



# Health & Safety Report on trees at Crowland Abbey.

**Prepared by: John Wilcockson**

**Arboricultural Consultant.**

**Tech Cert (Arbor A) Date:**

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**Ref: JW\_H&S\_CA**

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## Instructions

This report was commissioned by Reverend Charles Brown on behalf of Crowland Abbey. The objectives of this report are as follows:

- To make an assessment of the trees' condition and identify any faults.
- To provide management recommendations based on the data gathered.

## Report Limitations

Trees are living organisms whose health and condition can change rapidly. The health, condition and safety of the trees therefore should be checked on a regular basis, preferably once a year; this is the responsibility of the tree owner. The conclusions and recommendations in this report are only valid in line with the recommendations provided commencing from the date of the survey. The period of validity maybe reduced in the case of any change in condition or to proximity to the tree. Only those features that are apparent at the time of inspection could be assessed.

No soil samples were taken in preparation of this report and therefore no comments have been made in relation to any soil conditions.

An assessment was made of the trees' condition visually from ground level using Mattheck's Visual Tree Assessment methodology. No climbed inspection or detailed investigation of decay was made; however, this was not considered necessary as enough information was gained about the trees from a ground level inspection. If any faults or potential failings were identified on the tree these have been picked up in the tree survey notes. It should be noted that trees can change significantly over a relatively short period of time, and therefore trees should be monitored on a regular basis for sign of deterioration.

## Background

The majority of tree roots, even for a mature tree, are found in the top 60cm of the soil and are vulnerable to sudden changes in the rooting environment. These roots absorb moisture and nutrients needed for growth and contrary to popular belief, mature trees do not have a large deep taproot that obtains moisture from great depth.

Any damage to the rooting environment can upset the balance between the crown and roots established by a tree over many years, and this may be detrimental to the health status or may compromise the stability and structural integrity of the tree. It should be noted that healthy trees will usually withstand a loss of a proportion of their root system.

The storage of materials, plant machinery etc can cause compaction to the upper soil horizons which may result in damage to feeder roots. These feeder roots absorb oxygen, water & nutrients that are then transported around various parts of the tree to fulfil their part in the growth processes of the tree.

Particular care needs to be addressed in dealing with legally protected species such as nesting birds and roosting bats which are protected under the Wildlife and Countryside Act 1981 (as amended) from intentional harm and killing and applies to roosting and hibernating bats and active bird nests. The bird nesting season generally runs from March 1<sup>st</sup> to 31<sup>st</sup> August, ideally, any works should be avoided within this period. If the presence of bats is suspected, it is recommended that the Local Bat group is contacted for advice.

## Site Information

The trees are located in and around the walled boundary of the Abbey.

## Tree Protection

The legal status of the trees on site in relation to Tree Preservation Orders and Conservation Areas has not been checked with the Local Planning Authority, a check should be carried out prior to works commencing.

The Town and Country Planning Act 1990 protects trees within Conservation Areas that are not already subject to TPO protection. Conservation Areas are defined as “areas of special architectural or historic interest, the character or appearance of which it is desirable to preserve or enhance”. Although Conservation Areas are primarily designated due to the built environment, trees also contribute to the character of these areas. Trees with a diameter in excess of 7.5cm (3 inches) measured 1.5 metres (5 feet) above ground level are protected by law, and 6 weeks’ written notice must be given before any tree work, not just felling, is undertaken. For trees being felled to aid the growth of others (i.e. thinning operations), the threshold diameter is 10cm (4 inches).

Within a conservation area there are restrictions to the work that may be carried out on trees. The LPA must be given at least six weeks’ notice in writing before works are carried out to most trees within conservation areas. The notice must describe:

- which trees require work
- the nature of the work

Work must not be carried out during that period without permission. (If it is, a heavy fine could be imposed and replacement planting will generally be required). After six weeks the Council has to make a decision, either negotiate to a favourable position for both parties, approve the works or serve a Tree Preservation Order. Works must be completed within two years of the date of serving the notice.

Notification is not needed if the tree intended to be worked on is:

- less than 7.5 cm (3 inches) in diameter .

- less than 10 cm (4 inches) in diameter if removal is to improve the growth of other trees.
- Dead.
- in a commercial orchard, or pruning fruit trees in accordance with good horticultural practice.
- directly in the way of development that is about to start and for which detailed planning permission has been granted.

The diameter is to be measured over the bark of the tree at 1.5m (5ft) above ground level and can be taken to be roughly equal to a third of the girth at that height divided by 3.

Work may also be undertaken without notice:

- to prevent or control a nuisance (in the legal sense, in which case it may be helpful to consult a solicitor).
- to comply with an obligation under an Act of Parliament.
- at the request of certain government departments and other specified organisations.
- For pruning fruit trees for the production of fruit, so long as it is line with best horticultural practice.

