	0.05
040690	0	2	0.0	2.522	0.95	0.05
110690	0	2	0.0	2.522	0.95	0.05
180690	0	2	0.0	2.522	0.95	0.05
250690	0	2	0.0	2.522	0.95	0.05
020790	0	2	0.0	2.522	0.95	0.05
090790	0	2	0.0	2.522	0.95	0.05
160790	0	2	0.0	2.522	0.95	0.05
230790	0	2	0.0	2.522	0.95	0.05
300790	0	2	0.0	2.522	0.95	0.05
060890	0	2	0.0	2.522	0.95	0.05
*** Record 17						
	0	1	0			
*** Record 18						
	0	0	0.5			
*** Record 19 -- STITLE						
"Cerini clay loam, Fesno County, hydrologic group C"						
*** Record 20						

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157          0  0  0  0  0  0  0  0  0
*** Record 26
   0          0  0
*** Record 33
   5
   1      10  1.45  0.313      0      0      0
   0.0097630.009763      0
       0.1  0.313  0.173  0.46  19.5
   2       3  1.45  0.313      0      0      0
   0.0097630.009763      0
       3  0.313  0.173  0.46  19.5
   3      51  1.5  0.326      0      0      0
   0.0097630.009763      0
       3  0.326  0.195  0.41  19.5
   4      25  1.45  0.236      0      0      0
   0.0097630.009763      0
       5  0.236  0.15  0.23  19.5
   5      68  1.45  0.198      0      0      0
   0.0097630.009763      0
       4  0.198  0.115  0.17  19.5

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***Record 40

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0
      YEAR      10      YEAR      10      YEAR
10  1
    1
    1  -----
    7  YEAR
PRCP  TCUM  0  0
RUNF  TCUM  0  0
INFL  TCUM  1  1
ESLS  TCUM  0  0  1.0E3
RFLX  TCUM  0  0  1.0E5
EFLX  TCUM  0  0  1.0E5
RZFX  TCUM  0  0  1.0E5

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PRZM/EXAMS OUTPUT FILES

cucurbit

WATER COLUMN DISSOLVED CONCENTRATION (PPB)

YEAR	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	----	-----	-----	-----	-----	-----
1961	24.030	22.110	20.530	15.630	11.520	3.982
1962	70.080	65.670	51.300	33.550	26.210	11.520
1963	25.700	23.870	22.090	17.330	12.960	6.750
1964	25.680	23.830	21.600	16.820	12.540	5.175
1965	24.710	22.970	20.920	16.420	12.310	5.142
1966	23.990	22.140	20.370	15.770	11.740	5.984
1967	27.480	25.480	23.320	17.960	13.320	6.718
1968	24.040	22.140	20.520	15.770	11.640	4.721
1969	24.610	22.870	20.830	16.390	12.230	6.153
1970	24.000	22.170	20.350	15.790	11.660	5.896
1971	25.020	23.140	21.460	16.530	12.230	4.521
1972	28.390	27.270	22.640	19.200	15.740	7.068
1973	23.840	21.960	20.300	15.680	11.600	7.103
1974	23.860	21.980	20.320	15.680	11.590	4.916
1975	24.250	22.420	20.610	16.030	11.960	4.313
1976	24.270	22.510	20.510	16.020	11.990	3.609
1977	24.570	22.620	21.150	16.140	11.880	5.514
1978	23.990	22.120	20.420	15.790	11.630	5.094
1979	23.750	21.850	20.230	15.580	11.480	6.083
1980	25.050	23.220	21.420	16.660	12.310	5.636
1981	23.310	21.270	19.840	14.990	10.910	6.141
1982	27.900	26.690	22.430	16.940	13.530	8.980
1983	24.330	22.460	20.760	16.130	11.990	6.869
1984	23.160	21.340	19.510	15.040	10.990	5.922
1985	23.190	21.200	19.790	14.980	10.910	4.554
1986	23.500	21.570	20.050	15.350	11.290	4.295
1987	23.620	21.740	20.060	15.450	11.510	4.304
1988	25.180	23.310	21.230	16.380	12.040	4.199
1989	23.840	21.980	20.250	15.570	11.470	4.574
1990	27.410	25.590	23.800	17.480	12.850	4.063

SORTED FOR PLOTTING

PROB	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	----	-----	-----	-----	-----	-----
.031	70.080	65.670	51.300	33.550	26.210	11.520
.063	28.390	27.270	23.800	19.200	15.740	8.980
.094	27.900	26.690	23.320	17.960	13.530	7.103
.125	27.480	25.590	22.640	17.480	13.320	7.068
.156	27.410	25.480	22.430	17.330	12.960	6.869
.188	25.700	23.870	22.090	16.940	12.850	6.750
.219	25.680	23.830	21.600	16.820	12.540	6.718
.250	25.180	23.310	21.460	16.660	12.310	6.153
.281	25.050	23.220	21.420	16.530	12.310	6.141
.313	25.020	23.140	21.230	16.420	12.230	6.083

.344	24.710	22.970	21.150	16.390	12.230	5.984
.375	24.610	22.870	20.920	16.380	12.040	5.922
.406	24.570	22.620	20.830	16.140	11.990	5.896
.438	24.330	22.510	20.760	16.130	11.990	5.636
.469	24.270	22.460	20.610	16.030	11.960	5.514
.500	24.250	22.420	20.530	16.020	11.880	5.175
.531	24.040	22.170	20.520	15.790	11.740	5.142
.563	24.030	22.140	20.510	15.790	11.660	5.094
.594	24.000	22.140	20.420	15.770	11.640	4.916
.625	23.990	22.120	20.370	15.770	11.630	4.721
.656	23.990	22.110	20.350	15.680	11.600	4.574
.688	23.860	21.980	20.320	15.680	11.590	4.554
.719	23.840	21.980	20.300	15.630	11.520	4.521
.750	23.840	21.960	20.250	15.580	11.510	4.313
.781	23.750	21.850	20.230	15.570	11.480	4.304
.813	23.620	21.740	20.060	15.450	11.470	4.295
.844	23.500	21.570	20.050	15.350	11.290	4.199
.875	23.310	21.340	19.840	15.040	10.990	4.063
.906	23.190	21.270	19.790	14.990	10.910	3.982
.938	23.160	21.200	19.510	14.980	10.910	3.609
.969	.000	.000	.000	.000	.000	.000
1/10	27.816	26.470	23.184	17.864	13.488	7.096

MEAN OF ANNUAL VALUES = 5.660

STANDARD DEVIATION OF ANNUAL VALUES = 1.632

UPPER 90% CONFIDENCE LIMIT ON MEAN = 6.095

greens

WATER COLUMN DISSOLVED CONCENTRATION (PPB)

YEAR	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	----	-----	-----	-----	-----	-----
1961	72.710	70.060	62.210	48.560	41.230	12.940
1962	330.000	315.000	275.000	194.000	152.000	45.460
1963	455.000	431.000	360.000	251.000	202.000	59.850
1964	300.000	287.000	239.000	158.000	123.000	35.360
1965	26.520	25.250	24.260	20.030	16.820	6.747
1966	82.820	79.930	72.580	51.030	40.210	12.530
1967	605.000	586.000	515.000	355.000	282.000	83.300
1968	187.000	180.000	152.000	111.000	88.680	27.190
1969	173.000	166.000	154.000	137.000	111.000	33.100
1970	176.000	169.000	156.000	114.000	90.540	26.260
1971	84.160	79.770	64.940	43.530	33.800	11.870
1972	21.690	20.910	17.490	13.360	11.140	5.632
1973	188.000	179.000	156.000	139.000	114.000	34.450
1974	58.310	55.530	45.770	35.030	33.190	12.390
1975	160.000	152.000	127.000	89.780	72.470	21.980
1976	109.000	103.000	85.060	57.670	44.760	14.530
1977	47.180	44.690	36.060	23.840	20.830	8.288
1978	175.000	167.000	142.000	113.000	98.640	31.280
1979	284.000	271.000	234.000	172.000	152.000	47.390
1980	131.000	125.000	108.000	88.840	78.980	24.750
1981	194.000	186.000	157.000	109.000	87.920	25.870
1982	373.000	354.000	295.000	250.000	221.000	69.690
1983	195.000	185.000	167.000	129.000	104.000	30.750
1984	18.240	17.340	15.470	12.890	10.670	3.671
1985	191.000	181.000	145.000	97.760	76.350	22.860
1986	176.000	169.000	140.000	96.450	77.770	24.290
1987	189.000	179.000	147.000	98.340	76.230	24.240
1988	42.850	40.740	36.810	27.450	22.090	9.176
1989	20.560	19.590	17.160	15.390	14.410	4.910
1990	71.810	68.220	55.660	38.050	32.850	10.710

SORTED FOR PLOTTING

PROB	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	----	-----	-----	-----	-----	-----
.032	605.000	586.000	515.000	355.000	282.000	83.300
.065	455.000	431.000	360.000	251.000	221.000	69.690
.097	373.000	354.000	295.000	250.000	202.000	59.850
.129	330.000	315.000	275.000	194.000	152.000	47.390
.161	300.000	287.000	239.000	172.000	152.000	45.460
.194	284.000	271.000	234.000	158.000	123.000	35.360
.226	195.000	186.000	167.000	139.000	114.000	34.450
.258	194.000	185.000	157.000	137.000	111.000	33.100
.290	191.000	181.000	156.000	129.000	104.000	31.280
.323	189.000	180.000	156.000	114.000	98.640	30.750
.355	188.000	179.000	154.000	113.000	90.540	27.190

.387	187.000	179.000	152.000	111.000	88.680	26.260
.419	176.000	169.000	147.000	109.000	87.920	25.870
.452	176.000	169.000	145.000	98.340	78.980	24.750
.484	175.000	167.000	142.000	97.760	77.770	24.290
.516	173.000	166.000	140.000	96.450	76.350	24.240
.548	160.000	152.000	127.000	89.780	76.230	22.860
.581	131.000	125.000	108.000	88.840	72.470	21.980
.613	109.000	103.000	85.060	57.670	44.760	14.530
.645	84.160	79.930	72.580	51.030	41.230	12.940
.677	82.820	79.770	64.940	48.560	40.210	12.530
.710	72.710	70.060	62.210	43.530	33.800	12.390
.742	71.810	68.220	55.660	38.050	33.190	11.870
.774	58.310	55.530	45.770	35.030	32.850	10.710
.806	47.180	44.690	36.810	27.450	22.090	9.176
.839	42.850	40.740	36.060	23.840	20.830	8.288
.871	26.520	25.250	24.260	20.030	16.820	6.747
.903	21.690	20.910	17.490	15.390	14.410	5.632
.935	20.560	19.590	17.160	13.360	11.140	4.910
.968	18.240	17.340	15.470	12.890	10.670	3.671
1/10	368.700	350.100	293.000	244.400	197.000	58.604

MEAN OF ANNUAL VALUES = 26.049

STANDARD DEVIATION OF ANNUAL VALUES = 19.384

UPPER 90% CONFIDENCE LIMIT ON MEAN = 31.304

tees

WATER COLUMN DISSOLVED CONCENTRATION (PPB)

YEAR	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	----	-----	-----	-----	-----	-----
1961	82.730	78.630	64.290	57.320	52.550	17.050
1962	359.000	344.000	298.000	221.000	174.000	53.350
1963	456.000	433.000	363.000	264.000	226.000	69.620
1964	300.000	287.000	239.000	162.000	127.000	36.840
1965	37.030	35.220	28.910	23.060	22.520	9.589
1966	82.930	80.030	73.570	55.930	44.520	14.680
1967	609.000	589.000	518.000	362.000	292.000	88.210
1968	187.000	180.000	153.000	122.000	102.000	31.810
1969	187.000	179.000	162.000	147.000	121.000	36.560
1970	176.000	169.000	156.000	120.000	99.460	29.770
1971	130.000	123.000	101.000	67.330	52.450	17.730
1972	49.420	47.560	39.830	27.300	20.960	9.862
1973	192.000	183.000	160.000	150.000	126.000	38.810
1974	96.310	91.620	75.240	58.220	48.290	17.990
1975	160.000	152.000	129.000	107.000	95.330	30.370
1976	165.000	156.000	129.000	87.320	67.760	21.190
1977	74.170	70.230	56.640	37.410	31.500	12.270
1978	222.000	211.000	173.000	147.000	130.000	44.070
1979	285.000	274.000	245.000	178.000	160.000	51.050
1980	153.000	149.000	141.000	105.000	96.190	31.180
1981	195.000	186.000	158.000	116.000	95.950	28.840
1982	385.000	365.000	303.000	263.000	239.000	78.480
1983	195.000	185.000	168.000	142.000	118.000	35.740
1984	21.080	20.040	18.540	16.160	14.140	5.453
1985	192.000	182.000	150.000	105.000	83.300	25.270
1986	234.000	223.000	188.000	155.000	123.000	38.590
1987	189.000	182.000	152.000	104.000	80.730	25.690
1988	54.650	51.940	42.090	31.310	25.840	12.550
1989	32.010	30.490	27.970	23.170	20.680	7.300
1990	85.600	81.300	70.320	48.380	40.000	13.450

SORTED FOR PLOTTING

PROB	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	----	-----	-----	-----	-----	-----
.032	609.000	589.000	518.000	362.000	292.000	88.210
.065	456.000	433.000	363.000	264.000	239.000	78.480
.097	385.000	365.000	303.000	263.000	226.000	69.620
.129	359.000	344.000	298.000	221.000	174.000	53.350
.161	300.000	287.000	245.000	178.000	160.000	51.050
.194	285.000	274.000	239.000	162.000	130.000	44.070
.226	234.000	223.000	188.000	155.000	127.000	38.810
.258	222.000	211.000	173.000	150.000	126.000	38.590
.290	195.000	186.000	168.000	147.000	123.000	36.840
.323	195.000	185.000	162.000	147.000	121.000	36.560
.355	192.000	183.000	160.000	142.000	118.000	35.740

.387	192.000	182.000	158.000	122.000	102.000	31.810
.419	189.000	182.000	156.000	120.000	99.460	31.180
.452	187.000	180.000	153.000	116.000	96.190	30.370
.484	187.000	179.000	152.000	107.000	95.950	29.770
.516	176.000	169.000	150.000	105.000	95.330	28.840
.548	165.000	156.000	141.000	105.000	83.300	25.690
.581	160.000	152.000	129.000	104.000	80.730	25.270
.613	153.000	149.000	129.000	87.320	67.760	21.190
.645	130.000	123.000	101.000	67.330	52.550	17.990
.677	96.310	91.620	75.240	58.220	52.450	17.730
.710	85.600	81.300	73.570	57.320	48.290	17.050
.742	82.930	80.030	70.320	55.930	44.520	14.680
.774	82.730	78.630	64.290	48.380	40.000	13.450
.806	74.170	70.230	56.640	37.410	31.500	12.550
.839	54.650	51.940	42.090	31.310	25.840	12.270
.871	49.420	47.560	39.830	27.300	22.520	9.862
.903	37.030	35.220	28.910	23.170	20.960	9.589
.935	32.010	30.490	27.970	23.060	20.680	7.300
.968	21.080	20.040	18.540	16.160	14.140	5.453
1/10	382.400	362.900	302.500	258.800	220.800	67.993

MEAN OF ANNUAL VALUES = 31.112

STANDARD DEVIATION OF ANNUAL VALUES = 20.667

UPPER 90% CONFIDENCE LIMIT ON MEAN = 36.715

fairways

WATER COLUMN DISSOLVED CONCENTRATION (PPB)

YEAR	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	----	-----	-----	-----	-----	-----
1961	50.050	48.240	39.920	28.630	23.420	7.298
1962	126.000	120.000	106.000	74.380	58.190	18.220
1963	276.000	262.000	215.000	148.000	117.000	34.680
1964	259.000	248.000	202.000	132.000	102.000	29.260
1965	20.110	19.190	17.350	13.680	11.050	3.738
1966	51.920	49.950	44.250	30.630	24.420	7.604
1967	521.000	500.000	423.000	287.000	225.000	65.630
1968	122.000	116.000	96.610	67.450	53.480	16.380
1969	147.000	144.000	124.000	87.320	68.540	20.090
1970	144.000	138.000	125.000	86.700	67.360	19.240
1971	36.630	34.720	28.270	18.960	14.720	5.429
1972	11.960	11.380	9.631	7.298	5.883	2.419
1973	156.000	148.000	124.000	91.600	73.910	21.820
1974	33.790	32.110	29.950	22.650	21.150	7.084
1975	89.620	85.040	69.810	48.150	38.280	11.720
1976	51.100	48.430	39.930	27.080	21.020	7.028
1977	22.030	20.860	16.840	11.130	9.841	4.058
1978	90.000	87.230	75.310	61.530	52.000	15.710
1979	134.000	130.000	110.000	97.190	81.520	24.880
1980	82.620	78.520	66.950	54.360	45.360	13.690
1981	131.000	124.000	103.000	71.440	56.560	16.560
1982	372.000	354.000	293.000	213.000	174.000	51.990
1983	142.000	135.000	115.000	81.880	64.680	19.050
1984	11.810	11.210	9.438	7.050	5.621	1.834
1985	88.660	83.830	67.280	45.400	35.470	10.900
1986	59.690	57.400	48.150	34.550	29.190	9.489
1987	77.670	73.620	60.620	40.810	35.200	11.370
1988	36.580	34.780	28.450	19.300	15.490	5.201
1989	11.920	11.320	9.551	7.526	7.004	2.322
1990	30.650	29.140	23.860	18.460	16.300	5.228

SORTED FOR PLOTTING

PROB	PEAK	96 HOUR	21 DAY	60 DAY	90 DAY	YEARLY
----	----	-----	-----	-----	-----	-----
.032	521.000	500.000	423.000	287.000	225.000	65.630
.065	372.000	354.000	293.000	213.000	174.000	51.990
.097	276.000	262.000	215.000	148.000	117.000	34.680
.129	259.000	248.000	202.000	132.000	102.000	29.260
.161	156.000	148.000	125.000	97.190	81.520	24.880
.194	147.000	144.000	124.000	91.600	73.910	21.820
.226	144.000	138.000	124.000	87.320	68.540	20.090
.258	142.000	135.000	115.000	86.700	67.360	19.240
.290	134.000	130.000	110.000	81.880	64.680	19.050
.323	131.000	124.000	106.000	74.380	58.190	18.220
.355	126.000	120.000	103.000	71.440	56.560	16.560

.387	122.000	116.000	96.610	67.450	53.480	16.380
.419	90.000	87.230	75.310	61.530	52.000	15.710
.452	89.620	85.040	69.810	54.360	45.360	13.690
.484	88.660	83.830	67.280	48.150	38.280	11.720
.516	82.620	78.520	66.950	45.400	35.470	11.370
.548	77.670	73.620	60.620	40.810	35.200	10.900
.581	59.690	57.400	48.150	34.550	29.190	9.489
.613	51.920	49.950	44.250	30.630	24.420	7.604
.645	51.100	48.430	39.930	28.630	23.420	7.298
.677	50.050	48.240	39.920	27.080	21.150	7.084
.710	36.630	34.780	29.950	22.650	21.020	7.028
.742	36.580	34.720	28.450	19.300	16.300	5.429
.774	33.790	32.110	28.270	18.960	15.490	5.228
.806	30.650	29.140	23.860	18.460	14.720	5.201
.839	22.030	20.860	17.350	13.680	11.050	4.058
.871	20.110	19.190	16.840	11.130	9.841	3.738
.903	11.960	11.380	9.631	7.526	7.004	2.419
.935	11.920	11.320	9.551	7.298	5.883	2.322
.968	11.810	11.210	9.438	7.050	5.621	1.834
1/10	274.300	260.600	213.700	146.400	115.500	34.138

MEAN OF ANNUAL VALUES = 15.664

STANDARD DEVIATION OF ANNUAL VALUES = 14.460

UPPER 90% CONFIDENCE LIMIT ON MEAN = 19.584

stored as Asparagus.out

Chemical: chlorothalonil

PRZM environment: CARowCrop no_irrig.txt modified Monday, 16 April 2007 at 08:57:06

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	18.91	17.95	14.34	11.43	9.597	2.947
1962	19.66	18.7	15.04	12.2	10.14	4.685
1963	27.72	26.32	22.56	17.18	14.3	4.743
1964	18.24	17.29	13.88	10.97	9.18	2.884
1965	21.67	20.61	17.79	14.35	12.05	3.88
1966	18.56	17.64	14.16	11.18	9.331	3.092
1967	30.36	28.94	25.23	19.35	16.1	5.339
1968	20.18	19.13	15.62	12.24	10.18	3.085
1969	18.31	17.35	14.27	11.28	9.444	3.066
1970	18.56	17.53	14.04	11.39	9.422	3.118
1971	19.63	18.63	15.1	12.06	10.14	3.186
1972	18.03	17.08	13.73	10.81	9.037	3.463
1973	19.03	18.08	14.47	11.57	9.588	3.303
1974	26.33	24.93	20.67	15.45	13	4.071
1975	28.95	27.52	23.98	18.04	14.56	4.389
1976	18.86	17.9	14.5	11.66	9.735	2.865
1977	19.41	18.4	14.8	11.84	9.895	3.319
1978	23.11	21.96	18.84	16.44	13.89	4.312
1979	21.72	20.65	16.76	12.68	10.58	3.37
1980	19.34	18.32	14.84	12.17	10.15	3.234
1981	20.52	19.5	15.85	12.39	10.3	3.418
1982	39.24	37.42	33.78	23.97	19.69	6.64
1983	21.73	20.69	17.03	13.81	11.67	3.667
1984	17.88	16.89	13.47	10.66	8.796	2.895
1985	19.06	18.09	14.47	11.37	9.458	2.954
1986	23.48	22.23	19.37	15.15	12.38	3.693
1987	18.38	17.44	13.95	11.04	9.156	2.779
1988	17.7	17	14.23	13.04	11.19	3.547
1989	19.23	18.27	14.63	11.57	9.59	2.954
1990	18.25	17.31	13.92	10.97	9.166	2.741

