

1. Application Name and Address

Title:

MR



Application For Tree Works

Surname: DAVEY

For office use only

Ref	no:	CA	/_	7	43	3	Marchant.
			_		-		-

Works to trees subject to a tree preservation order (TPO) and/or notification of proposed works to trees in a conservation area. Town and Country Planning Act 1990.

Publication of planning applications on planning authority websites

Please note that with the exception of applicant contact details, the information provided on this application from and in supporting documents may be published on the authority's website. If you have provided any other information as part of your application which falls within the definition of personal data under the Data Protection Act which you do not wish to be published on the authority's website, please contact the authority's planning department.

Please complete using block capitals and black ink. You must use this form if you are applying for work to trees protected by a tree preservation order (TPO). (You may also use it to give notice of works to trees in a conservation area). It is important that you read the accompanying guidance notes before filling in the form. Without the correct information, your application/notice cannot proceed.

First Name: SIMON

Company (Optional):		•
Unit:	House Number: 55	House Suffix: 4
House Name:	## EECONOMISTIC OF UTFOOD ACT (COLUMN ACTION	об боли по помотом постоят от вышения в подости в подост
Address 1: MAIN STR	ECT	
Address 2:		
Address 3:		
Town: WILSTORN	County: IUWINSHIRE	Country: U. K
Postcode: NG32 3NV		
2. Agent Name and Address		
Title: MR	First Name: PAVL	Surname: BAVIN
Company (Optional): PAUC B	AVINTREE CARE SPECUAL	1875 ·
Unit:	House Number: 2	House Suffix:
House Name:	табот от тато от тет от	
Address 1: WOODBROOK	A THE CONTROL OF T	бого объе в се в объем
Address 2:		от не потом музыком пот отности постоя на стори с в нед стори с в нед стори с
Address 3:	от пото по до по постояти в в на 20 год от постоят в 15 год от постоя	
Town: GRANTHAM	County: IINCOLUSHIRE	Country: V-K,
Postcode: NG31 9FT		
	The state of the s	

3. Trees Location		
i		question 4. Otherwise, please provide (including full postcode where available).
Unit:	House Number:	House Suffix:
House Name:		
Address 1:	от отключения в под в под в под дела дела дела дела дела от	
Address 2:	COVER CONTROL OF THE AND	
Address 3:	nazarakan (1956) iki iking (1949) ya pada halikipiya muunikan maja (1946) ili ya anaf qa ilike (1967) kabi mada han esenan ili baka ku (1967) kati mada ku (1967) kabi	
Town:	County:	Postcode (if known):
	and to the rear of 12 to 18 High	s, either describe as clearly as possible Street' or 'Woodland adjoining Elm Road')
4. Trees Ownership Is the applicant the owner If 'No' please provide the a	` '	Yes. No □ nd if different from the trees location).
Title:	First Name:	Last Name:
Company (optional):	Unit:	House Number:
And control of the first playing the state of the state o		1
House Suffix:	House Name:	
House Suffix: Address 1:	House Name:	
	House Name:	
Address 1:	House Name:	
Address 1: Address 2:	House Name:	Country:
Address 1: Address 2: Address 3:		
Address 1: Address 2: Address 3: Town:	County:	Country:
Address 1: Address 2: Address 3: Town: Country code:	County: National number:	Country:
Address 1: Address 2: Address 3: Town: Country code: Country code:	County: National number: Mobile number (optional):	Country:
Address 1: Address 2: Address 3: Town: Country code: Country code: Country code:	County: National number: Mobile number (optional): Fax number (optional):	Country:
Address 1: Address 2: Address 3: Town: Country code: Country code: Country code: email address (optional): 5. What Are You Applying	County: National number: Mobile number (optional): Fax number (optional):	Country: Extension Number:

6. Tree Preservation Order Details

If you know which TPO protects the tree(s), enter its title or number below:

7. Identification of Tree(s) And Description Of Works

Please identify the tree(s) and provide a full and clear specification of the works you want to carry out. Continue on a separate sheet if necessary. You might find it useful to contact an arborist (tree surgeon) for help with defining appropriate work. Where trees are protected by a TPO, please number them as shown in the First Schedule to the TPO where this is available. Use the same numbers on your sketch plan (see guidance notes).

Please provide the following information below: tree species (and the number used on the sketch plan) and description of works. Where trees are protected by a TPO you must also provide reasons for the work and, where trees are being felled, please give you proposals for planting replacement trees (including quantity, species, position and size) or reasons for not wanting to replant. E.g. Oak (T3) - fell because of excessive shading and low amenity value. Replant with 1 standard ash in the same place.

T3 Western Baham poplar, Intestation of backeral Cauber
- Remove to grand level and
replant with Sudable
species.

TH Western Balsam poplar. Intestation of bacterial Cankor
- Remove to ground level and replant
uch Sutable Species

15 Western Baham poplar. Intestation of booterrail Canker.
- Generie to ground level and Perstant
uch Sweatle Species.

See attached leport page 5 and 6

Site plan page 24.

8. Trees - Additional Information
Additional information may be attached to electronic communications or provided separately in paper format.
For all trees A sketch plan clearly showing the position of trees listed in Question 7 must be provided when applying for works to trees covered by a TPO. A sketch plan is also advised when notifying the LPA of works to trees in a conservation area (see guidance notes). It would also be helpful if you provided details of any advice given on site by an LPA Officer.
For works to trees covered by a TPO Please indicate whether the reasons for carrying out the proposed works include any of the following. If so, your application must be accompanied by the necessary evidence to support your proposals. (See guidance notes for further details).
1. Condition of tree(s) - e.g. it is diseased or you have fears that it might break or fall: Yes ✓ No ☐ If yes, you are required to provide written arboriculture advice or other diagnostic information from an appropriate expert.
2. Alleged damage to property - e.g. subsidence or damange to drains or drives. Yes □ No ☑ If yes, you are required to provide for: Subsidence
A report by an engineer or surveyor, to include a description of damage, vegetation, monitoring data, soil, roots and repair proposals. Also a report from an aboriculturist to support the tree work proposals.
Other structural damage (e.g. drains, walls and hard surfaces) Written technical evidence from an appropriate expert, including description of damage and possible solutions.
Documents and plans (for any tree) Are you providing separate information (e.g. an additional schedule of work for Question 7)? Yes ∠ No □
If yes, please provide the reference numbers of plans, documents, professional reports, photographs etc in support of your application. If they are being provided separately from this form, please detail how they are being submitted.