Statutory wildlife obligations: The Wildlife and Countryside Act 1981 as amended by the Countryside and The Habitat Regulations 2012 provide statutory protection to birds, bats and other species that inhabit trees. All tree work operations are covered by these provisions and advice from an ecologist should be obtained before undertaking any works that might constitute an offence.

### Aspirations of the survey

The aim of this survey is to determine the current health and condition of the trees and to thereafter, identify and highlight hazardous defects and assess potential risks in relation to the owner's Duty of Care.

### Duty of care relating to trees

In broad terms, a tree owner, and/or whoever has control over it (the duty holder), has a duty of care in both civil and criminal law to take reasonable management measures to avoid foreseeable injury or harm. Duty holders are expected to consider the risks posed by their trees and manage those risks in a reasonable and proportionate way.

There is well established case law upholding the principle that the standard of the duty of care varies according to the resources available to the duty holder, i.e. a large land owner such as an estate or a highway authority would be expected to apply a higher standard of management than smaller land owners such as residential householders.

In short, the law expects duty holders to act in a practical and sensible way, according to the size of their properties.

However, in the event that a duty holder is found neglectful of their duty of care in terms of checking, i.e. they did not have their trees checked where a significant potential for harm existed, it does not automatically follow that they will be liable for any harm that arises.

Liability will only flow from that negligence if it can be established that a competent check would have identified an unacceptable risk of harm and resulted in remedial works that would have prevented that harm occurring. If a defect that resulted in failure would not have been found in a competent check then, irrespective of any negligence from not carrying out a check, the duty holder is unlikely to be held liable for the consequences of the failure.

### Negligence, liability and Acts of God

More specifically, negligence, liability and Acts of God are commonly used terms when discussing duty of care and how blame will be apportioned in the event of harm arising.

Although they are the subject of detailed legal definitions, their everyday meaning during normal use is more helpful. Negligence occurs when someone fails to do something that a reasonable person would have done. Liability is where the responsibility lies when something happens, i.e. who is to blame, with an implication that this is where compensation may be due for any harm that arises. An Act of God means an event that is beyond human control, i.e. there were no obvious indications that it was going to happen before the event.

Case histories suggest that act of god is only a means of defence if the tree(s) have been inspected by a competently trained person and any advice acted upon.

### Criteria For Risk Assessment

The Risk Assessment system used is based on the *Tree Hazard: Risk Evaluation and Treatment System* (THREATS) and has been used to record the facts of the inspection as per:-

- Lists any observed defects
- Assessment of the three components of tree risk (defect, target and impact – after Matheny & Clark (1994)<sup>1</sup>)
- The system contains an algorithm that provides for a relatively subtle interaction between these three components
- Arrives at a conclusion which was in tune with what can be termed 'unassisted arboricultural decision making' (aka gut instinct)
- Establishes a defensible hierarchy of response that includes delayed intervention and phased re-inspection.

| Score range | Threat category  | recommended action and completion deadline                                                 |
|-------------|------------------|--------------------------------------------------------------------------------------------|
| 4000+       | 7 - Extreme      | Evacuate/prevent access to impact site, emergency call-out of contractors                  |
| 2001-3999   | 6 - Serious      | Close site if practical; arrange for work to be completed within 7 days                    |
| 1000-2000   | 5 - Significant  | Arrange for work to be completed within four weeks maximum                                 |
| 330-999     | 4- Moderate      | Remediate within 13 weeks, reinspect after SWE meantime (inc. gales to Force 7+)           |
| 160-329     | 3- Slight        | Reinspect annually /after storms (Force 10+), expect to schedule work within 2 yrs         |
| 50-159      | 2- Minimal       | Reinspect within 3 yrs if public access, schedule work as required                         |
| 0-49        | 1- Insignificant | Reinspect within 5 yrs if general public access or 3 yrs if child-specific access & TS ≥20 |

## Findings

Appendix 1 lists the trees surveyed along with site observations recorded at the time of inspection.

The site plan can be found at Appendix 2.

All trees have scored as THREATS Category 1 – Insignificant, apart from T24 which is minimal.

No significant or actionable defects were noted.

2 of the Yews have thin crowns which is common in terms of their age.

The Ash (T34) is causing damage to the boundary wall, if the tree is owned by a 3<sup>rd</sup> party, they should be informed that this is the case. Ideally the tree should be removed before further damage occurs. In these instances of 3<sup>rd</sup> party damage, this situation typically constitutes an insurance claim as it is technically criminal damage.

Overall, the defects picked up across the population of trees are largely proportionate to their age.

