Spring 2008

# Tree Times

## **Recognizing and Combating Pine Bark Beetles**

tree business."

ne of those issues that periodically raises its ugly head is traumatic for pine trees as well as pine tree owners. Infestations of southern pine beetles and their sometimes equally destructive cousins can

be not unlike a bibli-

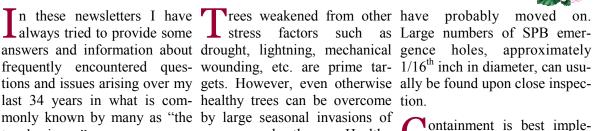
cal plague when they invade host stands of large established pines. Very often these pines **\\_** and unless pitch constitute important visual and tubes are present, noise privacy screening for a the first generally property. And while pines may recognized sign of not be the best choice for such trouble is a brownscreening, it's also true that you ing of the needles have what you have and you in the upper candon't want to lose it.

Outhern pine beetles, turpentine beetles, and ips beetles can all be implicated in the systematic decline and death of important stands of pine trees. However, maybe the most prevalent one in this area is the

southern pine beetle (SPB), which also can be the vector for the equally destructive Blue Stain Fungus in

dio homing signal.

'host trees'. **SPBs** 

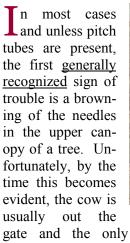


beetles. Healthy trees will usually put up a fight, attempting to repel the hostiles "pitching out" the attackers with plugs of resinous gummy sap. Here the scebecomes nario much like a medieval siege against the

castle walls, a standoff in which the

outcome is uncertain.

Pine Beetle pitch tubes



reasonable response then is containment of the spread. This is

because important pine bark beetles. whether SPB, Turpentine, or ips, will march down a row of conifers like a firestorm, going

> from one tree to the next.

are brown to black in color and Cometimes traces of sawdust about 3mm long. Initial SPB (frass) can be observed at attacks usually occur from mid- the base of trees under attack. trunk to the lower crown. After This residue can be the product the first arrival, pheromone and of a secondary opportunistic weak host attractants draw in pest called Ambrosia beetles. the mass attack not unlike a ra- Therefore, as stated above, at this point the initial attackers

Southern Pine Beetle

ontainment is best imple-✓ mented in two parts. First. the infected tree or trees, including stumps, must be cut down and removed. Beetles overwinter and lay their eggs in galleries in the wood tissue under the bark. If left, this nearby dead wood can be a launching pad for more damage. If trees are showing signs of partial or initial browning it is usually advisable to include them in the removal list since a reversal or 'cure' is possible but not likely.



Pine Beetle galleries under bark

art two of response is to treat adjacent still healthy (fully green) trees with insecticidal treatment. Because different beetle species will initially attack different places on the

trunk

and/or

primary branches an overall spray application of all wood tissue may be safest and work

best.

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# **Good Tips When Hiring Tree Trimmers**

winter's excuses. And every spring our quality. trees come back into leaf and the deadwood that partly hid from us through the winter's gray drizzle becomes very visible again, sometimes not so subtly suggesting that preemption may be one key to disaster avoidance.

**↑** Then you begin to think of shopping for needed tree work, there are a number of points to keep in mind. The list below is not comprehensive but is none-the-less use-

Your trees have value and need periodic pruning about every 3 –5 years. This first

one is probably self-evident but you might their feet. This wounds, defaces, and can be surprised how many folks just let it slide. Regular pruning and deadwooding prevents multiple problems that can sometimes become irreversible.

- Don't be entirely sold on the basis of the cost of the work alone. Compare apples and apples. Full service can sometimes cost more, but like most other things, you get what you pay for.
- To help ensure knowledge and a quality result, look for company memberships in national professional organizations and

pring is here again. For most of us it's supervisor/worker arborist certifications, mistake is known as Uthe time of 'coming back alive' and so Increasingly the International Society of "lion-tailing", it invites attention to a hundred different Arboriculture's Certified Arborist creden- which is the practice of excessive interior projects that may have been put off with tial is a mark of standardized training and pruning that gives the branches a heavily

> Be sure that liability insurance and workers' compensation are in place and adequate. Upon request, the salesman will have their insurance company send you a

> > certificate U.S.mail. It is not something 'the tree • glove box.

Except for removals and/or for emergency rescue use, do not allow crews to climb your trees spikes steel

also open entry or infection points for various subsequent problems.

25 % to 30% is a recommended limit on green foliage/bud removal in one growing season. Except in extraordinary circumstances, do not allow your trees to be 'topped'. Topping is NOT an accepted arboricultural practice. Aside from the stress aspect of removal of sugar producing leaf tissue, topping creates multiple additional problems, including abnormal form, rot points, and weak failure prone attachment of the re-growth. Another common

pruned "show poodle look." While many clients like this effect, making them believe that they got good return for their money, the practice tends to retard limb taper, thereby denying the progressive development of structural strength in the scaffold limbs.

