



CUPERTINO

PRE-APPLICATION FORM

Community Development Department
10300 Torre Avenue
Cupertino, CA 95014

(408) 777-3308 / Fax (408) 777-3333
planning@cupertino.org
<http://www.cupertino.org/planning>

PLEASE NOTE:

A pre-application conference is required prior to submittal on all applications. The purpose of the pre-application conference is to determine if the application is ready for submittal. Application fees are nonrefundable.

Please call your project manager to schedule a time for the review of your application materials. We suggest you allow enough time prior to the application deadline to prepare additional information or make changes in case any are needed.

Please bring this form to the pre-application meeting for a signature.

Include this form in your application submittal.

Application Request: _____

Comments: _____

Public Works Confirmation form?

Signed (planner) _____

Date _____

As a part of the application review process, City of Cupertino employees may visit your site in order to take photographs, slides and/or videotape. These materials may be shown at a city meeting.



CUPERTINO

APPLICATION FORM

Community Development Department
10300 Torre Avenue
Cupertino, CA 95014

(408) 777-3308 / Fax (408) 777-3333
planning@cupertino.org
http://www.cupertino.org/planning

Property Owner

Phone (w)

Phone (h)

X

Street Address

Fax

Cell

City, State, Zip Code

E-Mail

Project Contact Person

Phone (w)

Phone (h)

X

Street Address

Fax

Cell

City, State, Zip Code

E-Mail

Project Address

APN (s)

Brief Project Description

I certify that the foregoing statements are true and correct to the best of my knowledge. I understand that a misrepresentation of any submitted data may invalidate an approval by the Director of Community Development, Design Review Committee, Planning Commission or City Council of this application. I understand that the application may be withdrawn if my authorized representative or I is not present at the scheduled meeting(s) unless a written request for postponement has been presented to the applicable review body. I have discussed this application with the Public Works staff and I understand the public improvement requirements associated with this proposal. I understand application fees are nonrefundable.

X

Applicant's Signature

Date

I declare under penalty of perjury that I am the owner of said property or have Power of Attorney (attach copy) from said property owner and that I consent to the above-described application and I authorize City staff to visit the site in order to take photographs, slides and/or videotape that may be shown at a city meeting. I understand application fees are nonrefundable.

X

Property Owner's Signature

Print Property Owner's Name

Date

Staff use only:

Application accepted by _____ on _____

Application type: _____

For Amendments or Modifications, list the original permit: _____



CUPERTINO

FEE SCHEDULE *(Application fees are nonrefundable.)*

Community Development Department
10300 Torre Avenue
Cupertino, CA 95014

(408) 777-3308 / Fax (408) 777-3333
planning@cupertino.org
http://www.cupertino.org/planning

General Plan Amendment (GPA)

Minor GPA Authorization	\$2,149.00
Minor GPA Application	\$6,673.00
Major GPA Authorization	\$4,285.00
Major GPA Application	\$13,346.00

Study Session	\$4,285.00
----------------------	------------

Development Agreement (DA)	\$17,647.00
-----------------------------------	-------------

Zoning (Z)

Minor	\$3,305.00
< One Acre	\$6,610.00
One to Five Acres	\$10,048.00
> Five Acres	\$13,690.00

Subdivision (TM)

Tentative Map	\$14,564.00
Parcel Map	\$6,802.00

Use Permit (U)

Major	\$14,564.00
Minor	\$6,802.00

Development Permit (DP)

Major	\$14,564.00
Minor	\$6,802.00

Architectural & Site Approval (ASA)

ASA - Major	\$6,802.00
ASA - Minor	\$3,290.00

Miscellaneous

Amendment to U/DP/TM - Major (M)	\$7,282.00
Amendment to U/DP/TM - Minor (M)	\$3,401.00
Interpretation (INT)	\$3,327.00
Hillside Exception (EXC)	\$6,452.00
Exception (EXC)	\$2,565.00
Sign Exception (EXC)	\$1,923.00
Fence Exception (EXC)	\$653.00
Variance (V)	\$1,642.00
Minor Modification (DIR)	\$1,148.00
Temporary Use Permit (TUP)	\$1,312.00
One-Year Extension (EXT)	\$1,148.00
Temporary Sign Permit (TS)	\$192.00
Sign Program (SP)	\$658.00

Environmental Review (EA)

Environmental Impact Report (EIR)	\$25,480.00
Major Negative Declaration	\$3,920.00
Minor Negative Declaration	\$1,959.00
Negative Declaration Filing Fee	\$50.00
Fish and Game Filing Fee - Neg. Dec.	\$2,101.50
Fish and Game Filing Fee - EIR	\$2,919.00
Categorical Exemption	\$227.00
County Filing Fee	\$50.00

Deposits / Retainers

Legal Noticing Deposit *	\$400.00
Architectural Consultant Deposit**	\$2,000.00
Arborist Consultant Deposit**	\$1,500.00
Geologic Consultant Deposit**	\$2,500.00
Temporary Sign Permit Deposit	\$100.00

* If noticing radius is greater, additional deposit monies may apply.

** Deposits are estimates only, applicant will pay the actual
Consultant invoice amount plus 10% City admin fee

Appeal

	\$162.00
--	----------

Amount to be refunded if appeal is granted

Zoning Verification Letter

	\$173.00
--	----------

Public Convenience & Necessity Letter

	\$173.00
--	----------

Tree Removal (TR)

Retroactive TR	\$2,937.00
TR - First Tree	\$165.00
TR - Each Additional Tree	\$83.00
Tree Management Plan	\$1,148.00
Tree Replacement In Lieu Fee	TBD

Hourly Rate

	\$130.00
--	----------

*For all projects requiring more than
48 hours of staff time, applicants
will be charged at the hourly rate.*

APPLICATION FEES ARE NONREFUNDEABLE.



CUPERTINO

APPLICATION DESCRIPTIONS

Community Development Department

10300 Torre Avenue
Cupertino, CA 95014

(408) 777-3308 / Fax (408) 777-3333

planning@cupertino.org

<http://www.cupertino.org/planning>

Major

More than ten thousand square feet of commercial and/or industrial and/or office and/or other non-residential use, or greater than six residential units.

Minor

Ten thousand square feet or less of commercial and/or industrial and/or office and/or other non-residential use, or six or less residential units.

Minor Architectural and Site Approval

Single family home in a planned development zoning district, minor building architectural modifications, landscaping, signs and lighting for new development, redevelopment or modification in such zones where review is required and minor modifications of duplex and multi-family buildings.

Major Architectural and Site Approval

Architectural and site approval for all projects that are not a Minor Architectural and Site Approval application.

Appeal

A request from the project applicant or interested party to reverse or amend a decision made by staff or an advisory body. An appointed public official serving on the board that made the decision subject to the appeal, and appointed public official serving on a board that is directly affected by the decision and current City Council members are exempted from the fee requirement.

Director's Application

An application that receives final approval by staff either via a public hearing/public meeting/comment period or no notification depending on the type of project.

Tentative Map (Five or more parcels)

Parcel Map (Four or less parcels)

Housing Mitigation Fee

Fee collected is used to construct new affordable residential units for Cupertino residents and employees. The fees mitigate the need for affordable units caused by expanding offices creating new jobs and new residential development, office, R&D, industrial and residential development.

NOTES

Mixed-use applications will be classified based upon the highest intensity and review process.

The Director of Community Development will have discretion to classify projects based upon the above criteria.



CUPERTINO

CHECK-OFF SHEET

Community Development Department

10300 Torre Avenue
Cupertino, CA 95014

(408) 777-3308 / Fax (408) 777-3333
planning@cupertino.org
http://www.cupertino.org/planning

The table below shows the minimum requirements for each application type. Additional materials may be required as determined by your planner.

<u>Items</u>	<u>Zoning</u>	<u>Use Permit</u>	<u>Tentative Map</u>	<u>Variance/Exception</u>	<u>DRC/AH</u>	<u>Minor Mod</u>
Application Form	X	X	X	X	X	X
Application Fee	X	X	X	X	X	X
Noticing Deposit	X	X	X	X	X	-
Legal Description	X	-	X	-	-	-
Project Description	X	X	X	X	X	X
Justification Statement	-	-	-	X	-	-
Special Studies (see planner)	-	-	-	-	-	-
<u>Exhibits</u>						
Site Plan *	-	X	-	X	X	X
Vicinity Map	X	X	X	X	X	X
Elevations	-	X	X	X	X	X

* For Zoning applications, the site plan information should be shown on a Zoning Plat Map. For Tentative Map applications, the site plan information should be shown on a Subdivision Plat Map.