## Recommendations

Carry out works at appendix 1 within the suggested timescales.

Due to recent court cases, it is recommended that a survey is carried out every 18 months to pick up seasonal variances between Summer and Autumn/Winter. With this in mind, it is suggested that a full survey is carried out again in late summer of 2022.

*J Wilcockson*

John wilcockson

29/03/2021

## Appendix 1

## Tree Survey Report

Site: Crowland Abbey

| Condition | No. trees |
|-----------|-----------|
| Fair      | 4         |
| Good      | 36        |
| Poor      | 1         |
| Total     | 41        |

| Site           | No. trees |
|----------------|-----------|
| Crowland Abbey | 41        |



**John Wilcockson**  
Arboricultural Consultant

| Ref  | Species                                    | Description                                 | Measurements                               | Failure Indicators                                                                                                                                              | Condition | Threat Category  | Inspected   | Inspection period months | Recommendations                                                                                    |
|------|--------------------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------|--------------------------|----------------------------------------------------------------------------------------------------|
| T001 | Oak<br>(Quercus sp.)                       | Car park.<br>Graveyard                      | Life Stage: Young<br>Life Exp.: 40+ Years  | No significant defects                                                                                                                                          | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action                                                           |
| T002 | Horse Chestnut<br>(Aesculus hippocastanum) | Graveyard<br>Building<br>Footpath.<br>Road. | Life Stage: Mature<br>Life Exp.: 40+ Years | No significant defects Cavity at 2m SE, part occluded, appears sound, tested with hammer, no concerns.<br>Crown - minor deadwood < 100mm<br>Crown - weak unions | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Crown Lifting To 6m Over Highway<br>Buildings clearance by 2m<br>Timescale: 25-Sep-2021 (6 Months) |
| T003 | Horse Chestnut<br>(Aesculus hippocastanum) | Building<br>Footpath.<br>Road.<br>Graveyard | Life Stage: Mature<br>Life Exp.: 40+ Years | No significant defects Crown - minor deadwood < 100mm<br>Crown - weak unions<br>Trunk - historic pruning wounds /stubs                                          | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Crown lifting to 6m over highway<br>Timescale: 25-Sep-2021 (6 Months)                              |
| T004 | English Yew<br>(Taxus baccata)             | Footpath.<br>Graveyard                      | Life Stage: Mature<br>Life Exp.: 40+ Years | Roots - surface root damage<br>Trunk - historic pruning wounds /stubs<br>No significant defects.                                                                | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Crown Lifting To 3m Over Footpath<br>Timescale: 25-Sep-2021 (6 Months)                             |
| T005 | Irish Yew<br>(Taxus baccata 'Fastigiata')  | Footpath.<br>Graveyard                      | Life Stage: Mature<br>Life Exp.: 40+ Years | No significant defects<br>Trunk - Ivy/climber                                                                                                                   | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | sever ivy<br>Timescale: 25-Sep-2021 (6 Months)                                                     |
| T006 | English Yew<br>(Taxus baccata)             | Graveyard<br>Footpath.                      | Life Stage: Mature<br>Life Exp.: 40+ Years | Trunk - historic pruning wounds /stubs.<br>Early decay channel 2.2m with sound material around.<br>No significant defects                                       | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Crown Lifting To 3m Over Footpath<br>Timescale: 25-Sep-2021 (6 Months)                             |