- Ensure properly finished pruning cuts. guy' keeps in his There is a legitimate pruning target point just outside the limb collar. The limb collar itself is very often identified by a swollen point at the base of the limb where it joins the parent limb or trunk. Cutting too close makes a literal flush cut. This creates an excessively large wound that takes extra time to close and as well, removes a pathological barrier point that otherwise inhibits rot migration into the parent limb. Cutting too far out leaves a stub, which prevents wound closure and provides an entry point for decay. If made correctly, pruning cuts generally do not need to be painted with anything. 'Sealants' are generally ineffective and often retard or slow callus development and wound closure.
  - Curb stacking is illegal and unprofessional. Professional contractors finish the job. Don't be taken in by the offer of 'a cheaper price' to leave debris on the curb. This could also be a tip-off for workers willing to take short cuts in others areas as well.

## Did You Know.

- ... that the root systems of your trees in most cases extend far beyond ... sometimes twice ... what is usually identified as "the drip line." Also, those same root systems are surprisingly close to the top of the ground, especially in clay soil like we have here. This means that extra care and planning is needed and may be critical when contemplating any project or installation activity that requires digging, trenching, grade changes (reduction/cutting or filling/adding), or tilling. Little blond fibrous lacy filaments just a couple of inches under the surface are actually the terminal ends of your tree's lifeline. Sever those, scrape those or smash those and little or no water moves up your tree. Then a bit later the top(s) may begin to wilt or turn brown. "Fixing it" after the fact is not so easy.
- ... that our tall oaks are prime #1 candidates for warm weather lightning strikes. Large oaks are struck by lightning more than any other tree type a.) because of their size and height and b.) because they carry so much water aloft in their scaffolds and branches. Water is a prime attractant for electrical groundings. The extreme heat generated during a strike instantly boils the water in the tree's cambial structures and explodes it in the same way the top can be blown off a kettle over a fire. This also explains why most strike events create long vertical strips that run down the tree to the ground and may not splinter the interior wood of the tree. This can also fry those little roots hairs without a lot of visible damage. While not guaranteeing total protection, lightning protection systems installed correctly in large important trees can ground such a discharge and be a significant help in minimizing potential damage.

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# From My Journal: The Way We Were

are like that too. Almost everyone we aboard in cutoffs and flip-flops. know and those who know us know us as travelers. We've always spent the money we had and sometimes the money we didn't have on adventures. We did it before our three girls came along. We did it, although a little bit less, while they were here at home with us. And now that they are all married and gone, we're still doing it.

aybe it helped that I married a girl ful daughters but I got a who just like me dreamed of one series of progressively thing: travel and going places. I separated bigger and better sail-

from active duty in the Marine Corps in 1966, came home, back started school and began dating a flight atten-

Maybe it helped that I married a girl who just like me dreamed of one thing: travel and going places.

She's always told folks how she wanted to be a stewardess because it meant she'd get to travel and go to places that, at least back then, a lot of people still had never seen.

wo years later we married and the habit and the love that

or Montego Bay.

nd all of that was before airport security when the cabin crew seemed glad to have you aboard and they were still serv-

've been married to the same woman for ing full meals on china in first class (where today. thirty-nine years now. Over that time those available 'standby seats' were often wrote a couple of certain habits and preferences shared to- located). It was before flying degenerated special and pergether fall inevitably into patterns that after from an exotic adventure into a hassle sonal vignettes that were centered there; some more time passes, begin to label you about security and four ounce bottles and Sailing In Pirate Waters and Marina Cay. as a particular sort of couple. Becky and I before half the passenger list came flopping

> Thile I was in the military I learned to sail. I learned to love it, to love the spirit of it and the ideas and the beautiful metaphors it offers. So over time we not only got three beauti-

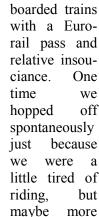
> > boats. Looking back, it seems

holidays nenbaum otic vacation.