Other Exhibits (see case manager to determine if these exhibits are necessary)

- Landscape Plan
- Floor Plans
- Cross Sections
- Material Board
- Grading Plan
- Sign Exhibits
- Perspectives
- Color Rendering
- Computer Rendered Drawings

Exhibit Copies

All materials must be folded to 8 1/2" x 11", printed side up.
All exhibits must be dated. Revision dates must be included if applicable.

<u>Size</u>	<u>Notes</u>	<u>Planning Commission **</u>	<u>DRC</u>	<u>Minor Mod</u>
Full Size	To scale with min. scale of 1/8" = 1' or 1:20	6	2	1
11" x 17"		2	2	2
CD-ROM	PDF, JPEG of TIFF files	1	1	1
Material Board		1	1	1

** Following Prehearing, additional plans may be required. The number of additional plans include 1 full size (24" x 36"), two 11" x 17" and 1 CD-ROM.



CUPERTINO

2011-2012 SCHEDULE

Community Development Department
 10300 Torre Avenue
 Cupertino, CA 95014

(408) 777-3308 / Fax (408) 777-3333
 planning@cupertino.org
 http://www.cupertino.org/planning

Tentative Application Schedule

Description	2011						2012					
	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Application Deadline (1)	7/27	8/31	9/28	10/26	11/30	12/28	1/25	2/29	3/28	4/25	5/30	6/27
Pre-Hearing*	8/10	9/14	10/12	11/9	12/14	1/11	2/8	3/14	4/11	5/9	6/13	7/11
ERC* †	8/18	9/15	10/20	11/17	12/15	1/19	2/16	3/15	4/19	5/17	6/21	7/19
Planning Commission	9/13	10/11	11/8	12/13	1/10	2/14	3/13	4/10	5/8	6/12	7/10	8/14
City Council (2)	10/4	11/1	12/6	1/3	2/7	3/6	4/3	5/1	6/5	7/3	8/7	9/4
City Council (3)	10/18	11/15	12/20	1/17	2/21	3/20	4/17	5/15	6/19	7/17	8/21	9/18

(1) Except items that will be heard by the Design Review Committee.

(2) City Council approval typically applies only to conditional use permits involving new construction of 10,000 square feet of office, 5,000 square feet of commercial or 8 or more residential units, tentative maps creating five or more lots and appeals.

(3) City Council date for General Plan Amendments and Zoning applications.

* Applicant or authorized representative should plan to attend the Pre-Hearing and Environmental Review Committee (ERC) meetings. (Not all applications have pre-hearing or ERC meetings)

† Environmental Review Committee (ERC) meets twice monthly: the 1st and 3rd Thursdays at 9:30 A.M. Your application may be scheduled for an earlier ERC meeting, if it meets the required noticing deadlines. Please talk to your Planner.

Planning Commission meets the 2nd and 4th Tuesday of each month at 6:45 P.M.

City Council meets the 1st and 3rd Tuesday of each month at 6:45 P.M.

Design Review Committee (DRC) Schedule

Description	Aug 2011		Sept 2011		Oct 2011		Nov 2011		Dec 2011		Jan 2012	
Application Deadline	7/13	7/27	8/10	8/24	9/14	9/28	10/12	10/26	11/16	11/30	12/14	12/28
DRC Meeting	8/4	8/18	9/1	9/15	10/6	10/20	11/3	11/17	12/1	12/15	1/5	1/19

Description	Feb 2012		Mar 2012		Apr 2012		May 2012		Jun 2012		Jul 2012	
Application Deadline	1/11	1/25	2/15	2/29	3/14	3/28	4/11	4/25	5/16	5/30	6/13	6/27
DRC Meeting	2/2	2/16	3/1	3/15	4/5	4/19	5/3	5/17	6/7	6/21	7/5	7/19

The Design Review Committee (DRC) meets the 1st and 3rd Thursdays of each month at 5:00 P.M.

Administrative Hearing (AH) Schedule

Description	Aug 2011		Sept 2011		Oct 2011		Nov 2011		Dec 2011		Jan 2012	
Application Deadline	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12/7	12/21
DRC Meeting	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1/12	1/26

Description	Feb 2012		Mar 2012		Apr 2012		May 2012		Jun 2012		Jul 2012	
Application Deadline	1/4	1/18	2/8	2/22	3/7	3/21	4/4	4/18	5/9	5/23	6/6	6/20
DRC Meeting	2/9	2/23	3/8	3/22	4/12	4/26	5/10	5/24	6/14	6/28	7/12	7/26

The Administrative Hearing (AH) meets the 2nd and 4th Thursdays of each month at 5:00 P.M.



GENERAL INSTRUCTIONS

Community Development Department

10300 Torre Avenue
Cupertino, CA 95014

(408) 777-3308 / Fax (408) 777-3333

planning@cupertino.org

<http://www.cupertino.org/planning>

Step One: Discuss Application with Staff Prior to Submittal

Discuss proposal with Planning, Public Works, Building Department, Central Fire District and County Health Department staff members prior to submittal. The Public Works Confirmation form, if applicable, should be signed by the Public Works Department staff prior to project submittal to the Planning Department. Also, review applicable General Plan policies and Zoning Ordinances. *If the application is complex, a staff member will arrange a conference with other departments to ensure that the application will be complete and consistent with relevant City requirements.* A preliminary planner will be assigned to the project at this time.

Step Two: Fill Out the Application Form

The application must be signed by the legal owner of the property or by an individual with Power of Attorney to represent the legal owner and the applicant, if different. Proof of Power of Attorney must be provided. Include the name, mailing address, e-mail address, phone number and facsimile number of the project contact person.

Step Three: Prepare Plans and/or Special Studies

Obtain the instructions sheets from Planning Staff that describe the content of exhibits needed for the type(s) of application(s) you are filing. Follow the instructions carefully; be sure to include all required contents and the proper number of copies. Fold each sheet to 8 ½" x 11" size, printed size up.

Check with your planner to see if the Architectural Consultant review is required. If so, provide two full size and two 11"x17" sized plan sets and pay the Architectural Deposit fee prior to application submittal. Comments from the Architectural Consultant will be routed to the applicant. Finalize plans, making necessary modifications based on the Consultant's comments.

Complex applications may require special exhibits, such as perspectives, or studies to describe the proposed project; consult with your planner before proceeding. The time required for these studies will be determined by the consultants assigned to the project.

Step Four: Pre-application Conference

A pre-application conference is required prior to submittal. The purpose of the pre-application conference is to determine if the application is ready for submittal. To schedule a pre-application conference, contact your planner.

Step Five: Public Notice/Outreach

Meaningful public outreach is an essential component of facilitating successful developments in the City of Cupertino. All applicants are expected to provide meaningful outreach to neighbors, identifiable stakeholders, and other concerned parties regarding the proposed project. Failure to provide such outreach may become an impediment to the efficient processing of the project during the public hearing stage.

Step Six: Submit Application Materials (Refer to Application Check-off Sheet)

Refer to the Planning Schedule for the filing deadline and tentative public hearing dates of your application. Check for completeness. *Incomplete applications will not be set for hearing.* Applications filed after a deadline will be scheduled for the next hearing date.

Step Seven: Prepare for Hearing

Through the course of the review process, additional issues may arise. The planner will work with you to address those issues and prepare the item for the public hearing. Note the **Public Notice/Outreach** information above in **Step Five**. On the Thursday or Friday prior to the hearing, a copy of the staff report and model resolution will be e-mailed or sent via U.S. Mail to the owner and applicant.



CUPERTINO

SITE PLAN CONTENT REQUIREMENTS

Community Development Department

10300 Torre Avenue
Cupertino, CA 95014

(408) 777-3308 / Fax (408) 777-3333

planning@cupertino.org

<http://www.cupertino.org/planning>

(*) Denotes items that must be verified by a civil engineer (stamped on plan) unless waived by the Project Planner in writing.