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	39.24	37.42	33.78	23.97	19.69	6.64
0.0645161290322581	30.36	28.94	25.23	19.35	16.1	5.339
0.0967741935483871	28.95	27.52	23.98	18.04	14.56	4.743
0.129032258064516	27.72	26.32	22.56	17.18	14.3	4.685
0.161290322580645	26.33	24.93	20.67	16.44	13.89	4.389
0.193548387096774	23.48	22.23	19.37	15.45	13	4.312
0.225806451612903	23.11	21.96	18.84	15.15	12.38	4.071
0.258064516129032	21.73	20.69	17.79	14.35	12.05	3.88
0.290322580645161	21.72	20.65	17.03	13.81	11.67	3.693
0.32258064516129	21.67	20.61	16.76	13.04	11.19	3.667
0.354838709677419	20.52	19.5	15.85	12.68	10.58	3.547
0.387096774193548	20.18	19.13	15.62	12.39	10.3	3.463
0.419354838709677	19.66	18.7	15.1	12.24	10.18	3.418
0.451612903225806	19.63	18.63	15.04	12.2	10.15	3.37
0.483870967741936	19.41	18.4	14.84	12.17	10.14	3.319

0.516129032258065	19.34	18.32	14.8	12.06	10.14	3.303
0.548387096774194	19.23	18.27	14.63	11.84	9.895	3.234
0.580645161290323	19.06	18.09	14.5	11.66	9.735	3.186
0.612903225806452	19.03	18.08	14.47	11.57	9.597	3.118
0.645161290322581	18.91	17.95	14.47	11.57	9.59	3.092
0.67741935483871	18.86	17.9	14.34	11.43	9.588	3.085
0.709677419354839	18.56	17.64	14.27	11.39	9.458	3.066
0.741935483870968	18.56	17.53	14.23	11.37	9.444	2.954
0.774193548387097	18.38	17.44	14.16	11.28	9.422	2.954
0.806451612903226	18.31	17.35	14.04	11.18	9.331	2.947
0.838709677419355	18.25	17.31	13.95	11.04	9.18	2.895
0.870967741935484	18.24	17.29	13.92	10.97	9.166	2.884
0.903225806451613	18.03	17.08	13.88	10.97	9.156	2.865
0.935483870967742	17.88	17	13.73	10.81	9.037	2.779
0.967741935483871	17.7	16.89	13.47	10.66	8.796	2.741

0.1	28.827	27.4	23.838	17.954	14.534	4.7372
Average of yearly averages:						3.58796666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Asparagus

Metfile: w23234.dvf

PRZM scenario: CARowCrop no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	3.36	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	14	days	Set to 0 or delete line for single app.
Interval 2	interval	14	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as Boxwood.out

Chemical: chlorothalonil

PRZM environment: CANursery no_irrig.txt modified Monday, 16 April 2007 at 14:26:46

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23188.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	17.42	16.68	13.98	6.485	5.715	2.853
1962	33.6	31.93	27.14	20.55	17.83	6.919
1963	23.69	22.46	18.13	11.09	10.69	6.037
1964	8.997	8.513	8.003	7.287	6.588	3.14
1965	106	101	86.97	61.89	41.38	16.69
1966	65.78	62.67	51.64	36.06	28.93	14.02
1967	35.83	34.01	28.72	20.39	17.11	10
1968	20.24	19.3	15.96	10.97	9.825	4.566
1969	69.08	66	56.63	43.69	36.2	12
1970	30.7	29.24	24.71	14.92	13.46	6.717
1971	20.46	19.59	16.43	13.13	11.57	7.144
1972	24.01	22.75	19.81	14.1	9.445	4.747
1973	11.58	11.13	9.437	8.2	7.602	4.276
1974	66.95	63.85	52.79	24.85	16.91	9.664
1975	35.69	34.13	28.48	21.62	19.97	9.719
1976	28.92	27.4	23.38	18.25	18.07	8.951
1977	149	144	122	84.7	64.87	26.7
1978	19.27	18.34	11.96	9.561	8.321	4.59
1979	31.17	29.55	23.84	18.99	16.92	7.274
1980	36.36	34.52	27.98	22.85	20.46	7.898
1981	79.09	75.32	62.49	31.03	20.71	9.067
1982	54.17	51.54	44.78	33.35	27.53	13.7
1983	21.3	20.21	18.15	15.39	14.21	5.896
1984	23.91	22.63	12.65	6.251	5.477	2.707
1985	160	153	128	91.05	60.73	18.92
1986	69.23	66.02	54.45	39.45	33.83	20.27
1987	24.33	23.13	17.73	13.83	11.36	7.341
1988	123	117	97.8	67.16	51.72	17.85
1989	21.8	20.81	8.324	8.062	7.396	3.488
1990	21.44	20.53	18.31	14.52	12.32	5.716

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	160	153	128	91.05	64.87	26.7
0.0645161290322581		149	144	122	84.7	60.73 20.27
0.0967741935483871		123	117	97.8	67.16	51.72 18.92
0.129032258064516	106	101	86.97	61.89	41.38	17.85
0.161290322580645	79.09	75.32	62.49	43.69	36.2	16.69
0.193548387096774	69.23	66.02	56.63	39.45	33.83	14.02
0.225806451612903	69.08	66	54.45	36.06	28.93	13.7
0.258064516129032	66.95	63.85	52.79	33.35	27.53	12
0.290322580645161	65.78	62.67	51.64	31.03	20.71	10
0.32258064516129	54.17	51.54	44.78	24.85	20.46	9.719
0.354838709677419	36.36	34.52	28.72	22.85	19.97	9.664
0.387096774193548	35.83	34.13	28.48	21.62	18.07	9.067
0.419354838709677	35.69	34.01	27.98	20.55	17.83	8.951
0.451612903225806	33.6	31.93	27.14	20.39	17.11	7.898
0.483870967741936	31.17	29.55	24.71	18.99	16.92	7.341

0.516129032258065 30.7 29.24 23.84 18.25 16.91 7.274
0.548387096774194 28.92 27.4 23.38 15.39 14.21 7.144
0.580645161290323 24.33 23.13 19.81 14.92 13.46 6.919
0.612903225806452 24.01 22.75 18.31 14.52 12.32 6.717
0.645161290322581 23.91 22.63 18.15 14.1 11.57 6.037
0.67741935483871 23.69 22.46 18.13 13.83 11.36 5.896
0.709677419354839 21.8 20.81 17.73 13.13 10.69 5.716
0.741935483870968 21.44 20.53 16.43 11.09 9.825 4.747
0.774193548387097 21.3 20.21 15.96 10.97 9.445 4.59
0.806451612903226 20.46 19.59 13.98 9.561 8.321 4.566
0.838709677419355 20.24 19.3 12.65 8.2 7.602 4.276
0.870967741935484 19.27 18.34 11.96 8.062 7.396 3.488
0.903225806451613 17.42 16.68 9.437 7.287 6.588 3.14
0.935483870967742 11.58 11.13 8.324 6.485 5.715 2.853
0.967741935483871 8.997 8.513 8.003 6.251 5.477 2.707

0.1 121.3 115.4 96.717 66.633 50.686 18.813
Average of yearly averages: 9.29533333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Boxwood

Metfile: w23188.dvf

PRZM scenario: CANursery no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	3.475	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	15-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.
Interval 4	interval	7	days	Set to 0 or delete line for single app.
Interval 5	interval	7	days	Set to 0 or delete line for single app.
Interval 6	interval	7	days	Set to 0 or delete line for single app.
Interval 7	interval	7	days	Set to 0 or delete line for single app.
Interval 8	interval	7	days	Set to 0 or delete line for single app.
Interval 9	interval	7	days	Set to 0 or delete line for single app.
Interval 10	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as Carrot.out

Chemical: chlorothalonil

PRZM environment: CARowCrop no_irrig.txt modified Monday, 16 April 2007 at 08:57:06

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	21.32	20.22	18.79	16.29	14.28	4.745
1962	29.92	28.21	22.53	16.54	14.52	7.712
1963	28.03	26.8	25.81	23.49	20.03	7.09
1964	20.74	19.68	18.16	15.84	13.89	4.812
1965	26.16	24.91	23.98	20.28	17.27	5.888
1966	20.8	19.71	18.25	16	13.98	5.106
1967	33.37	31.82	30.51	25.66	21.57	7.472
1968	21.25	20.15	18.76	16.77	14.74	4.899
1969	21.21	20.05	18.64	16.2	14.09	5.074
1970	20.61	19.48	18.04	15.74	13.74	5.052
1971	21.75	20.66	19.2	16.96	14.94	5.102
1972	20.62	19.53	18.02	15.6	13.62	5.693
1973	20.81	19.69	18.3	16.17	14.12	5.397
1974	24.34	23.04	22.11	19.86	16.99	5.762
1975	25.28	23.94	22.94	21.54	18.36	5.846
1976	21.14	20	18.53	16.09	14	4.496
1977	21.26	20.18	18.73	16.56	14.56	5.398
1978	31.13	29.59	26.2	22.18	19.86	6.571
1979	22.46	21.22	20.01	17.85	15.31	5.349
1980	21.48	20.36	18.89	16.55	14.56	5.141
1981	21.3	20.15	18.82	16.84	14.65	5.418
1982	42.52	40.39	36.98	30.66	25.15	9.186
1983	25.13	23.77	21.42	18.92	16.61	5.817
1984	20.16	18.98	17.59	15.25	13.19	4.81
1985	20.8	19.69	18.28	16.11	14	4.785
1986	22.88	21.66	20.52	19.23	17.1	5.498
1987	20.51	19.39	17.96	15.7	13.65	4.546
1988	28.83	27.34	26.07	19.69	16.81	5.513
1989	20.77	19.62	18.25	16.09	13.97	4.708
1990	20.68	19.58	18.1	15.76	14.25	4.765

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	42.52	40.39	36.98	30.66	25.15	9.186
0.0645161290322581	33.37	31.82	30.51	25.66	21.57	7.712
0.0967741935483871	31.13	29.59	26.2	23.49	20.03	7.472
0.129032258064516	29.92	28.21	26.07	22.18	19.86	7.09
0.161290322580645	28.83	27.34	25.81	21.54	18.36	6.571
0.193548387096774	28.03	26.8	23.98	20.28	17.27	5.888
0.225806451612903	26.16	24.91	22.94	19.86	17.1	5.846
0.258064516129032	25.28	23.94	22.53	19.69	16.99	5.817
0.290322580645161	25.13	23.77	22.11	19.23	16.81	5.762
0.32258064516129	24.34	23.04	21.42	18.92	16.61	5.693
0.354838709677419	22.88	21.66	20.52	17.85	15.31	5.513
0.387096774193548	22.46	21.22	20.01	16.96	14.94	5.498
0.419354838709677	21.75	20.66	19.2	16.84	14.74	5.418
0.451612903225806	21.48	20.36	18.89	16.77	14.65	5.398
0.483870967741936	21.32	20.22	18.82	16.56	14.56	5.397

0.516129032258065	21.3	20.18	18.79	16.55	14.56	5.349
0.548387096774194	21.26	20.15	18.76	16.54	14.52	5.141
0.580645161290323	21.25	20.15	18.73	16.29	14.28	5.106
0.612903225806452	21.21	20.05	18.64	16.2	14.25	5.102
0.645161290322581	21.14	20	18.53	16.17	14.12	5.074
0.67741935483871	20.81	19.71	18.3	16.11	14.09	5.052
0.709677419354839	20.8	19.69	18.28	16.09	14	4.899
0.741935483870968	20.8	19.69	18.25	16.09	14	4.812
0.774193548387097	20.77	19.68	18.25	16	13.98	4.81
0.806451612903226	20.74	19.62	18.16	15.84	13.97	4.785
0.838709677419355	20.68	19.58	18.1	15.76	13.89	4.765
0.870967741935484	20.62	19.53	18.04	15.74	13.74	4.745
0.903225806451613	20.61	19.48	18.02	15.7	13.65	4.708
0.935483870967742	20.51	19.39	17.96	15.6	13.62	4.546
0.967741935483871	20.16	18.98	17.59	15.25	13.19	4.496

0.1	31.009	29.452	26.187	23.359	20.013	7.4338
Average of yearly averages:						5.58836666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Carrot

Metfile: w23234.dvf

PRZM scenario: CARowCrop no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.68	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.
Interval 4	interval	7	days	Set to 0 or delete line for single app.
Interval 5	interval	7	days	Set to 0 or delete line for single app.
Interval 6	interval	7	days	Set to 0 or delete line for single app.
Interval 7	interval	7	days	Set to 0 or delete line for single app.
Interval 8	interval	7	days	Set to 0 or delete line for single app.
Interval 9	interval	7	days	Set to 0 or delete line for single app.
Record 17:	FILTRA			
	IPSCND	1		
	UPTKF			
Record 18:	PLVKRT			

PLDKRT
FEXTRC 0.5
Flag for Index Res. Run IR Pond
Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as CarrotL.out

Chemical: chlorothalonil

PRZM environment: CARowCropLate no_irrig.txt modified Wedday, 27 June 2007
at 09:24:53

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at
16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	43.22	41.88	35.44	25.97	21.62	5.636
1962	123	116	95.61	69.48	56.86	19.68
1963	43.36	41.41	35.37	29.29	25.49	12.57
1964	34.45	32.88	29.39	22.95	19.81	9.342
1965	33.41	32.43	28.08	23.63	20.1	8.451
1966	41.42	40.33	36.73	29.24	23.84	10.8
1967	49.94	48.41	43.41	30.61	26.15	12.42
1968	29.48	28.03	24.13	20.24	17.87	8.454
1969	27.32	26.12	24.48	21.38	19.29	10.26
1970	54.66	52.2	45.52	31.28	25.22	11.29
1971	29.77	28.49	24	17.04	13.8	7.848
1972	58.22	56.09	49.1	43.47	36.85	10.72
1973	56.99	54.31	45.11	36.62	28.96	13.33
1974	36.88	35.31	30.67	21.95	17.8	9.057
1975	21.18	20.11	18.58	16.33	14.28	6.774
1976	38.35	22.58	18.05	15.53	14.23	5.549
1977	51.15	48.7	40.35	27.98	22.23	11.94
1978	32.38	31.31	28.03	23.1	19.4	9.592
1979	43.32	41.21	30.97	24.61	21.4	11.95
1980	39.28	37.54	33.67	26.81	22.47	10.65
1981	65.85	62.43	53.4	39.08	31.05	12.17
1982	83.82	79.88	66.07	47.09	38.09	19.69
1983	42.62	40.82	34.52	30.04	24.98	13.36
1984	52.72	50.05	45.04	33.38	27.05	10.68
1985	35.7	33.94	28.79	21.93	19	8.527
1986	20.12	19.14	17.37	15.06	13.52	7.896
1987	25.38	24.45	20.77	18.06	16.38	7.358
1988	22.71	21.64	19.19	17.37	15.97	6.727
1989	25.96	24.6	21.5	19.59	17.05	7.065
1990	19.75	18.72	17.08	14.76	13.48	5.859

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	123	116	95.61	69.48	56.86	19.69
0.0645161290322581			83.82	79.88	66.07	47.09 38.09 19.68
0.0967741935483871			65.85	62.43	53.4	43.47 36.85 13.36
0.129032258064516	58.22	56.09	49.1	39.08	31.05	13.33
0.161290322580645	56.99	54.31	45.52	36.62	28.96	12.57
0.193548387096774	54.66	52.2	45.11	33.38	27.05	12.42
0.225806451612903	52.72	50.05	45.04	31.28	26.15	12.17
0.258064516129032	51.15	48.7	43.41	30.61	25.49	11.95
0.290322580645161	49.94	48.41	40.35	30.04	25.22	11.94
0.32258064516129	43.36	41.88	36.73	29.29	24.98	11.29
0.354838709677419	43.32	41.41	35.44	29.24	23.84	10.8
0.387096774193548	43.22	41.21	35.37	27.98	22.47	10.72
0.419354838709677	42.62	40.82	34.52	26.81	22.23	10.68
0.451612903225806	41.42	40.33	33.67	25.97	21.62	10.65
0.483870967741936	39.28	37.54	30.97	24.61	21.4	10.26

0.516129032258065 38.35 35.31 30.67 23.63 20.1 9.592
0.548387096774194 36.88 33.94 29.39 23.1 19.81 9.342
0.580645161290323 35.7 32.88 28.79 22.95 19.4 9.057
0.612903225806452 34.45 32.43 28.08 21.95 19.29 8.527
0.645161290322581 33.41 31.31 28.03 21.93 19 8.454
0.67741935483871 32.38 28.49 24.48 21.38 17.87 8.451
0.709677419354839 29.77 28.03 24.13 20.24 17.8 7.896
0.741935483870968 29.48 26.12 24 19.59 17.05 7.848
0.774193548387097 27.32 24.6 21.5 18.06 16.38 7.358
0.806451612903226 25.96 24.45 20.77 17.37 15.97 7.065
0.838709677419355 25.38 22.58 19.19 17.04 14.28 6.774
0.870967741935484 22.71 21.64 18.58 16.33 14.23 6.727
0.903225806451613 21.18 20.11 18.05 15.53 13.8 5.859
0.935483870967742 20.12 19.14 17.37 15.06 13.52 5.636
0.967741935483871 19.75 18.72 17.08 14.76 13.48 5.549

0.1 65.087 61.796 52.97 43.031 36.27 13.357
Average of yearly averages: 10.1881666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: CarrotL

Metfile: w23234.dvf

PRZM scenario: CARowCropLate no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.68	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	15-09	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.
Interval 4	interval	7	days	Set to 0 or delete line for single app.
Interval 5	interval	7	days	Set to 0 or delete line for single app.
Interval 6	interval	7	days	Set to 0 or delete line for single app.
Interval 7	interval	7	days	Set to 0 or delete line for single app.
Interval 8	interval	7	days	Set to 0 or delete line for single app.
Interval 9	interval	7	days	Set to 0 or delete line for single app.
Record 17:	FILTRA			
	IPSCND	1		
	UPTKF			
Record 18:	PLVKRT			

PLDKRT
FEXTRC 0.5
Flag for Index Res. Run IR Pond
Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as Celery.out

Chemical: chlorothalonil

PRZM environment: CARowCrop no_irrig.txt modified Monday, 16 April 2007 at 08:57:06

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	30.35	28.86	26.92	23.49	20.33	6.595
1962	64.28	61.28	58.49	47.52	38.4	12.99
1963	50.94	48.45	46.38	42.12	38.27	12.66
1964	30.79	29.27	27.35	24.37	21.18	6.707
1965	29.55	28.15	25.35	21.49	20.05	7.122
1966	32.38	30.85	28.31	24.36	20.68	6.746
1967	46.63	44.37	42.36	39.11	36.23	12.39
1968	38.96	37.04	35.18	33.28	28.61	8.992
1969	45.09	43.43	41.26	34.2	28.9	9.155
1970	34.73	32.83	28.16	23.55	20.21	6.53
1971	32.7	31.12	27.62	23.83	20.67	6.829
1972	29.17	27.69	25.25	21.15	18.06	6.574
1973	45.46	43.65	40.31	34.41	29.31	9.457
1974	36.97	35.24	30.93	26.05	23.11	7.747
1975	45.13	43.01	35.9	31.08	28.08	9.423
1976	38.2	36.3	31.6	25.09	21.44	6.861
1977	29.8	28.29	25.86	22.38	19.38	6.439
1978	67.04	63.71	52.1	41.29	35.8	11.71
1979	46.42	44.34	42.52	34.76	29.04	9.334
1980	54.29	51.48	47.6	36.41	30.1	9.616
1981	34.54	32.89	30.65	28.26	24.54	7.913
1982	50.04	47.53	45.2	40.12	35.87	12.48
1983	44.68	42.61	40.02	35.02	30.87	9.934
1984	28.44	26.92	24.59	20.56	17.45	5.65
1985	35.97	34.39	32.57	27.82	23.2	7.341
1986	71.26	67.58	57.39	49.12	40.17	12.62
1987	39.68	37.66	36.26	29.21	24.13	7.517
1988	28.22	26.66	24.51	20.71	18.11	6.492
1989	29.94	28.51	26.43	22.61	19.43	6.236
1990	32.21	30.61	28.24	23.06	19.54	6.259

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	71.26	67.58	58.49	49.12	40.17	12.99
0.0645161290322581	67.04	63.71	57.39	47.52	38.4	12.66
0.0967741935483871	64.28	61.28	52.1	42.12	38.27	12.62
0.129032258064516	54.29	51.48	47.6	41.29	36.23	12.48
0.161290322580645	50.94	48.45	46.38	40.12	35.87	12.39
0.193548387096774	50.04	47.53	45.2	39.11	35.8	11.71
0.225806451612903	46.63	44.37	42.52	36.41	30.87	9.934
0.258064516129032	46.42	44.34	42.36	35.02	30.1	9.616
0.290322580645161	45.46	43.65	41.26	34.76	29.31	9.457
0.32258064516129	45.13	43.43	40.31	34.41	29.04	9.423
0.354838709677419	45.09	43.01	40.02	34.2	28.9	9.334
0.387096774193548	44.68	42.61	36.26	33.28	28.61	9.155
0.419354838709677	39.68	37.66	35.9	31.08	28.08	8.992
0.451612903225806	38.96	37.04	35.18	29.21	24.54	7.913
0.483870967741936	38.2	36.3	32.57	28.26	24.13	7.747