| Ref  | Species                                    | Description                                                     | Measurements                                    | Failure Indicators                                                                                                                                                                                                                      | Condition | Threat Category  | Inspected   | Inspection period months | Recommendations                                                                                          |
|------|--------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------|--------------------------|----------------------------------------------------------------------------------------------------------|
| T007 | English Yew<br>(Taxus baccata)             | Footpath.<br>Graveyard                                          | Life Stage: Mature<br>Life Exp.: 40+ Years      | Trunk - historic pruning wounds /stubs.<br>Thin crown.<br>No significant defects<br>Roots - surface root damage                                                                                                                         | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Crown Lifting To 3m Over Footpath<br>Timescale: 25-Sep-2021 (6 Months)                                   |
| T008 | English Yew<br>(Taxus baccata)             | Footpath.<br>Graveyard                                          | Life Stage: Mature<br>Life Exp.: 40+ Years      | Trunk - historic pruning wounds /stubs.<br>Thin crown.<br>No significant defects<br>Roots - surface root damage                                                                                                                         | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Crown Lifting To 3m Over Footpath<br>Timescale: 25-Sep-2021 (6 Months)                                   |
| T009 | Holm Oak<br>(Quercus ilex)                 | Footpath.<br>Graveyard                                          | Life Stage: Mature<br>Life Exp.: 40+ Years      | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Crown - minor deadwood < 100mm                                                                                                                                      | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action                                                                 |
| T010 | Horse Chestnut<br>(Aesculus hippocastanum) | Building<br>Footpath.<br>Road.<br>Graveyard                     | Life Stage: Mature<br>Life Exp.: 40+ Years      | No significant defects Crown - minor deadwood < 100mm<br>Crown - weak unions<br>Trunk - historic pruning wounds /stubs<br>Trunk - Ivy/climber<br>Trunk - cavity 3.5m SE, part occluded, appears sound.<br>Crown - major deadwood >100mm | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Crown lifting to 6m over highway.<br>Crown raise to 3m over graves.<br>Timescale: 25-Sep-2021 (6 Months) |
| T011 | Horse Chestnut<br>(Aesculus hippocastanum) | Building<br>Footpath.<br>Road.<br>Graveyard                     | Life Stage: Mature<br>Life Exp.: 40+ Years      | No significant defects Crown - minor deadwood < 100mm<br>Crown - weak unions<br>Trunk - historic pruning wounds /stubs<br>Crown - major deadwood >100mm<br>Historic scaffold failure 7m south.                                          | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Crown lifting to 6m over highway.<br>Timescale: 25-Sep-2021 (6 Months)                                   |
| T012 | Horse Chestnut<br>(Aesculus hippocastanum) | Building<br>Footpath.<br>Road.<br>Graveyard                     | Life Stage: Mature<br>Life Exp.: 40+ Years      | Crown - minor deadwood < 100mm<br>Crown - weak unions<br>Trunk - historic pruning wounds /stubs                                                                                                                                         | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Crown lifting to 6m over highway.<br>Timescale: 25-Sep-2021 (6 Months)                                   |
| T013 | Sycamore<br>(Acer pseudoplatanus)          | Footpath.<br>Road.<br>Tree adjacent to open space.<br>Graveyard | Life Stage: Semi Mature<br>Life Exp.: 40+ Years | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Crown - minor deadwood < 100mm                                                                                                                                      | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action                                                                 |

| Ref  | Species                                    | Description                                        | Measurements                                     | Failure Indicators                                                                                                                                            | Condition | Threat Category  | Inspected   | Inspection period months | Recommendations                                |
|------|--------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------|--------------------------|------------------------------------------------|
| T014 | Holm Oak<br>(Quercus ilex)                 | Footpath.<br>Graveyard                             | Life Stage: Mature<br>Life Exp.: 40+ Years       | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Crown - minor deadwood < 100mm<br>Trunk - Ivy/climber                                     | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action       |
| T015 | Sycamore<br>(Acer pseudoplatanus)          | Footpath.<br>Road.<br>Tree adjacent to open space. | Life Stage: Semi Mature<br>Life Exp.: 40+ Years  | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Crown - minor deadwood < 100mm                                                            | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action       |
| T016 | Yew<br>(Taxus sp.)                         | Graveyard                                          | Life Stage: Early Mature<br>Life Exp.: 40+ Years | 4 Irish and 1 English Yew<br>No significant defects<br>Trunk - Ivy/climber<br>Crown - minor deadwood < 100mm                                                  | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | sever ivy<br>Timescale: 25-Sep-2021 (6 Months) |
| T017 | English Yew<br>(Taxus baccata)             | Graveyard                                          | Life Stage: Mature<br>Life Exp.: 40+ Years       | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Crown - codominant stems<br>Crown - minor deadwood < 100mm<br>Roots - surface root damage | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action       |
| T018 | Hawthorn<br>(Crataegus sp.)                | Graveyard                                          | Life Stage: Mature<br>Life Exp.: 40+ Years       | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Trunk - leaning <15°                                                                      | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action       |
| T019 | Horse Chestnut<br>(Aesculus hippocastanum) | Building<br>Footpath.<br>Graveyard                 | Life Stage: Mature<br>Life Exp.: 40+ Years       | Monolithed at 8m<br>Trunk - historic pruning wounds /stubs                                                                                                    | DEAD      | 1: Insignificant | 20/9/21     |                          | Fell within 12 months                          |
| T020 | Beech<br>(Fagus sp.)                       | Graveyard                                          | Life Stage: Mature<br>Life Exp.: 40+ Years       | Grafted specimen.<br>Crown - codominant stems<br>Crown - minor deadwood < 100mm                                                                               | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action       |
| T021 | Sycamore<br>(Acer pseudoplatanus)          | Tree adjacent to open space.<br>Graveyard          | Life Stage: Semi Mature<br>Life Exp.: 40+ Years  | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Crown - minor deadwood < 100mm<br>Trunk - Ivy/climber<br>Roots - surface root damage      | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | sever ivy<br>Timescale: 25-Sep-2021 (6 Months) |