9. Application For Tree Works -	Cnecklist	
the guidance and this checklist to relevant information is submitted.	Please note that failure to supply ng rejected or delayed. You do no	n completed correctly and that all
Sketch Plan • A sketch plan showing the location	ion of all trees (See Question 8)	
For all trees (see Question 7) • Clear identification of the trees of A full and clear specification of the trees of the full and clear specification of the trees of the full and clear specification of the full and clear specification of the full and clear specification of the full specification of the		
For works to trees protected by Have you:	y a TPO (see Question 8)	
 stated reasons for the proposed 	l works?	
 if your reasons relate to the consequence if you are alleging subsidence surveyor and one from an arb 	lamage - written technical evidend	iate engineer or
10. Declaration - Trees		
I/we hereby apply for consent/giv accompanying plans and addition	e notice for tree work as describe nal information.	d in this form and the
Signed - Applicant:	Or Signed - Agent:	PR
Date: 20 / 05 / 3	©(3. (This date must not be before the	date of sending or hand-delivery of the form)
11. Applicant Contact Details		
Country code: 01400	National number: 231537	Extension Number:
Country code:	Mobile number (optional):	
Country code:	Fax number (optional):	
email address (optional):		
12. Agent Contact Details		
Country code: 01476	National number: 561986.	Extension Number:
Country code:	Mobile number (optional):	дения некомплекс приводення по том некомплекся по почения выпоснования выпосновани
Country code:	Fax number (optional):	
email address (optional):	В нашения применя примен	

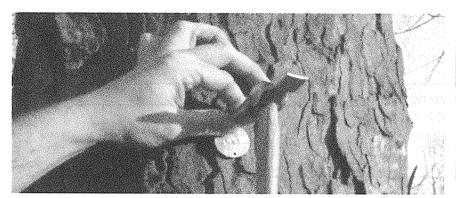
Electronic communication - if you submit this form by fax or e-mail the LPA may communicate with you in the same manner. (Please see guidance notes)

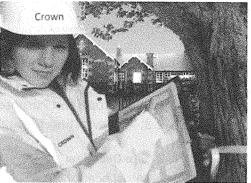




Tree Condition Report

& Management Recommendations





Separate Sep



Simon Davey

Crown Ref: 08941

Author:

Ivan Button

Site:

55a Main Street, Wilsford 2nd May 2013 Date:

Contents

1. Int	roduction	3
1.1.	Instructions and References	3
1.2.	Scope and Purpose of the Report	
1.3.	Navigating Through the Report	3
2. Sit	e Overview	4
2.1.	Location	4
	Site Description	
3. Tre	ee Data Schedule	5
3.1.	Survey Details	5
3.2.	Scaled Images	
3.3.	Supporting Information	5
4. Tre	ee Condition and Recommendations	6
5. Ph	otographs	7
6. Sig	gnature	13
Appe	ndix 1: Safety Categories	14
	ndix 2: Survey Methodology	
Appe	ndix 3: Explanation of Tree Data and Glossary	16
Appe	ndix 4: Author's Qualifications	22
Appe	ndix 5: Further Information	23
Anne	ndix 6: Site Plan	24

Simon Davey

Crown Ref: 08941 Author:

Ivan Button

Site:

55a Main Street, Wilsford

Date:

2nd May 2013

Introduction 4

1.1. Instructions and References

- I am instructed by Simon Davey of 55a Main Street to conduct an arboricultural survey at 1.1.1. 55a Main Street and produce my findings in a report.
- 1.1.2. I have sketched the prominent features of the site and plotted tree positions in order to enable them to be identified from the drawing at Appendix 6.

Scope and Purpose of the Report 1.2.

- 1.2.1. The purpose of the report is to highlight any issues which may be of concern from a safety perspective. All hazards and potential hazards are recorded and appropriate recommendations are made in order to reduce risk to acceptable levels.
- The survey was limited to trees within the front garden. 1.2.2.

Navigating Through the Report 1.3.

- Following this introduction is a general description of the site, followed by a record of all 1.3.1. the tree data gathered during the survey. Section 4 discusses the condition of the trees in more detail and recommends management options.
- 1.3.2. Photographs of the site are at Section 5.
- People unfamiliar with arboricultural surveys and reports or shall find detailed guidance 1.3.3. within the Appendices:
 - Appendix 1 describes how we allocate a Safety Class and what each class means.
 - Appendix 2 explains how the survey is carried out.
 - Appendix 3 explains the terms used within the Tree Data Schedule and incorporates a Glossary of all technical terms used throughout the report.
- All persons should refer to the plans at Appendix 6. 1.3.4.

Simon Davey

Crown Ref: 08941

Author:

Ivan Button

Site:

55a Main Street, Wilsford

2nd May 2013 Date:

Site Overview 2.

Location 2.1.

2.1.1. The trees surveyed all lie within the front garden of a residential property. The coordinates are 52.976351° -0.509344° and the altitude is 35m above sea level. (Co-ordinates may be pasted or typed into the following site: http://maps.google.co.uk/ where maps, satellite imagery and street views may be

2.1.2. My survey was limited to the area shown in Figure 1.

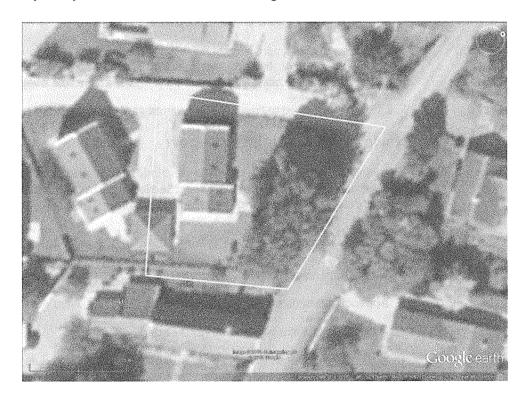


Figure 1 Extent of the survey.

Site Description 2.2.

- 2.2.1. The front garden of 55a Main Street measures approximately 24m wide x 16m (though this varies, as the house is not parallel to the front boundary). The majority of the garden is lawn which slopes gently down to a fence marking the front boundary. Directly beyond the fence is the public highway known as Main Street. There is no pedestrian footway beyond the fence. Instead, the area immediately beyond the fence is regularly used for public parking.
- 2.2.2. Inside the front boundary are six trees; three mature poplars, one small lime, one small whitebeam and one small cherry. The poplars overhang the boundary, parking area and road by approximately 5m.
- Where defects were found, remedial works have been recommended. These are 2.2.3. itemised in Section 3 and discussed in Section 4.

Simon Davey

Crown Ref: 08941

Site:

55a Main Street, Wilsford

Author: Ivan Button Date: 2nd May 2013

Tree Data Schedule 3.

3.1. Survey Details

- The Tree Data Schedule following this page contains information gathered for each tree 3.1.1. during a ground level survey undertaken on 22nd April 2013. The survey was conducted by Ivan Button. No climbed inspections or specialist decay detection were undertaken.
- Where applicable, trees with defects have been highlighted and appropriate remedial 3.1.2. works have been recommended.

Scaled Images 3.2.

3.2.1. The Schedule includes scaled tree images based on the sizes recorded for stem diameter, crown spread, crown height and overall height. Their purpose is to indicate, at a glance, the relative dimensions of each tree. These dimensions were measured using diameter tapes, a distograph and a clinometer. Where this was not practicable dimensions were estimated.

Supporting Information 3.3.

A definition of the Safety Categories can be found in Appendix 1. All other terms used 3.3.1. within the Tree Data Schedule are defined and explained in Appendix 3.