0.516129032258065 36.97 35.24 31.6 27.82 23.2 7.517
0.548387096774194 35.97 34.39 30.93 26.05 23.11 7.341
0.580645161290323 34.73 32.89 30.65 25.09 21.44 7.122
0.612903225806452 34.54 32.83 28.31 24.37 21.18 6.861
0.645161290322581 32.7 31.12 28.24 24.36 20.68 6.829
0.67741935483871 32.38 30.85 28.16 23.83 20.67 6.746
0.709677419354839 32.21 30.61 27.62 23.55 20.33 6.707
0.741935483870968 30.79 29.27 27.35 23.49 20.21 6.595
0.774193548387097 30.35 28.86 26.92 23.06 20.05 6.574
0.806451612903226 29.94 28.51 26.43 22.61 19.54 6.53
0.838709677419355 29.8 28.29 25.86 22.38 19.43 6.492
0.870967741935484 29.55 28.15 25.35 21.49 19.38 6.439
0.903225806451613 29.17 27.69 25.25 21.15 18.11 6.259
0.935483870967742 28.44 26.92 24.59 20.71 18.06 6.236
0.967741935483871 28.22 26.66 24.51 20.56 17.45 5.65

0.1 63.281 60.3 51.65 42.037 38.066 12.606
Average of yearly averages: 8.54396666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Celery

Metfile: w23234.dvf

PRZM scenario: CARowCrop no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM 2		integer	See PRZM manual
Incorporation Depth:	DEPI 0		cm	
Application Rate:	TAPP 2.52		kg/ha	
Application Efficiency:	APPEFF 0.95		fraction	
Spray Drift	DRFT 0.05		fraction of application rate applied to pond	
Application Date	Date 15-01		dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval 7		days	Set to 0 or delete line for single app.
Interval 2	interval 7		days	Set to 0 or delete line for single app.
Interval 3	interval 7		days	Set to 0 or delete line for single app.
Interval 4	interval 7		days	Set to 0 or delete line for single app.
Interval 5	interval 7		days	Set to 0 or delete line for single app.
Interval 6	interval 7		days	Set to 0 or delete line for single app.
Interval 7	interval 7		days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond
Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as CeleryL.out

Chemical: chlorothalonil

PRZM environment: CARowCrop no_irrig.txt modified Monday, 16 April 2007 at 08:57:06

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	39.74	38.53	32.69	25.98	23.67	6.295
1962	118	111	93.95	67.18	54.9	18.3
1963	34.01	32.51	27.66	24.49	20.92	11.8
1964	37.81	36.1	31.01	25.38	22.57	9.284
1965	31.08	30.13	27.56	24.02	22.47	8.692
1966	37.74	36.84	33.85	28.87	25.68	10.74
1967	38.17	36.88	32.4	23.9	20.2	11.23
1968	30.45	28.98	25.53	22.39	20.6	8.394
1969	34.51	32.52	31.14	24.75	21.59	9.712
1970	48.04	45.9	40.06	29.82	26.41	10.59
1971	27.38	25.98	23.24	19.46	16.84	8.147
1972	58.69	56.94	48.72	45.33	38.31	11.19
1973	52.02	49.6	41.31	36.3	30.9	12.63
1974	32	30.86	26.78	19.53	16.83	9.172
1975	28.57	27.11	24.51	20.48	17.49	6.922
1976	35.68	25.75	23.1	19.62	16.99	5.988
1977	43.81	41.73	34.76	24.84	22.86	11.64
1978	27.41	26.06	23.29	19.76	17.08	8.898
1979	39.64	37.38	34.38	25.73	23.9	10.75
1980	31.51	30.12	28.13	21.49	17.66	9.961
1981	71.55	67.86	55.16	41.6	34.82	12
1982	69.81	66.58	55.23	39.54	33.66	18.29
1983	38.92	37.29	31.49	27.16	24.48	12.79
1984	56.37	53.55	45.09	34.61	29.73	11.2
1985	32.65	31.08	26.44	23.37	21.28	8.908
1986	27.3	25.81	23.2	19.35	16.48	7.673
1987	27.57	26.11	23.37	19.97	18.84	7.294
1988	27.8	26.39	23.63	20.47	18.62	7.101
1989	31.63	29.94	27.5	22.84	20.06	7.68
1990	26.54	25.13	22.49	18.83	16.31	6.19

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	118	111	93.95	67.18	54.9	18.3
0.0645161290322581			71.55	67.86	55.23	45.33 38.31 18.29
0.0967741935483871			69.81	66.58	55.16	41.6 34.82 12.79
0.129032258064516	58.69	56.94	48.72	39.54	33.66	12.63
0.161290322580645	56.37	53.55	45.09	36.3	30.9	12
0.193548387096774	52.02	49.6	41.31	34.61	29.73	11.8
0.225806451612903	48.04	45.9	40.06	29.82	26.41	11.64
0.258064516129032	43.81	41.73	34.76	28.87	25.68	11.23
0.290322580645161	39.74	38.53	34.38	27.16	24.48	11.2
0.32258064516129	39.64	37.38	33.85	25.98	23.9	11.19
0.354838709677419	38.92	37.29	32.69	25.73	23.67	10.75
0.387096774193548	38.17	36.88	32.4	25.38	22.86	10.74
0.419354838709677	37.81	36.84	31.49	24.84	22.57	10.59
0.451612903225806	37.74	36.1	31.14	24.75	22.47	9.961
0.483870967741936	35.68	32.52	31.01	24.49	21.59	9.712

0.516129032258065 34.51 32.51 28.13 24.02 21.28 9.284
0.548387096774194 34.01 31.08 27.66 23.9 20.92 9.172
0.580645161290323 32.65 30.86 27.56 23.37 20.6 8.908
0.612903225806452 32 30.13 27.5 22.84 20.2 8.898
0.645161290322581 31.63 30.12 26.78 22.39 20.06 8.692
0.67741935483871 31.51 29.94 26.44 21.49 18.84 8.394
0.709677419354839 31.08 28.98 25.53 20.48 18.62 8.147
0.741935483870968 30.45 27.11 24.51 20.47 17.66 7.68
0.774193548387097 28.57 26.39 23.63 19.97 17.49 7.673
0.806451612903226 27.8 26.11 23.37 19.76 17.08 7.294
0.838709677419355 27.57 26.06 23.29 19.62 16.99 7.101
0.870967741935484 27.41 25.98 23.24 19.53 16.84 6.922
0.903225806451613 27.38 25.81 23.2 19.46 16.83 6.295
0.935483870967742 27.3 25.75 23.1 19.35 16.48 6.19
0.967741935483871 26.54 25.13 22.49 18.83 16.31 5.988

0.1 68.698 65.616 54.516 41.394 34.704 12.774
Average of yearly averages: 9.98203333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: CeleryL

Metfile: w23234.dvf

PRZM scenario: CARowCrop no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM 2		integer	See PRZM manual
Incorporation Depth:	DEPI 0		cm	
Application Rate:	TAPP 2.52		kg/ha	
Application Efficiency:	APPEFF	0.95		fraction
Spray Drift	DRFT 0.05		fraction of	application rate applied to pond
Application Date	Date 15-09		dd/mm	or dd/mm or dd-mm or dd-mmm
Interval 1	interval 7		days	Set to 0 or delete line for single app.
Interval 2	interval 7		days	Set to 0 or delete line for single app.
Interval 3	interval 7		days	Set to 0 or delete line for single app.
Interval 4	interval 7		days	Set to 0 or delete line for single app.
Interval 5	interval 7		days	Set to 0 or delete line for single app.
Interval 6	interval 7		days	Set to 0 or delete line for single app.
Interval 7	interval 7		days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond
Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as ColeCrop.out
 Chemical: chlorothalonil
 PRZM environment: CAColeCrop no_irrig.txt modified Monday, 16 April 2007 at 08:58:22
 EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30
 Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22
 Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	32.71	31.62	28.95	21.4	18.32	6.098
1962	45.85	43.72	41.43	37.19	31.27	11.05
1963	60.92	57.95	50.52	39.26	32.68	11.31
1964	22.02	20.91	18.01	14.82	12.76	4.452
1965	31.31	29.91	25.4	20.6	18.29	6.664
1966	21.27	20.27	18.55	15.83	13.55	4.889
1967	57.37	54.73	47.88	38.81	32.65	11.48
1968	40.57	38.49	34.47	25.27	21.11	6.82
1969	35.36	33.52	31.99	28.51	24.44	7.941
1970	27.66	26.14	24.84	19.33	16.18	5.48
1971	35.77	34.04	32.49	24.31	20.32	6.757
1972	19.33	18.34	16.55	14.04	12.16	5.43
1973	38.23	36.44	34.34	28.88	24.54	8.317
1974	46.88	44.45	36.98	31.04	26.12	8.579
1975	61.17	59.43	51.71	38.36	31.22	10.17
1976	33.61	31.89	30.05	23.56	19.29	6.018
1977	36.01	34.15	30.01	21.43	18.05	6.233
1978	63.84	60.65	53.21	41.86	35.52	11.77
1979	43.26	41.22	34.43	31.31	27.24	8.74
1980	50.16	48.28	44.32	36.71	30.19	9.382
1981	37.04	35.52	31.82	23.47	19.62	6.664
1982	71.6	70	62.43	46.46	41.45	14.36
1983	57.54	55.98	50.73	40.23	33.86	10.94
1984	20.06	18.98	17.03	14.2	12.12	4.373
1985	33.92	32.27	27.47	23.39	20.75	6.735
1986	78.21	74.4	67.3	52.29	43.26	13.06
1987	26.28	25.01	24	21.88	18.13	5.647
1988	25.33	24.04	20.55	16.12	15.15	5.669
1989	31.26	29.79	26.66	20.4	17.19	5.709
1990	22.8	21.68	20.32	17.91	14.91	5.101

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	78.21	74.4	67.3	52.29	43.26	14.36
0.0645161290322581	71.6	70	62.43	46.46	41.45	13.06
0.0967741935483871	63.84	60.65	53.21	41.86	35.52	11.77
0.129032258064516	61.17	59.43	51.71	40.23	33.86	11.48
0.161290322580645	60.92	57.95	50.73	39.26	32.68	11.31
0.193548387096774	57.54	55.98	50.52	38.81	32.65	11.05
0.225806451612903	57.37	54.73	47.88	38.36	31.27	10.94
0.258064516129032	50.16	48.28	44.32	37.19	31.22	10.17
0.290322580645161	46.88	44.45	41.43	36.71	30.19	9.382
0.32258064516129	45.85	43.72	36.98	31.31	27.24	8.74
0.354838709677419	43.26	41.22	34.47	31.04	26.12	8.579
0.387096774193548	40.57	38.49	34.43	28.88	24.54	8.317
0.419354838709677	38.23	36.44	34.34	28.51	24.44	7.941
0.451612903225806	37.04	35.52	32.49	25.27	21.11	6.82
0.483870967741936	36.01	34.15	31.99	24.31	20.75	6.757

0.516129032258065	35.77	34.04	31.82	23.56	20.32	6.735
0.548387096774194	35.36	33.52	30.05	23.47	19.62	6.664
0.580645161290323	33.92	32.27	30.01	23.39	19.29	6.664
0.612903225806452	33.61	31.89	28.95	21.88	18.32	6.233
0.645161290322581	32.71	31.62	27.47	21.43	18.29	6.098
0.67741935483871	31.31	29.91	26.66	21.4	18.13	6.018
0.709677419354839	31.26	29.79	25.4	20.6	18.05	5.709
0.741935483870968	27.66	26.14	24.84	20.4	17.19	5.669
0.774193548387097	26.28	25.01	24	19.33	16.18	5.647
0.806451612903226	25.33	24.04	20.55	17.91	15.15	5.48
0.838709677419355	22.8	21.68	20.32	16.12	14.91	5.43
0.870967741935484	22.02	20.91	18.55	15.83	13.55	5.101
0.903225806451613	21.27	20.27	18.01	14.82	12.76	4.889
0.935483870967742	20.06	18.98	17.03	14.2	12.16	4.452
0.967741935483871	19.33	18.34	16.55	14.04	12.12	4.373

0.1	63.573	60.528	53.06	41.697	35.354	11.741
Average of yearly averages:						7.86126666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: ColeCrop

Metfile: w23234.dvf

PRZM scenario: CAColeCrop no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0	days		Half-life
Method:	CAM 2	integer		See PRZM manual
Incorporation Depth:	DEPI 0	cm		
Application Rate:	TAPP 1.68	kg/ha		
Application Efficiency:	APPEFF	0.95		fraction
Spray Drift	DRFT 0.05	fraction of application rate applied to pond		
Application Date	Date 01-02	dd/mm or dd/mm or dd-mm or dd-mmm		
Interval 1	interval 7	days		Set to 0 or delete line for single app.
Interval 2	interval 7	days		Set to 0 or delete line for single app.
Interval 3	interval 7	days		Set to 0 or delete line for single app.
Interval 4	interval 7	days		Set to 0 or delete line for single app.
Interval 5	interval 7	days		Set to 0 or delete line for single app.
Interval 6	interval 7	days		Set to 0 or delete line for single app.
Interval 7	interval 7	days		Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond
Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as ColeCropL.out

Chemical: chlorothalonil

PRZM environment: CAColeCropLate no_irrig.txt modified Wedday, 27 June 2007
at 11:35:47

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at
16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	28.74	27.6	23.31	13.41	10.46	5.1
1962	140	132	106	70.6	55.53	20.37
1963	29.77	28.48	24.79	22.23	19.2	10.52
1964	17.79	17.25	15.12	12.57	10.53	7.119
1965	23.49	22.66	15.42	12.87	10.85	7.439
1966	29.26	28.42	25.14	17.58	12.94	9.293
1967	35.8	34.41	31.92	22.77	19.44	10.06
1968	18.18	17.14	15.48	12.89	10.81	7.101
1969	25.49	24.02	19.02	14.63	12.69	9.303
1970	31.09	29.92	26.85	16.12	12.12	9.121
1971	19.49	18.63	15.76	12.61	10.49	6.114
1972	59.96	57.82	48.75	40.51	33.12	11.46
1973	36.71	34.98	29.12	23.73	17.75	11.72
1974	26.05	24.94	21.65	15.6	12.81	7.239
1975	18.15	17.1	15.48	12.93	11.16	6.356
1976	18.09	17.05	15.36	12.78	10.79	4.41
1977	25.8	24.54	20.21	13.98	11.24	8.107
1978	24.91	24.06	21.05	17.82	15.31	8.052
1979	26.87	25.56	19.43	16.23	13.88	9.869
1980	26.67	25.57	22.07	18.39	15.94	8.511
1981	42.29	40.19	33.1	24.34	18.34	10.26
1982	54	51.46	42.62	30.84	25.19	14.72
1983	26.53	25.4	22.76	20.61	17.63	10.84
1984	34.35	32.62	27.96	20.84	16.97	9.321
1985	17.89	16.85	15.19	12.65	10.67	6.821
1986	18.37	17.36	15.62	13.04	11.03	6.483
1987	17.79	16.74	15.11	12.56	10.54	5.989
1988	17.56	16.51	14.87	12.34	10.34	5.473
1989	17.68	16.64	14.97	13.09	11.99	7.07
1990	17.76	16.7	15.08	12.51	10.42	4.822

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129	140	132	106	70.6	55.53	20.37		
0.0645161290322581			59.96	57.82	48.75	40.51	33.12	14.72
0.0967741935483871			54	51.46	42.62	30.84	25.19	11.72
0.129032258064516	42.29	40.19	33.1	24.34	19.44	11.46		
0.161290322580645	36.71	34.98	31.92	23.73	19.2	10.84		
0.193548387096774	35.8	34.41	29.12	22.77	18.34	10.52		
0.225806451612903	34.35	32.62	27.96	22.23	17.75	10.26		
0.258064516129032	31.09	29.92	26.85	20.84	17.63	10.06		
0.290322580645161	29.77	28.48	25.14	20.61	16.97	9.869		
0.32258064516129	29.26	28.42	24.79	18.39	15.94	9.321		
0.354838709677419	28.74	27.6	23.31	17.82	15.31	9.303		
0.387096774193548	26.87	25.57	22.76	17.58	13.88	9.293		
0.419354838709677	26.67	25.56	22.07	16.23	12.94	9.121		
0.451612903225806	26.53	25.4	21.65	16.12	12.81	8.511		
0.483870967741936	26.05	24.94	21.05	15.6	12.69	8.107		

0.516129032258065	25.8	24.54	20.21	14.63	12.12	8.052
0.548387096774194	25.49	24.06	19.43	13.98	11.99	7.439
0.580645161290323	24.91	24.02	19.02	13.41	11.24	7.239
0.612903225806452	23.49	22.66	15.76	13.09	11.16	7.119
0.645161290322581	19.49	18.63	15.62	13.04	11.03	7.101
0.67741935483871	18.37	17.36	15.48	12.93	10.85	7.07
0.709677419354839	18.18	17.25	15.48	12.89	10.81	6.821
0.741935483870968	18.15	17.14	15.42	12.87	10.79	6.483
0.774193548387097	18.09	17.1	15.36	12.78	10.67	6.356
0.806451612903226	17.89	17.05	15.19	12.65	10.54	6.114
0.838709677419355	17.79	16.85	15.12	12.61	10.53	5.989
0.870967741935484	17.79	16.74	15.11	12.57	10.49	5.473
0.903225806451613	17.76	16.7	15.08	12.56	10.46	5.1
0.935483870967742	17.68	16.64	14.97	12.51	10.42	4.822
0.967741935483871	17.56	16.51	14.87	12.34	10.34	4.41

0.1	52.829	50.333	41.668	30.19	24.615	11.694
Average of yearly averages:						8.63543333333334

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: ColeCropL

Metfile: w23234.dvf

PRZM scenario: CAColeCropLate no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.68	kg/ha	
Application Efficiency:	APPEFF		0.95	fraction
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	02-07	dd/mm	or dd/mm or dd-mm or dd-mmm
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.
Interval 4	interval	7	days	Set to 0 or delete line for single app.
Interval 5	interval	7	days	Set to 0 or delete line for single app.
Interval 6	interval	7	days	Set to 0 or delete line for single app.
Interval 7	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond
Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as Conifers.out

Chemical: chlorothalonil

PRZM environment: ORXmasTreeC.txt modified Satday, 12 October 2002 at 16:23:10

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w24232.dvf modified Wedday, 3 July 2002 at 10:06:10

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	13.39	12.77	11.14	8.869	7.723	1.927
1962	14.15	13.58	11.7	10.95	9.858	3.494
1963	18.85	17.97	15.15	11.9	10.05	4.017
1964	13.19	12.56	10.79	9.164	8.752	3.431
1965	13.44	12.9	11.38	10.4	9.252	4.067
1966	13.22	12.6	10.77	10.62	9.649	4.148
1967	15.32	14.6	12.77	10.44	9.167	3.786
1968	16.87	16.1	14.21	12	10.92	4.003
1969	16.49	15.82	13.42	11.64	10.53	4.224
1970	13.48	12.86	10.98	9.463	8.488	3.815
1971	15.26	14.57	12.39	9.884	8.624	3.53
1972	13.3	12.69	11.14	9.097	8.298	3.348
1973	19.83	19.07	16.86	13.87	12.12	4.457
1974	13.09	12.45	11.35	10.54	9.233	4.109
1975	14.46	13.83	12.28	9.979	8.712	3.4
1976	13.2	12.58	10.75	8.334	6.978	2.817
1977	13.2	12.58	11.4	10.49	9.683	3.065
1978	13.01	12.35	10.52	9.585	8.572	3.712
1979	14.36	13.98	11.93	9.696	8.462	3.521
1980	14.98	14.41	12.47	10.57	9.969	3.554
1981	14.55	13.97	12.39	11.68	10.7	4.805
1982	13.22	12.6	10.77	9.353	8.668	3.752
1983	13.28	12.66	11.69	10.47	9.141	3.611
1984	19.85	19.05	16.84	14.16	12.22	4.176
1985	14.21	13.55	12.01	10.22	8.784	3.771
1986	13.15	12.51	10.71	9.02	7.943	2.973
1987	18.27	17.61	16.07	11.32	10.41	3.594
1988	13.17	12.53	11.18	9.909	8.824	4.504
1989	15.57	15	12.96	11.26	10.32	3.795
1990	14.71	14.07	12.88	10.71	9.195	4.24

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	19.85	19.07	16.86	14.16	12.22	4.805
0.0645161290322581	19.83	19.05	16.84	13.87	12.12	4.504
0.0967741935483871	18.85	17.97	16.07	12	10.92	4.457
0.129032258064516	18.27	17.61	15.15	11.9	10.7	4.24
0.161290322580645	16.87	16.1	14.21	11.68	10.53	4.224
0.193548387096774	16.49	15.82	13.42	11.64	10.41	4.176
0.225806451612903	15.57	15	12.96	11.32	10.32	4.148
0.258064516129032	15.32	14.6	12.88	11.26	10.05	4.109
0.290322580645161	15.26	14.57	12.77	10.95	9.969	4.067
0.32258064516129	14.98	14.41	12.47	10.71	9.858	4.017
0.354838709677419	14.71	14.07	12.39	10.62	9.683	4.003
0.387096774193548	14.55	13.98	12.39	10.57	9.649	3.815
0.419354838709677	14.46	13.97	12.28	10.54	9.252	3.795
0.451612903225806	14.36	13.83	12.01	10.49	9.233	3.786
0.483870967741936	14.21	13.58	11.93	10.47	9.195	3.771