| Ref  | Species                                    | Description                               | Measurements                                     | Failure Indicators                                                                                                                                                                                                                                                                                      | Condition | Threat Category  | Inspected   | Inspection period months | Recommendations                                       |
|------|--------------------------------------------|-------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------|--------------------------|-------------------------------------------------------|
| T022 | Sycamore<br>(Acer pseudoplatanus)          | Tree adjacent to open space.<br>Graveyard | Life Stage: Semi Mature<br>Life Exp.: 40+ Years  | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Crown - minor deadwood < 100mm<br>Weak union 1.8m                                                                                                                                                                                   | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action              |
| T023 | Sycamore<br>(Acer pseudoplatanus)          | Tree adjacent to open space.<br>Graveyard | Life Stage: Semi Mature<br>Life Exp.: 40+ Years  | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Crown - minor deadwood < 100mm<br>Weak union at 1.5m.<br>Historic storm damaged limbs.<br>Hanger 3.5m SE.                                                                                                                           | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Remove hanger<br>Timescale: 25-Sep-2021 (6 Months)    |
| T024 | Horse Chestnut<br>(Aesculus hippocastanum) | Graveyard                                 | Life Stage: Early Mature<br>Life Exp.: 10+ Years | Decay channel from ground level to 1.2m.<br>Decaying wounds in crown.<br>Historic limb failure.                                                                                                                                                                                                         | Poor      | 2: Minimal       | 20/09/21    |                          | Fell within 12 months                                 |
| T025 | Horse Chestnut<br>(Aesculus hippocastanum) | Playing fields<br>Graveyard               | Life Stage: Early Mature<br>Life Exp.: 40+ Years | Crown - minor deadwood < 100mm<br>Crown - weak unions<br>Trunk - historic pruning wounds /stubs<br>Weak union at 2m with included bark.<br>Trunk - Ivy/climber<br>Crown - asymmetric from historic centre crown failure.<br>which has resulted in tear out wounds. Sufficient sound material remaining. | Poor      | 1: Insignificant | 20/9/21     |                          | Fell within 12 months                                 |
| T026 | Yew<br>(Taxus sp.)                         | Graveyard                                 | Life Stage: Early Mature<br>Life Exp.: 40+ Years | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Roots - surface root damage                                                                                                                                                                                                         | Fair      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action              |
| T027 | Cypress<br>(Chamaecyparis sp.)             | Graveyard                                 | Life Stage: Mature<br>Life Exp.: 40+ Years       | No significant defects<br>Trunk - Ivy/climber<br>Trunk - historic pruning wounds /stubs<br>Trunk - leaning 15° to 30°<br>Crown - minor deadwood < 100mm                                                                                                                                                 | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | sever ivy<br>Timescale: 25-Sep-2021 (6 Months)        |
| T028 | Cypress<br>(Chamaecyparis sp.)             | Graveyard                                 | Life Stage: Semi Mature<br>Life Exp.: 40+ Years  | No significant defects<br>Trunk - historic pruning wounds /stubs                                                                                                                                                                                                                                        | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: 25-Sep-2021 (6 Months) |