- Scale & north arrow
- Lot line dimensions
- Location, size and type of existing trees and trees to be removed (including trees adversely affected by grading) (*)
- Location of Existing and Proposed Uses
 - Building (wall line and eave line) (*)
 - Landscaped Areas
 - Fences and Walls
 - Decks and Balconies
 - Setbacks and Dimensions
 - Signage
- Location of Existing Buildings and identification of their uses on adjoining properties
- Elevations (*)
 - Elevation at top of curb or proposed corners
 - Existing/Proposed Finished Floor elevation
- Driveways/Parking
 - Typical dimensions
 - Compact stall designation
 - Handicapped stall and ramp
 - Bicycle parking area
 - Loading space/areas
- Existing wells
- Refuse Disposal Enclosures (trash enclosures)
- Public Improvements
 - Dedication Area
 - Sidewalk, Curbs
 - Traffic Islands
- Transformer Vaults
 - Show utility vaults. Contact Brian Wing at PG&E (725-2098) prior to submitting application
- Vicinity map
- Lighting Facilities
- Building cross-sections
 - Relation to street grade
 - Relation to structures on adjoining properties
- Topography and elevation of adjoining properties
- Storm Water Treatment Requirements
- Landscape Plans including Xeriscape and Pest-resistant plant materials



CUPERTINO

SITE PLAN CONTENT REQUIREMENTS *(continued)*

Community Development Department

10300 Torre Avenue
Cupertino, CA 95014

(408) 777-3308 / Fax (408) 777-3333

planning@cupertino.org

<http://www.cupertino.org/planning>

Project Summary Table - incorporate into Site Plan

Provide Existing and Proposed figures for each item below:

- Site Area (sq. ft. and acres)
 - Net Area (sq. ft. and acres)
 - Gross Area (sq. ft. and acres)
- Building Area (sq. ft.)
- Floor Area Ratio (FAR – building area / net site area)
- Number of Stories
- Height (feet, measured from natural grade)
- Building Pad Elevation
- Curb Elevation (use curb that is nearest to a building)
- Number of Employees Projected
- Number of Seats (if applicable)
 - Provide separate totals for bar seats and non-bar seats if applicable.
- Parking
 - Required (stalls)
 - Provided (total stalls)
 - Uni-size (number of stalls and % of total)
 - Handicapped (number of stalls)
- Hours of Operation
- Existing Use
- Proposed Use
- Zoning Designation
- General Plan Designation
- Paving Area (sq. ft. and % of net lot area)
- Landscape Area (sq. ft. and % of net lot area)
- If Residential
 - Number of Dwelling Units by Type
 - 1 Bedroom
 - 2 Bedroom
 - 3 Bedroom
- Recreation Area
 - Private (sq. ft. and % of net lot area)
 - Common (sq. ft. and % of net lot area)



CUPERTINO

PUBLIC NOTICE / OUTREACH

Community Development Department

10300 Torre Avenue

Cupertino, CA 95014

(408) 777-3308 / Fax (408) 777-3333

planning@cupertino.org

<http://www.cupertino.org/planning>

PLEASE NOTE:

Meaningful public outreach is an essential component in facilitating successful developments in the City of Cupertino. All applicants are expected to provide meaningful outreach to neighbors, identifiable stakeholders, and other concerned parties regarding the proposed project. Failure to provide such outreach may become an impediment to the efficient processing of the project during the public hearing stage.

For large or complex projects, your planner is available to assist you with your public notice and outreach efforts. Assistance may include, but is not limited to, providing mailing support, parcel identification, and the coordination of community meetings. It is advisable that you work with your planner to plan and document your public outreach efforts.

If you are required to conduct public outreach as part of your application; After the conducting the public outreach deemed appropriate by your planner, please sign below to indicate that you have indeed conducted said public outreach.

X

Applicant's Signature

Date



CUPERTINO

PUBLIC WORKS CONFIRMATION FORM

Public Works Department

10300 Torre Avenue
Cupertino, CA 95014

(408) 777-3354 / Fax (408) 777-3333
publicworks@cupertino.org
http://www.cupertino.org/publicworks

A Public Works confirmation form, if required, must be completed **prior to project submittal** to the Planning Department. The fee for the confirmation is \$258.00. If a Building Permit Application is submitted within one year of the sign-off date at the bottom, the confirmation fee will be applied towards the Public Works Building Permit fee. The purpose of this confirmation is to identify preliminary Public Works issues, which may adversely affect the application. Please submit this form, the fee, and a copy of the site plan to the Public Works Department for review. The Public Works Department can be reached at (408) 777-3354.

Project Address: _____ **Email Address:** _____

Applicant Name: _____ **Phone No:** _____

***** For Public Works Department Use Only *****

PW Confirmation Required (\$258) _____ *PW Confirmation Not Required* _____

Addition: _____ **Single Family Dwelling** _____ **Flood Zone:** _____

Requirements:

- Dedicate Right-of-way (road): _____
- Easement (streetlight): _____
- Offsite improvements required (circled): sidewalk, curb and gutter, curb ramp, driveway, pavement, street light, street tree
- Registered civil engineer required to design grading plans or improvement plans
- Clearly show all utility lines from the house/project site to the street (electric, electric panel, gas, water, sewer). Indicate as new (N) or existing (E)
- Underground all overhead utility service to new house or new electric panel
- Show onsite drainage on site plan with direction and slope percentage
- Include relevant City Standard notes and Details on plans
- Encroachment permit or Development Agreement
- Streamside Permit
- Soils letter/report
- Submit preliminary title report and Quitclaim underground water rights

Comments _____

Signature

Title

Date

GUIDELINES FOR PERSPECTIVE DRAWINGS FOR DISCRETIONARY PERMITS

(Exact type and number of drawings will be determined upon application)

TYPE OF DRAWINGS

Development Type	Hand drawn or computer drawn, limited to building (site not required)	Hand drawn or computer drawn building and site, including existing significant trees.	Hand drawn or computer drawn building and site, with photomontage of site including vegetation (5 yr. Growth if new vegetation)	Model
Single Family Residential Detached Hillside		1 view from up slope looking down to subject house (from public road or trail). Include closest adjoining prominent ridgeline (if applicable).	1 view from down slope looking up from public road, common driveway, or vantage point which represents critical view from public space (if visible).	
Single Family Residential (5 or more units - In a PD Zoning District)	1 view of each building type	1 view of entire project as viewed from each adjoining public street.	To be determined upon application	Highly recommended for 100 or more units.
Attached Residential, Non-hillside	1 view of each building type	1 view of entire project as viewed from each adjoining public street.	To be determined upon application	Highly recommended for 100 or more units.
Non-Residential building if any of the following apply: Less than 5,000 sq.ft. Commercial Less than 10,500 sq.ft. Office/Industrial Less than 30 feet high		1 view of entire project from each adjoining public street. Additional views may be necessary if the project architecture is unique to the extent that it is not understood without additional explanation.	To be determined upon application	
Non-Residential building if any of the following apply: More than 5,000 sq.ft. Commercial More than 10,500 sq.ft. Office/Industrial More than 30 feet high		Same as above plus 1 or more views from a yard of an adjoining residential property (if applicable).	1 view from the edge of a public street looking down the street in a manner to view adjoining buildings and surrounding natural and constructed land features and buildings. More views may be needed to show a relationship to neighborhood.	
Large project containing more than 500,000 sq. ft.		Same as above	Same as above	Highly recommended

Index of Exhibits

- **Notice to Developers and Contractors** **Exhibit A**
Storm Water Regulation Changes
- **Storm Water Treatment Requirements** **Exhibit B**
Impervious Surface Calculation Worksheet for
Projects One Acre or More
- **City of Cupertino Guidance:** **Exhibit C**
Selecting BMPS for Development Projects

Additional information on landscape requirements:

The following pesticide control measures, landscaping techniques, and list of pest resistant plants must be considered in development projects (other than single family). Cupertino's Xeriscape Ordinance also requires use of drought tolerant plants. Landscape plans will need to reflect these requirements.