0.516129032258065	14.15	13.55	11.7	10.44	9.167	3.752
0.548387096774194	13.48	12.9	11.69	10.4	9.141	3.712
0.580645161290323	13.44	12.86	11.4	10.22	8.824	3.611
0.612903225806452	13.39	12.77	11.38	9.979	8.784	3.594
0.645161290322581	13.3	12.69	11.35	9.909	8.752	3.554
0.67741935483871	13.28	12.66	11.18	9.884	8.712	3.53
0.709677419354839	13.22	12.6	11.14	9.696	8.668	3.521
0.741935483870968	13.22	12.6	11.14	9.585	8.624	3.494
0.774193548387097	13.2	12.58	10.98	9.463	8.572	3.431
0.806451612903226	13.2	12.58	10.79	9.353	8.488	3.4
0.838709677419355	13.19	12.56	10.77	9.164	8.462	3.348
0.870967741935484	13.17	12.53	10.77	9.097	8.298	3.065
0.903225806451613	13.15	12.51	10.75	9.02	7.943	2.973
0.935483870967742	13.09	12.45	10.71	8.869	7.723	2.817
0.967741935483871	13.01	12.35	10.52	8.334	6.978	1.927
0.1	18.792	17.934	15.978	11.99	10.898	4.4353
Average of yearly averages:						3.72153333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Conifers

Metfile: w24232.dvf

PRZM scenario: ORXmasTreeC.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.68	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	01-10	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as Corn.out

Chemical: chlorothalonil

PRZM environment: CAcornOP.txt modified Satday, 12 October 2002 at 16:32:58

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23232.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	17.67	16.93	14.3	9.441	7.368	3.133
1962	86.56	81.81	65.49	44.13	34.01	13.07
1963	18.64	17.89	15.52	13.8	11.91	6.716
1964	15.97	14.96	13.07	10.23	8.15	4.238
1965	15.75	14.77	12.86	10.12	8.102	3.615
1966	15.96	15.39	13.52	10.08	7.581	4.107
1967	16.5	15.46	13.7	10.87	8.836	4.885
1968	15.48	14.39	12.6	9.646	7.62	2.959
1969	15.64	14.64	12.79	10.08	8.058	3.933
1970	21.71	21.07	18.1	10.44	7.852	5.358
1971	16.32	15.23	13.43	10.41	8.274	3.842
1972	15.31	14.27	12.43	9.576	7.573	3.648
1973	15.26	14.17	12.46	9.561	7.555	4.435
1974	15.59	14.55	12.71	9.858	7.973	3.28
1975	15.06	14	12.21	9.39	7.417	2.467
1976	14.71	13.66	11.87	9.065	7.137	1.984
1977	16.04	14.98	13.1	10.1	8.015	3.15
1978	15.76	14.71	12.96	10.5	8.784	5.247
1979	15.53	14.44	12.72	9.828	7.808	4.167
1980	16.08	15.06	13.19	10.36	8.295	3.754
1981	20.76	19.64	16.62	12.09	8.53	5.005
1982	16.22	15.46	13.38	10.66	8.627	6.505
1983	16.04	14.97	13.22	10.31	8.26	5.279
1984	14.99	13.96	12.16	9.396	7.423	3.301
1985	15.29	14.19	12.42	9.438	7.419	3.128
1986	15.95	14.86	13.14	10.19	8.123	3.858
1987	15.17	14.12	12.32	9.511	7.564	2.993
1988	15.53	14.47	12.65	9.729	7.65	2.766
1989	15.32	14.28	12.44	9.612	7.603	3.856
1990	21.56	20.28	18	12.61	9.947	3.786

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	86.56	81.81	65.49	44.13	34.01	13.07	
0.0645161290322581		21.71	21.07	18.1	13.8	11.91	6.716
0.0967741935483871		21.56	20.28	18	12.61	9.947	6.505
0.129032258064516	20.76	19.64	16.62	12.09	8.836	5.358	
0.161290322580645	18.64	17.89	15.52	10.87	8.784	5.279	
0.193548387096774	17.67	16.93	14.3	10.66	8.627	5.247	
0.225806451612903	16.5	15.46	13.7	10.5	8.53	5.005	
0.258064516129032	16.32	15.46	13.52	10.44	8.295	4.885	
0.290322580645161	16.22	15.39	13.43	10.41	8.274	4.435	
0.32258064516129	16.08	15.23	13.38	10.36	8.26	4.238	
0.354838709677419	16.04	15.06	13.22	10.31	8.15	4.167	
0.387096774193548	16.04	14.98	13.19	10.23	8.123	4.107	
0.419354838709677	15.97	14.97	13.14	10.19	8.102	3.933	
0.451612903225806	15.96	14.96	13.1	10.12	8.058	3.858	
0.483870967741936	15.95	14.86	13.07	10.1	8.015	3.856	

0.516129032258065	15.76	14.77	12.96	10.08	7.973	3.842
0.548387096774194	15.75	14.71	12.86	10.08	7.852	3.786
0.580645161290323	15.64	14.64	12.79	9.858	7.808	3.754
0.612903225806452	15.59	14.55	12.72	9.828	7.65	3.648
0.645161290322581	15.53	14.47	12.71	9.729	7.62	3.615
0.67741935483871	15.53	14.44	12.65	9.646	7.603	3.301
0.709677419354839	15.48	14.39	12.6	9.612	7.581	3.28
0.741935483870968	15.32	14.28	12.46	9.576	7.573	3.15
0.774193548387097	15.31	14.27	12.44	9.561	7.564	3.133
0.806451612903226	15.29	14.19	12.43	9.511	7.555	3.128
0.838709677419355	15.26	14.17	12.42	9.441	7.423	2.993
0.870967741935484	15.17	14.12	12.32	9.438	7.419	2.959
0.903225806451613	15.06	14	12.21	9.396	7.417	2.766
0.935483870967742	14.99	13.96	12.16	9.39	7.368	2.467
0.967741935483871	14.71	13.66	11.87	9.065	7.137	1.984

0.1	21.48	20.216	17.862	12.558	9.8359	6.3903
Average of yearly averages:						4.28216666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Corn

Metfile: w23232.dvf

PRZM scenario: CAcornOP.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0	days		Half-life
Method:	CAM 2	integer		See PRZM manual
Incorporation Depth:	DEPI 0	cm		
Application Rate:	TAPP 1.68	kg/ha		
Application Efficiency:	APPEFF	0.95		fraction
Spray Drift	DRFT 0.05	fraction of application rate applied to pond		
Application Date	Date 01-05	dd/mm		or dd/mm or dd-mm or dd-mmm
Interval 1	interval 7	days		Set to 0 or delete line for single app.
Interval 2	interval 7	days		Set to 0 or delete line for single app.
Interval 3	interval 7	days		Set to 0 or delete line for single app.
Interval 4	interval 7	days		Set to 0 or delete line for single app.
Interval 5	interval 7	days		Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as DryBean.out

Chemical: chlorothalonil

PRZM environment: CARowCrop no_irrig.txt modified Monday, 16 April 2007 at 08:57:06

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	13.71	13.01	11.07	8.264	6.66	1.999
1962	13.4	12.74	10.81	7.971	6.45	3.091
1963	20.64	19.59	16.72	12.43	10.18	3.322
1964	12.99	12.31	10.41	7.682	6.218	1.92
1965	14.88	14.16	12.32	10.01	8.252	2.594
1966	13.18	12.53	10.61	7.804	6.302	2.061
1967	21.19	20.2	17.58	13.57	11.2	3.636
1968	14.01	13.28	11.35	8.369	6.727	2.009
1969	13.06	12.37	10.59	7.916	6.397	2.059
1970	12.84	12.11	10.25	7.535	6.071	2.024
1971	13.81	13.11	11.2	8.376	6.801	2.119
1972	12.85	12.17	10.29	7.596	6.129	2.312
1973	13.44	12.77	10.83	7.939	6.403	2.207
1974	17.94	16.99	14.14	10.5	8.504	2.642
1975	21.45	20.39	18.35	13.1	10.42	3.076
1976	12.99	12.32	10.45	7.765	6.265	1.817
1977	13.68	12.96	11.06	8.193	6.632	2.224
1978	15.95	15.15	13.3	11.09	9.271	2.838
1979	15.73	14.94	12.2	9.073	7.296	2.279
1980	13.1	12.41	10.55	7.86	6.382	2.013
1981	14.27	13.56	11.6	8.511	6.823	2.258
1982	27.51	26.23	23.66	17.07	13.87	4.569
1983	14.93	14.21	12.25	9.336	7.608	2.36
1984	12.78	12.07	10.18	7.434	5.948	1.939
1985	13.6	12.91	10.85	7.951	6.405	1.974
1986	15.78	14.94	12.99	9.883	7.894	2.324
1987	13.09	12.42	10.51	7.696	6.189	1.854
1988	12.66	11.94	10.1	9.157	7.713	2.379
1989	13.53	12.86	10.92	7.996	6.415	1.951
1990	12.99	12.32	10.43	7.685	6.213	1.816

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	27.51	26.23	23.66	17.07	13.87	4.569	
0.0645161290322581		21.45	20.39	18.35	13.57	11.2	3.636
0.0967741935483871		21.19	20.2	17.58	13.1	10.42	3.322
0.129032258064516	20.64	19.59	16.72	12.43	10.18	3.091	
0.161290322580645	17.94	16.99	14.14	11.09	9.271	3.076	
0.193548387096774	15.95	15.15	13.3	10.5	8.504	2.838	
0.225806451612903	15.78	14.94	12.99	10.01	8.252	2.642	
0.258064516129032	15.73	14.94	12.32	9.883	7.894	2.594	
0.290322580645161	14.93	14.21	12.25	9.336	7.713	2.379	
0.32258064516129	14.88	14.16	12.2	9.157	7.608	2.36	
0.354838709677419	14.27	13.56	11.6	9.073	7.296	2.324	
0.387096774193548	14.01	13.28	11.35	8.511	6.823	2.312	
0.419354838709677	13.81	13.11	11.2	8.376	6.801	2.279	
0.451612903225806	13.71	13.01	11.07	8.369	6.727	2.258	
0.483870967741936	13.68	12.96	11.06	8.264	6.66	2.224	

0.516129032258065	13.6	12.91	10.92	8.193	6.632	2.207
0.548387096774194	13.53	12.86	10.85	7.996	6.45	2.119
0.580645161290323	13.44	12.77	10.83	7.971	6.415	2.061
0.612903225806452	13.4	12.74	10.81	7.951	6.405	2.059
0.645161290322581	13.18	12.53	10.61	7.939	6.403	2.024
0.67741935483871	13.1	12.42	10.59	7.916	6.397	2.013
0.709677419354839	13.09	12.41	10.55	7.86	6.382	2.009
0.741935483870968	13.06	12.37	10.51	7.804	6.302	1.999
0.774193548387097	12.99	12.32	10.45	7.765	6.265	1.974
0.806451612903226	12.99	12.32	10.43	7.696	6.218	1.951
0.838709677419355	12.99	12.31	10.41	7.685	6.213	1.939
0.870967741935484	12.85	12.17	10.29	7.682	6.189	1.92
0.903225806451613	12.84	12.11	10.25	7.596	6.129	1.854
0.935483870967742	12.78	12.07	10.18	7.535	6.071	1.817
0.967741935483871	12.66	11.94	10.1	7.434	5.948	1.816

0.1	21.135	20.139	17.494	13.033	10.396	3.2989
Average of yearly averages:						2.38886666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: DryBean

Metfile: w23234.dvf

PRZM scenario: CARowCrop no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0	days		Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.68	kg/ha	
Application Efficiency:	APPEFF	0.95		fraction
Spray Drift	DRFT	0.05	fraction of	application rate applied to pond
Application Date	Date	07-03	dd/mm	or dd/mm or dd-mm or dd-mmm
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as DryBeanL.out

Chemical: chlorothalonil

PRZM environment: CARowCropLate no_irrig.txt modified Wedday, 27 June 2007
at 09:24:53

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at
16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	15.18	14.7	12.46	9.711	9.001	2.242
1962	43.43	41.3	36.15	24.84	20.09	6.901
1963	13.81	13.19	11.27	9.38	8.156	4.379
1964	13.18	12.6	11	9.685	8.421	3.403
1965	12.52	11.78	9.909	9.1	8.364	3.139
1966	14.06	13.67	12.4	10.7	9.682	3.979
1967	16.91	16.39	14.68	10.38	8.866	4.478
1968	12.66	11.95	10.09	8.562	7.634	3.217
1969	17.35	16.34	14.34	9.988	8.422	3.819
1970	17.42	16.65	14.54	10.59	9.836	3.978
1971	12.6	11.88	10.01	7.445	6.173	2.873
1972	22.98	21.73	19.91	17.29	14.34	4.007
1973	18.48	17.62	14.68	12.79	11.4	4.689
1974	12.59	11.86	9.991	7.408	6.12	3.25
1975	13.05	12.32	10.44	7.75	6.291	2.565
1976	13.63	11.76	9.886	7.413	6.244	2.127
1977	18.32	17.44	14.45	10.02	8.515	4.457
1978	12.6	11.88	10.01	7.924	6.648	3.554
1979	19.29	18.18	14.7	10.78	9.596	4.721
1980	12.55	11.81	10.64	8.405	7.007	3.688
1981	25.94	24.6	20.01	15.36	13.11	4.782
1982	27.46	26.18	21.7	15.52	12.88	6.958
1983	14.22	13.63	11.54	9.969	9.246	4.796
1984	19.61	18.63	15.71	12.69	10.93	4.015
1985	12.59	11.87	10	8.826	7.875	3.144
1986	12.57	11.84	9.961	7.28	5.912	2.913
1987	12.57	11.85	10.02	7.602	6.984	2.901
1988	12.7	11.99	10.12	7.837	6.91	2.551
1989	15.16	14.29	11.55	9.001	7.566	2.752
1990	12.37	11.62	9.735	7.133	5.986	2.259

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129	43.43	41.3	36.15	24.84	20.09	6.958		
0.0645161290322581			27.46	26.18	21.7	17.29	14.34	6.901
0.0967741935483871			25.94	24.6	20.01	15.52	13.11	4.796
0.129032258064516	22.98	21.73	19.91	15.36	12.88	4.782		
0.161290322580645	19.61	18.63	15.71	12.79	11.4	4.721		
0.193548387096774	19.29	18.18	14.7	12.69	10.93	4.689		
0.225806451612903	18.48	17.62	14.68	10.78	9.836	4.478		
0.258064516129032	18.32	17.44	14.68	10.7	9.682	4.457		
0.290322580645161	17.42	16.65	14.54	10.59	9.596	4.379		
0.32258064516129	17.35	16.39	14.45	10.38	9.246	4.015		
0.354838709677419	16.91	16.34	14.34	10.02	9.001	4.007		
0.387096774193548	15.18	14.7	12.46	9.988	8.866	3.979		
0.419354838709677	15.16	14.29	12.4	9.969	8.515	3.978		
0.451612903225806	14.22	13.67	11.55	9.711	8.422	3.819		
0.483870967741936	14.06	13.63	11.54	9.685	8.421	3.688		

0.516129032258065	13.81	13.19	11.27	9.38	8.364	3.554
0.548387096774194	13.63	12.6	11	9.1	8.156	3.403
0.580645161290323	13.18	12.32	10.64	9.001	7.875	3.25
0.612903225806452	13.05	11.99	10.44	8.826	7.634	3.217
0.645161290322581	12.7	11.95	10.12	8.562	7.566	3.144
0.67741935483871	12.66	11.88	10.09	8.405	7.007	3.139
0.709677419354839	12.6	11.88	10.02	7.924	6.984	2.913
0.741935483870968	12.6	11.87	10.01	7.837	6.91	2.901
0.774193548387097	12.59	11.86	10.01	7.75	6.648	2.873
0.806451612903226	12.59	11.85	10	7.602	6.291	2.752
0.838709677419355	12.57	11.84	9.991	7.445	6.244	2.565
0.870967741935484	12.57	11.81	9.961	7.413	6.173	2.551
0.903225806451613	12.55	11.78	9.909	7.408	6.12	2.259
0.935483870967742	12.52	11.76	9.886	7.28	5.986	2.242
0.967741935483871	12.37	11.62	9.735	7.133	5.912	2.127

0.1	25.644	24.313	20	15.504	13.087	4.7946
Average of yearly averages:						3.75123333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: DryBeanL

Metfile: w23234.dvf

PRZM scenario: CARowCropLate no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.68	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	01-10	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as Filbert.out

Chemical: chlorothalonil

PRZM environment: CAalmond_NirrigC.txt modified Thuday, 17 June 2004 at 08:13:20

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23232.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	22.47	21.32	17.37	12.51	9.868	2.791
1962	22.2	21.09	17.49	12.68	9.948	4.828
1963	31.19	29.69	25.97	21.64	18.07	5.713
1964	21.22	20.12	16.52	11.93	9.382	2.689
1965	21.49	20.42	16.84	12.83	10.34	3.011
1966	21.09	19.98	16.38	11.73	9.147	2.686
1967	25.64	24.37	20.71	16.39	13.42	4.01
1968	22.73	21.53	17.57	12.57	9.857	2.712
1969	21.35	20.22	16.61	13.28	10.75	3.07
1970	21.23	20.06	16.43	11.86	9.32	2.961
1971	22.67	21.51	17.69	12.94	10.3	3.09
1972	20.82	19.65	16.01	11.48	9.006	2.556
1973	21.53	20.45	17.31	12.61	9.857	2.789
1974	21.63	20.57	16.99	12.45	9.835	2.783
1975	26.52	25.24	22.22	16.36	13.05	3.591
1976	20.92	19.79	16.17	12	9.505	2.567
1977	21.81	20.89	17.06	12.29	9.71	2.751
1978	23.53	22.31	18.66	13.85	11.05	3.193
1979	24.31	23.06	19.33	14.06	11.19	3.134
1980	21.42	20.29	16.86	12.47	9.871	2.777
1981	27.5	26.15	22.5	15.84	12.62	3.649
1982	30.66	29.1	26.8	21.61	17.99	5.377
1983	29.17	27.79	23.74	17.59	14.51	4.213
1984	21.02	19.84	16.14	11.59	9.04	2.468
1985	21.24	20.16	16.64	12.13	9.519	2.695
1986	24.42	23.07	18.72	13.55	10.7	3.022
1987	24.54	23.28	19.62	14.02	10.89	2.959
1988	20.67	19.46	15.81	11.79	9.773	2.752
1989	23.62	22.52	19.24	13.93	10.94	3.092
1990	21.21	20.08	16.46	11.82	9.436	2.999

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	31.19	29.69	26.8	21.64	18.07	5.713	
0.0645161290322581		30.66	29.1	25.97	21.61	17.99	5.377
0.0967741935483871		29.17	27.79	23.74	17.59	14.51	4.828
0.129032258064516	27.5	26.15	22.5	16.39	13.42	4.213	
0.161290322580645	26.52	25.24	22.22	16.36	13.05	4.01	
0.193548387096774	25.64	24.37	20.71	15.84	12.62	3.649	
0.225806451612903	24.54	23.28	19.62	14.06	11.19	3.591	
0.258064516129032	24.42	23.07	19.33	14.02	11.05	3.193	
0.290322580645161	24.31	23.06	19.24	13.93	10.94	3.134	
0.32258064516129	23.62	22.52	18.72	13.85	10.89	3.092	
0.354838709677419	23.53	22.31	18.66	13.55	10.75	3.09	
0.387096774193548	22.73	21.53	17.69	13.28	10.7	3.07	
0.419354838709677	22.67	21.51	17.57	12.94	10.34	3.022	
0.451612903225806	22.47	21.32	17.49	12.83	10.3	3.011	
0.483870967741936	22.2	21.09	17.37	12.68	9.948	2.999	

0.516129032258065	21.81	20.89	17.31	12.61	9.871	2.961
0.548387096774194	21.63	20.57	17.06	12.57	9.868	2.959
0.580645161290323	21.53	20.45	16.99	12.51	9.857	2.791
0.612903225806452	21.49	20.42	16.86	12.47	9.857	2.789
0.645161290322581	21.42	20.29	16.84	12.45	9.835	2.783
0.67741935483871	21.35	20.22	16.64	12.29	9.773	2.777
0.709677419354839	21.24	20.16	16.61	12.13	9.71	2.752
0.741935483870968	21.23	20.12	16.52	12	9.519	2.751
0.774193548387097	21.22	20.08	16.46	11.93	9.505	2.712
0.806451612903226	21.21	20.06	16.43	11.86	9.436	2.695
0.838709677419355	21.09	19.98	16.38	11.82	9.382	2.689
0.870967741935484	21.02	19.84	16.17	11.79	9.32	2.686
0.903225806451613	20.92	19.79	16.14	11.73	9.147	2.567
0.935483870967742	20.82	19.65	16.01	11.59	9.04	2.556
0.967741935483871	20.67	19.46	15.81	11.48	9.006	2.468

0.1	29.003	27.626	23.616	17.47	14.401	4.7665
Average of yearly averages:						3.23093333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Filbert

Metfile: w23232.dvf

PRZM scenario: CAalmond_NirrigC.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	3.36	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as Garlic.out

Chemical: chlorothalonil

PRZM environment: CAGarlic no_irrig.txt modified Monday, 16 April 2007 at 08:58:10