| Ref  | Species                                      | Description                 | Measurements                                     | Failure Indicators                                                                                                                                            | Condition | Threat Category  | Inspected   | Inspection period months | Recommendations                                                            |
|------|----------------------------------------------|-----------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------|--------------------------|----------------------------------------------------------------------------|
| T029 | Yew<br>(Taxus sp.)                           | Graveyard                   | Life Stage: Mature<br>Life Exp.: 40+ Years       | 8 Irish and 1 English Yew                                                                                                                                     | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action                                   |
| T030 | Irish Yew<br>(Taxus baccata<br>'Fastigiata') | Graveyard                   | Life Stage: Mature<br>Life Exp.: 40+ Years       | No significant defects                                                                                                                                        | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action                                   |
| T031 | Sycamore<br>(Acer<br>pseudoplatanus)         | Graveyard                   | Life Stage: Mature<br>Life Exp.: 40+ Years       | Trunk - Ivy/climber<br>Crown - minor deadwood < 100mm<br>No significant defects<br>Crown - hanger                                                             | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | remove deadwood>75mm<br>Remove hanger<br>Timescale: 25-Sep-2021 (6 Months) |
| T032 | Lebanon Cedar<br>(Cedrus libani)             | Graveyard<br>Playing fields | Life Stage: Young<br>Life Exp.: 40+ Years        | No significant defects<br>Crown - asymmetric<br>Trunk - surface bark wound                                                                                    | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action                                   |
| T033 | Atlas Cedar<br>(Cedrus atlantica)            | Graveyard<br>Playing fields | Life Stage: Semi Mature<br>Life Exp.: 40+ Years  | No significant defects<br>Trunk - surface bark wound<br>Crown - minor deadwood < 100mm                                                                        | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action                                   |
| T034 | Ash<br>(Fraxinus sp.)                        | Off site                    | Life Stage: Early Mature<br>Life Exp.: 40+ Years | No significant defects Trunk - leaning <15°<br>Crown - minor deadwood < 100mm<br>Crown - major deadwood >100mm<br>Crown - dieback<br>Damage to boundary wall. | Very poor | 1: Insignificant | 20/09/21    |                          | Fell within 12 months                                                      |
| T035 | Goat Willow<br>(Salix caprea)                | Graveyard<br>Playing fields | Life Stage: Mature<br>Life Exp.: 40+ Years       | No significant defects<br>Trunk - historic pruning wounds /stubs<br>Crown - codominant stems<br>Crown - minor deadwood < 100mm                                | Poor      | 1: Insignificant | 20/09/21    |                          | Fell within 12 months                                                      |
| T036 | Beech<br>(Fagus sp.)                         | Graveyard                   | Life Stage: Mature<br>Life Exp.: 40+ Years       | Crown - codominant stems<br>Crown - minor deadwood < 100mm<br>Historic tear out wounds.                                                                       | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action                                   |
| T037 | Common Laburnum<br>(Laburnum<br>anagyroides) | Graveyard                   | Life Stage: Mature<br>Life Exp.: 40+ Years       | No significant defects<br>Crown - codominant stems<br>Crown - minor deadwood < 100mm                                                                          | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | No work required<br>Timescale: No Action                                   |
| T038 | Sycamore<br>(Acer<br>pseudoplatanus)         | Graveyard<br>Footpath.      | Life Stage: Mature<br>Life Exp.: 40+ Years       | Trunk - Ivy/climber<br>Crown - minor deadwood < 100mm<br>No significant defects<br>Trunk - historic pruning wounds /stubs                                     | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | sever ivy<br>Timescale: 25-Sep-2021 (6 Months)                             |

| Ref  | Species                                   | Description                   | Measurements                                     | Failure Indicators                                                                                                                                         | Condition | Threat Category  | Inspected   | Inspection period months | Recommendations                                                       |
|------|-------------------------------------------|-------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------|--------------------------|-----------------------------------------------------------------------|
| T039 | Irish Yew<br>(Taxus baccata 'Fastigiata') | Graveyard Footpath. Road.     | Life Stage: Mature<br>Life Exp.: 40+ Years       | No significant defects<br>Trunk - Ivy/climber                                                                                                              | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | sever ivy<br>Timescale: 25-Sep-2021 (6 Months)                        |
| T040 | Irish Yew<br>(Taxus baccata 'Fastigiata') | Graveyard Footpath. Road.     | Life Stage: Mature<br>Life Exp.: 40+ Years       | No significant defects<br>Trunk - Ivy/climber                                                                                                              | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | sever ivy<br>Timescale: 25-Sep-2021 (6 Months)                        |
| T041 | Holly<br>(Ilex sp.)                       | Graveyard Dwelling. Footpath. | Life Stage: Early Mature<br>Life Exp.: 40+ Years | No significant defects<br>Crown - codominant stems<br>Crown - minor deadwood < 100mm<br>Crown - excessive crossing branches<br>Crown - dense crown foliage | Good      | 1: Insignificant | 25-Mar-2021 | 18                       | Crown Lifting To 6m Over Highway<br>Timescale: 25-Sep-2021 (6 Months) |