- **Pesticide Control Measures for Development Projects** **Exhibit D**
Conditions related to reduction of pesticide use
- **Landscape Maintenance Techniques for Pest Reduction** **Exhibit E**
Property Maintenance Fact Sheet
- **Pest Resistant Plant List** **Exhibit F**



NOTICE TO DEVELOPERS AND CONTRACTORS

STORM WATER REGULATION CHANGES

This notice is to inform developers and contractors of new and existing storm water quality regulations.

NPDES Construction General Permit

Construction projects disturbing an area of one (1) acre or more are required to comply with the State of California General National Pollutant Discharge Elimination System (NPDES) Permit for Discharges Associated with Construction Activities ("Construction General Permit").

Compliance with this permit requires submitting a Notice of Intent (NOI) and payment of \$200 + \$20/acre plus 18.5% surcharge to the State Water Resources Control Board, preparation of a Storm Water Pollution Prevention Plan, use of construction best management practices (BMPs) to control storm water runoff quality, and BMP inspection and maintenance.

For copies of the Construction General Permit, the NOI and additional permit information consult the State Water Resources Control Board web site at:

<http://www.swrcb.ca.gov/stormwtr/construction.html>.

Amended Development Best Management Practices (BMP) Requirements

Cupertino and 14 other public agencies in Santa Clara County are required by the San Francisco Regional Water Quality Control Board to place conditions of approval related to permanent storm water quality control on certain development projects. Beginning on *August 15, 2006** these projects consist generally of those creating or replacing *10,000 square feet** or more of impervious surface, including roof areas and pavement. The size threshold had previously been one (1) acre.

Conditions of approval will include the use and maintenance of BMPs for site design and storm water treatment, which must be designed per approved numeric sizing criteria. Owners of properties with treatment BMPs will be required to certify on-going operation and maintenance.

Hydromodification Management Best Management Practice (BMP) Requirements

Certain large projects also may be required to implement hydromodification management BMPs depending upon their size and location in subwatershed areas.

For more information regarding the amended development BMP requirements, contact the Public Works Department at (408) 777-3354.

8/15/06

*Revised

**CITY OF CUPERTINO
STORM WATER TREATMENT REQUIREMENTS**

IMPERVIOUS SURFACE CALCULATION WORKSHEET FOR PROJECTS 10,000 SF OR LARGER

What is an Impervious Surface?
 An impervious surface prevents the infiltration or passage of water into the soil. Examples of impervious surfaces include building rooftops, paved patios, plazas, covered patios, driveways, parking lots, walkways, and streets.

Which Projects Apply?
 New and significant redevelopment projects adding or replacing 10,000 square feet or more of impervious surface are required to comply with storm water treatment requirements. Complete this worksheet to determine if these requirements apply to your project.

Date: _____

Project Name: _____ **APN #** _____ - _____ - _____

Applicant Name: _____ **Phone:** _____

Project Location: _____
 (address)

A. General Project Information:

Residential Commercial Industrial Public Institutional

1. Project Description: _____

2. Lot size _____ (sq. ft.)

3. Existing Impervious Surface on Project Site _____ (sq. ft.)

4. Total area of land disturbance _____ (sq. ft.)

B. Impervious Surface Area Calculation:

Determine the impervious surface area that will result from the project by adding the following surfaces that will be newly constructed or added.

1. Building roof area _____ (sq. ft.)

2. Parking lot, including driveways + _____ (sq. ft.)

3. Walkways + _____ (sq. ft.)

4. Plazas, patios, and courtyards + _____ (sq. ft.)

5. Other (specify _____) + _____ (sq. ft.)

6. **Total new and added impervious surfaces** = _____ (sq. ft.)

Projects with greater than 10,000 square feet of total new or added impervious surface area, as indicated in B.6 above, may be subject to storm water treatment requirements. Contact the Public Works Department at (408) 777-3354 for further guidance. Return completed form to the Public Works Department.



CUPERTINO

EXHIBIT C

City of Cupertino

STAFF ONLY
Building Permit
Date: _____
Permit #: _____

PERMIT PROVISION C.3. IMPERVIOUS SURFACE DATA FORM

All Project Applicants with 5,000 sq. ft. or more of impervious surface on the project site must fill out this worksheet and submit it with the development project application to the Engineering Division of the Public Works Department. Contact Public Works at (408) 777-3354 for guidance

C.3 Regulated Projects are projects that create and/or replace **10,000 sq. ft.** or more of impervious surface on the project site **AND All restaurants, auto service facilities, retail gasoline outlets, and uncovered parking lot projects** that create and/or replace **5,000 sq. ft.** or more of impervious surface on the project site.

All applicants with C.3 Regulated projects must reserve a minimum of 4% of developable surface area for the placement of storm water treatment facilities unless an alternative storm water treatment plan is approved by the Public Works Engineer.

What is an Impervious Surface?

An impervious surface is a covering or pavement that prevents the land's natural ability to absorb and infiltrate rainfall/stormwater. Impervious surfaces include, but are not limited to rooftops, walkways, paved patios, driveways, parking lots, storage areas, concrete and asphalt, and any other continuous watertight pavement or covering. Pervious pavement, underlain with pervious soil or pervious storage material (e.g., drain rock), that infiltrates rainfall at a rate equal to or greater than surrounding unpaved areas OR that stores and infiltrates the water quality design volume specified in Provision C.3.d of the Municipal Regional Stormwater Permit (MRP), is not considered an impervious surface.

Date: _____

APN # _____ - _____ - _____

Project Location: _____
(address)

Project Name: _____ Cross Streets _____

Applicant Name: _____ Applicant's Ph #: _____

Engineer: _____ Engineer's Ph #: _____

Project Phase(s): ____ of ____

Project Description: _____

- Project Type (check all that apply):** New Development Redevelopment
 Public Commercial Industrial Auto Service (SIC code) Uncovered Parking
(5013-5014, 5541, 7532-7534, 7536-7539)
 Residential Restaurant Mixed Use Retail Gas Outlet Other _____

If Residential, does the project consist of a single-family home that is not part of a larger common plan of development? Yes No

If yes, stop here and return sheet 1 only to the Engineering Division of the Public Works Department.

Project Watershed/Receiving Water (creek): _____

2. Project Size:

a. Total Site Area: _____ acre		b. Total Site Area Disturbed: _____ acre (including clearing, grading, or excavating)		
	Existing Area (ft ²)	Proposed Area (ft ²)		Total Post-Project Area (ft ²)
		Replaced	New	
Impervious Area				
	Roof			
	Parking			
	Sidewalks and Streets			
c. Total Impervious Area				
d. Total new and replaced impervious area				
Pervious Area				
	Landscaping			
	Pervious Paving			
	Other (e.g. Green Roof)			
e. Total Pervious Area				
f. Percent Replacement of Impervious Area in Redevelopment Projects (Replaced Total Impervious Area ÷ Existing Total Impervious Area) x 100% = _____%				

3. State Construction General Permit Applicability:

a. Is #2.b. equal to 1 acre or more?

- Yes, applicant must obtain coverage under the State Construction General Permit (i.e., file a Notice of Intent and prepare a Stormwater Pollution Prevention Plan) (see www.swrcb.ca.gov/water_issues/programs/stormwater/construction.shtml for details).
- No, applicant does not need coverage under the State Construction General Permit.

4. MRP Provision C.3 Applicability:

a. Is #2.d. equal to **10,000** sq. ft. or more, or **5,000** sq. ft. or more for restaurants, auto service facilities, retail gas outlets, and uncovered parking?

(*Note that for public projects, the 5,000 sq. ft. threshold does not take effect until 12/1/12.)

- Yes, C.3. source control, site design and treatment requirements apply
- No, C.3. source control and site design requirements may apply – check with local agency

b. Is #2.f. equal to 50% or more?

- Yes, C.3. requirements (site design and source control, as appropriate, and stormwater treatment) apply to entire site
- No, C.3. requirements only apply to impervious area created and/or replaced

5. Hydromodification Management (HM) Applicability:

a. Does project create and/or replace one acre or more of impervious surface AND create an increase in total impervious surface from the pre-project condition?