Age & Species	tht (m)	(m) tH n	eter (cm)	Crown Spread (m) N	Scaled Tree Diagram (m)		Notes	Recommendations	***	Amenity Value Life
	giəH	Crowi		N N	6			Priority Inspect Freq (yrs)	Condition Structural Condition	Expectancy (yrs) Safety Class
Semi-Mature Lime	∞	N	40	r. 4	25	Position: Form: History:	Situated within the front garden. Single stemmed and vertical with a well-formed crown. Minor crown reduction.	No action required.	High Good	Moderate 40+
Tilia sp.				4		Defects:	No significant defects.	e/u	Cood	duan
Semi-Mature Whiteheam				fraiscondonnius explores	200 mm	Position: Form:	Adjacent front boundary, overhanging the road. Twin-stemmed at 1m with an unbalanced crown.	No action required.		Low
Sorbus aria.	9	サ	25	0		History: Defects:	Occasional pruning wounds due to crown lifting (healing slowly). No significant defects.	s e/u	Good Fair	+0+
Mature					*	Position: Form:	Adjacent front boundary, overhanging the road. Twin-stemmed at 2m with a slightly unbalanced crown.	all dead tv ly over adja I parking ar	Moderate	High
western baisam Poplar	- 25	9	61	n 0		History: Defects:	No evidence of significant pruning. Heavy infestation of bacterial canker. Approximately 50% of twigs are	Remove other heavily infected branches back to a	Fair	20-40
Populus trichocarpa.				4		Other:	dead. Some deadwood extends approx 3m from branch tip. Tight union and significant included bark at 2m.	cankers.	Fair	
Mature				Secretary of the second	25	Position:	Adjacent front boundary, overhanging the road.	Remove all dead twigs (especially over adjacent road and parking area.)	Moderate	High
Western Balsam Poplar	ب	'n	52	ی ک 4	***	Form: History:	Single stemmed with a slight lean and a balanced crown. No evidence of significant pruning.	Remove other heavily infected branches back to a	Fair	20-40
Populus trichocarpa.				4		Defects:	Heavy infestation of bacterial canker. Approximately 50% of twigs are dead. Some deadwood extends approx 3m from branch tip.	point below any large cankers. High 1	Fair	
Mature				S Individual area	25	Position:	Adjacent front boundary, overhanging the road.	Remove all dead twigs (especially over adjacent	Moderate	High
Western Balsam Poplar	5	₽	99	9 8	•	History:	dominant stem at 1m. No evidence of significant pruning.	Remove other heavily infected branches back to a point below any large	Fair	20-40
Populus trichocarpa.				4	0	Defects:	Heavy infestation of bacterial canker. Approximately 50% of twigs are dead. Some deadwood extends approx 3m from branch tip.	cankers. High 1	Fair	**
Young					25	Position:	Adjacent front boundary, overhanging the road.		Moderate	Low
Cherry	4	N	Æ	2 4 &		Form: History:	Twin-stemmed at 1m with an unbalanced crown. No evidence of significant pruning.	No action required.	Cood	40+
Prunus sp.	la a de estado e e			0	0	Defects:	No significant defects.	n/a 3	Cood	Stores

Simon Davey

Crown Ref: 08941

Author:

Ivan Button

Site:

55a Main Street, Wilsford

Date: 2nd May 2013

Tree Condition and Recommendations 4.

The smaller trees T1, T2 and T6 were all found to be in an acceptable condition and 4.1.1. require no remedial works.

- 4.1.2. The large poplars, T3, T4 and T5 are all infected with a heavy infestation of bacterial canker. This disease is caused by the bacterium Xanomonas populi, which overwinter in bark cankers and are spread by wind and rain during early spring. During the dormant season they kill the bark and the canker gradually enlarges despite some occlusion (regrowth) during the growing season. Eventually the cankers girdle the twig or branch and kill it.
- 4.1.3. These trees are so heavily infested that approximately 50% of the twigs throughout the canopy are dead. Numerous larger branches are also dead or supporting large cankers. Some dead branches extend approximately 3m back from the branch tips. Large cankers are present on numerous branches at distances further back from the branch tips. The photographs in Section 5 illustrate the abundance of cankers and dead wood throughout the canopies.
- There is no known cure for this disease. It may be controlled by removal of infected parts 4.1.4. if it is caught at an early stage. However the subject trees are way beyond such a stage.
- The trees currently present a hazard to users of the public highway as they contain so 4.1.5. many dead and dying branches which will inevitably fall to the ground as they weaken over time. At the time of my survey, numerous small branches littered the road beneath the canopies. Indeed the reason why my client instructed me to inspect the trees is that he is concerned about the sheer amount of dead branches that he has recently cleared from the road and garden.
- 4.1.6. In order to make the trees reasonably safe, it shall be necessary to remove all of the dead branches within the canopy, especially those larges branches are overhanging the road and parking area. At the same time, it shall be necessary to remove those branches that have large cankers on them and are likely to die within the near future. It will not be possible to remove all cankers as the infestation is too heavy.
- Unfortunately, those cankers which remain will continue to grow and to infect new 4.1.7. branches. Therefore the trees shall require similar treatment on a regular basis. They should be professionally inspected every 2 years and are likely to require pruning every 4 years.
- Even if the trees are pollarded, some bacterium will survive in the bark cracks and will 4.1.8. emerge to infect new growth. Such young growth is likely to be girdled very quickly.
- Because there is no cure for this disease and such extensive pruning works will be 4.1.9. required every few years, you may wish to consider tree removal. I understand that the trees are protected by a TPO. However, the local authority may consent to removal of these trees on sanitation grounds, since retention of these trees would be harbouring a disease which will continue to spread and infect other poplars in the locality. In this sense the overall public benefit of retaining these trees is highly questionable.
- 4.1.10. If the local authority do consent to removal, it is likely that they shall request the planting of three new specimens. In which case I recommend that you avoid planting poplars.

Simon Davey

Crown Ref: 08941

Author:

Ivan Button

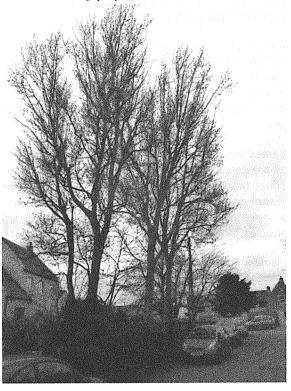
Site:

55a Main Street, Wilsford

2nd May 2013 Date:

Photographs 5.

Photograph 1. Distant view of the 3 poplars.



Photograph 2. Close up of a canopy, showing 50% dead twigs.



Simon Davey

Crown Ref: 08941

Site:

55a Main Street, Wilsford

Author:

Ivan Button

Date: 2nd May 2013

Photograph 3. Typical outer canopy zoomed in.



Photograph 4. Typical outer canopy zoomed in.



Simon Davey

Crown Ref: 08941

Author:

Ivan Button

Site:

55a Main Street, Wilsford

Date:

2nd May 2013

Photograph 5. Typical outer canopy zoomed in.



Photograph 6. Typical outer canopy zoomed in.



Simon Davey

Crown Ref: 08941

Author:

Ivan Button

Site:

55a Main Street, Wilsford

Date:

2nd May 2013

Photograph 7. Typical outer canopy zoomed in.



Photograph 8. Typical outer canopy zoomed in. Note the large cankers clearly visible.