## Appendix 2

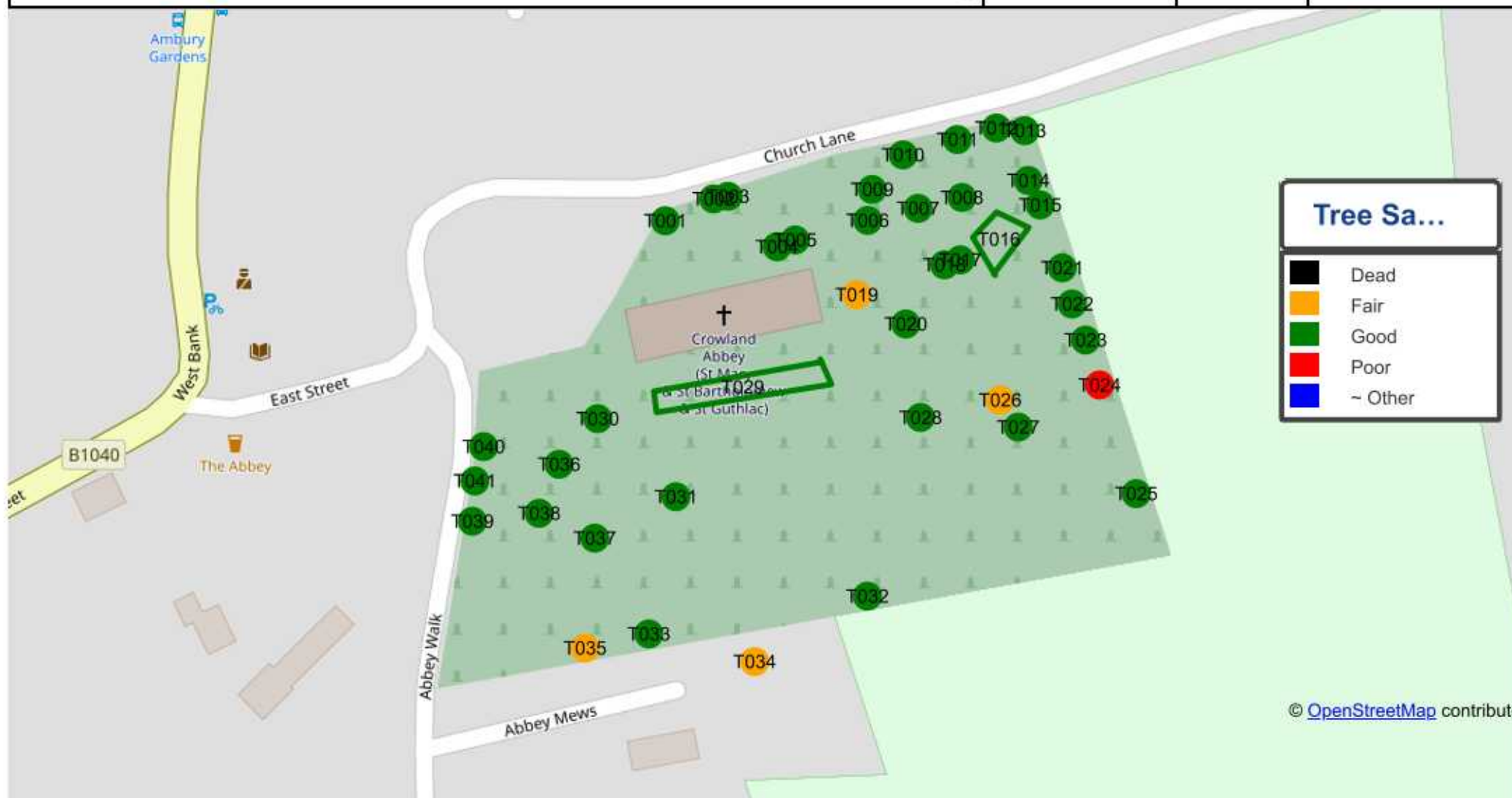
### Crowland Abbey - overview

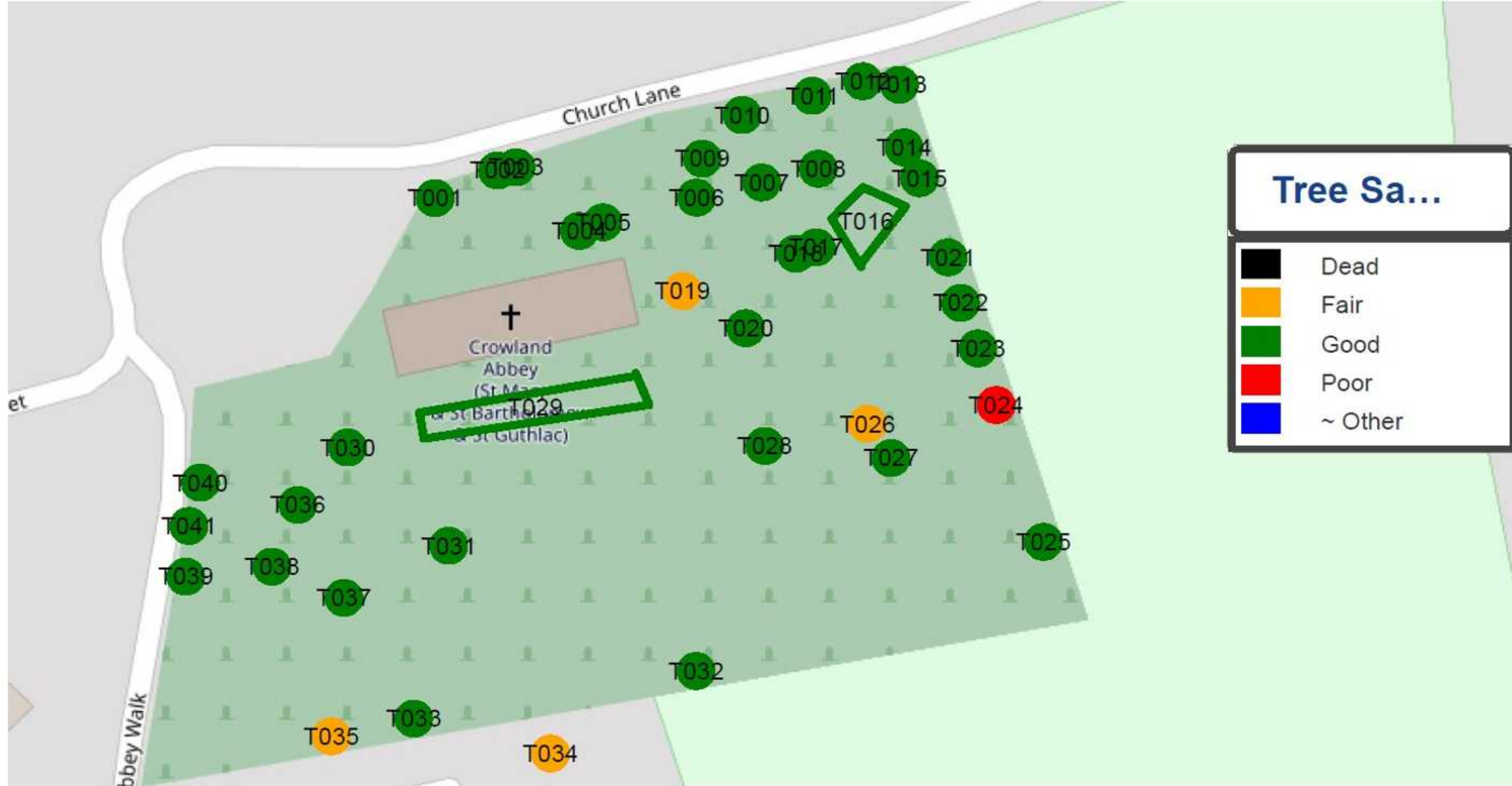
20  
m  
100 ft

Scale = 1 : 1693  
Page size: A4



John Wilcockson  