- Yes (continue) No – exempt from HM, go to page 3

b. Is the project located in an area of HM applicability (green) on the HM Applicability Map? (www.scvurppp-w2k.com/hmp_maps.htm)

- Yes, project must implement HM requirements No – exempt from HM, go to page 3

6. Selection of Specific Stormwater Control Measures:

Site Design Measures

- Minimize land disturbed
- Minimize impervious surfaces
- Minimum-impact street or parking lot design
- Cluster structures/pavement
- Disconnected downspouts
- Pervious pavement
- Green roof
- Microdetention in landscape
- Other self-treating area
- Self-retaining area
- Rainwater harvesting and use (e.g., rain barrel, cistern connected to roof drains)¹
- Preserved open space: _____ ac. or sq. ft
(circle one)
- Protected riparian and wetland areas/buffers (Setback from top of bank: _____ft.)
- Other _____

Source Control Measures

- Alternative building materials
- Wash area/racks, drain to sanitary sewer²
- Covered dumpster area, drain to sanitary sewer²
- Sanitary sewer connection or accessible cleanout for swimming pool/spa/fountain²
- Beneficial landscaping (minimize irrigation, runoff, pesticides and fertilizers; promotes treatment)
- Outdoor material storage protection
- Covers, drains for loading docks, maintenance bays, fueling areas
- Maintenance (pavement sweeping, catch basin cleaning, good housekeeping)
- Storm drain labeling
- Other _____

Treatment Systems

- None (all impervious surface drains to self-retaining areas)
- #### **LID Treatment**
- Rainwater harvest and use (e.g., cistern or rain barrel sized for C.3.d treatment)
 - Infiltration basin
 - Infiltration trench
 - Exfiltration trench
 - Underground detention and infiltration system (e.g. pervious pavement drain rock, large diameter conduit)
- #### **Biotreatment**³
- Bioretention area
 - Flow-through planter
 - Tree box with bioretention soils
 - Other _____

Other Treatment Methods

- Proprietary tree box filter⁴
- Media filter (sand, compost, or proprietary media)
- Vegetated filter strip⁵
- Dry detention basin⁵
- Other _____

¹ Optional site design measure; does not have to be sized to comply with Provision C.3.d treatment requirements.

² Subject to sanitary sewer authority requirements.

³ Biotreatment measures are allowed only with completed feasibility analysis showing that infiltration and rainwater harvest and use are infeasible.

⁴ These treatment measures are only allowed if the project qualifies as a "Special Project".

⁵ These treatment measures are only allowed as part of a multi-step treatment process.

Flow Duration Controls for Hydromodification Management (HM)

- Detention basin
- Underground tank or vault
- Bioretention with outlet control
- Other _____

7. Treatment System Sizing for Projects with Treatment Requirements

Indicate the hydraulic sizing criteria used and provide the calculated design flow or volume:

Treatment System Component	Hydraulic Sizing Criteria Used ³	Design Flow or Volume (cfs or cu.ft.)

³Key: 1a: Volume – WEF Method
 1b: Volume – CASQA BMP Handbook Method
 2a: Flow – Factored Flood Flow Method
 2b: Flow – CASQA BMP Handbook Method
 2c: Flow – Uniform Intensity Method
 3: Combination Flow and Volume Design Basis

8. Condition of Approval for Landscape Plans (use of native plants, tree preservation).

9. Third Party Certification

A qualified consultant (that is not a member of the project team or City staff) will be required to review the treatment system sizing and design and certify the Stormwater Management Plan and/or Hydromodification Flow Control Facilities. A list of qualified consultants can be found at <http://www.scvurppp-w2k.com/consultants.htm>

Name of Reviewer _____

10. Operation & Maintenance Information

- A. Property Owner's Name _____
- B. Responsible Party for Stormwater Treatment/Hydromodification Control O&M:
 - a. Name: _____
 - b. Address: _____
 - c. Phone/E-mail: _____

This section to be completed by Municipal staff.

<p>O&M Responsibility Mechanism Indicate how responsibility for O&M is assured. Check all that apply:</p> <p><input type="checkbox"/> O&M Agreement</p> <p><input type="checkbox"/> Other mechanism that assigns responsibility (describe below): _____</p>
--

STAFF ONLY - Reviewed by:

Community Development Department
 Planning Division: _____

Public Works Department
 Engineering Division: _____

Return form to: Public Works Department **Date** _____



**CITY OF CUPERTINO
URBAN RUNOFF POLLUTION PREVENTION PROGRAM**

**PESTICIDE CONTROL MEASURES
FOR DEVELOPMENT PROJECTS**

If a landscaping plan is required as part of a development project application, the plan shall meet the following conditions related to reduction of pesticide use on the project site:

1. Landscaping shall be designed with efficient irrigation to reduce runoff, promote surface infiltration, and minimize the use of fertilizers and pesticides that can contribute to water pollution.
2. Where feasible, landscaping shall be designed and operated to treat stormwater runoff by incorporating elements that collect, detain, and infiltrate runoff. In areas that provide detention of water, plants that are tolerant of saturated soil conditions and prolonged exposure to water shall be specified.
3. Pest-resistant landscaping plants shall be considered for use throughout the landscaped area, especially along any hardscaped area. The City shall have the authority to approve the installation of comparable substitute pest-resistant plant materials to satisfy the requirements of the approved landscape plan when the approved plants and materials are unavailable for installation, or when other unforeseen conditions prevent the exact implementation of the landscape plan. A copy of the "*Pest Resistant Plants for the San Francisco Bay Area*" list shall be used as a reference.
4. Plant materials selected shall be appropriate to site specific characteristics such as soil type, topography, climate, amount and timing of sunlight, prevailing winds, rainfall, air movement, patterns of land use, ecological consistency and plant interactions to ensure successful establishment.
5. Existing native trees, shrubs, and ground cover shall be retained and incorporated into the landscape plan to the maximum extent possible.
6. Proper maintenance of landscaping, with minimal pesticide use, shall be the responsibility of the property owner.

To obtain a copy of the "*Pest Resistant Plants for the San Francisco Bay Area*" list or for more information on landscaping elements for stormwater treatment, contact the Cupertino Planning Division at (408) 777-3308.

PROPERTY MAINTENANCE FACT SHEET



Santa Clara Valley
Urban Runoff
Pollution Prevention Program

Landscape Maintenance Techniques for Pest Reduction

Who should use this Fact Sheet?

- Development Project Applicants
- City/County Planners
- Landscape Maintenance Personnel
- Landscape Architects
- Homeowners

Why is it Important to Reduce Pesticide Usage?

When it rains, pesticides used in maintaining landscapes and gardens are washed off the plants and soils they are used to protect. This stormwater runs off the landscape and flows to the nearest storm drain, which ultimately carries the water to a local creek or the San Francisco Bay without treatment. Pesticides carried with stormwater into creeks and the Bay are harmful to the fish and other organisms that live there. Minimizing our use of pesticides in landscape maintenance helps protect water quality, aquatic life, and our own health.

What is Integrated Pest Management?



Integrated Pest Management (IPM) is a decision-making process for managing pests that uses monitoring to determine pest-caused injury levels and determine the best methods for their control. IPM uses a combination of:

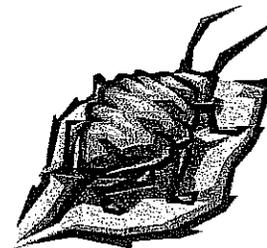
- biological controls (e.g., natural enemies or predators);
- physical or mechanical controls (e.g., hand labor or mowing);
- cultural controls (e.g., mulching, discing, or alternative plant type selection); and
- reduced risk chemical controls (e.g., soaps or oils)

in order to minimize pesticide usage. The IPM method uses the least hazardous pesticides only as a last resort for controlling pests.

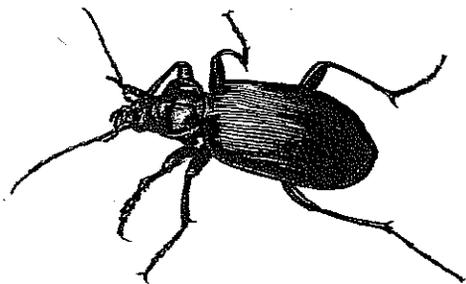
How Can Landscape Design and Maintenance Techniques Reduce Pesticide Usage?

