

## Appendix S1

Table S1. Collection details of samples and sample sources by functional groups.

Functional groups	Sample name	Taxonomic identification of frass types	<i>n</i>	Source of sample	Wood Type	Date coll.
Subterranean termite frass	Re1	<i>Reticulitermes flavipes</i>	1	laboratory culture	Pine	Nov '10
	Re2	<i>Reticulitermes</i> spp.	1	laboratory culture	Pine	Jan '10
	Re3	<i>Reticulitermes</i> spp.	1	laboratory culture	Pine	Jan '10
	Re4	<i>Reticulitermes flavipes</i>	1	laboratory culture	Pine	Jan '10
	Re5	<i>Reticulitermes flavipes</i>	2	laboratory culture	Pine	Jul '10
	Re6	<i>Reticulitermes virginicus</i>	1	laboratory culture	Pine	May '97
	Re7	<i>Reticulitermes</i> spp.	1	laboratory culture	Pine	Jan '10
Dampwood termite frass	Zo1	<i>Zootermopsis nevadensis</i>	1	laboratory culture	Pine	Fall '08
	Zo2	<i>Zootermopsis nevadensis</i>	1	laboratory culture	Pine	2010
	Zo3	<i>Zootermopsis nevadensis</i>	1	laboratory culture	Pine	2010
	Zo4	<i>Zootermopsis nevadensis</i>	2	laboratory culture	Pine	Fall '08
	Zo5	<i>Zootermopsis nevadensis</i>	1	laboratory culture	Pine	2010
	Zo6	<i>Zootermopsis nevadensis</i>	1	laboratory culture	Pine	Jan '10
	Zo7	<i>Zootermopsis nevadensis</i>	1	laboratory culture	Pine	Jan '10
Drywood termite frass	In1	<i>Incisitermes snyderi</i>	1	dimensional lumber	Pine	N/A
	In2	<i>Incisitermes snyderi</i>	1	laboratory culture	Pine	Oct '10
	In3	<i>Incisitermes snyderi</i>	1	laboratory culture	Pine	Jun '04
	In4	<i>Incisitermes snyderi</i>	1	laboratory culture	Cypress/ Pine	Nov '10
	In5	<i>Incisitermes snyderi</i>	1	laboratory culture	Pine	Nov '10
	In6	<i>Incisitermes snyderi</i>	2	dimensional lumber	Pine	Feb '09
Old house	Hy1	<i>Hyloterpes</i> spp. <sup>†</sup>	1	dimensional lumber	Pine	Dec '12

borer beetle frass	Hy2	<i>Hylotrupes</i> spp. <sup>†</sup>	1	dimensional lumber	Pine	Jan '02
	Hy3	<i>Hylotrupes</i> spp. <sup>†</sup>	1	dimensional lumber	Pine	Aug '10
	Hy4	<i>Hylotrupes</i> spp. <sup>†</sup>	1	dimensional lumber	Pine	N/A
Deathwatch beetle frass	Pt1	Ptinidae <sup>†</sup>	3	dimensional lumber	Pine	June '05
	Pt2	Ptinidae <sup>†</sup>	4	dimensional lumber	Pine	Nov '13
	Pt3	Ptinidae <sup>†</sup>	1	dimensional lumber	Pine	N/A
	Pt4	Ptinidae <sup>†</sup>	2	dimensional lumber	Pine	N/A
False powderpost beetle frass	He1	<i>Heterobostrychus</i> spp.	2	wicker basket	Unknown	N/A
	He2	<i>Heterobostrychus</i> spp.	2	dimensional lumber	Paulownia	Jan '07
True powderpost beetle frass	Ly1	<i>Lyctus</i> spp. <sup>†</sup>	3	dimensional lumber	Hardwood	Oct '11
	Ly2	<i>Lyctus</i> spp. <sup>†</sup>	3	infested tree branch	Elm	N/A
	Ly3	<i>Lyctus</i> spp. <sup>†</sup>	1	picture frame	Hardwood	N/A
	Ly4	<i>Lyctus</i> spp. <sup>†</sup>	1	flooring	Hardwood	Aug '12
	Ly5	<i>Lyctus</i> spp. <sup>†</sup>	1	interior trim	Hardwood	N/A
	Ly6	<i>Lyctus</i> spp. <sup>†</sup>	1	plywood inner core	Hardwood	N/A
Pinewood	W1	N/A	1	sawdust (DowAgroSciences®)	Pine	N/A
	W2	N/A	2	dimensional lumber	Pine	N/A
	W3	N/A	1	dimensional lumber	Pine	N/A
	W4	N/A	2	dimensional lumber	Pine	N/A
	W5	N/A	2	dimensional lumber	Pine	N/A
	W6	N/A	3	Pt-infested lumber	Pine	Nov '13
	W7	N/A	1	dimensional lumber	Pine	N/A
	W8	N/A	1	dimensional lumber	Pine	N/A
	W9	N/A	1	dimensional lumber	Pine	N/A

*Notes:* Samples are randomly selected portions from a specified source of frass or pinewood, whereas sources are locations where samples were obtained. 'Wood type' either describes the wood that the insects fed upon (various types) or the wood samples that were chemically analyzed (only pine). Unknown types of infested hardwood were listed as 'hardwood' and other unknown details are represented by N/A. The number of samples collected from each sample source is represented by  $n$ , and the far-right column lists collection dates.

<sup>†</sup> denotes insect frass types determined based on frass texture and diameter/shape of emergence holes.