Dut our addiction also sent us on some

we shared never abated. I was going to very special trips. A week of scuba with a school on the G.I.bill and working part- small German group at a little remote place time at Sears. My wife was still flying, called Stella Maris on Long Island, ac-

ver since our first trip to Europe years dago we've shunned itineraries and





we'd spend half our time in the because of the magic of the soft Italian warm months at the lake. Many dusk outside our window and the lively American families have a special community party that seemed to be going place that they come to know as on in the little town square next to the stadant who worked for Delta Airlines. They 'the lake'. For us it was Greers Ferry Lake tion. We've rented bicycles in Bavaria and were called 'stewardesses' in those days. in Arkansas. We'd go for weekends and in Paris, where we've been mistaken for and locals by Americans and Canadians asking many times rent us for directions. Scooters worked nicely there in southern France and we were once right on the wa- robbed in Barcelona right outside the train Tan- station while searching for a room over a when crowded Easter weekend. And we always we couldn't af- made a point to virtually memorize Rick ford a more ex- Steve's Europe On Five Dollars A Day. But five dollars a day sounds more like a joke now. Our kids don't believe it, even though for us back then that was also hard to really accomplish. It seems it always took more like twenty to thirty.

ately we've been closely watching the slide of the dollar relative to the Euro Sometime in the middle of any particular cessed only by a small private plane way and it scares us a bit because we wanted to week I'd come in from work or from down in the Bahama chain. And there go again this spring. I keep hearing all classes and we'd ask ourselves, 'What do were also three over-the-top trips to the these horror stories from folks who just got we want to do on this long weekend?' British Virgin Islands where for a week back. The latest ratio reported was 1 How about a quick trip to San Francisco? each time we chartered a fifty foot sailboat to 1.57 and it's still moving in the wrong And we'd do it. Free flight out and back! in Tortola and struck out on our own. direction. Back in the days of francs and Half price hotels! Why not? With a little Those Caribbean sunsets, those steak din-lira and marks, it was usually the other way more time, we might fly off to Ocho Rios ners in the cockpit or being under full sail round. But more than the ratio, I think I with Enya's Orinoco Flow and Caribbean worry more about the worry itself. Where Blue on the sound system, those dingy trips are these recent second thoughts and hesiashore at various island anchorages. You tations coming from? Does this mean don't forget those; all indelible memories we're finally 'getting old'? Now there's a and stories that are still vivid and precious scary thought.

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### **Newsletter Index**

I was a little surprised to realize that I am now into my fourth year with this newsletter. This issue is the fourteenth successive quarterly issue. As I've looked back I've seen that in addition to having had a lot of fun with it and getting to share some other ideas as well, I've had opportunity to think and talk about a lot of arboricultural subjects. If you'd like an extra copy of a particular issue, lets us know.

Here's a brief topical index in chronological order:

Vol 1, Issue 1: Plant Growth Regulator benefits and use.

**Vol 1, Issue 2:** Gall in Oak Trees, Micro-Injection Options, Benefits of Soil Testing

**Vol 1, Issue 3:** Mycorrhizae Description and Benefits Summary, Woodpecker Damage

Vol 1, Issue 4: How Trees Work (HTW) Part I

**Vol 2, Issue 1:** HTW Part II, Construction Damage Mitigation, How Big? (Tree Moving)

**Vol 2, Issue 2:** Tree Borers, More on Soil Testing, Benefits and 'How To's' of Mulch

Vol 2, Issue 3: Pruning/Trimming Your Trees, Gall and Fungicidal Application Benefits

**Vol 2, Issue 4:** Diagnosing Plant Problems, Tree Planting Techniques

**Vol 3, Issue 1:** Three "Near Perfect" Products, Phomopsis on Juniper, etc.

**Vol 3, Issue 2:** Tree Risk Assessment, Lightning Strikes, Borer Prevention

**Vol 3, Issue 3:** Fire Blight, Girdling Roots, Spider Mites, Watering Your Trees

**Vol 3, Issue 4:** Hypoxylon Issues, Hardscape Conflicts, Digging/Trenching Near Trees

Vol 4, Issue 1: Trees and New Subdivisions, Oak Gall Again

Vol 4, Issue 2: Pine Borers, Tree Trimming Hiring Tips,

### It Couldn't Be Done

Edgar Guest (1881-1959)

Somebody said that it couldn't be done, but he with a chuckle replied

That "maybe it couldn't", but he would be one who wouldn't say so till he tried.

So he buckled right in with a trace of a grin on his face. If he worried he hid it.

He started to sing as he tackled the thing that couldn't be done, and he did it.

Somebody scoffed: "Oh, you'll never do that; at

least no one ever has done it."

But he took off his coat and he took off his hat, and the first thing we knew he'd begun it.

With a lift of his chin and a bit of a grin, without any doubting or quiddit,

He started to sing as he tackled the thing that couldn't be done, and he did it.

There are thousands to tell you it cannot be done there are thousands to prophesy failure;

There are thousands to point out to you one by one the dangers that wait to assail you.

But just buckle in with a bit of a grin, just take off you coat and go to it;

Just start in to sing as you tackle the thing that "cannot be done", and you'll do it.

We're on the Web!