Pesticides are often used in maintaining landscapes. The amount of pesticides entering our waters can be decreased by using alternative design and maintenance techniques that:

- Reduce the potential for the pesticides to run off the landscape;
- Reduce the amount of chemicals necessary to ensure healthy plants or eliminate the need for pesticide usage at all; or,
- Decrease the need for landscape maintenance by designing landscapes that minimize pest infestation and create low maintenance environments.



Refer to the back of this fact sheet for more design and maintenance tips.



Pest Reducing Landscape Design Techniques

- Design the landscape for efficient irrigation and drainage.
- Design the landscape to conform to natural drainage patterns.
- Retain existing native, pest-resistant trees, shrubs and plants.
- Select pest-resistant plants adapted to your specific area. Consider site-specific characteristics such as the soil, topography, climate, amount and timing of sunlight, prevailing winds, rainfall, air movement, patterns of land use, ecological consistency and plant interactions.
- Prevent the need for routine pruning by selecting plants based on their size and shape when mature.
- Situate plants to facilitate maintenance. Install mowing strips, tree wells and pathway edging to reduce problems associated with maintaining the interface between different elements of the design.
- Plant at the right time of year.

Pest Reducing Landscape Maintenance Techniques

- Employ Integrated Pest Management methods before using chemical pesticides to treat a pest problem (i.e., biological, physical and cultural controls).
- If pesticides are necessary, use the least toxic pesticide available. Avoid use of organophosphates such as diazinon and chlorpyrifos (Dursban) as well as copper-based pesticides.
- Do not over apply pesticide. Spray only where the infestation exists. Follow the manufacturer's instructions for mixing and applying materials.
- Properly sweep up spilled fertilizers or pesticides. Do not wash away or bury such spills.
- Properly dispose of chemical wastes by recycling, reusing, or disposing of as hazardous waste. Do not dispose of debris into or near channels or other waterways or leave it where it may contact runoff.
- Apply pesticides at the appropriate time to maximize their effectiveness and minimize the likelihood of discharging undegraded pesticides into runoff. With the exception of pre-emergent pesticides, avoid application if rain is expected.
- Maintain healthy soils by incorporating organic matter, making regular pH adjustments, and appropriately fertilizing.
- Do not overwater.
- Do not allow irrigation overspray.
- Prune to increase air circulation but do not overprune.
- Apply 2-4 inches of mulch or geotextiles to exposed soils to prevent weed growth.
- Mow lawns and turf high and leave clippings in place.
- Replace problem plants with locally-adapted, pest resistant plants.
- Remove, rake up and dispose of diseased plant parts.

ADDITIONAL RESOURCES

IPM Access,
www.efn.org/~ipmpa, *IPM Based Landscape Design*.

Bio-Integral Resource Center
(BIRC) (510) 524-2567

Central Contra Costa County Sanitary District
Our Water Our World IPM Fact Sheets
www.centrialsan.org

San Francisco Department of the Environment
www.sfenvironment.com

www.watershedwatch.net



Pest Resistant Plant List www.scvurppp.org

University of California Cooperative Extension
Master Gardeners (in the phone book)

University of California IPM (800) 994-8849
www.ipm.ucdavis.edu

- Natural Enemies Handbook: The Illustrated Guide to Biological Pest Control
- The UC Guide to Solving Garden and Landscape Problems: An Interactive CD- ROM
- Pests of Landscape Trees and Shrubs

PLANT TYPE	COMMON NAME	GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES [SZ]	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
TREE	Acacia	Acacia	Acacia: <i>saligna</i> , <i>obtusata</i> , <i>spectabilis</i> , <i>pendula</i> , <i>implexa</i> , <i>cyclops</i> , <i>longifolia</i> , <i>penninervis</i> , * <i>melanoxylon</i> , <i>retinodes</i>	Acacia: <i>aspera</i> [SZ 8,9,14-17] <i>podalyriifolia</i> , <i>baileyana</i> , <i>pravissima</i> [SZ 4-17] <i>craspedocarpa</i> , <i>armata</i> , <i>karoo</i> [SZ 4-17] <i>cardiophylla</i> , <i>giraffae</i> , <i>dealbata</i> [SZ 8,9,14-17], <i>gerardii</i> , <i>albida</i> , <i>collettoides</i>		Acacia psyllid (Acizzia <i>uncatooides</i>)	Acacia: <i>cultriformis</i> , <i>decurrrens</i> , <i>robusta</i> , <i>mearnsii</i> , <i>cunninghami</i> , <i>keaphylla</i> , <i>cyanophyulla</i> , <i>triptera</i>	Journal of Environmental Horticulture (JEH). 1:65-67. Cited in Pests of Landscape Trees & Shrubs (PLTS)
	Ash (white)	Fraxinus	Green Ash	<i>F. Americana</i> [SZ 7-9, 14-17]		Ash Anthracnose		Journal of Arboriculture (JA) V28, No1
	Apple	<i>Malus</i>	<i>M. Sylvestris</i> 'Gala'		Delicious (SZ 7), Empire (SZ 7, 14-16), Golden Delicious [SZ 7-9, 14-17], Honeycrisp (SZ 7, 14-16), Hudson's Golden Gem (SZ 7, 14-16), Liberty (SZ 7-9, 14-16), Stayman (SZ 7), William's Pride (SZ 7), Winesap Harcot (SZ 7-9, 14-16), Harglow (SZ 7-9, 14-16), Tilton (SZ 7-9, 14-	Fireblight (Erwinia <i>amylovora</i>)		SWGPS Sunset Wester Garden Book. 2001 edition. (SWGGB)
	Apricot	<i>Prunus</i>	<i>armeniaca</i>			Brown rot		SWGPS, SWGB

PLANT TYPE	COMMON NAME	GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
TREE	Birch (European White, Jacquemonti & E. White Weeping)	Betula	B. Pendula, B. Jacquemontii, B. Pendula 'Youngii'	River Birch (B. Nigra) [SZ 7-9, 14-17]	Heritage River Birch (Betula nigra 'Heritage')	Bronze Birch Borer (<i>Agrilus anxius</i>)	Sweet Birch (B. Lent) Yellow Birch (B. Lutea) Paper Birch (B. Papyrifera) Whitespire Birch (B. Platyphylla japonica 'Whitespire', [SZ SZ 7-9, 14-24] Gray Birch (B. Populifolia	Pests: Bronze Birch Borer, 2000. The Morton Arboretum.
	Box elder	Acer	negundo (females)	negundo (males) [SZ 7-9, 14-17]		Boxelder bug (<i>Boisea trivittata</i>)		
	CA peppertree	Schinus	molle	Peppermint tree (<i>Agonis flexuosa</i>) [SZ 15-17] Narrow-leaved pittosporum (<i>Pittosporum phillyraeoides</i>) [SZ 8, 9, 14-17] Australian willow (<i>Geijera parviflora</i>) [SZ 8, 9, 14-17]		Peppertree psyllid (<i>Calophya rubra</i>)		PLTS
	CA white alder	Alnus	rhombifolia	cordata (Italian alder) [SZ 7-9, 14-17]		Flatheaded alder borer (<i>Agrilus burkeii</i>)		PLTS
	Cherry	Prunus	avium		Angela, Chinook	Buckskin disease vectored by leafhoppers		SWGPS