Crown Consultants Ltd, Crown House, Newton Terrace, Halifax, W Yorkshire, HX6 3PS. Tel: 01422 316660. Email: ivan@crowntrees.co.uk Website: www.crowntrees.co.uk Page 10 of 24

Simon Davey

Crown Ref: 08941 Author: Ivan But

08941 Ivan Button

Site:

55a Main Street, Wilsford

Date: 2nd May 2013

Photograph 9. Typical outer canopy zoomed in.



Photograph 10. Typical outer canopy zoomed in. Note the large cankers clearly visible.



Simon Davey

Crown Ref: 08941

Author:

Site: Ivan Button

55a Main Street, Wilsford 2nd May 2013

Date:

Photograph 11. Typical outer canopy zoomed in.



Simon Davey

Crown Ref: 08941

Author:

Site: Ivan Button

55a Main Street, Wilsford

Date:

2nd May 2013

6. Signature

This report represents a true and factual account of the trees at

55a Main Street Wilsford **Near Grantham** NG32 3NU

Signed

Ivan Button N.C.H. (Arb), FDSc (Arb), BSc (Hons), P.G.C.E., M. Arbor. A.

on behalf of

Crown Consultants Ltd

Dated 2nd May 2013



Tree consultants throughout England and Wales

Simon Davey

Crown Ref: 08941

Author:

Ivan Button

Site:

55a Main Street, Wilsford

2nd May 2013 Date:

Appendix 1: Safety Categories

A safety Class has been assigned to each tree according to its condition, defects observed, and the works that have been recommended. An explanation of each category is offered below:

Safety Class 1:

Tree is considered to be in a good condition. No hazards are immediately apparent or are anticipated to develop within the foreseeable future. No significant works have been recommended.

Safety Class 2:

Tree is considered to be in an acceptable condition at present but there may be potential defects developing which require works in order to ensure the continued wellbeing and safe condition of the tree. Works recommended typically include the removal of branch stubs to prevent future decay entering the stem, removal of deadwood which is not considered to be currently hazardous, the removal of ivy so that the stem may be better inspected or the monitoring of a defect which may become a significant risk in the future.

Safety Class 3:

Tree is not considered to be in an acceptable condition at present. There are defects which require attention in order to render the tree safe. Works have been recommended which must be carried out in order to reduce the liability of the owner to acceptable levels. Recommended works typically include removal of sizeable deadwood, removal or reduction of branches with significant defects, or further investigation of defects apparent but which could not be properly assessed at the time of the inspection e.g. ultrasound decay detection or a climbed inspection..

Safety Class 4:

Tree is not considered to be in an acceptable condition at present and it is not practical to carry out works in order to render the tree safe. Instead the tree is recommended for removal.

It should be noted that not every tree falls neatly into one of the 4 categories listed above. Trees are complex organisms and often have multiple defects. In which case, the category deemed to be most appropriate is selected.

Simon Davev

Crown Ref: 08941

Author:

Ivan Button

Site:

55a Main Street, Wilsford

2nd May 2013 Date:

Appendix 2: Survey Methodology

- A ground level visual survey was carried out using the Visual Tree Assessment technique A2.1 described by Mattheck and Broeler (1994) and endorsed by the Arboricultural Association (LANTRA Professional Tree Inspection course, 2007).
- Structural condition was assessed by inspecting the stem and scaffold branches from all A2.2 angles looking for weak branch junctions or symptoms of decay. Particular attention was paid to the stem-base. Cavities were explored using a metal probe in order to assess the extent of any decay. If this was not possible further inspection was recommended in the form of a climbed inspection or using specialist decay detection equipment.
- A2.3 The physiological condition was assessed by inspecting the stem, branches and foliage for symptoms of disease. The overall vigour of the tree was also taken into account.
- Where the condition of a tree was deemed to be unacceptable, recommendations were A2.4 made according to a scale of priority in order to reduce the liability of the owner. The position of the tree and its potential targets were taken into account.
- Measurements were obtained using a diameter tape, clinometer, distometer and loggers A2.5 tape. Where this was not practical measurements were estimated.
- Some trees were surveyed as groups, though this was avoided close to areas likely to be A2.6 developed.
- Finally, a safety category was allocated as described in section 2. A2.7

Simon Davey

Crown Ref: 08941

Author:

Ivan Button

Site:

55a Main Street, Wilsford

Date:

2nd May 2013

Appendix 3: Explanation of Tree Data and Glossary

This section explains the terms used in the Tree Data Schedule at Section Error! Reference source not found..

General Observations A3.1

Numbering System: Each item of vegetation has its own unique number prefixed by a A3.1.1 letter such that T1 = Tree 1, G2 = Group 2, H3 = Hedge 3 and W4 = Woodland 4.

A3.1.2 Age Categories:

Young Usually less than 10 years old.

Semi-Mature Significant future growth to be expected, both in height and crown spread (typically below 30% of life expectancy).

Early-Mature Full height almost attained. Significant growth may be expected in terms of crown spread (typically 30-60% of life expectancy).

Mature Full height attained. Crown spread will increase but growth increments will be slight (typically 60% or more of life expectancy).

Veteran A level of maturity whereby significant management may be required in order to keep the tree in a safe condition.

Over Mature As for veteran except management is not considered worthwhile.

Species: Common names and Latin names are given. A3.1.3

Height: Measured from ground level to the top of the crown. A3.1.4

A3.1.5 Stem Diameter: Taken at 1.5m above ground level where possible. On multistemmed trees this measurement may be taken at ground level though usually an indication of the number of stems and average diameter is given, e.g. 3 x 30cm.

Crown Height: Measured from ground level to the height at which the main crown A3.1.6 begins. Where the crown is unbalanced it is measured on the side deemed to be most relevant. This is usually the side facing the area of anticipated development.

This scaled drawing is computer animated based on measurements A3.1.7 Tree Diagram: taken for stem diameter, crown height and spread and overall height. It is designed to help the reader rapidly assess the data. It is not an accurate representation of the form of the tree.

A3.1.8 Crown Spread: Measured north, east, south and west. This is taken from the centre of the stem and usually rounded up to the nearest metre.

If a tree's position is considered to be relevant it will be commented A3.1.9 upon (e.g. overhanging a children's play area). Tree form and pruning history are also recorded along with an account of any significant defects. Defects and descriptive terms are dealt with in more detail at the end of this section.

Recommendations: Usually based on any defects observed and intended to ensure that A3.1.10 the tree is in an acceptable condition.

A3.1.11 **Priority Scale:** Depending upon the threat posed by the tree, and the likelihood of failure, recommendations should be carried out according to the following priority scale:

Urgent

To be carried out as soon as possible.

Very High High

To be carried out within 1 month. To be carried out within 3 months.

Moderate

To be carried out within 1 year.

Low

To be carried out within 3 years.

Simon Davey

Crown Ref: 08941

Site:

55a Main Street, Wilsford

Author:

Ivan Button

Date: 2nd May 2013

A3.1.12 Inspection Frequency:

An interval of 6 months, 1 year, 1.5 years or 3 years is allocated before the next inspection is due. Wherever practical, consideration should be given to seasonal changes so that deciduous trees are not always surveyed in winter when they have no leaves, or in summer when leaves may obscure branches within the

upper crown.