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23188.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	25.25	23.85	21.07	17.2	14.27	4.367
1962	26.78	25.29	22.55	18.45	15.45	5.201
1963	25.9	24.44	21.64	17.6	14.61	4.989
1964	26.18	24.72	21.87	17.81	14.8	4.574
1965	35.91	33.86	32.23	26.13	21.13	8.576
1966	27.06	25.61	22.88	18.84	15.83	7.064
1967	27.53	25.95	23.22	18.82	15.66	6.048
1968	25.61	24.13	21.43	17.41	14.46	4.542
1969	27.01	25.56	22.94	19.08	16.12	6.039
1970	26.24	24.74	22.06	18.02	15.05	5.052
1971	27.02	25.56	22.89	18.63	15.49	5.344
1972	25.43	23.94	21.21	17.15	14.16	5.05
1973	26.29	24.84	22.07	18.06	15.02	4.845
1974	25.61	24.23	21.52	17.72	14.78	5.318
1975	31.13	29.45	27.31	22.37	18.53	5.922
1976	28.65	27.03	24.68	19.81	16.43	5.595
1977	50.4	47.65	38.15	27.68	23.45	8.564
1978	26.4	24.71	22.17	17.91	14.63	4.858
1979	26.92	25.37	22.97	19.23	15.92	5.657
1980	30.05	28.38	24.05	19.78	16.72	5.878
1981	26.22	24.66	22.02	17.92	14.82	4.845
1982	27.46	25.93	23.51	19.76	16.64	5.616
1983	27.86	26.2	23.79	19.87	16.53	5.282
1984	24.85	23.26	20.6	16.41	13.41	4.116
1985	25.93	24.46	21.48	17.42	14.42	6.81
1986	29.29	27.58	25.55	21.04	17.38	7.364
1987	26.11	24.65	22.01	18.05	14.91	5.385
1988	73.09	70.39	61.15	40.45	31.99	9.877
1989	25.1	23.66	20.96	17.03	14.1	4.24
1990	26.18	24.66	21.88	17.69	14.79	4.643

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	73.09	70.39	61.15	40.45	31.99	9.877
0.0645161290322581	50.4	47.65	38.15	27.68	23.45	8.576
0.0967741935483871	35.91	33.86	32.23	26.13	21.13	8.564
0.129032258064516	31.13	29.45	27.31	22.37	18.53	7.364
0.161290322580645	30.05	28.38	25.55	21.04	17.38	7.064
0.193548387096774	29.29	27.58	24.68	19.87	16.72	6.81
0.225806451612903	28.65	27.03	24.05	19.81	16.64	6.048
0.258064516129032	27.86	26.2	23.79	19.78	16.53	6.039
0.290322580645161	27.53	25.95	23.51	19.76	16.43	5.922
0.32258064516129	27.46	25.93	23.22	19.23	16.12	5.878
0.354838709677419	27.06	25.61	22.97	19.08	15.92	5.657
0.387096774193548	27.02	25.56	22.94	18.84	15.83	5.616
0.419354838709677	27.01	25.56	22.89	18.82	15.66	5.595
0.451612903225806	26.92	25.37	22.88	18.63	15.49	5.385
0.483870967741936	26.78	25.29	22.55	18.45	15.45	5.344

0.516129032258065	26.4	24.84	22.17	18.06	15.05	5.318
0.548387096774194	26.29	24.74	22.07	18.05	15.02	5.282
0.580645161290323	26.24	24.72	22.06	18.02	14.91	5.201
0.612903225806452	26.22	24.71	22.02	17.92	14.82	5.052
0.645161290322581	26.18	24.66	22.01	17.91	14.8	5.05
0.67741935483871	26.18	24.66	21.88	17.81	14.79	4.989
0.709677419354839	26.11	24.65	21.87	17.72	14.78	4.858
0.741935483870968	25.93	24.46	21.64	17.69	14.63	4.845
0.774193548387097	25.9	24.44	21.52	17.6	14.61	4.845
0.806451612903226	25.61	24.23	21.48	17.42	14.46	4.643
0.838709677419355	25.61	24.13	21.43	17.41	14.42	4.574
0.870967741935484	25.43	23.94	21.21	17.2	14.27	4.542
0.903225806451613	25.25	23.85	21.07	17.15	14.16	4.367
0.935483870967742	25.1	23.66	20.96	17.03	14.1	4.24
0.967741935483871	24.85	23.26	20.6	16.41	13.41	4.116

0.1	35.432	33.419	31.738	25.754	20.87	8.444
						Average of yearly averages: 5.72203333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Garlic

Metfile: w23188.dvf

PRZM scenario: CAGarlic no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0	days		Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	2.522	kg/ha	
Application Efficiency:	APPEFF	0.95		fraction
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	20-03	dd/mm	or dd/mm or dd-mm or dd-mmm
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.
Interval 4	interval	7	days	Set to 0 or delete line for single app.
Interval 5	interval	7	days	Set to 0 or delete line for single app.
Interval 6	interval	7	days	Set to 0 or delete line for single app.
Record 17:	FILTRA			
	IPSCND	1		
	UPTKF			
Record 18:	PLVKRT			
	PLDKRT			
	FEXTRC	0.5		
Flag for Index Res. Run	IR			Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as OnionB.out

Chemical: chlorothalonil

PRZM environment: CAonion_NirrigC.txt modified Tuesday, 8 June 2004 at 11:01:56

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23155.dvf modified Wedday, 3 July 2002 at 10:04:20

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	24.72	23.43	20.51	16.2	13.2	3.731
1962	33.02	31.38	29.08	23.2	18.6	5.207
1963	27.2	25.77	22.91	18.94	15.68	4.563
1964	24.21	22.94	20.03	16.01	13.15	3.754
1965	25.42	24.19	21.77	17.4	14.47	4.191
1966	25.57	24.17	21.2	16.89	13.66	3.944
1967	25.47	24.15	21.21	16.99	14.39	4.303
1968	24.67	23.31	20.23	16.16	13.22	3.761
1969	27.34	25.86	23	17.96	14.76	4.161
1970	25.09	23.67	20.69	16.48	13.37	3.834
1971	24.94	23.54	20.56	16.27	13.26	3.981
1972	23.68	22.23	19.26	15.3	12.35	3.746
1973	25.09	23.84	21.17	17.36	14.33	4.027
1974	33.55	31.74	25.48	19.49	15.95	4.811
1975	25.12	23.79	20.84	16.6	13.68	3.89
1976	24.23	22.89	19.95	15.96	13.04	3.659
1977	24.27	22.94	20.01	16.52	13.62	4.119
1978	43.06	40.91	39.27	32.54	25.84	7.169
1979	25.24	23.94	21.03	16.64	13.61	3.782
1980	25.55	24.22	21.07	16.75	13.79	3.941
1981	24.94	23.67	20.76	16.53	13.54	3.845
1982	24.99	23.87	21.21	17.15	14.2	4.071
1983	26.11	24.81	21.88	17.37	14.42	4.367
1984	24.55	23.2	20.25	16.19	13.29	3.785
1985	24.95	23.68	20.77	16.44	13.4	3.886
1986	25.56	24.21	21.12	16.69	13.7	3.914
1987	25.37	24.07	21.14	16.78	13.66	4.057
1988	23.79	22.38	19.42	15.52	12.69	3.62
1989	24.98	23.59	20.62	16.3	13.15	3.641
1990	24.77	23.4	20.44	16.11	13.04	3.628

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	43.06	40.91	39.27	32.54	25.84	7.169	
0.0645161290322581		33.55	31.74	29.08	23.2	18.6	5.207
0.0967741935483871		33.02	31.38	25.48	19.49	15.95	4.811
0.129032258064516	27.34	25.86	23	18.94	15.68	4.563	
0.161290322580645	27.2	25.77	22.91	17.96	14.76	4.367	
0.193548387096774	26.11	24.81	21.88	17.4	14.47	4.303	
0.225806451612903	25.57	24.22	21.77	17.37	14.42	4.191	
0.258064516129032	25.56	24.21	21.21	17.36	14.39	4.161	
0.290322580645161	25.55	24.19	21.21	17.15	14.33	4.119	
0.32258064516129	25.47	24.17	21.2	16.99	14.2	4.071	
0.354838709677419	25.42	24.15	21.17	16.89	13.79	4.057	
0.387096774193548	25.37	24.07	21.14	16.78	13.7	4.027	
0.419354838709677	25.24	23.94	21.12	16.75	13.68	3.981	
0.451612903225806	25.12	23.87	21.07	16.69	13.66	3.944	
0.483870967741936	25.09	23.84	21.03	16.64	13.66	3.941	

0.516129032258065	25.09	23.79	20.84	16.6	13.62	3.914
0.548387096774194	24.99	23.68	20.77	16.53	13.61	3.89
0.580645161290323	24.98	23.67	20.76	16.52	13.54	3.886
0.612903225806452	24.95	23.67	20.69	16.48	13.4	3.845
0.645161290322581	24.94	23.59	20.62	16.44	13.37	3.834
0.67741935483871	24.94	23.54	20.56	16.3	13.29	3.785
0.709677419354839	24.77	23.43	20.51	16.27	13.26	3.782
0.741935483870968	24.72	23.4	20.44	16.2	13.22	3.761
0.774193548387097	24.67	23.31	20.25	16.19	13.2	3.754
0.806451612903226	24.55	23.2	20.23	16.16	13.15	3.746
0.838709677419355	24.27	22.94	20.03	16.11	13.15	3.731
0.870967741935484	24.23	22.94	20.01	16.01	13.04	3.659
0.903225806451613	24.21	22.89	19.95	15.96	13.04	3.641
0.935483870967742	23.79	22.38	19.42	15.52	12.69	3.628
0.967741935483871	23.68	22.23	19.26	15.3	12.35	3.62

0.1	32.452	30.828	25.232	19.435	15.923	4.7862
Average of yearly averages:						4.11293333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: OnionB

Metfile: w23155.dvf

PRZM scenario: CAonion_NirrigC.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0	days		Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	2.522	kg/ha	
Application Efficiency:	APPEFF	0.95		fraction
Spray Drift	DRFT	0.05		fraction of application rate applied to pond
Application Date	Date	01-02	dd/mm	or dd/mm or dd-mm or dd-mmm
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.
Interval 4	interval	7	days	Set to 0 or delete line for single app.
Interval 5	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as OnionS.out

Chemical: chlorothalonil

PRZM environment: CAonion_NirrigC.txt modified Tuesday, 8 June 2004 at 11:01:56

EXAMS environment: pond298.exv modified Thursday, 29 August 2002 at 16:33:30

Metfile: w23155.dvf modified Wednesday, 3 July 2002 at 10:04:20

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	15.73	14.89	12.18	8.866	7	1.913
1962	24.51	23.4	20.44	15.06	11.88	3.265
1963	19.93	18.86	15.39	10.96	8.883	2.506
1964	15.68	14.81	12.09	8.773	6.949	1.91
1965	15.85	15.03	12.33	9.297	7.605	2.131
1966	16.74	15.91	13.21	9.572	7.501	2.082
1967	16.12	15.33	12.64	9.282	7.587	2.181
1968	15.83	14.99	12.29	8.925	7.061	1.937
1969	16	15.22	13.49	9.981	8.079	2.211
1970	16.88	15.98	13.13	9.343	7.343	2.019
1971	16	15.19	12.5	9.017	7.092	2.031
1972	15.73	14.87	12.16	8.587	6.65	1.92
1973	15.87	15.02	12.31	9.242	7.478	2.04
1974	15.77	14.94	12.23	10.11	8.237	2.402
1975	16.21	15.36	12.64	9.187	7.299	2.006
1976	15.94	15.08	12.36	8.879	6.99	1.894
1977	15.63	14.75	12.02	8.816	7.127	2.068
1978	41.95	39.85	35.6	24.26	18.79	5.144
1979	15.94	15.14	12.48	9.178	7.285	1.966
1980	15.88	15.21	12.48	9.267	7.398	2.039
1981	15.8	14.97	12.26	9.003	7.166	1.967
1982	15.82	14.99	12.29	9.146	7.456	2.067
1983	16.04	15.24	12.58	9.456	7.645	2.214
1984	15.93	15.11	12.42	9.003	7.123	1.955
1985	15.83	15	12.29	8.997	7.114	1.985
1986	15.97	15.16	12.46	9.164	7.29	2.01
1987	16.07	15.26	12.57	9.233	7.288	2.071
1988	15.72	14.84	12.11	8.595	6.731	1.845
1989	16.14	15.33	12.64	9.148	7.148	1.922
1990	15.87	15.06	12.37	8.95	7.018	1.893

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	41.95	39.85	35.6	24.26	18.79	5.144	
0.0645161290322581		24.51	23.4	20.44	15.06	11.88	3.265
0.0967741935483871		19.93	18.86	15.39	10.96	8.883	2.506
0.129032258064516	16.88	15.98	13.49	10.11	8.237	2.402	
0.161290322580645	16.74	15.91	13.21	9.981	8.079	2.214	
0.193548387096774	16.21	15.36	13.13	9.572	7.645	2.211	
0.225806451612903	16.14	15.33	12.64	9.456	7.605	2.181	
0.258064516129032	16.12	15.33	12.64	9.343	7.587	2.131	
0.290322580645161	16.07	15.26	12.64	9.297	7.501	2.082	
0.32258064516129	16.04	15.24	12.58	9.282	7.478	2.071	
0.354838709677419	16	15.22	12.57	9.267	7.456	2.068	
0.387096774193548	16	15.21	12.5	9.242	7.398	2.067	
0.419354838709677	15.97	15.19	12.48	9.233	7.343	2.04	
0.451612903225806	15.94	15.16	12.48	9.187	7.299	2.039	
0.483870967741936	15.94	15.14	12.46	9.178	7.29	2.031	

0.516129032258065	15.93	15.11	12.42	9.164	7.288	2.019
0.548387096774194	15.88	15.08	12.37	9.148	7.285	2.01
0.580645161290323	15.87	15.06	12.36	9.146	7.166	2.006
0.612903225806452	15.87	15.03	12.33	9.017	7.148	1.985
0.645161290322581	15.85	15.02	12.31	9.003	7.127	1.967
0.67741935483871	15.83	15	12.29	9.003	7.123	1.966
0.709677419354839	15.83	14.99	12.29	8.997	7.114	1.955
0.741935483870968	15.82	14.99	12.29	8.95	7.092	1.937
0.774193548387097	15.8	14.97	12.26	8.925	7.061	1.922
0.806451612903226	15.77	14.94	12.23	8.879	7.018	1.92
0.838709677419355	15.73	14.89	12.18	8.866	7	1.913
0.870967741935484	15.73	14.87	12.16	8.816	6.99	1.91
0.903225806451613	15.72	14.84	12.11	8.773	6.949	1.894
0.935483870967742	15.68	14.81	12.09	8.595	6.731	1.893
0.967741935483871	15.63	14.75	12.02	8.587	6.65	1.845
0.1	19.625	18.572	15.2	10.875	8.8184	2.4956
Average of yearly averages:						2.18646666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: OnionS

Metfile: w23155.dvf

PRZM scenario: CAonion_NirrigC.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	2.522	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	01-02	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as OnionSL.out

Chemical: chlorothalonil

PRZM environment: CAonion_NirrigC.txt modified Tuesday, 8 June 2004 at 11:01:56

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23155.dvf modified Wedday, 3 July 2002 at 10:04:20

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	14.61	13.5	10.72	7.328	5.821	1.57
1962	14.53	13.39	10.61	7.276	5.653	2.011
1963	16.04	14.81	11.75	8.095	6.419	2.038
1964	14.65	13.54	10.72	7.304	5.803	1.763
1965	14.82	13.75	10.95	7.357	5.976	1.891
1966	14.7	13.6	10.81	7.368	6.093	2.433
1967	14.42	13.25	10.45	7	5.868	2.18
1968	14.51	13.36	10.58	7.998	6.528	2.062
1969	14.22	13.01	10.24	7.011	5.527	1.742
1970	14.4	13.23	10.43	7.039	6.105	1.988
1971	14.52	13.37	10.59	7.253	5.646	2
1972	14.69	13.59	10.81	7.78	6.661	2.083
1973	14.5	13.35	10.56	7.106	5.498	1.888
1974	22.45	20.97	16.04	11.91	10.03	3.057
1975	14.16	12.94	10.15	6.879	5.311	2.032
1976	14.9	13.76	11.13	7.538	5.786	1.645
1977	14.51	13.35	10.53	7.022	5.359	1.697
1978	14.64	13.52	10.69	7.008	5.33	2.71
1979	14.22	13.01	10.21	6.85	5.256	1.564
1980	14.53	13.39	10.58	7.051	5.392	1.615
1981	14.36	13.19	11.73	8.549	6.762	1.944
1982	14.7	13.87	11.28	7.857	6.431	2.018
1983	14.45	13.28	10.49	7.083	5.852	2.18
1984	14.34	13.16	10.39	7.195	5.75	2.003
1985	15.01	13.98	11.21	7.778	7.055	2.298
1986	14.97	13.94	11.16	7.679	6.04	2.055
1987	14.59	13.47	10.66	8.109	7.612	2.922
1988	14.43	13.26	10.45	6.974	5.36	1.91
1989	14.75	13.64	10.83	7.333	5.649	1.646
1990	14.54	13.4	10.59	7.058	5.408	1.56

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	22.45	20.97	16.04	11.91	10.03	3.057	
0.0645161290322581		16.04	14.81	11.75	8.549	7.612	2.922
0.0967741935483871		15.01	13.98	11.73	8.109	7.055	2.71
0.129032258064516	14.97	13.94	11.28	8.095	6.762	2.433	
0.161290322580645	14.9	13.87	11.21	7.998	6.661	2.298	
0.193548387096774	14.82	13.76	11.16	7.857	6.528	2.18	
0.225806451612903	14.75	13.75	11.13	7.78	6.431	2.18	
0.258064516129032	14.7	13.64	10.95	7.778	6.419	2.083	
0.290322580645161	14.7	13.6	10.83	7.679	6.105	2.062	
0.32258064516129	14.69	13.59	10.81	7.538	6.093	2.055	
0.354838709677419	14.65	13.54	10.81	7.368	6.04	2.038	
0.387096774193548	14.64	13.52	10.72	7.357	5.976	2.032	
0.419354838709677	14.61	13.5	10.72	7.333	5.868	2.018	
0.451612903225806	14.59	13.47	10.69	7.328	5.852	2.011	
0.483870967741936	14.54	13.4	10.66	7.304	5.821	2.003	

0.516129032258065	14.53	13.39	10.61	7.276	5.803	2
0.548387096774194	14.53	13.39	10.59	7.253	5.786	1.988
0.580645161290323	14.52	13.37	10.59	7.195	5.75	1.944
0.612903225806452	14.51	13.36	10.58	7.106	5.653	1.91
0.645161290322581	14.51	13.35	10.58	7.083	5.649	1.891
0.67741935483871	14.5	13.35	10.56	7.058	5.646	1.888
0.709677419354839	14.45	13.28	10.53	7.051	5.527	1.763
0.741935483870968	14.43	13.26	10.49	7.039	5.498	1.742
0.774193548387097	14.42	13.25	10.45	7.022	5.408	1.697
0.806451612903226	14.4	13.23	10.45	7.011	5.392	1.646
0.838709677419355	14.36	13.19	10.43	7.008	5.36	1.645
0.870967741935484	14.34	13.16	10.39	7	5.359	1.615
0.903225806451613	14.22	13.01	10.24	6.974	5.33	1.57
0.935483870967742	14.22	13.01	10.21	6.879	5.311	1.564
0.967741935483871	14.16	12.94	10.15	6.85	5.256	1.56
0.1	15.006	13.976	11.685	8.1076	7.0257	2.6823
Average of yearly averages:						2.01683333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: OnionSL

Metfile: w23155.dvf

PRZM scenario: CAonion_NirrigC.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	2.522	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	09-09	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as Ornament.out

Chemical: chlorothalonil

PRZM environment: CANursery no_irrig.txt modified Monday, 16 April 2007 at 14:26:46

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23188.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	20.06	19.2	16.09	7.516	5.218	2.97
1962	38.46	36.55	31.07	23.42	19.43	7.614
1963	37.16	35.24	28.52	17.5	16.99	8.211
1964	12.71	12.16	10.29	8.264	6.803	3.819
1965	144	137	118	84.23	56.41	19.11
1966	89.36	85.13	70.17	49.01	38.91	17.46
1967	59.57	56.58	47.83	29.88	20.14	12.37
1968	33.57	32.03	26.51	18.24	15.8	6.385
1969	84.49	80.72	69.27	53.43	43.45	14.21
1970	35.34	33.66	28.45	16.24	13.45	7.678
1971	23.53	22.53	18.89	14.4	12.48	8.127
1972	33	31.28	27.23	19.43	13.17	6.236
1973	15.91	15.28	12.96	9.141	7.737	4.857
1974	76.39	72.86	60.22	28.55	19.61	10.77
1975	40.7	38.92	32.47	22.67	20.88	9.544
1976	38.92	36.88	30.62	21.44	19.3	10.36
1977	155	148	119	74.86	56.17	25.85
1978	25.31	24.09	17.17	11.46	9.91	5.696
1979	40.75	38.64	31.17	24.86	21.43	8.589
1980	45.75	43.44	35.21	28.77	25.14	9.143
1981	94.38	89.87	74.57	37.1	24.91	11.39
1982	47.33	45.33	38.36	28.33	27.73	13.85
1983	17.7	16.88	14.39	13.14	12.43	6.074
1984	31.44	29.76	16.69	7.462	5.113	3.052
1985	197	188	157	112	74.81	22.99
1986	85.06	81.12	66.91	48.47	40.64	22.33
1987	30.05	28.57	21.93	17.25	14.37	8.315
1988	65.89	62.64	52.04	35.99	28.51	13.21
1989	27.61	26.35	13.07	9.143	7.596	4.271
1990	27.12	25.98	23.18	18.37	15.22	6.358