PLANT TYPE	COMMON NAME	GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
TREE & SHRUBS	Crabapple	<i>Malus</i>	<i>Malus x arnoldiana</i> Almey, <i>M. lomsii</i> 'Plena' (Bechtel Crabapple) <i>M. Oekonomlesatopa</i> <i>Echternfer Madora</i> (Pink Weeper) <i>M. Purple Wave</i> <i>M. X purpurea Eleyi</i> Royalty, Golden Gem, Golden Horn, Henry F. Dupont, Shakers Gold, Silver Moon, Snow Drift, Van Eseltine, Zumi, Beverly, Dorthea	<i>M. Sargentii</i> (Sargent crabapple)	[SZ SZ 7-9, 14-17] Adirondack, Ames White, Autumn Glory, Baskatong, Beauty, Coral Cascade, David, Donald Wyman, Gibb's Golden Gage, Golden Raindrops, Gwendolyn, Harvest Gold, Indian Summer, Molten Lava, Mount Arbor Specian, Naragansett, Prariefire, Profesor Sprengber, Purple Prince, Red Snow, Tina, Wies	Fireblight (Erwinia amylovora)	Cultivated varieties: Adams, Albright, Albi-plana, Brandywine, Callaway, Candied Apple, Coralburst, Dolgo, Dorothea, Gorgeous, Katherine, Jewelbug, Liset, Mary Potter, Profusion, Radiant, Red Jewel, Red jade, Royal fountain, Riversii, Roseau, Sargent Crab, Selkirk, Sissipuk, Snowbank, Vanguard <i>M. X atrosanguineum</i> (Cammine crabapple), <i>M. coronaria</i> Charlottae, <i>M. floribunda</i> (Japanese flowering crabapple), <i>M. hupehensis</i> (Tea Crabapple)	VCE, Disease and Insect Resistant Woody Ornamentals, Georgia Cooperative Extension. (DIR) Pest Resistant Ornamental Plants, 1999. Smith-Fiola. (PRO) Manual of Woody Landscape Plants, 1990. Dirr. (MWLP) SWG B
	Crape myrtle	<i>Lagerströmia</i>	<i>Indica</i>		<i>L. Hybrids: [SZ SZ 7-9, 14]</i> Acoma, Apalachee, Bifoxi, Catawba, Cherokee, Comanche, Hopi,	Powdery Mildew	Baton Rouge' & 'Purple Velvet'	Louisiana Agriculture 45(1) Winter 2002 VCE SWG B

PLANT TYPE	COMMON NAME GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
TREE	Crabapple	<i>Malus</i>		Osage, Pecos, Powhatan, Seminole, Sioux, Tuscarora,	Powdery Mildew		Louisiana Agriculture 45(1) Winter 2002 VCE SWGGB
	Elm	<i>europaeus</i> (European) <i>procera</i> (English) <i>glabara</i> (Scotch)	<i>parvifolia</i> (evergreen) [SZ 7-9, 14-17] U. <i>Japonica</i> (Japanese elm) <i>U. wilsoniana</i> <i>U. Changii</i> , <i>U. Lanceaefolia</i> , <i>U. Prunifolia</i> , <i>U. Pseudopropinqua</i> , <i>U. Talhangshanensis</i> (Asian Elms from China)	<i>U. Japonica</i> X <i>U. Wilsoniana</i> Accolade	Elm leaf beetle (<i>Xanthogaleruca luteola</i>)	<i>Ulmus pumila</i> (Siberian elm) U. <i>Americana</i> (American elm)	PLTS Journal of Economic Entomology (JEE). V90. N6. Pages 1641-1645 JEE V. 94 N1. Pages 162-166
	Elm (European & American)	<i>americana</i> (American) <i>europaeus</i> (European) <i>procera</i> (English) <i>glabara</i> (Scotch)	<i>Zelkova serrata</i> (Japanese zelkova) [SZ 7-9, 14-21] <i>Celtis</i> spp. (Hackberry) [SZ Zones vary by species]		European elm scale (<i>Gossyparia spuria</i>)		PLTS

PLANT TYPE	COMMON NAME	GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
TREE	Elm	<i>Ulmus</i>	<i>europaeus</i> (European) <i>procera</i> (English) <i>glabara</i> (Scotch)	American Elm (U. americana) [SZ 7-9,14-17] Prospector Elm (U. wilsoniana) [SZ 7-9,14-17] Frontier Elm (U. carpinifolia X parvifolia) [SZ 7-9,14-21]	Liberty & 8630, Prospector, Frontier, Bailey Forge, New Harmony, Ohio, Pathfinder, Dynasty, Homestead	Dutch Elm Disease (<i>Ophiostoma ulmi</i>) Carried & spread by bark beetles.		JA 24(1) January 1998. Western Arborist V24 N3, Fall 1998. SWGB
	Eucalyptus: Blue gum, Karri gum, Sydney blue gum, Manna gum	<i>Eucalyptus</i>	<i>globulus</i> (Blue gum) <i>diversicolor</i> (Karri gum) <i>viminialis</i> (Manna gum)	[SZ 8,14-17] Red river gum (E. camaldulensis) Sugar gum (E. Cladocalyx Swamp mahogany (E. Robusta) Red ironbark (E.		Eucalyptus longhorned borer (<i>Phoracantha semipunctata</i>)		PLTS
	Honey locust	<i>Gleditsia</i>	<i>triacanthos</i>	Sunburst		Honeylocust pod gall midge (<i>Dasineura gleditschiae</i>)	Shademaster	PLTS
	Northern white cedar	<i>Thuja</i>	<i>occidentalis</i>	<i>plicata</i> (Western red cedar) [SZ 1-9,14-17]		Cypress tip miner (<i>Argyresthia cupressella</i>)		PLTS
	Peach	<i>Prunus</i>	<i>persica</i>		Frost [SZ SZ 7-9,14] Q1-8 [SZ SZ 7-9,14,15] deformans)	Peach leaf curl (<i>Taphrina deformans</i>)		SWGPS
	Eastern red cedar	<i>Juniperus</i>	<i>virginiana</i> 'Cupressifolia'	<i>chinensis</i> (Chinese juniper) [SZ 7-9,14-17]	sargentii' glauca Kaizuka	Cypress tip miner (<i>Argyresthia cupressella</i>)		PLTS

PLANT TYPE	COMMON NAME	GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
TREE	Eastern red cedar	<i>Juniperus</i>	<i>virginiana</i> 'Cupressifolia'	<i>scopulorum</i> (Rocky mountain juniper) [SZ 7-9,14-17]	Erecta glauca	Cypress tip miner (<i>Argyresthia cupressella</i>)		PLTS
	Italian cypress, birch, ceanothus, fir, maple, poplar, redbud and willow	<i>Cupressus</i> , <i>Betula</i> , <i>Ceanothus</i> , <i>Abies</i> , <i>Acer</i> , <i>Populus</i> , <i>Cercis</i> , <i>Salix</i>	<i>sempervirens</i> (Italian cypress)	Poplar hybrids (<i>Populus</i> spp.)	Nor', 'Easter', 'Platte', 'Mighty Mo'	Cytospora canker (<i>Cytospora</i> spp.)		PLTS
	London plane	<i>Platanus</i>	<i>X acerifolia</i>		Bloodgood'	Powdery Mildew		PLTS
	London plane	<i>Platanus</i>	<i>X acerifolia</i>		Yanwood'	Sycamore anthracnose		PLTS

PLANT TYPE	COMMON NAME GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
TREE	Monterey, Knobcone & Bishop pine <i>Pinus</i>	<i>P. Radiata, attenuata</i> & <i>muricata</i> . INFECTED IN GREENHOUSE, BUT & SIGNIFICANT NUMBERS OF NATURALLY INFECTED HAVE BEEN OBSERVED: <i>P. Contorta</i> (Shore pine), <i>P. Halepensis</i> (Aleppo pine)	Canary Island pine (<i>P. Canariensis</i>) [SZ 8,9,14-17], Italian stone pine (<i>P. Pinea</i>) [SZ 8,9,14-17] African Yew Pine (<i>Podocarpus gracilior</i>) SZ 8,9,14-17] River She Oak (<i>Casuarina cunninghamiana</i>) [SZ 8,9,14-17] RESISTANT IN GREENHOUSE, NOT INFECTED IN FIELD, BUT NOT NEAR INFECTIONS: Japanese black pine (<i>P. thunbergiana</i>) [SZ		Pine pitch canker (<i>Fusarium subglutinans</i>) carried by twig & cone beetles	INFECTED IN GREENHOUSE TESTING, BUT SIGNIFICANT NUMBERS OF NATURALLY INFECTED HAVE NOT BEEN OBSERVED: <i>P. Coulteri</i> (Coulter pine), <i>P. Jeffreyi</i> (<i>Jeffrey pine</i>), <i>P. Lambertiana</i> (Sugar pine), <i>P. Ponderosa</i> (<i>Ponderosa pine</i>), <i>P. Sabiniana</i> (Gray pine)	PLTS Hort Script #9 University of CA Cooperative Extension, October 1994, The Pitch Canker Epidemic in CA, 2001. Gordon, Store & Wood. Plant Disease/v.85, No. 11, pages 1128-1139.
	Pear (Bradford - ornamental) <i>Pyrus</i>	<i>P. calleryana</i> varieties: 'Aristocrat', 'Autumn blaze', 'Redspire', 'Capital'	<i>Pyrus betulifolia</i>	<i>P. calleryana</i> varieties: Bradford, Capitol, Dancer, Chatnicleer, Red Spire [SZ 7-9,14-	Fireblight (<i>Erwinia amylovora</i>)		PLTS, DIR, PRO, MWLP