A3.1.13

Vigour (An indication of growth rate and the tree's ability to cope with stresses):

High

Having above average vigour.

Moderate

Having average vigour.

LOW

Having below average vigour.

Very Low

Tree is struggling to survive and may be dying.

A3.1.14

Physiological Condition:

Good

Healthy and with no symptoms of significant disease.

Fair

Disease present or vigour is impaired.

Poor

Significant disease present or vigour is extremely low.

Very Poor

Tree is dying.

A3.1.15 **Structural Condition:**

Good

Having no significant structural defects.

Fair Poor Some defects observed though no high priority works are required. Significant defects found. Tree requires monitoring or remedial

Very Poor

Major defects which will usually require significant remedial works

or tree removal.

Amenity Value: A3.1.16

Very High

Exceptional specimen, observable by a large number of people. Attractive specimen, observable by a significant number of people.

High Moderate

One of the above factors is not applicable.

Low

Unattractive specimen or largely hidden from view.

A3.1.17

Life Expectancy: The estimated number of years before the tree may require removal.

Classified as (<10), (10 – 20), (20 – 40), or (40+).

A3.1.18

Safety Category:

These are explained in detail in Appendix 1.

Evaluation of Defects A3.2

A3.2.1

Cavities, wounds, deadwood etc are all evaluated as follows:

Major

Such that structural integrity is, or will become, compromised and the

tree is, or will inevitably become, hazardous.

Significant

A defect that may over time become a major defect, though not necessarily so. This will depend on the vigour of the tree and its ability

to deal with decay etc.

Minor

A defect that is not likely to compromise the structural integrity of the tree.

Simon Davey

Crown Ref: 08941

Site: Date: 55a Main Street, Wilsford 2nd May 2013

Author:

Ivan Button

General Glossary

Adaptive growth	In tree biomechanics, the process whereby wood formation is influenced both in quantity and quality by the
Aerobic	action of gravitational forces and mechanical stresses on the cambial zone. Conditions in which oxygen is freely available, or to biomechanical processes that depend on the presence of
Anaerobic	oxygen. A condition marked by the absence of oxygen; Generally such areas are unsuitable for normal life and growth of plant tissues. These sites tend to be populated by bacteria capable of surviving low oxygen conditions often associated with Slime Flux.
Arboricultural Implication Assessment	The early involvement of an arborist on a development site can avoid costly delays and mistakes whilst allowing a site to achieve its full potential and retain important trees.
Arboriculture	The culture and management of trees as groups and individuals primarily for amenity and other non-forestry purposes.
Arborist	A person possessing the technical competence through experience and related training to provide management of trees or other woody plants in a landscape setting. Generally involved with the development or management of trees for visual amenity or land management rather than the growth of trees for product or profit.
Ariel Inspection	The science of inspection is continually evolving, however, there can be little substitute for close inspection of a particular feature. We are happy to undertake a full Ariel inspection service, compliant with all heath and safety legislation.
Barrierzone	A layer within an annual increment of wood which contains abnormal xylem cells, laid down by the cambium in response to wounding or other trauma.
Biomechanics	This area of tree care has come to the fore in recent years, enabling a more accurate assessment of tree stability to be undertaken. Often trees previously condemned, can be managed and confidently retained to offer ongoing benefits.
Body language	In trees, the outward display of growth responses and or deformation in response to mechanical stress.
Bole Bracket	Or Trunk, the main stem of a tree below its first major branch. A type of fruiting body produced by various fungal species, plate like to hoof like in shape and often a one
bracet	sided attachment to the wood or bark.
Branch bark ridge	A ridged area located at the union of a branch to a trunk or stem.
Branch Collar	Trunk tissue that forms around the base of a branch between the main stem and the branch, or between a main branch and a lateral branch. As a branch decreases in vigour or begins to die, the collar usually becomes more pronounced and completely encircles the branch.
Brown Rot	Form of decay where cellulose is degraded, while lignin is only modified.
Buttress Root	Roots that emerge from the base of the tree stem, normally large and well developed that rapidly reduce in diameter to create the Root Plate this offers structural support for the tree. Buttress roots divide rapidly forming the connection between the stem and the transport roots.
Cabling Bracing	Installation of steel cables, attached to lag screws or bolts placed in tree limbs, to provide additional support or to limit movement and stress of limbs. Recent developments have established non-injurious flexible systems that enable the partial movement of parts within reasonable limits enabling the trees to produce Reaction growth and forms an excellent alternative to Propping The installation of such features does require legal interpretation.
Callus	Undifferentiated cells often formed at the edges of recent injuries. This tissue quickly becomes differentiated, forming cells of the type characteristic of that position on the tree (e.g. forming wood, bark, roots, etc.) see wound response tissue.
Cambium	A thin layer of actively growing and dividing cells, located between the xylem (sapwood) and bark of a plant; the part responsible for radial growth of a tree stem or branch.
Canopy	The topmost layer of twigs and foliage in a woodland, tree or group of trees.
Cellulose	A carbohydrate consisting of molecules bonded in strings to create filaments; a key component of plant cell walls. May be selectively destroyed by fungi.
Canker	A localised area of dead bark and cambium on a stem or branch, caused by fungal or bacterial organisms, characterised by woundwood development on the periphery. This may be annual or perennial.
Cavity	An open and exposed area of wood, where the bark is missing and internal wood has been decayed and dissolved.
Chlorotic	Also Chlorosis. A condition of the plant marked by yellowing of normally green foliage, often indicating nutrient deficiency or plant dysfunction.
Clinometer	Devices that measures vertical angles, and provides direct height measurements of objects by triangulation.
Co-dominant stems/trunk Compacted soils	Are forked branches or trunks of nearly the same size in diameter and lacking a normal branch union. Soils in which the air-space (oxygen space) has been reduced or eliminated, reducing water infiltration and percolation, reducing root presence and inhibiting new root development.
Compartmentalisation	The physiological process that creates the chemical and mechanical boundaries that act to limit the spread of disease and decay organisms.
Compression Failure	Localized buckling of fibres and other longitudinal elements produced by compression of wood along the grain; compression failures sometimes develop in standing trees.
Compression Strength	The ability of a material or structure to resist failure when subjected to compressive loading; measurable in trees using special drilling devices
Compression Wood	Abnormal wood formed on the lower side of branches and curved stems, with physical properties different from normal wood.
Conservation Area	In Great Britain, designated areas of architectural or historical interest, in which there are special procedures for planning applications. Additionally tree works cannot generally be undertaken without prior notification (Currently 6 weeks) to the relevant local planning authority. See also Tree Preservation Orders.
Core Sample	A sample of wood extracted from a trunk or branch, using an increment borer tool. The resulting core can be analysed for characteristics of growth, wood strength, structure, decay, and for species identification.
Crotch	The union of two or more branches; the auxiliary zone between branches.

