Pests, Diseases and Viruses of Camellias

Anhids and	Small sucking insects that weaken host camellia and can spread more
Thrins	serious diseases. Control by spraying water on plant with the base or
111105	use insecticidal soan or pyrethrum
Catornillars	Usually the Januar of cabbage white and the light brown apple meth
Caterpinars	ovident by rolled up leaves. For a small infestation simply squash the
	relied up logues or for a larger infectation sprouwith DT (Decillus
	thusing ingential incontinities of a Direct on Success
	thuringlensis) insecticide e.g. Diper or success
Scale	Can be found on unnealthy camellias or in container grown plants, or
	plants neavy snade or dry conditions. Scales are small insects covered
	by rounded outer "shell" (scale) that can be white, brown or black.
	Ants and sooty mould are usually also present. Control the ants and
	use horticultural oil to control the scale and sooty mould. A second or
	third spray may be required to kill off further hatchings.
Weevils	Scalloped chew marks are a sign of damage by European garden
	weevil. Weevils are nocturnal so use trap boards strategically placed
	on the ground near the base of the plant to control infestations. Also
	control host weeds such as capeweed to break food cycle. Chemical
	control use insecticide specified for weevil attack.
Mites	Usually Two Spotted mite (red spider mite) or Eriophyid mites and
	more recently Ribbed Tea Mite (also an Eriophyid mite)
	Two spotted mites are tiny pinkish-red mites clustering on the
	underside of leaves often producing fine webbing. They are related
	to spiders having four pairs of leg. The usually occur over hotter
	months in dry still conditions and their life cycle is completed in a
	week.
	Eriophyid mites are difficult to see without a magnifying device.
	Symptoms include odd colour patches on leaf surfaces, leaf margins
	that roll inward or downward, swollen and distorted leaves, gall
	russeting and "witches brooms".
	In recent years camellias in many areas of Australia have been
	attacked by the Ribbed Tea Mite (Calacarus carinatus). They are tiny,
	worm-like creatures that are also called purple mite because they can
	take on a purple colour at certain times of the year. Symptoms are
	bronzing of the entire leaf with the overall effect of making the plant
	look like it is sun scorched. These mites are different from Two
	Spotted mite in that they are very particular about the host plants
	that they choose.
	Mites are most prevalent in dry conditions and do not like moist
	humid conditions
	Chemical control is for the most part useless as they have become
	resistant. So changing the host environment is heneficial hosing the
	foliage and pruning of overhead branches shading the plant
	Biological control of mites by use of predatory mites that can be
	nurchased on-line. Predatory mites are highly suscentible to
	chamical encours on use with coution
1	chemical sprays so use with Caution.

Diseases

Sooty Mould	An unsightly black sticky substance which grows on the secretions of
	aphids and scale. Control by controlling ants which farm the scale, the
	scale and aphids. See above for control methods.
Botrytis	A very common air borne fungal disease affecting camellias causing
	premature aging of blooms and brown spots especially in the centre of
	flowers. Grey hair like structures on the base of blooms is
	confirmation of botrytis. Botrytis is seasonal commencing in Autumn
	on Sasanqua camellias and continuing throughout the season. Botrytis
	favour moist, still conditions. Control by trimming affected plants to
	allow for better air movement. Chemical control by use of most rose
	fungicides.
	One of the most serious diseases of camellias. It is caused by the
Camellia	fungus. Symptoms are suddenly yellowing leaves, grey blotches on the
Dieback and	bark and stem, and then sunken areas (cankers) eventually girdling the
Canker	stem. Plant parts above the canker lose vigour, wilt and die. Damage is
(Glomerella	usually most obvious during hot, dry weather.
cingulate)	Prevention is by keeping camellias as healthy as possible by planting
	in well-drained ericaceous soil, avoid wounding and fertilizing
	appropriately. Diseased twigs must be removed by pruning several
	inches below the cankered areas. Ensure tools are well disinfected (use
	solution of 1 part household bleach to 9 parts water) between cuts.
	Chemical control may be required with appropriate fungicide
	according to manufacturer's directions e.g. Yates Anti-Rot.
Leaf Gall	Common to Sasanqua camellias usually observed on new growth in
	spring. New shoots and leaves appear abnormal, enlarged, thickened,
cameillae)	liesny and pinkish in colour. The gails rupture on the undersides of the
	and become brown. Demoge can be severe
	Prevention: remove and destroy galls before they runture and spores
	are released. Bake up and remove fallen leaves. Avoid wetting the
	leaves when watering Humid moist shady conditions fayour gall
	formation
Root rots.	A problem of seedlings and cuttings in potting mixes rather than in the
Phytophthora	garden. The use of anti-rot fungicides as a preventative drench and the
and Pythium	use of household bleach/water solution when cleaning pots is
·····	recommended.
	In larger plants both pots and garden usually are a secondary issue
	taking place where there are pH issues or micro nutrient problem.
	Maintaining soil pH at a range of 5.5-6.5 (both pots and garden) will
	help camellias healthy and in potted plans regular re-potting even if no
	pot increase in spring and a complete fertilizer in autumn help.
Camellia Petal	Not a major problem in camellias at the moment in Australia but is
Blight (Ciborinia	common in other countries China, Japan, USA, Western Europe most
camelliae)	recently in NZ and UK. It is an airborne fungus favouring wet, cool
	weather at flowering time, with spores landing on camellia blooms,
	turning them brown and mushy in as little as a day. Small hard
	fruiting bodies called sclerotia form. Affected blooms fall to the

	ground and the scleroita over winter and in the following season form
	fruiting bodies which shed spores and the life cycle starts again.
	Chemical control is almost useless and even cleaning up affected
	blooms both on the ground and on the plant will be of little use as
	wind spread has been found to be as far as 300kl a season. The
	greatest danger to Australia is the importation of affect plants and soil
	contamination on shoes. As for Azaleas a protective spray, e.g. Yates
	Mancozeb Plus or Yates Zaleton Dual Action Systemic Fungicide (in
	garden situations) may provide a small help.
Bud Drop	Camellia flower buds drop off before opening or the tips of young
	buds turn brown.
	There are different reasons for bud drop but the most common is large
	fluctuations in temperature or moisture. Avoid planting varieties that
	bloom late in the spring and plant in a shadier, cooler location. Other
	causes are plant stresses due to lack of nutrients, poor soils or drainage
	or an excessive use of nitrogenous fertilizers. Nitrogenous fertilizers
	are best applied after flowering. Also mite attacks may cause bud
	drops.

Virus/Other

Camellia Yellow	Affects C. Sasanqua, C. Japonica, C. Reticulata. A viral disease that
Mottle Virus	overwinters in infected host plants. Symptoms usually being a few
	young leaves on a branch develop yellow mottle which can be
	marginal, irregularly blotched or speckled. Flowers may also display
	speckling or marbled appearance. The Spread is not by pests or
	disease but by propagation and grafting practices and there is no cure
	for infected plants.
Oedema	Is an environmental problem not caused by pests or diseases.
	Symptoms are as small bumps on the lower sides of leaves or on
	stems. The bumps are tiny clusters of cells that divide, expand and
	break out of the normal leaf surface. They form into rust coloured
	swellings with corky texture. Oedema is a condition promoted by
	warm weather and sudden cool weather change and abundant soil
	water where the plant takes up more water than is lost through the
	leaves. Excess water accumulates in the leaves and is expelled by
	bursting cells.
	Prevention: Avoid excessive watering specially during cloudy, humid
	weather and increase air movement through the plant.