PLANT TYPE	COMMON NAME	GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
TREE	Pear	<i>Pyrus</i>	<i>P. communis</i> varieties: Bartlett, Bosc, Clapp, Favorite, Max-Red, Sensation, Red Bartlett		<i>P. communis</i> varieties all adapted to SZ 7-9 & 14-17: Conference, Fan Stil, Flordahome, Harrow Delight, Kleffer, Hood, Magness, Monterey,	Fireblight (Erwinia amylovora)	<i>P. Communis</i> varieties: Seckel, Winter Nellis	SWGPS, SWGB

PLANT TYPE	COMMON NAME	GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
SHRUB	Indian hawthorne	<i>Rhaiolepis</i>	<i>indica</i> : 'Bay Breeze'		<i>R. Indica</i> [SZ 8-9, 14-17] Clara, Eleanor Tabor, Pink Lady, Snow White, Majestic	<i>Entomosporium</i> (leaf spot)		DIR, PRO, MWLP
	Japanese euonymus	<i>Eonymus</i>	<i>japonica</i>	Winged euonymus (<i>Euonymus alata</i>) [SZ 8, 9, 14-17]		<i>Euonymus scale</i> (<i>Unaspis euonymi</i>)	E. <i>Kiautschovica</i> [SZ 7, 9, 14-17]	PLTS
	Fuchsia	<i>Fuchsia</i>	Cultivars: Angel's flight, Bicentennial, Capri, China doll, Christy, Dark eyes, Display, Firebird, First love, Golden anne, Jingle bells, Kaleidoscope, Kathy louise, Lisa, Louise emershaw, Manrinka, Novella, Papoose, Raspberry, South gate, Stardust, Swingtime, Tinker bell, Troubadour, Vienna waltz., Voodoo, Westergelst Species: <i>Fuchsia magellanica</i> . 'Campo Thilco'	<i>F. Boliviana</i> [SZ 17], <i>F. Camposporti</i> [SZ 7-9, 14-17], <i>F. Minutiflora</i> , <i>F. Microphylla</i> subsp. <i>Hindalgensis</i> , <i>F. Radicans</i> , <i>F. Thymifolia</i> , <i>F. Tincta</i> , <i>F. Venusta</i>	Baby chang, Chance encounter, Cinnabarina, Isis, Mendocino mini, Miniature jewels, Ocean mist, Space shuttle	<i>Fuchsia gall mite</i> (<i>Auculops fuchsiae</i>)	Species: Tree fuchsia (<i>F. arborescens</i>) <i>F. denticulata</i> [SZ 17], <i>F. gehrigeri</i> , <i>F. macrophylla</i> , Trailing fuchsia (<i>F. procumbens</i>) [SZ 15-17], <i>F. triphylla</i> [SZ 14-17], Cultivars: Dollar princess, Englander, Golden west, Lena, Macchupicchu, Pink marshmallow, Postijon, Psychedelic	PLTS. Sunset Western Garden Problem Solver. 1998. Sunset Books Inc. (SWGPS). SWGB

PLANT TYPE	COMMON NAME	GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
SHRUB	Rosa	<i>Rosa</i> spp.			French Lace, Iceberg, Intrigue, Koricole, Lavaglut, Playboy, Playgirl, Regensberg, Rob Roy, Sarabande, Sexy Rexy, Grandifloras: Love, Prima Donna, Sonia Hybrid Teas: Bobby Charlton, Bride's Dream, Canadian White, Star, Cary Grant, Chablis, Dainty Bess, Duet, Electron, Elina, Elizabeth Taylor, Elmhurst, Folklore, H. Schmidt [SZ 7- 9,14-17]	Powdery Mildew		PLTS, Virginia Cooperative Extension http://www.ext.vt.edu/pubs/plantdiseafs/450-616/450-616.html

PLANT TYPE	COMMON NAME	GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
GROUND COVER	Chewings fescue	<i>Festuca</i>	<i>rubra</i> 'commutata'		Jamestown II	Lawn moths (Lucerne moth - <i>Nomophila noctuella</i> . Sod webworms - <i>Tehama bonifatella</i> , <i>Crambus sperryellus</i>)		UC IPM Pest Management Guidelines. For Turf Publication 3365-T (UCT). SWGSPS
	Creeping red fescue	<i>Festuca</i>	<i>rubra</i> 'rubra'		Dawson, Ruby	Powdery Mildew		SWGSPS
	Strawberry	<i>Fragaria</i>	<i>anamassa</i> varieties: Toklat & Douglas		Shuksan	Gray mold		SWGSPS, SWGGB
	Strawberry	<i>Fragaria</i>	<i>anamassa</i> variety Camarossa		Aromas, Benton, Hood, Puget Beauty, Tillikum, Tristan	Powdery Mildew	Brighton	SWGSPS, SWGGB
	Strawberry	<i>Fragaria</i>	<i>Xanayasa</i> or sp 'Selva' 'Chandler'		Muir, Oso Grande, Seascapae, Capitola, Sunset, Aromas, Diamante, Pacific, Tioga, Cuesta, Camarosa, Carlsbad, Gaviota, C207	Two spot mite (<i>Tetranychus urticae</i>)		Journal of American Society of Horticultural Science (JASHS) 127(2):230-237. 2002

PLANT TYPE	COMMON NAME	GENUS	SUSCEPTIBLE SPECIES OR VARIETIES	RESISTANT SPECIES & SUNSET ZONES	RESISTANT VARIETIES & SUNSET ZONES	RESISTANT TO:	MODERATE RESISTANCE	REFERENCE
SHRUB	Rhododendron	Rhododendron	<i>R. davidsonianianum</i> <i>R. discolor</i> , <i>R. ciliatum</i> , <i>R. yunnanense</i> , <i>R. conctenans</i> , <i>R. imperator</i> , <i>R. euryiphon</i> , <i>R. hippophaeoides</i> , <i>R. praestans</i> , <i>R. diaprepes</i> , <i>R. xanthocodon</i> , <i>R. campylogynum</i> , <i>R. adenophorum</i> , <i>R. vernicosum</i> , <i>R. creotrephe</i> . Hybrids: Rainbow, Point Defiance, Naomi, Pilgrim, Letty Edwards, Odee Wright, Moonstone, Lady Clementine Mitford, Candi, Graf Zeppelin, Snow Lady, Loderi Pink Diamond, Faggetter's Favourite	<i>R. heliolepis</i> , <i>R. impeditum</i> , <i>R. scintillans</i> , <i>R. Burmanicum</i> [SZ 15-17]	P. J. Mezzit (P. J.M.) [SZ -	Black vine weevils (<i>Sciotoptithes obscures</i> , <i>Otorhynchus sulcatus</i> , <i>O. singularis</i> , <i>Nemocestes incomptus</i> & <i>Drysiobus spp.</i>	Hybrids: Jock, Sapphire, Rose Elf, Cilpimense, Lucky Strike, Exbury, Virginia Richards, Cowslip, Suscombei, Vanessa, Oceanlake, Dora Amateis, Crest. <i>R. Dauricum</i> , <i>Intricatum</i> , <i>Minus</i> , <i>Desquamatum</i> , <i>Ferrugineum</i> , <i>Hemsleyanum</i> , <i>Cuneatum</i> , <i>fastigiatum</i> , <i>yakusimanum</i> , <i>R. ungeronii</i> , <i>rubiginosum</i> , <i>irroratum</i> , <i>racemosum</i> , <i>rusatum</i> , <i>carolinianum</i> , <i>oreodaxa</i>	Washington Cooperative Extension Bulletin 0970
	Rosa	<i>Rosa spp.</i>			Simplicity, Meidiland Floribundas: Class Act, Escapade,	Powdery Mildew		PLTS