Simon Davey

Crown Ref: 08941

Site:

55a Main Street, Wilsford 2nd May 2013

Ivan Button Author:

Date:

Crown Crown lifting / raising	The upper canopy of a tree, including upper trunk, scaffold branches, secondary branches, stems and leaves. Crown Lift The removal of the lowest branches, usually to a given height. It allows more residual light and greater clearance underneath for vehicles etc.
Crown reduction	The reduction of a tree's height or spread while preserving its natural shape.
Crown thinning	The removal of some of the density of a tree's crown, usually 5-25% allowing more light through its canopy and reducing wind resistance.
Deadwood (noun)	Deadwood is often present within the crown or on the stems of trees. In some instances is may be an indication of ill health, however, it may also indicate natural growth processes. If a target is present beneath the tree, deadwood may fall and cause injury or damage and should be removed, otherwise deadwood can remain intact for conservation purposes (insects, fungi, birds etc.).
Deadwood (verb)	The removal of dead branches from a tree's canopy, usually of a specified size (in diameter).
Decay	Progressive deterioration of organic tissues, usually caused by fungal or bacterial organisms, resulting in loss of cell structure, strength, and function. In wood, the loss of structural strength.
Decay Detection	The assessment of decay within a tree has been traditionally difficult, but recent advances have made it possible to achieve accurate representations of the internal section of a tree in both 2D and 3D, removing doubt over the condition of the tree and allowing accurate management decisions.
Decurrent	In trees a, system of branching in which the crown is borne on a number of major widely spreading limbs of similar size. In fungi relates to toadstools whose gills run down the stem and leaves and other plant organs, which extend down the stem.
Defect	In relation to tree hazards, any feature of a tree which detracts from the uniform distribution of mechanical stress, or which makes the tree mechanically unsuited to its environment.
Defoliation	The losing of plants foliage.
Dieback	Progressive death of buds, twigs and branch tissues, on individual limbs resulting in Deadwood, or throughout the canopy, extreme cases can result in Stag Heading.
Dripline	A projected line on the ground that corresponds to the spread of branches in the canopy; the farthest spread of branches.
Epicormic shoots	Fast growing, weakly attached shoots/branches that often grow as a response to stress factors upon a tree or branch removal.
Excurrent Failure	In trees, a system of branching that a single leader remains dominant, through the control of lateral branches In connection with tree hazards, a partial or total fracture within the wood tissue or loss of cohesion between roots and soil. (In total failure affected parts will snap or tear away completely, Partial failure there is a crack or deformation, which results in an altered distribution of mechanical stress.
Felling Licence	In Great Britain, a permit to fell trees in excess of a certain size or total volume.
Feeder Roots	Fine fibrous Water and nutrient absorbing roots located in the outer root system.
Flush-Cut	In trees and shrubs, a pruning cut close to the parent stem, which removes the branch bark ridge.
Foliage Formative pruning	The live leaves or needles of the tree; the plant part primarily responsible for photosynthesis. The trimming of a tree to remove weaknesses and irregularities which may lead to problems. The formative pruning operation is aimed at reducing the potential for future weaknesses or problems within the tree's crown.
Gall	An abnormal, disorganized growth of plant tissues, caused by parasitic or infectious organisms such as insects, fungi, bacteria, or viruses.
Girdling	In woody plants, any form of damage that destroys the bark and / or the Cambium all the way around the stem, branch or root, normally resulting in death of the damaged section.
Girdling Root	In woody plants, a root that grows across the buttress, or across other roots, eventually causing constriction of the radial growth.
Growth Increment	The incremental growth added as new annual ring develops each season over existing wood. This is seen as (growth) rings in cross-sections of wood.
Hazard beam	An upwardly curved branch in which strong internal stresses may occur without the compensatory formation of extra wood (longitudinal splitting may occur in some cases).
Heartwood	Inner non functioning tissues that provide structural support to trunk.
Heave	In relation to shrinkable clay soils, expansion due to rewetting of a volume of soil previously subjected to the removal or water by plant / trees following felling or root severance. Also in relation to root growth, the lifting of pavements and other structures by radial expansion. Also in relation to tree stability, the lifting of one side of a wind rocked root plate.
Herbicide Included Bark	A chemical compound that causes the death of a plant. Bark that becomes embedded in a crotch between branch and trunk or between co-dominant stems, usually found in narrow or tight crotches, and causes a weak structure.
Increment Borer	A tool that cuts and extracts a narrow cylinder of wood from a tree for analysis of the wood tissue and growth increments.
Internodal	The part of a twig between two nodes, or points of beginning of annual twig growth. The node is formed at the end of each year's growth.
Leader	The primary terminal shoot or trunk of a tree.
Lignin	The hard cement like constitute of wood cells found within the Cellulose matrix. Lignification is the addition of lignin to the cellulose filaments. Lignin can be specifically removed by certain fungi.
Limb	A large lateral branch growing from the main trunk or from another larger branch.
Lion Talling	Often the result of poor pruning practices; the main leader or branches are largely devoid of side branches, growth is restricted to the end of branches and is likely to suffer damage through end loading.
Live Crown Ratio	The proportion of the total height of the tree that is represented by live branch growth within the canopy. Used as an indicator of potential vitality, when compared as a ratio to the woody mass of the tree.
Lopping	In trees, a general term that related to the removal of branches from a tree.
Macronutrient	One of six elements required in relatively large quantities by a plant for metabolic processes; essential to plant health. (See micronutrient)
Micronutrient	One of seven elements required in small quantities by a plant for metabolic processes; essential to plant health. (See macronutrient)

Simon Davey

Crown Ref: 08941

Site:

55a Main Street, Wilsford 2nd May 2013

Author:

Ivan Button

Date:

CONTRACTOR OF STREET,	
Monitoring	Due to the relative life span of trees in relation to our own, long-term monitoring provides a valuable insight to the health of trees, identifying decline and or stabilisation and or improvement.
Mulch	A material laid over the root system of a tree to help conserve moisture within the soil. Additionally it may help control the development of weeds close o the tree.
Mycelium	A mass of growing filaments (hyphae) formed by fungi.
Mycorrhizae	A term given to the symbiotic relationship between roots and certain beneficial fungi. Mycorrhizae are the combined root / fungal growth.
Natural Pruning	The shedding of a branch or twig that has died back naturally and has become decayed at or near its base.
Necrosis	The failure and subsequent death of a branch, leader or tree.
Negligence	A failure to take reasonable action to deal with a hazard to prevent damage to property or person.
Node	The point were a leaf is connected to a shoot, the point were an auxiliary bud may develop
Nutrient	Substances that are absorbed by living organisms for the maintenance of internal processes.
Occluding tissue	The general tern of wood, cambium and bark that develop around the site of a wound on a woody plant
Pathogen Petiole	A microorganism that causes diseases within another organism.
Phloem	The stem of the leaf, attaching the leaf blade to the twig. The principle conductive tissue that the products of Photosynthesis are transported around the plant
Photosynthesis	The process were light energy is used to create energy (Carbohydrate) for use within the plant.
Pollard	A term for a pollarded tree.
Pollard head	The swollen section of branch / stem that forms behind the pollarding cut.
Pollarding	The complete or partial removal of the crown of a young tree so as to encourage the development of numerous branches either for amenity or historically as fodder, repeated management is required cyclically to maintain the feature
Propping	The use of artificial apparatus to support living sections of a tree that may be prone to failure. The installation of such features does require legal interpretation.
Prune or Pruning	Selective removal of woody plant parts of any size, using saws, Loppers, Secateurs, or other pruning tools.
Rams Horn	In connection with wounds on trees, a roll of wound wood or occluding tissues that has a spiral appearance in cross section. Opposing faces may result in the formation of cracks as they connect.
Reaction Wood	Wood with distinctive anatomical and physical characteristics, formed in parts of leaning or crooked stems and in branches to provide additional strength / support. In hardwoods, tension wood usually forms. In conifers, compression wood is usually found.
Reaction Zone	A zone normally darker than surrounding wood that denoted the boundary often a defensive one between functional sapwood and dysfunctional or decaying wood.
Re-grading	The raising or lowering of a soil profile from its original grade.
Rejuvenation pruning	Where historically or environmentally important trees are to be retained, their life spans can be significantly extended through the adoption of particular pruning regimes.
Rejuvenation root treatment	Management of the root zone can have a significant positive effect upon the health of trees. Physical, mechanical and biological approaches are available and can be prescribed in accordance within the constraints of individual sites.
Remedial Action	In tree hazard management, action to mitigate or remove the risk of injury to persons or property.
Remedial pruning	The removal of old stubs, deadwood, epicormic growth, rubbing or crossing branches and other unwanted items from the tree's crown.
Resistograph	Invasive decay detection technique whereby the resistance offered by the timber to a spinning probe is measured and plotted. Invasive though very small hole diameter.
Rib	In tree body language, a long narrow, axial protuberance which often over lays a crack.
Ring Barking	Artificial Girdling of the stem, to result in the death of a tree. May be used in habitat creation were the retention of dead standing trees is required.
Risk	The likelihood of potential damage occurring to a feature or a hazard resulting in harm.
Rod Bracing / Bolting	Traditionally, this has relied upon the Installation of steel rods or bolts through the stems or limbs, to reduce twisting or splitting of the wood. The installation of such features does require legal interpretation.
Root Barriers	Both Buildings and services can benefit from the installation of root barriers to protect a soil volume from the ingress of roots.
Root Collar	The basal area of the tree; transition zone from trunk to root. Also sometimes called trunk flare.
Root Crown	The area where the trunk turns into the roots, usually at soil level, the trunk tapers out at the base.
Root Plate	The primary support area for the tree; an area of the root system close to the base that structurally anchors the tree to the soil.
Root Rot	Either a general term for decay within the wood of the lower stem / buttress roots, or a disease in which the fine roots are killed.
Root System	The portion of the tree containing the root organs, including buttress roots, transport roots, and fine absorbing roots; all underground parts of the tree.
Root Zone	The area and volume of soil around the tree in which roots are expected. May extend to three or more times the branch spread of the tree, or several times the height of the tree.
Sail Area	In arboriculture, a general description for the wind intercepting area of a trees live crown. This can vary with both orientation and season.
Sanitation	In plant disease control, the removal of material that could a source of infection by a pathogen. Removal of diseased plant parts, such as fallen leaves and twigs, and pruning of dead and diseased branches. Diseased parts should be burned or buried under soil or active compost.
Sapwood	Xylem wood tissue, usually light in colour, representing the outer growth rings of the wood. Usually living, reactive wood tissue, in a healthy tree. See heartwood
Scaffold limbs / scaffold Branches	The branches that from the main network framework of the crown of a tree.
Senescent	A decline in growth and vigour due to age or stress factors.
Shrub	A woody plat that branches at or close to the ground level and so does not have a single stem.
Slime Flux	Relating to a toxic condition from the spreading of bacteria or their products from a source of infection; characterized by malodorous gases, or salt deposits upon the bark. If these products enter the sap stream,

Simon Davey

Crown Ref: 08941

Site:

55a Main Street, Wilsford 2nd May 2013

Author:

Ivan Button

Date:

	localised vessel necrosis can result, usually associated with anaerobic conditions.
Snag	In a woody plant, a portion of cut or broken stem which extends beyond any growing point or dormant bud.
Soft Rot	A kind of wood decay, were a fungi degrades cellulose within the cell wall, without causing overall degradation.
Soil Compaction	The compression of soil, causing a reduction of pore space and an increase in the density of the soil. Air is squeezed out and nutrients become locked. Tree roots cannot grow in compacted soil.
Soil Profile	The characteristics of a soil as regards to relative depth; the changes in soil texture and composition that occur with depth.
Soil Texture	The classification of the constituent particles of soil; includes sand, silt and clay particles. Directly related to soil porosity, permeability, and aeration.
Sonic Decay Detection	Non invasive method whereby sound waves are passed through the tree and the speed is measured. Slow speeds indicate decay and a tomography picture representing the inner stem is produced.
Sprout	Also Epicormic shoot. A shoot or stem that grows from the bark of a tree; adventitious or secondary growth generally the result of physiological stress.
Stag Heading	In a tree, a state of dieback were dead branches protrude beyond the current living crown
Stress	In plant physiology, conditions were one or more physiological functions Are not working within normal parameters.
Stump Grinding	The removal of a tree stump using a specialist grinding machine.
Subsidence	In relation to vegetation, the removal of water by plant growth resulting in localised shrinkage in the soil volume.
Sucker	Same as sprout
Suppressed	Trees which are dominated by surrounding vegetation and whose crown development is restricted from above.
Systemic	Affecting the whole plant or organism. A systemic compound is carried throughout the entire plant to all parts through the vascular system.
Target	Any person or object within reach of a falling tree or part of a tree that may be injured or damaged.
Target Pruning	The pruning of a branch were the wound affects only branch material, often result in a target shaped wound.
Tension Wood	Reaction wood typically formed on the upper side of limbs or curved stems; characterized by lack of cell wall lignifications (higher ratios of cellulose to lignin).
Thermography	The use of very sensitive equipment can detect small temperature changes within the volume of a tree, these small changes are used to identify the location of decay, faults and water pockets. Totally un-invasive.
Tight Union / Tight Crotch	Also, narrow crotch. A crotch with a narrow angle between branches, often having included bark.
Tomography	The comparison of sound or stress waves through the tree allows the creation of a 2D or 3D representation of the internal structure of a stem or branch section and highlights areas of damage. Virtually non-injurious.
Topography	The configuration of surface features, including the vertical and horizontal relationships or positions of the ground and other features.
Topping	The practice of cutting large limbs back severely, without regard to form or habit of the tree. Cuts are usually made between lateral branch nodes. This practice is extremely injurious to trees, and promotes decay and structural weakness within the canopy.
Tree	A woody plant that typically has a single stem, at maturity has a height of a least 4 metres and a stem diameter at breast height of at least 75mm.
Tree Preservation Order	In Great Britain, an order made by the local planning authority, were consent must be gained before undertaking all but exempt works to a tree.
Trunk Flare	The basal area of the trunk that flares or widens, and merges with the main roots. See root collar
Veteran Tree	Veteran trees are often found in large parks or estates and commonly affected by extensive decay or have been subject to extensive works. These trees are retained for historical importance and often pose greater risk than normal, which is generally justified. Such trees need careful management and often propping or bracing to support them, some require fencing to limit access.
Vigour	Active, healthy growth of plants: ability to respond to stress factors.
Visual Tree Assessment (VTA)	An assessment of the mechanical condition of trees based upon their 'body language'. Trees are dynamic and respond to faults / decay / environmental factors in various ways, these responses can be indicative of
Wetwood	structural integrity. An infection caused by bacteria living inside the plant tissues. The bacteria ferment the plant fluids, resulting in death of nearby cells, and often causing exudations of fluid from the bark, often referred to as a Slime Flux.
White Rot	A kind if wood decay were a fungi attacks the lignin within the wood matrix
Wind loading	Forces placed upon tree canopy, branches, trunk and roots of a tree under windy conditions.
Wind Throw	The failure of a tree due to wind loading.
Witches Broom	A deformed or unusual growth of twigs from adventitious buds, caused by insects, disease, or dieback of twigs and buds.
Wood	Secondary Xylem; the main structural support and water conducting tissue of trees and shrubs.
Woodland Structure	The vertical and horizontal arrangement of trees within a group or woodland i.e. Dominant - trees with a crown above the upper layer of the canopy, Co dominant - trees that define the general upper edge of the canopy, Intermediate - trees that have been largely overgrown by others, Suppressed - trees that have been overgrown and occupy an under storey position and grow slowly, often severely asymmetrical.
Wound Response Tissue	Also Occluding Tissue, Wound Wood or Callus. Differentiated wood tissue that grows around the margins of a wound or injury.
Wound Wood	Wood with atypical anatomical features, formed in the vicinity of a wound and a term to describe the occluding tissues around a wound
Xylem	Plant tissues with special function of translocation of water and dissolved nutrients.