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	197	188	157	112	74.81	25.85
0.0645161290322581	155	148	119	84.23	56.41	22.99
0.0967741935483871	144	137	118	74.86	56.17	22.33
0.129032258064516	94.38	89.87	74.57	53.43	43.45	19.11
0.161290322580645	89.36	85.13	70.17	49.01	40.64	17.46
0.193548387096774	85.06	81.12	69.27	48.47	38.91	14.21
0.225806451612903	84.49	80.72	66.91	37.1	28.51	13.85
0.258064516129032	76.39	72.86	60.22	35.99	27.73	13.21
0.290322580645161	65.89	62.64	52.04	29.88	25.14	12.37
0.32258064516129	59.57	56.58	47.83	28.77	24.91	11.39
0.354838709677419	47.33	45.33	38.36	28.55	21.43	10.77
0.387096774193548	45.75	43.44	35.21	28.33	20.88	10.36
0.419354838709677	40.75	38.92	32.47	24.86	20.14	9.544
0.451612903225806	40.7	38.64	31.17	23.42	19.61	9.143
0.483870967741936	38.92	36.88	31.07	22.67	19.43	8.589

0.516129032258065	38.46	36.55	30.62	21.44	19.3	8.315
0.548387096774194	37.16	35.24	28.52	19.43	16.99	8.211
0.580645161290323	35.34	33.66	28.45	18.37	15.8	8.127
0.612903225806452	33.57	32.03	27.23	18.24	15.22	7.678
0.645161290322581	33	31.28	26.51	17.5	14.37	7.614
0.67741935483871	31.44	29.76	23.18	17.25	13.45	6.385
0.709677419354839	30.05	28.57	21.93	16.24	13.17	6.358
0.741935483870968	27.61	26.35	18.89	14.4	12.48	6.236
0.774193548387097	27.12	25.98	17.17	13.14	12.43	6.074
0.806451612903226	25.31	24.09	16.69	11.46	9.91	5.696
0.838709677419355	23.53	22.53	16.09	9.143	7.737	4.857
0.870967741935484	20.06	19.2	14.39	9.141	7.596	4.271
0.903225806451613	17.7	16.88	13.07	8.264	6.803	3.819
0.935483870967742	15.91	15.28	12.96	7.516	5.218	3.052
0.967741935483871	12.71	12.16	10.29	7.462	5.113	2.97

0.1	139.038	132.287	113.657	72.717	54.898	22.008
						Average of yearly averages: 10.3613

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Ornament

Metfile: w23188.dvf

PRZM scenario: CANursery no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.723	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	15-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.
Interval 4	interval	7	days	Set to 0 or delete line for single app.
Interval 5	interval	7	days	Set to 0 or delete line for single app.
Interval 6	interval	7	days	Set to 0 or delete line for single app.
Interval 7	interval	7	days	Set to 0 or delete line for single app.
Interval 8	interval	7	days	Set to 0 or delete line for single app.
Interval 9	interval	7	days	Set to 0 or delete line for single app.
Interval 10	interval	7	days	Set to 0 or delete line for single app.
Interval 11	interval	7	days	Set to 0 or delete line for single app.
Interval 12	interval	7	days	Set to 0 or delete line for single app.
Interval 13	interval	7	days	Set to 0 or delete line for single app.

Interval 14 interval	7	days	Set to 0 or delete line for single app.
Interval 15 interval	7	days	Set to 0 or delete line for single app.
Interval 16 interval	7	days	Set to 0 or delete line for single app.
Interval 17 interval	7	days	Set to 0 or delete line for single app.
Interval 18 interval	7	days	Set to 0 or delete line for single app.
Interval 19 interval	7	days	Set to 0 or delete line for single app.
Interval 20 interval	7	days	Set to 0 or delete line for single app.
Interval 21 interval	7	days	Set to 0 or delete line for single app.
Interval 22 interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA
 IPSCND 1
 UPTKF

Record 18: PLVKRT
 PLDKRT
 FEXTRC 0.5

Flag for Index Res. Run IR Pond
 Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as Passion.out

Chemical: chlorothalonil

PRZM environment: CACitrus_NirrigC.txt modified Thuday, 17 June 2004 at 08:14:54

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23155.dvf modified Wedday, 3 July 2002 at 10:04:20

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	2.192	2.057	1.786	1.518	1.294	0.3766
1962	5.248	5.005	4.508	3.792	3.257	0.9175
1963	2.644	2.508	2.256	2.123	1.972	0.5756
1964	2.208	2.079	1.795	1.522	1.301	0.3843
1965	2.305	2.177	1.873	1.577	1.353	0.4013
1966	2.195	2.054	1.798	1.564	1.345	0.438
1967	2.581	2.462	2.08	1.763	1.527	0.4829
1968	2.142	2.007	1.734	1.477	1.257	0.3622
1969	2.458	2.311	2.01	1.75	1.491	0.4257
1970	2.216	2.088	1.802	1.566	1.357	0.396
1971	2.178	2.051	1.76	1.507	1.322	0.4549
1972	2.083	1.955	1.665	1.425	1.217	0.3788
1973	2.302	2.161	1.908	1.647	1.413	0.424
1974	2.34	2.202	1.947	1.7	1.427	0.4559
1975	2.275	2.152	1.855	1.595	1.377	0.4133
1976	2.176	2.049	1.759	1.497	1.276	0.3649
1977	2.4	2.267	1.992	1.618	1.368	0.4093
1978	3.771	3.579	3.175	2.858	2.587	0.7538
1979	2.224	2.091	1.816	1.547	1.316	0.3756
1980	2.233	2.105	1.819	1.549	1.328	0.3977
1981	2.215	2.08	1.811	1.538	1.308	0.3739
1982	2.258	2.125	1.851	1.571	1.334	0.388
1983	2.389	2.264	1.976	1.714	1.488	0.4635
1984	2.206	2.083	1.785	1.523	1.305	0.3828
1985	2.199	2.062	1.797	1.528	1.299	0.3766
1986	2.228	2.103	1.809	1.542	1.323	0.3861
1987	2.313	2.168	1.927	1.702	1.482	0.5146
1988	2.14	2.017	1.716	1.465	1.258	0.3712
1989	2.125	1.986	1.723	1.474	1.252	0.3603
1990	2.152	2.017	1.743	1.49	1.27	0.3668

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	5.248	5.005	4.508	3.792	3.257	0.9175
0.0645161290322581	3.771	3.579	3.175	2.858	2.587	0.7538
0.0967741935483871	2.644	2.508	2.256	2.123	1.972	0.5756
0.129032258064516	2.581	2.462	2.08	1.763	1.527	0.5146
0.161290322580645	2.458	2.311	2.01	1.75	1.491	0.4829
0.193548387096774	2.4	2.267	1.992	1.714	1.488	0.4635
0.225806451612903	2.389	2.264	1.976	1.702	1.482	0.4559
0.258064516129032	2.34	2.202	1.947	1.7	1.427	0.4549
0.290322580645161	2.313	2.177	1.927	1.647	1.413	0.438
0.32258064516129	2.305	2.168	1.908	1.618	1.377	0.4257
0.354838709677419	2.302	2.161	1.873	1.595	1.368	0.424
0.387096774193548	2.275	2.152	1.855	1.577	1.357	0.4133
0.419354838709677	2.258	2.125	1.851	1.571	1.353	0.4093
0.451612903225806	2.233	2.105	1.819	1.566	1.345	0.4013
0.483870967741936	2.228	2.103	1.816	1.564	1.334	0.3977

0.516129032258065	2.224	2.091	1.811	1.549	1.328	0.396
0.548387096774194	2.216	2.088	1.809	1.547	1.323	0.388
0.580645161290323	2.215	2.083	1.802	1.542	1.322	0.3861
0.612903225806452	2.208	2.08	1.798	1.538	1.316	0.3843
0.645161290322581	2.206	2.079	1.797	1.528	1.308	0.3828
0.67741935483871	2.199	2.062	1.795	1.523	1.305	0.3788
0.709677419354839	2.195	2.057	1.786	1.522	1.301	0.3766
0.741935483870968	2.192	2.054	1.785	1.518	1.299	0.3766
0.774193548387097	2.178	2.051	1.76	1.507	1.294	0.3756
0.806451612903226	2.176	2.049	1.759	1.497	1.276	0.3739
0.838709677419355	2.152	2.017	1.743	1.49	1.27	0.3712
0.870967741935484	2.142	2.017	1.734	1.477	1.258	0.3668
0.903225806451613	2.14	2.007	1.723	1.474	1.257	0.3649
0.935483870967742	2.125	1.986	1.716	1.465	1.252	0.3622
0.967741935483871	2.083	1.955	1.665	1.425	1.217	0.3603
0.1	2.6377	2.5034	2.2384	2.087	1.9275	0.5695
			Average of yearly averages:			0.43907

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Passion

Metfile: w23155.dvf

PRZM scenario: CAcitrus_NirrigC.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0	days		Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.68	kg/ha	
Application Efficiency:	APPEFF	0.99		fraction
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	15-02	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	14	days	Set to 0 or delete line for single app.
Interval 2	interval	14	days	Set to 0 or delete line for single app.
Interval 3	interval	14	days	Set to 0 or delete line for single app.
Interval 4	interval	14	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as Peanut.out

Chemical: chlorothalonil

PRZM environment: CAPotato no_irrig.txt modified Monday, 16 April 2007 at 08:57:34

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23155.dvf modified Wedday, 3 July 2002 at 10:04:20

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	6.515	5.948	5.001	4.707	4.533	1.584
1962	6.691	6.126	5.185	4.943	4.771	2.005
1963	6.915	6.347	5.431	5.233	4.993	1.968
1964	6.677	6.101	5.199	4.957	4.759	1.694
1965	6.864	6.28	5.376	5.157	4.908	1.744
1966	6.748	6.182	5.252	5.015	4.759	1.846
1967	6.694	6.194	5.24	4.884	4.692	1.774
1968	6.684	6.139	5.147	4.75	4.574	1.739
1969	6.567	6.038	5.102	4.771	4.594	1.652
1970	6.34	5.806	4.865	4.592	4.438	1.62
1971	6.694	6.153	5.148	4.831	4.739	1.642
1972	6.542	5.97	5.036	4.796	4.588	1.702
1973	6.488	5.919	4.973	4.676	4.469	1.71
1974	6.449	5.87	4.946	4.717	4.517	1.841
1975	6.574	6.003	5.069	4.788	4.573	1.787
1976	6.773	6.231	5.238	4.835	4.65	1.659
1977	6.881	6.258	5.119	4.715	4.554	1.628
1978	8.178	7.761	6.381	4.755	4.632	2.54
1979	6.635	6.077	5.117	4.763	4.55	1.605
1980	6.802	6.259	5.338	5.044	4.852	1.78
1981	6.361	5.782	4.852	4.589	4.414	1.588
1982	6.481	5.932	5.007	4.752	4.561	1.721
1983	7.408	6.778	5.619	5.257	5.02	1.956
1984	6.657	6.087	5.182	4.927	4.715	1.727
1985	6.765	6.212	5.247	4.885	4.69	1.759
1986	6.724	6.157	5.237	5.001	4.752	1.725
1987	6.985	6.403	5.507	5.198	4.91	2.006
1988	6.63	6.125	5.145	4.823	4.667	1.713
1989	6.712	6.15	5.202	4.932	4.72	1.671
1990	6.59	6.027	5.074	4.818	4.63	1.62

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	8.178	7.761	6.381	5.257	5.02	2.54
0.0645161290322581	7.408	6.778	5.619	5.233	4.993	2.006
0.0967741935483871	6.985	6.403	5.507	5.198	4.91	2.005
0.129032258064516	6.915	6.347	5.431	5.157	4.908	1.968
0.161290322580645	6.881	6.28	5.376	5.044	4.852	1.956
0.193548387096774	6.864	6.259	5.338	5.015	4.771	1.846
0.225806451612903	6.802	6.258	5.252	5.001	4.759	1.841
0.258064516129032	6.773	6.231	5.247	4.957	4.759	1.787
0.290322580645161	6.765	6.212	5.24	4.943	4.752	1.78
0.32258064516129	6.748	6.194	5.238	4.932	4.739	1.774
0.354838709677419	6.724	6.182	5.237	4.927	4.72	1.759
0.387096774193548	6.712	6.157	5.202	4.885	4.715	1.744
0.419354838709677	6.694	6.153	5.199	4.884	4.692	1.739
0.451612903225806	6.694	6.15	5.185	4.835	4.69	1.727
0.483870967741936	6.691	6.139	5.182	4.831	4.667	1.725

0.516129032258065	6.684	6.126	5.148	4.823	4.65	1.721
0.548387096774194	6.677	6.125	5.147	4.818	4.632	1.713
0.580645161290323	6.657	6.101	5.145	4.796	4.63	1.71
0.612903225806452	6.635	6.087	5.119	4.788	4.594	1.702
0.645161290322581	6.63	6.077	5.117	4.771	4.588	1.694
0.67741935483871	6.59	6.038	5.102	4.763	4.574	1.671
0.709677419354839	6.574	6.027	5.074	4.755	4.573	1.659
0.741935483870968	6.567	6.003	5.069	4.752	4.561	1.652
0.774193548387097	6.542	5.97	5.036	4.75	4.554	1.642
0.806451612903226	6.515	5.948	5.007	4.717	4.55	1.628
0.838709677419355	6.488	5.932	5.001	4.715	4.533	1.62
0.870967741935484	6.481	5.919	4.973	4.707	4.517	1.62
0.903225806451613	6.449	5.87	4.946	4.676	4.469	1.605
0.935483870967742	6.361	5.806	4.865	4.592	4.438	1.588
0.967741935483871	6.34	5.782	4.852	4.589	4.414	1.584

0.1	6.978	6.3974	5.4994	5.1939	4.9098	2.0013
Average of yearly averages:						1.76686666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Peanut

Metfile: w23155.dvf

PRZM scenario: CAPotato no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0	days		Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.26	kg/ha	
Application Efficiency:	APPEFF	0.95		fraction
Spray Drift	DRFT	0.05		fraction of application rate applied to pond
Application Date	Date	15-05	dd/mm	or dd/mm or dd-mm or dd-mmm
Interval 1	interval	14	days	Set to 0 or delete line for single app.
Interval 2	interval	14	days	Set to 0 or delete line for single app.
Interval 3	interval	14	days	Set to 0 or delete line for single app.
Interval 4	interval	14	days	Set to 0 or delete line for single app.
Interval 5	interval	14	days	Set to 0 or delete line for single app.
Interval 6	interval	14	days	Set to 0 or delete line for single app.
Interval 7	interval	14	days	Set to 0 or delete line for single app.

Molecular weight mwt 265.9 g/mol

Henry's Law Const. henry 2.6E-7 atm-m³/mol

Vapor Pressure vapr 5.72E-7 torr

Solubility sol 0.8 mg/L

Kd Kd 19.5 mg/L

Koc Koc mg/L

Photolysis half-life kdp 0.4 days Half-life

Aerobic Aquatic Metabolism kbacw 35.2 days Halfife

Anaerobic Aquatic Metabolism kbacs 15 days Halfife

Aerobic Soil Metabolism asm 71 days Halfife

Hydrolysis: pH 7 0 days Half-life

Method: CAM 2 integer See PRZM manual

Incorporation Depth: DEPI 0 cm

Application Rate: TAPP 1.26 kg/ha

Application Efficiency: APPEFF 0.95 fraction

Spray Drift DRFT 0.05 fraction of application rate applied to pond

Application Date Date 15-05 dd/mm or dd/mm or dd-mm or dd-mmm

Interval 1 interval 14 days Set to 0 or delete line for single app.

Interval 2 interval 14 days Set to 0 or delete line for single app.

Interval 3 interval 14 days Set to 0 or delete line for single app.

Interval 4 interval 14 days Set to 0 or delete line for single app.

Interval 5 interval 14 days Set to 0 or delete line for single app.

Interval 6 interval 14 days Set to 0 or delete line for single app.

Interval 7 interval 14 days Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond
Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as Potato.out

Chemical: chlorothalonil

PRZM environment: CAPotato no_irrig.txt modified Monday, 16 April 2007 at 08:57:34

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23155.dvf modified Wedday, 3 July 2002 at 10:04:20

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	18.26	17.13	15.64	12.55	10.31	2.869
1962	19.51	18.29	16.99	13.87	11.45	3.223
1963	18.6	17.63	16.08	13.25	11.06	3.168
1964	18.18	17.11	15.56	12.56	10.39	2.935
1965	20.03	18.91	16.51	13.4	11.09	3.136
1966	17.95	16.79	15.4	12.35	10.05	2.837
1967	18.62	17.77	16.33	13.61	11.41	3.307
1968	17.72	16.61	15.16	12.15	9.987	2.801
1969	18.57	17.95	16.33	13.42	11.03	3.052
1970	17.76	16.73	15.22	12.41	10.19	2.815
1971	17.73	16.7	15.18	12.36	10.22	3.061
1972	16.91	15.87	14.44	11.69	9.615	2.686
1973	18.71	17.57	16.07	12.89	10.5	2.903
1974	19.26	18.11	16.83	13.66	11.09	3.147
1975	18.37	17.37	15.82	12.95	10.69	3.008
1976	17.81	16.77	15.24	12.36	10.16	2.796
1977	19.34	18.08	16.56	12.88	10.53	2.948
1978	19.01	17.98	16.53	13.78	11.49	3.293
1979	18.61	17.5	16	12.87	10.51	2.887
1980	18.69	17.62	16.11	13.13	10.86	3.1
1981	18.5	17.38	15.87	12.74	10.43	2.876
1982	19.02	17.9	16.42	13.16	10.74	2.989
1983	19.62	18.59	17.06	13.85	11.47	3.292
1984	17.92	16.92	15.38	12.53	10.37	2.915
1985	18.42	17.27	15.79	12.62	10.33	2.889
1986	18.36	17.33	15.8	12.86	10.6	2.968
1987	18.39	17.22	15.78	12.61	10.29	2.975
1988	17.31	16.32	14.8	12.06	10.01	2.834
1989	17.73	16.57	15.2	12.16	9.885	2.734
1990	17.81	16.7	15.26	12.27	10.04	2.782

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	20.03	18.91	17.06	13.87	11.49	3.307
0.0645161290322581		19.62	18.59	16.99	13.85	11.47 3.293
0.0967741935483871		19.51	18.29	16.83	13.78	11.45 3.292
0.129032258064516	19.34	18.11	16.56	13.66	11.41	3.223
0.161290322580645	19.26	18.08	16.53	13.61	11.09	3.168
0.193548387096774	19.02	17.98	16.51	13.42	11.09	3.147
0.225806451612903	19.01	17.95	16.42	13.4	11.06	3.136
0.258064516129032	18.71	17.9	16.33	13.25	11.03	3.1
0.290322580645161	18.69	17.77	16.33	13.16	10.86	3.061
0.32258064516129	18.62	17.63	16.11	13.13	10.74	3.052
0.354838709677419	18.61	17.62	16.08	12.95	10.69	3.008
0.387096774193548	18.6	17.57	16.07	12.89	10.6	2.989
0.419354838709677	18.57	17.5	16	12.88	10.53	2.975
0.451612903225806	18.5	17.38	15.87	12.87	10.51	2.968
0.483870967741936	18.42	17.37	15.82	12.86	10.5	2.948

0.516129032258065	18.39	17.33	15.8	12.74	10.43	2.935
0.548387096774194	18.37	17.27	15.79	12.62	10.39	2.915
0.580645161290323	18.36	17.22	15.78	12.61	10.37	2.903
0.612903225806452	18.26	17.13	15.64	12.56	10.33	2.889
0.645161290322581	18.18	17.11	15.56	12.55	10.31	2.887
0.67741935483871	17.95	16.92	15.4	12.53	10.29	2.876
0.709677419354839	17.92	16.79	15.38	12.41	10.22	2.869
0.741935483870968	17.81	16.77	15.26	12.36	10.19	2.837
0.774193548387097	17.81	16.73	15.24	12.36	10.16	2.834
0.806451612903226	17.76	16.7	15.22	12.35	10.05	2.815
0.838709677419355	17.73	16.7	15.2	12.27	10.04	2.801
0.870967741935484	17.73	16.61	15.18	12.16	10.01	2.796
0.903225806451613	17.72	16.57	15.16	12.15	9.987	2.782
0.935483870967742	17.31	16.32	14.8	12.06	9.885	2.734
0.967741935483871	16.91	15.87	14.44	11.69	9.615	2.686
0.1	19.493	18.272	16.803	13.768	11.446	3.2851
Average of yearly averages:						2.9742

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Potato

Metfile: w23155.dvf

PRZM scenario: CAPotato no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.26	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	17-02	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	5	days	Set to 0 or delete line for single app.
Interval 2	interval	5	days	Set to 0 or delete line for single app.
Interval 3	interval	5	days	Set to 0 or delete line for single app.
Interval 4	interval	5	days	Set to 0 or delete line for single app.
Interval 5	interval	5	days	Set to 0 or delete line for single app.
Interval 6	interval	5	days	Set to 0 or delete line for single app.
Interval 7	interval	5	days	Set to 0 or delete line for single app.
Interval 8	interval	5	days	Set to 0 or delete line for single app.
Interval 9	interval	5	days	Set to 0 or delete line for single app.
Record 17:	FILTRA			
	IPSCND	1		
	UPTKF			
Record 18:	PLVKRT			