Simon Davey

Crown Ref: 08941

Author:

: 08941 Ivan Button Site:

55a Main Street, Wilsford

Date: 2nd May 2013

Appendix 4: Author's Qualifications

Qualifications & Experience of Ivan Button N.C.H. (Arb), FDSc (Arb), BSc (Hons), P.G.C.E., M. Arbor. A.

Construction

Between 1983 and 1990 Ivan worked within the construction industry and received training in a broad range of practical building skills and general construction principles. In 1989 Ivan obtained a BSc (Hons) at Leeds University followed by a P.G.C.E at The University of Wales in 1990. Ivan returned to work within the construction industry and expanded his understanding of construction principals.

Arboriculture

In 1996 Ivan obtained a NCH (Arboriculture) at the University of Lincoln and became a member of the Arboricultural Association. He then trained as an Arboricultural Consultant before establishing a tree surgery and landscaping business in 1998. In 2005 Ivan commenced full time employment with a leading Arboricultural Association approved consultancy and soon adopted a senior role responsible for five consultants.

Ivan is now the Director and Principal Consultant of Crown Consultants Ltd.

Ivan has produced numerous Arboricultural Reports for the purposes of Development, Safety, Management, Mortgage, Subsidence, Mitigation and Litigation.

He is accredited as a LANTRA Professional Tree Inspector. A qualification produced in association with the Arboricultural Association and generally recognised as appropriate for all levels of tree inspection.

He obtained a foundation degree in arboriculture at the University of Lancashire, which he passed with distinction.

He is a member of the Consulting Arborist Society and is listed within their areas of professional expertise for QTRA and as an expert witness.

Ivan is a professional member of the Arboricultural Association and the International Society of Arboriculture.

He is a licensed Quantified Tree Risk Assessment user.

Ivan has undertaken professional expert witness training and is registered as a Sweet and Maxwell Checked Expert Witness since 2008.

Throughout the majority of 2009 Ivan acted as Tree Officer for a Government Local Authority.

Simon Davey

Crown Ref: 08941

Site: Date: 55a Main Street, Wilsford

Author: Ivan Button 2nd May 2013

Appendix 5: Further Information

Building Near Trees - General

National Joint Utilities Group publication # 10 (1995), Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees. Downloadable at www.njug.demon.co.uk/pdf/NJUG%20Publication10.pdf

NHBC Standards Chapter 4.2., Trees and Buildings.

Horticulture LINK project 212. (University of Cambridge, 2004), Controlling Water Use of Trees to Alleviate Subsidence Risk.

Tree Planting and aftercare

See www.trees.org.uk/leaflets.php# for downloadable leaflets on selecting a garden tree, planting, aftercare and veteran tree management.

British Standards

BS 5837: 2005. Trees in Relation to Construction - Recommendations.

Bs 3998: 1989. Recommendations for Tree Work.

BS 3936: 1992. Nursery Stock. Part 1: Specification for Trees and Shrubs.

BS 3936: 1992. Nursery Stock. Part 10: Specification for Groundcover Plants.

BS 4043: 1989. Transplanting Root-balled Trees.

BS 8004: 1986. Foundations.

BS 8103: 1995. Structural design of Low-Rise Buildings.

BS 8206: 1992. Lighting for Buildings.

BS 3882: 2007. Topsoil.

BS 4428: 1989. General Landscaping Operations (excluding hard surfaces).

Permission to do Works to Protected Trees / Tree Law

Forestry Commission (Edinburgh, 2003), Tree Felling - Getting Permission. Country Services Division - Forestry Commission. Downloadable at www.forestry.gov.uk/website/pdf.nsf/pdf/wgsfell.pdf/\$FILE/wgsfell.pdf

Transport and the Regions (Department of the Environment, 2000), Tree Preservation Orders, A Guide to the Law and Good Practice. Downloadable at www.communities.gov.uk/publications/planningandbuilding/tposguide

C. Mynors, The Law of Trees, Forests and Hedgerows (Sweet and Maxwell, London, 2002)

Communities and Local Government website with numerous downloadable documents, from: http://www.communities.gov.uk/planningandbuilding/planning/treeshighhedges/

Lighting Levels

P.J. Littlefair, B.R.E. 209: Site layout planning for daylight and sunlight A guide to good practice. B.R.E. Bookshop, London.

British Standards Institution. Code of practice for day lighting. British Standard BS 8206: Part 2 (1992).

Chartered Institution of Building Services Engineers. Applications manual: Window Design (London, 1987).

NBA Tectonics. A study of passive solar housing estate layout. ETSU Report S-1126. Harwell, Energy Technology Support Unit (1988).

I.P. Duncan; D. Hawkes, Passive solar design in non-domestic buildings. ETSU Report S-1110. Harwell, Energy Technology.

P. J. Littlefair, Measuring Daylight, BRE Information Paper 23/93 f3.50. (Advises on measuring daylight under the real sky or an artificial sky, allowing for the changing nature of sky light).

High Hedges

Communities and Local Government website with numerous downloadable documents, from: http://www.communities.gov.uk/planningandbuilding/planning/treeshighhedges/

Tree Specific Websites

www.crowntrees.co.uk

Crown Consultants site containing useful information

www.trees.org.uk

Arboricultural Association

www.rfs.co.uk

Royal Forestry Society of England, Wales and N. Ireland

www.treehelp.Info www.woodland-trust.org.uk www.treecouncil.org.uk

The Tree Advice Trust The Woodland Trust The Tree Council

Simon Davey

Crown Ref: 08941

Site:

55a Main Street, Wilsford 2nd May 2013

Author: Ivan Button Date:

Appendix 6: Site Plan