PLDKRT
FEXTRC 0.5
Flag for Index Res. Run IR Pond
Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as Roses.out

Chemical: chlorothalonil

PRZM environment: CANursery no_irrig.txt modified Monday, 16 April 2007 at 14:26:46

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23188.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	16.58	15.87	13.3	6.282	4.467	2.403
1962	31.66	30.09	25.58	19.27	15.91	6.23
1963	32.57	30.89	25.01	15.3	14.52	6.846
1964	11.18	10.69	9.057	7.268	5.947	3.21
1965	120	115	98.85	70.55	47.35	15.72
1966	74.79	71.25	58.73	41.02	32.54	14.51
1967	51.12	48.56	41.04	25.68	17.4	10.29
1968	28.78	27.46	22.73	15.64	13.51	5.378
1969	70.72	67.57	57.98	44.72	36.3	11.83
1970	29.16	27.78	23.47	13.29	10.9	6.305
1971	19.4	18.57	15.57	11.87	10.26	6.692
1972	28.05	26.59	23.14	16.54	11.32	5.236
1973	13.5	12.97	11	7.757	6.521	4.004
1974	62.95	60.03	49.62	23.62	16.34	8.838
1975	33.52	32.06	26.75	18.67	17.17	7.71
1976	32.66	30.99	25.58	17.83	15.77	8.572
1977	111	106	85.72	54.22	40.7	18.92
1978	21.96	20.89	17.41	11.63	9.819	5.146
1979	34.5	32.71	26.39	21.06	18.11	7.163
1980	38.3	36.36	29.48	24.09	21	7.576
1981	77.99	74.27	61.61	30.71	20.72	9.446
1982	39.1	37.45	31.69	23.4	22.69	11.23
1983	14.69	14.01	11.72	10.69	10.03	4.949
1984	26.81	25.38	14.26	6.436	4.496	2.53
1985	164	156	130	92.89	62.19	19.09
1986	70.56	67.28	55.49	40.2	33.64	18.35
1987	25.13	23.89	18.35	14.5	12.2	6.864
1988	47.98	45.61	37.86	26.15	20.7	10.28
1989	23.01	21.96	11.14	7.789	6.426	3.527
1990	22.59	21.64	19.31	15.3	12.65	5.206

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	164	156	130	92.89	62.19	19.09	
0.0645161290322581		120	115	98.85	70.55	47.35	18.92
0.0967741935483871		111	106	85.72	54.22	40.7	18.35
0.129032258064516	77.99	74.27	61.61	44.72	36.3	15.72	
0.161290322580645	74.79	71.25	58.73	41.02	33.64	14.51	
0.193548387096774	70.72	67.57	57.98	40.2	32.54	11.83	
0.225806451612903	70.56	67.28	55.49	30.71	22.69	11.23	
0.258064516129032	62.95	60.03	49.62	26.15	21	10.29	
0.290322580645161	51.12	48.56	41.04	25.68	20.72	10.28	
0.32258064516129	47.98	45.61	37.86	24.09	20.7	9.446	
0.354838709677419	39.1	37.45	31.69	23.62	18.11	8.838	
0.387096774193548	38.3	36.36	29.48	23.4	17.4	8.572	
0.419354838709677	34.5	32.71	26.75	21.06	17.17	7.71	
0.451612903225806	33.52	32.06	26.39	19.27	16.34	7.576	
0.483870967741936	32.66	30.99	25.58	18.67	15.91	7.163	

0.516129032258065 32.57 30.89 25.58 17.83 15.77 6.864
0.548387096774194 31.66 30.09 25.01 16.54 14.52 6.846
0.580645161290323 29.16 27.78 23.47 15.64 13.51 6.692
0.612903225806452 28.78 27.46 23.14 15.3 12.65 6.305
0.645161290322581 28.05 26.59 22.73 15.3 12.2 6.23
0.67741935483871 26.81 25.38 19.31 14.5 11.32 5.378
0.709677419354839 25.13 23.89 18.35 13.29 10.9 5.236
0.741935483870968 23.01 21.96 17.41 11.87 10.26 5.206
0.774193548387097 22.59 21.64 15.57 11.63 10.03 5.146
0.806451612903226 21.96 20.89 14.26 10.69 9.819 4.949
0.838709677419355 19.4 18.57 13.3 7.789 6.521 4.004
0.870967741935484 16.58 15.87 11.72 7.757 6.426 3.527
0.903225806451613 14.69 14.01 11.14 7.268 5.947 3.21
0.935483870967742 13.5 12.97 11 6.436 4.496 2.53
0.967741935483871 11.18 10.69 9.057 6.282 4.467 2.403

0.1 107.699 102.827 83.309 53.27 40.26 18.087
Average of yearly averages: 8.46836666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Roses

Metfile: w23188.dvf

PRZM scenario: CANursery no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM 2		integer	See PRZM manual
Incorporation Depth:	DEPI 0		cm	
Application Rate:	TAPP 1.23		kg/ha	
Application Efficiency:	APPEFF 0.99		fraction	
Spray Drift	DRFT 0.01		fraction of application rate applied to pond	
Application Date	Date 15-03		dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval 7		days	Set to 0 or delete line for single app.
Interval 2	interval 7		days	Set to 0 or delete line for single app.
Interval 3	interval 7		days	Set to 0 or delete line for single app.
Interval 4	interval 7		days	Set to 0 or delete line for single app.
Interval 5	interval 7		days	Set to 0 or delete line for single app.
Interval 6	interval 7		days	Set to 0 or delete line for single app.
Interval 7	interval 7		days	Set to 0 or delete line for single app.
Interval 8	interval 7		days	Set to 0 or delete line for single app.
Interval 9	interval 7		days	Set to 0 or delete line for single app.
Interval 10	interval 7		days	Set to 0 or delete line for single app.
Interval 11	interval 7		days	Set to 0 or delete line for single app.
Interval 12	interval 7		days	Set to 0 or delete line for single app.
Interval 13	interval 7		days	Set to 0 or delete line for single app.

Interval 14 interval	7	days	Set to 0 or delete line for single app.
Interval 15 interval	7	days	Set to 0 or delete line for single app.
Interval 16 interval	7	days	Set to 0 or delete line for single app.
Interval 17 interval	7	days	Set to 0 or delete line for single app.
Interval 18 interval	7	days	Set to 0 or delete line for single app.
Interval 19 interval	7	days	Set to 0 or delete line for single app.
Interval 20 interval	7	days	Set to 0 or delete line for single app.
Interval 21 interval	7	days	Set to 0 or delete line for single app.
Interval 22 interval	7	days	Set to 0 or delete line for single app.
Interval 23 interval	7	days	Set to 0 or delete line for single app.
Interval 24 interval	7	days	Set to 0 or delete line for single app.
Interval 25 interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA
 IPSCND 1
 UPTKF

Record 18: PLVKRT
 PLDKRT
 FEXTRC 0.5

Flag for Index Res. Run IR Pond
 Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as SnapBean.out

Chemical: chlorothalonil

PRZM environment: CARowCrop no_irrig.txt modified Monday, 16 April 2007 at 08:57:06

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	20.56	19.51	16.6	12.39	9.987	2.998
1962	20.1	19.12	16.22	11.96	9.675	4.636
1963	30.96	29.38	25.08	18.64	15.27	4.983
1964	19.48	18.46	15.62	11.52	9.327	2.88
1965	22.33	21.24	18.48	15.02	12.38	3.891
1966	19.77	18.79	15.91	11.71	9.454	3.091
1967	31.79	30.31	26.36	20.36	16.8	5.455
1968	21.01	19.91	17.02	12.55	10.09	3.013
1969	19.59	18.55	15.88	11.87	9.596	3.088
1970	19.25	18.17	15.37	11.3	9.107	3.036
1971	20.72	19.67	16.79	12.56	10.2	3.179
1972	19.28	18.26	15.44	11.39	9.194	3.469
1973	20.15	19.15	16.24	11.91	9.605	3.31
1974	26.92	25.48	21.21	15.74	12.76	3.963
1975	32.17	30.58	27.53	19.65	15.63	4.614
1976	19.48	18.48	15.67	11.65	9.398	2.725
1977	20.52	19.44	16.59	12.29	9.948	3.335
1978	23.92	22.73	19.95	16.64	13.91	4.258
1979	23.59	22.42	18.3	13.61	10.94	3.419
1980	19.66	18.61	15.82	11.79	9.573	3.019
1981	21.4	20.34	17.4	12.77	10.23	3.387
1982	41.26	39.34	35.49	25.61	20.8	6.853
1983	22.39	21.31	18.38	14	11.41	3.539
1984	19.16	18.1	15.27	11.15	8.922	2.908
1985	20.41	19.36	16.28	11.93	9.607	2.961
1986	23.68	22.41	19.48	14.82	11.84	3.487
1987	19.64	18.63	15.76	11.54	9.283	2.782
1988	18.99	17.9	15.15	13.74	11.57	3.569
1989	20.3	19.29	16.38	11.99	9.623	2.927
1990	19.49	18.49	15.64	11.53	9.319	2.724

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	41.26	39.34	35.49	25.61	20.8	6.853
0.0645161290322581	32.17	30.58	27.53	20.36	16.8	5.455
0.0967741935483871	31.79	30.31	26.36	19.65	15.63	4.983
0.129032258064516	30.96	29.38	25.08	18.64	15.27	4.636
0.161290322580645	26.92	25.48	21.21	16.64	13.91	4.614
0.193548387096774	23.92	22.73	19.95	15.74	12.76	4.258
0.225806451612903	23.68	22.42	19.48	15.02	12.38	3.963
0.258064516129032	23.59	22.41	18.48	14.82	11.84	3.891
0.290322580645161	22.39	21.31	18.38	14	11.57	3.569
0.32258064516129	22.33	21.24	18.3	13.74	11.41	3.539
0.354838709677419	21.4	20.34	17.4	13.61	10.94	3.487
0.387096774193548	21.01	19.91	17.02	12.77	10.23	3.469
0.419354838709677	20.72	19.67	16.79	12.56	10.2	3.419
0.451612903225806	20.56	19.51	16.6	12.55	10.09	3.387
0.483870967741936	20.52	19.44	16.59	12.39	9.987	3.335

0.516129032258065	20.41	19.36	16.38	12.29	9.948	3.31
0.548387096774194	20.3	19.29	16.28	11.99	9.675	3.179
0.580645161290323	20.15	19.15	16.24	11.96	9.623	3.091
0.612903225806452	20.1	19.12	16.22	11.93	9.607	3.088
0.645161290322581	19.77	18.79	15.91	11.91	9.605	3.036
0.67741935483871	19.66	18.63	15.88	11.87	9.596	3.019
0.709677419354839	19.64	18.61	15.82	11.79	9.573	3.013
0.741935483870968	19.59	18.55	15.76	11.71	9.454	2.998
0.774193548387097	19.49	18.49	15.67	11.65	9.398	2.961
0.806451612903226	19.48	18.48	15.64	11.54	9.327	2.927
0.838709677419355	19.48	18.46	15.62	11.53	9.319	2.908
0.870967741935484	19.28	18.26	15.44	11.52	9.283	2.88
0.903225806451613	19.25	18.17	15.37	11.39	9.194	2.782
0.935483870967742	19.16	18.1	15.27	11.3	9.107	2.725
0.967741935483871	18.99	17.9	15.15	11.15	8.922	2.724
0.1	31.707	30.217	26.232	19.549	15.594	4.9483
Average of yearly averages:						3.5833

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: SnapBean

Metfile: w23234.dvf

PRZM scenario: CARowCrop no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	2.52	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	07-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as SnapBeanL.out

Chemical: chlorothalonil

PRZM environment: CARowCropLate no_irrig.txt modified Wedday, 27 June 2007
at 09:24:53

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at
16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	22.77	22.06	18.69	14.57	13.51	3.364
1962	65.15	61.95	54.22	37.26	30.13	10.35
1963	20.71	19.78	16.9	14.07	12.23	6.568
1964	19.78	18.9	16.5	14.53	12.63	5.105
1965	18.77	17.67	14.86	13.65	12.55	4.709
1966	21.09	20.51	18.6	16.05	14.52	5.969
1967	25.37	24.58	22.02	15.57	13.3	6.717
1968	19	17.93	15.13	12.84	11.45	4.826
1969	26.02	24.5	21.51	14.98	12.63	5.728
1970	26.13	24.97	21.81	15.89	14.75	5.967
1971	18.9	17.82	15.01	11.17	9.259	4.309
1972	34.47	32.59	29.86	25.93	21.52	6.01
1973	27.71	26.43	22.01	19.18	17.1	7.033
1974	18.88	17.8	14.99	11.11	9.18	4.875
1975	19.57	18.48	15.66	11.62	9.436	3.847
1976	20.45	17.64	14.83	11.12	9.365	3.19
1977	27.48	26.17	21.67	15.03	12.77	6.685
1978	18.9	17.82	15.01	11.89	9.971	5.331
1979	28.93	27.27	22.04	16.17	14.39	7.082
1980	18.82	17.72	15.96	12.61	10.51	5.533
1981	38.91	36.91	30.02	23.04	19.66	7.174
1982	41.2	39.28	32.55	23.29	19.31	10.44
1983	21.34	20.44	17.31	14.95	13.87	7.193
1984	29.41	27.94	23.56	19.03	16.4	6.022
1985	18.89	17.8	15	13.24	11.81	4.716
1986	18.85	17.76	14.94	10.92	8.867	4.37
1987	18.86	17.77	15.03	11.4	10.48	4.352
1988	19.04	17.98	15.18	11.76	10.37	3.826
1989	22.74	21.43	17.32	13.5	11.35	4.127
1990	18.56	17.43	14.6	10.7	8.979	3.388

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly	
0.032258064516129	65.15	61.95	54.22	37.26	30.13	10.44	
0.0645161290322581		41.2	39.28	32.55	25.93	21.52	10.35
0.0967741935483871		38.91	36.91	30.02	23.29	19.66	7.193
0.129032258064516	34.47	32.59	29.86	23.04	19.31	7.174	
0.161290322580645	29.41	27.94	23.56	19.18	17.1	7.082	
0.193548387096774	28.93	27.27	22.04	19.03	16.4	7.033	
0.225806451612903	27.71	26.43	22.02	16.17	14.75	6.717	
0.258064516129032	27.48	26.17	22.01	16.05	14.52	6.685	
0.290322580645161	26.13	24.97	21.81	15.89	14.39	6.568	
0.32258064516129	26.02	24.58	21.67	15.57	13.87	6.022	
0.354838709677419	25.37	24.5	21.51	15.03	13.51	6.01	
0.387096774193548	22.77	22.06	18.69	14.98	13.3	5.969	
0.419354838709677	22.74	21.43	18.6	14.95	12.77	5.967	
0.451612903225806	21.34	20.51	17.32	14.57	12.63	5.728	
0.483870967741936	21.09	20.44	17.31	14.53	12.63	5.533	

0.516129032258065	20.71	19.78	16.9	14.07	12.55	5.331
0.548387096774194	20.45	18.9	16.5	13.65	12.23	5.105
0.580645161290323	19.78	18.48	15.96	13.5	11.81	4.875
0.612903225806452	19.57	17.98	15.66	13.24	11.45	4.826
0.645161290322581	19.04	17.93	15.18	12.84	11.35	4.716
0.67741935483871	19	17.82	15.13	12.61	10.51	4.709
0.709677419354839	18.9	17.82	15.03	11.89	10.48	4.37
0.741935483870968	18.9	17.8	15.01	11.76	10.37	4.352
0.774193548387097	18.89	17.8	15.01	11.62	9.971	4.309
0.806451612903226	18.88	17.77	15	11.4	9.436	4.127
0.838709677419355	18.86	17.76	14.99	11.17	9.365	3.847
0.870967741935484	18.85	17.72	14.94	11.12	9.259	3.826
0.903225806451613	18.82	17.67	14.86	11.11	9.18	3.388
0.935483870967742	18.77	17.64	14.83	10.92	8.979	3.364
0.967741935483871	18.56	17.43	14.6	10.7	8.867	3.19
0.1	38.466	36.478	30.004	23.265	19.625	7.1911
						Average of yearly averages: 5.62686666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: SnapBeanL

Metfile: w23234.dvf

PRZM scenario: CARowCropLate no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	2.52	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	01-10	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.
Interval 2	interval	7	days	Set to 0 or delete line for single app.
Interval 3	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as Stone.out

Chemical: chlorothalonil

PRZM environment: CAfruit_NirrigC.txt modified Thuday, 17 June 2004 at 08:14:02

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w93193.dvf modified Wedday, 3 July 2002 at 10:04:24

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	26.53	24.95	21.73	17.38	14.26	4.016
1962	26.86	25.2	22.05	17.7	14.54	4.134
1963	27.79	26.38	23.04	18.67	15.46	4.45
1964	26.84	25.31	22.06	17.69	14.53	4.16
1965	28.41	26.86	23.44	19.14	15.58	4.409
1966	25.91	24.27	21.09	16.78	13.62	3.968
1967	31.11	30.09	27.35	22.34	18.65	5.526
1968	26.41	24.83	21.61	17.27	14.09	4.066
1969	31.18	29.4	25.4	20.16	16.6	5.032
1970	27.7	26.16	22.92	18.72	15.46	4.517
1971	26.78	25.27	22.02	17.75	14.69	4.269
1972	25.81	24.3	21.01	16.82	13.71	4.009
1973	27.61	25.99	22.82	18.28	14.86	4.186
1974	27.05	25.52	22.27	17.87	14.58	4.131
1975	27.73	26.31	22.98	18.52	15.17	4.241
1976	27.34	25.85	22.57	18.24	14.98	4.562
1977	26.23	24.57	21.41	17.08	14	3.96
1978	31.64	29.96	26.27	20.72	17.04	4.882
1979	26.51	24.93	21.71	17.33	14.07	3.855
1980	27.45	25.87	22.66	18.4	15.17	4.332
1981	27.01	25.39	22.22	17.8	14.49	3.979
1982	30.24	28.55	25.47	20.08	16.3	4.75
1983	28.83	27.29	24.07	20.41	17.36	5.126
1984	26.04	24.52	21.25	16.97	13.73	3.777
1985	26.25	24.57	21.43	17.04	13.81	3.829
1986	27.82	26.17	23.02	18.77	15.17	4.27
1987	26.43	24.75	21.61	17.27	14.03	4.091
1988	26.19	24.72	21.56	17.61	14.53	4.055
1989	26.37	24.7	21.55	17.12	13.89	3.846
1990	26.19	24.58	21.38	17.08	14.02	4.155

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	31.64	30.09	27.35	22.34	18.65	5.526
0.0645161290322581	31.18	29.96	26.27	20.72	17.36	5.126
0.0967741935483871	31.11	29.4	25.47	20.41	17.04	5.032
0.129032258064516	30.24	28.55	25.4	20.16	16.6	4.882
0.161290322580645	28.83	27.29	24.07	20.08	16.3	4.75
0.193548387096774	28.41	26.86	23.44	19.14	15.58	4.562
0.225806451612903	27.82	26.38	23.04	18.77	15.46	4.517
0.258064516129032	27.79	26.31	23.02	18.72	15.46	4.45
0.290322580645161	27.73	26.17	22.98	18.67	15.17	4.409
0.32258064516129	27.7	26.16	22.92	18.52	15.17	4.332
0.354838709677419	27.61	25.99	22.82	18.4	15.17	4.27
0.387096774193548	27.45	25.87	22.66	18.28	14.98	4.269
0.419354838709677	27.34	25.85	22.57	18.24	14.86	4.241
0.451612903225806	27.05	25.52	22.27	17.87	14.69	4.186
0.483870967741936	27.01	25.39	22.22	17.8	14.58	4.16

0.516129032258065	26.86	25.31	22.06	17.75	14.54	4.155
0.548387096774194	26.84	25.27	22.05	17.7	14.53	4.134
0.580645161290323	26.78	25.2	22.02	17.69	14.53	4.131
0.612903225806452	26.53	24.95	21.73	17.61	14.49	4.091
0.645161290322581	26.51	24.93	21.71	17.38	14.26	4.066
0.67741935483871	26.43	24.83	21.61	17.33	14.09	4.055
0.709677419354839	26.41	24.75	21.61	17.27	14.07	4.016
0.741935483870968	26.37	24.72	21.56	17.27	14.03	4.009
0.774193548387097	26.25	24.7	21.55	17.12	14.02	3.979
0.806451612903226	26.23	24.58	21.43	17.08	14	3.968
0.838709677419355	26.19	24.57	21.41	17.08	13.89	3.96
0.870967741935484	26.19	24.57	21.38	17.04	13.81	3.855
0.903225806451613	26.04	24.52	21.25	16.97	13.73	3.846
0.935483870967742	25.91	24.3	21.09	16.82	13.71	3.829
0.967741935483871	25.81	24.27	21.01	16.78	13.62	3.777
0.1	31.023	29.315	25.463	20.385	16.996	5.017
Average of yearly averages:						4.2861

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Stone

Metfile: w93193.dvf

PRZM scenario: CAfruit_NirrigC.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	3.48	kg/ha	
Application Efficiency:	APPEFF	0.95	fraction	
Spray Drift	DRFT	0.05	fraction of application rate applied to pond	
Application Date	Date	01-03	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	10	days	Set to 0 or delete line for single app.
Interval 2	interval	10	days	Set to 0 or delete line for single app.
Interval 3	interval	10	days	Set to 0 or delete line for single app.
Interval 4	interval	10	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as Tomato.out

Chemical: chlorothalonil

PRZM environment: CAtomato_NirrigC.txt modified Tuesday, 8 June 2004 at 11:42:50

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w93193.dvf modified Wedday, 3 July 2002 at 10:04:24

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	26.37	25.31	21.56	13.67	10.86	5.034
1962	28.1	27.48	23.97	16.96	15.37	8.063
1963	20.92	19.38	17.12	13.63	11.68	7.917
1964	20.73	19.64	17.85	13.81	12.27	6.353
1965	20.94	19.54	17.11	13.79	11.26	6.207
1966	35.17	33.63	28.24	14.3	11.09	6.464
1967	20.29	19.46	16.5	14.54	12.2	7.359
1968	34.98	33.33	29.05	23.11	19.93	8.302
1969	52.7	50.9	43.76	35.75	29.95	12.47
1970	28.16	26.93	23.74	16.22	13.41	8.982
1971	22.24	21.31	17.98	13.29	10.78	6.344
1972	35.17	34.29	29.07	21.14	15.82	7.702
1973	20.82	19.34	17.01	13.59	12.43	7.667
1974	21.47	20.15	16.64	13.75	11.63	7.27
1975	21.2	19.63	17.38	13.75	11.09	5.56
1976	62.55	58.64	45.52	30.12	26.48	11.89
1977	20.98	20.02	16.58	13.23	10.67	5.302
1978	47.59	44.23	33.2	21.89	17.9	11.2
1979	20.35	18.7	16.59	13.04	10.38	4.956
1980	20.29	18.78	16.51	13.16	11.56	6.461
1981	19.78	18.27	16.04	12.77	10.28	5.264
1982	34.77	33.35	29.6	27.25	24.51	10.71
1983	39.08	37.57	33.96	27.94	24.25	11.96
1984	19.59	17.96	15.87	12.47	10.06	5.032
1985	24.72	23.01	18.63	14.61	12.6	7.116
1986	29.87	28.54	16.12	12.93	10.63	7.112
1987	28.89	27.99	24.25	17.88	14.6	7.284
1988	20.13	18.59	16.37	12.97	10.39	4.624
1989	24.65	22.87	17.83	15.86	13.65	6.368
1990	20.29	18.77	16.52	13.14	10.55	5.469

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	62.55	58.64	45.52	35.75	29.95	12.47
0.0645161290322581	52.7	50.9	43.76	30.12	26.48	11.96
0.0967741935483871	47.59	44.23	33.96	27.94	24.51	11.89
0.129032258064516	39.08	37.57	33.2	27.25	24.25	11.2
0.161290322580645	35.17	34.29	29.6	23.11	19.93	10.71
0.193548387096774	35.17	33.63	29.07	21.89	17.9	8.982
0.225806451612903	34.98	33.35	29.05	21.14	15.82	8.302
0.258064516129032	34.77	33.33	28.24	17.88	15.37	8.063
0.290322580645161	29.87	28.54	24.25	16.96	14.6	7.917
0.32258064516129	28.89	27.99	23.97	16.22	13.65	7.702
0.354838709677419	28.16	27.48	23.74	15.86	13.41	7.667
0.387096774193548	28.1	26.93	21.56	14.61	12.6	7.359
0.419354838709677	26.37	25.31	18.63	14.54	12.43	7.284
0.451612903225806	24.72	23.01	17.98	14.3	12.27	7.27
0.483870967741936	24.65	22.87	17.85	13.81	12.2	7.116

0.516129032258065 22.24 21.31 17.83 13.79 11.68 7.112
0.548387096774194 21.47 20.15 17.38 13.75 11.63 6.464
0.580645161290323 21.2 20.02 17.12 13.75 11.56 6.461
0.612903225806452 20.98 19.64 17.11 13.67 11.26 6.368
0.645161290322581 20.94 19.63 17.01 13.63 11.09 6.353
0.67741935483871 20.92 19.54 16.64 13.59 11.09 6.344
0.709677419354839 20.82 19.46 16.59 13.29 10.86 6.207
0.741935483870968 20.73 19.38 16.58 13.23 10.78 5.56
0.774193548387097 20.35 19.34 16.52 13.16 10.67 5.469
0.806451612903226 20.29 18.78 16.51 13.14 10.63 5.302
0.838709677419355 20.29 18.77 16.5 13.04 10.55 5.264
0.870967741935484 20.29 18.7 16.37 12.97 10.39 5.034
0.903225806451613 20.13 18.59 16.12 12.93 10.38 5.032
0.935483870967742 19.78 18.27 16.04 12.77 10.28 4.956
0.967741935483871 19.59 17.96 15.87 12.47 10.06 4.624

0.1 46.739 43.564 33.884 27.871 24.484 11.821
Average of yearly averages: 7.41473333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: Tomato

Metfile: w93193.dvf

PRZM scenario: CATomato_NirrigC.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	0.8	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0	days		Half-life
Method:	CAM 2	integer		See PRZM manual
Incorporation Depth:	DEPI 0	cm		
Application Rate:	TAPP 2.42	kg/ha		
Application Efficiency:	APPEFF 0.95	fraction		
Spray Drift	DRFT 0.05	fraction of application rate applied to pond		
Application Date	Date 24-07	dd/mm or dd/mm or dd-mm or dd-mmm		
Interval 1	interval 7	days		Set to 0 or delete line for single app.
Interval 2	interval 7	days		Set to 0 or delete line for single app.
Interval 3	interval 7	days		Set to 0 or delete line for single app.
Interval 4	interval 7	days		Set to 0 or delete line for single app.
Interval 5	interval 7	days		Set to 0 or delete line for single app.
Interval 6	interval 7	days		Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of
entire run)

stored as turfGen.out

Chemical: chlorothalonil

PRZM environment: CATurf no_irrig.txt modified Monday, 16 April 2007 at 08:56:44

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	53.39	51.21	42.96	25.62	17.15	4.228
1962	61.12	58.09	39.78	18.69	14	7.336
1963	76.5	72.78	60.51	42.77	37.8	13.79
1964	50.75	48.56	39.71	26.14	20.27	9.955
1965	25.71	24.44	21.75	17.2	11.55	5.521
1966	47.26	45.61	42.55	30.33	20.31	8.048
1967	40.85	38.7	31.68	18.1	13.78	7.142
1968	36.35	34.46	27.95	20.48	13.82	7.506
1969	29.74	28.22	19.53	16.09	13.08	5.603
1970	99.83	95.65	80.18	43.96	29.4	11.97
1971	47.32	45.25	37.87	26.74	21.33	7.414
1972	85.23	82.38	68.47	44.58	29.88	7.974
1973	79.92	76.07	62.91	46	30.76	12.52
1974	42.16	40.97	34.93	24.89	19.93	7.142
1975	31.07	29.55	24.4	17.67	15.62	5.974
1976	91.92	46.59	21.99	14.89	11.55	5.125
1977	115	110	90.52	62.06	48.77	20.84
1978	41.42	40.26	35.7	26.09	20.9	7.183
1979	89.88	85.24	40.31	30.09	24.44	10.06
1980	72.76	69.3	61.33	44.1	34.87	12.04
1981	174	165	132	83.96	56.08	20.95
1982	168	159	129	80.18	53.58	24.9
1983	75.2	72.07	60.91	44.76	36.03	14.31
1984	111	105	87.28	57.91	38.69	12
1985	55.29	52.42	43.14	25.95	18.5	9.753
1986	25.38	24.3	21.13	15.51	12.41	4.611
1987	41.72	39.63	32.36	26.49	22.65	9.262
1988	23.87	22.69	14.75	11.38	8.354	4.282
1989	30.97	29.24	23.5	15.27	10.26	4.994
1990	17.4	16.6	14	11.74	10.2	4.514

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	174	165	132	83.96	56.08	24.9
0.0645161290322581		168	159	129	80.18	53.58 20.95
0.0967741935483871		115	110	90.52	62.06	48.77 20.84
0.129032258064516	111	105	87.28	57.91	38.69	14.31
0.161290322580645	99.83	95.65	80.18	46	37.8	13.79
0.193548387096774	91.92	85.24	68.47	44.76	36.03	12.52
0.225806451612903	89.88	82.38	62.91	44.58	34.87	12.04
0.258064516129032	85.23	76.07	61.33	44.1	30.76	12
0.290322580645161	79.92	72.78	60.91	43.96	29.88	11.97
0.32258064516129	76.5	72.07	60.51	42.77	29.4	10.06
0.354838709677419	75.2	69.3	43.14	30.33	24.44	9.955
0.387096774193548	72.76	58.09	42.96	30.09	22.65	9.753
0.419354838709677	61.12	52.42	42.55	26.74	21.33	9.262
0.451612903225806	55.29	51.21	40.31	26.49	20.9	8.048
0.483870967741936	53.39	48.56	39.78	26.14	20.31	7.974

0.516129032258065	50.75	46.59	39.71	26.09	20.27	7.506
0.548387096774194	47.32	45.61	37.87	25.95	19.93	7.414
0.580645161290323	47.26	45.25	35.7	25.62	18.5	7.336
0.612903225806452	42.16	40.97	34.93	24.89	17.15	7.183
0.645161290322581	41.72	40.26	32.36	20.48	15.62	7.142
0.67741935483871	41.42	39.63	31.68	18.69	14	7.142
0.709677419354839	40.85	38.7	27.95	18.1	13.82	5.974
0.741935483870968	36.35	34.46	24.4	17.67	13.78	5.603
0.774193548387097	31.07	29.55	23.5	17.2	13.08	5.521
0.806451612903226	30.97	29.24	21.99	16.09	12.41	5.125
0.838709677419355	29.74	28.22	21.75	15.51	11.55	4.994
0.870967741935484	25.71	24.44	21.13	15.27	11.55	4.611
0.903225806451613	25.38	24.3	19.53	14.89	10.26	4.514
0.935483870967742	23.87	22.69	14.75	11.74	10.2	4.282
0.967741935483871	17.4	16.6	14	11.38	8.354	4.228

0.1 114.6 109.5 90.196 61.645 47.762 20.187
Average of yearly averages: 9.5649

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: turfGen

Metfile: w23234.dvf

PRZM scenario: CATurf no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	100	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	12.7	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-11	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as turfSeed.out
 Chemical: chlorothalonil
 PRZM environment: CATurf no_irrig.txt modified Monday, 16 April 2007 at
 08:56:44
 EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at
 16:33:30
 Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22
 Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	13.16	12.63	10.57	5.674	3.792	0.935
1962	12.85	12.21	8.426	4.251	3.598	1.707
1963	16.02	15.24	12.67	8.965	7.922	2.783
1964	20.09	19.22	15.68	10.28	7.956	2.746
1965	14.81	14.24	6.239	3.491	2.34	1.19
1966	13.61	12.99	10.79	7.666	6.109	2.686
1967	9.008	8.532	7.185	5.438	4.544	1.99
1968	5.854	5.579	4.02	3.644	3.039	1.324
1969	6.472	6.14	4.862	4.061	3.318	1.315
1970	15.16	14.41	12.25	6.636	4.437	2.112
1971	7.5	7.17	5.997	4.229	3.378	1.201
1972	6.431	6.096	5.216	3.715	2.511	0.7733
1973	28.38	26.98	22.19	12.52	8.36	3.226
1974	15.98	15.51	13.31	9.428	7.532	2.448
1975	6.6	6.277	5.184	3.782	3.339	1.238
1976	29.61	14.85	4.688	3.175	2.463	1.105
1977	37.85	35.97	29.67	20.33	15.98	5.592
1978	7.72	7.466	6.595	4.905	3.93	1.337
1979	22.79	21.61	12.24	9.142	7.442	2.836
1980	18.44	17.56	15.62	11.26	8.908	2.944
1981	15.91	13.26	9.501	7.181	4.804	2.635
1982	31.65	30.12	24.79	17.35	13.8	6.104
1983	16.32	15.61	13.12	9.976	8.046	3.092
1984	8.166	7.769	6.383	4.716	3.432	1.748
1985	7.678	7.289	6.502	3.822	2.561	1.397
1986	4.837	4.623	3.895	3.002	2.453	0.9014
1987	8.482	8.057	6.582	5.366	4.582	1.908
1988	6.516	6.187	3.682	2.66	2.09	0.9625
1989	5.299	5.042	4.145	2.869	2.288	1.046
1990	3.738	3.56	2.985	2.519	2.203	0.9419

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly		
0.032258064516129	37.85	35.97	29.67	20.33	15.98	6.104		
0.0645161290322581			31.65	30.12	24.79	17.35	13.8	5.592
0.0967741935483871			29.61	26.98	22.19	12.52	8.908	3.226
0.129032258064516	28.38	21.61	15.68	11.26	8.36	3.092		
0.161290322580645	22.79	19.22	15.62	10.28	8.046	2.944		
0.193548387096774	20.09	17.56	13.31	9.976	7.956	2.836		
0.225806451612903	18.44	15.61	13.12	9.428	7.922	2.783		
0.258064516129032	16.32	15.51	12.67	9.142	7.532	2.746		
0.290322580645161	16.02	15.24	12.25	8.965	7.442	2.686		
0.32258064516129	15.98	14.85	12.24	7.666	6.109	2.635		
0.354838709677419	15.91	14.41	10.79	7.181	4.804	2.448		
0.387096774193548	15.16	14.24	10.57	6.636	4.582	2.112		
0.419354838709677	14.81	13.26	9.501	5.674	4.544	1.99		
0.451612903225806	13.61	12.99	8.426	5.438	4.437	1.908		
0.483870967741936	13.16	12.63	7.185	5.366	3.93	1.748		

0.516129032258065	12.85	12.21	6.595	4.905	3.792	1.707
0.548387096774194	9.008	8.532	6.582	4.716	3.598	1.397
0.580645161290323	8.482	8.057	6.502	4.251	3.432	1.337
0.612903225806452	8.166	7.769	6.383	4.229	3.378	1.324
0.645161290322581	7.72	7.466	6.239	4.061	3.339	1.315
0.67741935483871	7.678	7.289	5.997	3.822	3.318	1.238
0.709677419354839	7.5	7.17	5.216	3.782	3.039	1.201
0.741935483870968	6.6	6.277	5.184	3.715	2.561	1.19
0.774193548387097	6.516	6.187	4.862	3.644	2.511	1.105
0.806451612903226	6.472	6.14	4.688	3.491	2.463	1.046
0.838709677419355	6.431	6.096	4.145	3.175	2.453	0.9625
0.870967741935484	5.854	5.579	4.02	3.002	2.34	0.9419
0.903225806451613	5.299	5.042	3.895	2.869	2.288	0.935
0.935483870967742	4.837	4.623	3.682	2.66	2.203	0.9014
0.967741935483871	3.738	3.56	2.985	2.519	2.09	0.7733

0.1	29.487	26.443	21.539	12.394	8.8532	3.2126
Average of yearly averages:						2.07413666666667

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: turfSeed

Metfile: w23234.dvf

PRZM scenario: CATurf no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	100	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	1.68	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-11	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	14	days	Set to 0 or delete line for single app.
Interval 2	interval	14	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)

stored as turfSod.out

Chemical: chlorothalonil

PRZM environment: CATurf no_irrig.txt modified Monday, 16 April 2007 at 08:56:44

EXAMS environment: pond298.exv modified Thuday, 29 August 2002 at 16:33:30

Metfile: w23234.dvf modified Wedday, 3 July 2002 at 10:04:22

Water segment concentrations (ppb)

Year	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
1961	53.27	51.08	42.86	25.55	17.1	4.218
1962	60.97	57.95	39.69	18.65	13.97	7.318
1963	76.31	72.6	60.37	42.66	37.71	13.76
1964	50.63	48.44	39.62	26.08	20.22	9.932
1965	25.65	24.38	21.7	17.16	11.53	5.508
1966	47.15	45.51	42.45	30.27	20.26	8.03
1967	40.75	38.61	31.61	18.05	13.74	7.125
1968	36.26	34.38	27.89	20.44	13.78	7.489
1969	29.67	28.15	19.48	16.05	13.05	5.59
1970	99.59	95.43	79.99	43.86	29.33	11.95
1971	47.21	45.14	37.78	26.67	21.27	7.397
1972	85.03	82.19	68.31	44.48	29.81	7.955
1973	79.73	75.89	62.76	45.89	30.68	12.49
1974	42.06	40.88	34.85	24.83	19.88	7.125
1975	31	29.48	24.34	17.63	15.59	5.96
1976	91.67	46.46	21.94	14.86	11.52	5.114
1977	115	109	90.27	61.89	48.64	20.78
1978	41.31	40.16	35.61	26.03	20.85	7.165
1979	89.65	85.02	40.22	30.02	24.38	10.03
1980	72.57	69.12	61.17	43.99	34.78	12.01
1981	174	164	132	83.77	55.96	20.9
1982	167	159	129	80	53.46	24.84
1983	75.03	71.91	60.78	44.66	35.95	14.28
1984	110	105	87.09	57.78	38.6	11.97
1985	55.16	52.3	43.04	25.89	18.46	9.731
1986	25.32	24.24	21.08	15.47	12.38	4.6
1987	41.62	39.54	32.29	26.43	22.6	9.24
1988	23.82	22.63	14.71	11.35	8.335	4.272
1989	30.9	29.17	23.44	15.24	10.24	4.982
1990	17.35	16.55	13.97	11.71	10.18	4.503

Sorted results

Prob.	Peak	96 hr	21 Day	60 Day	90 Day	Yearly
0.032258064516129	174	164	132	83.77	55.96	24.84
0.0645161290322581		167	159	129	80	53.46 20.9
0.0967741935483871		115	109	90.27	61.89	48.64 20.78
0.129032258064516	110	105	87.09	57.78	38.6	14.28
0.161290322580645	99.59	95.43	79.99	45.89	37.71	13.76
0.193548387096774	91.67	85.02	68.31	44.66	35.95	12.49
0.225806451612903	89.65	82.19	62.76	44.48	34.78	12.01
0.258064516129032	85.03	75.89	61.17	43.99	30.68	11.97
0.290322580645161	79.73	72.6	60.78	43.86	29.81	11.95
0.32258064516129	76.31	71.91	60.37	42.66	29.33	10.03
0.354838709677419	75.03	69.12	43.04	30.27	24.38	9.932
0.387096774193548	72.57	57.95	42.86	30.02	22.6	9.731
0.419354838709677	60.97	52.3	42.45	26.67	21.27	9.24
0.451612903225806	55.16	51.08	40.22	26.43	20.85	8.03
0.483870967741936	53.27	48.44	39.69	26.08	20.26	7.955

0.516129032258065 50.63 46.46 39.62 26.03 20.22 7.489
0.548387096774194 47.21 45.51 37.78 25.89 19.88 7.397
0.580645161290323 47.15 45.14 35.61 25.55 18.46 7.318
0.612903225806452 42.06 40.88 34.85 24.83 17.1 7.165
0.645161290322581 41.62 40.16 32.29 20.44 15.59 7.125
0.67741935483871 41.31 39.54 31.61 18.65 13.97 7.125
0.709677419354839 40.75 38.61 27.89 18.05 13.78 5.96
0.741935483870968 36.26 34.38 24.34 17.63 13.74 5.59
0.774193548387097 31 29.48 23.44 17.16 13.05 5.508
0.806451612903226 30.9 29.17 21.94 16.05 12.38 5.114
0.838709677419355 29.67 28.15 21.7 15.47 11.53 4.982
0.870967741935484 25.65 24.38 21.08 15.24 11.52 4.6
0.903225806451613 25.32 24.24 19.48 14.86 10.24 4.503
0.935483870967742 23.82 22.63 14.71 11.71 10.18 4.272
0.967741935483871 17.35 16.55 13.97 11.35 8.335 4.218

0.1 114.5 108.6 89.952 61.479 47.636 20.13
Average of yearly averages: 9.54213333333333

Inputs generated by pe4.pl - 8-August-2003

Data used for this run:

Output File: turfSod

Metfile: w23234.dvf

PRZM scenario: CATurf no_irrig.txt

EXAMS environment file: pond298.exv

Chemical Name: chlorothalonil

Description	Variable Name	Value	Units	Comments
Molecular weight	mwt	265.9	g/mol	
Henry's Law Const.	henry	2.6E-7		atm-m ³ /mol
Vapor Pressure	vapr	5.72E-7	torr	
Solubility	sol	100	mg/L	
Kd	Kd	19.5	mg/L	
Koc	Koc		mg/L	
Photolysis half-life	kdp	0.4	days	Half-life
Aerobic Aquatic Metabolism	kbacw	35.2	days	Halfife
Anaerobic Aquatic Metabolism	kbacs	15	days	Halfife
Aerobic Soil Metabolism	asm	71	days	Halfife
Hydrolysis: pH 7	0		days	Half-life
Method:	CAM	2	integer	See PRZM manual
Incorporation Depth:	DEPI	0	cm	
Application Rate:	TAPP	12.67	kg/ha	
Application Efficiency:	APPEFF	0.99	fraction	
Spray Drift	DRFT	0.01	fraction of application rate applied to pond	
Application Date	Date	01-11	dd/mm or dd/mm or dd-mm or dd-mmm	
Interval 1	interval	7	days	Set to 0 or delete line for single app.

Record 17: FILTRA

IPSCND 1

UPTKF

Record 18: PLVKRT

PLDKRT

FEXTRC 0.5

Flag for Index Res. Run IR Pond

Flag for runoff calc. RUNOFF none none, monthly or total(average of entire run)