Arboricultural Consultant



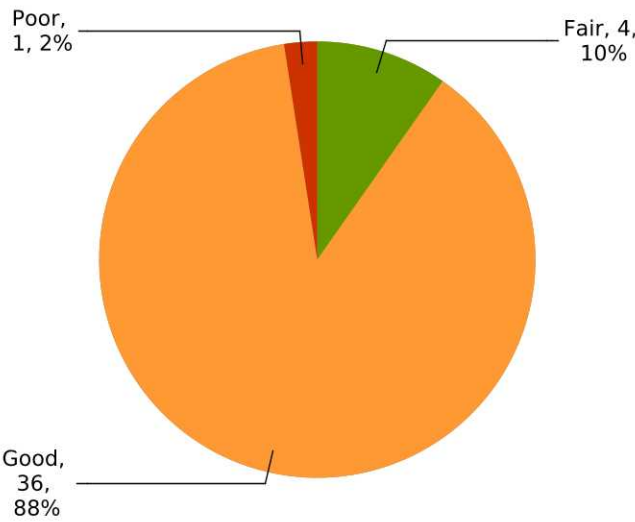


Summary of trees

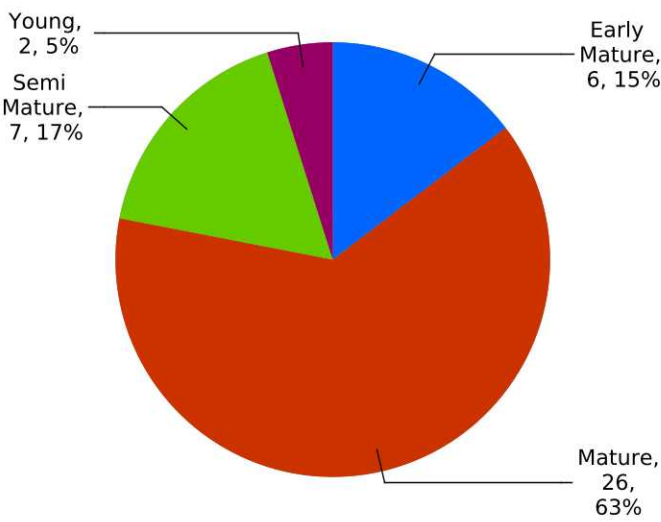
Site name: All Sites  
Risk zone: -  
Contact: -  
Trees: 41      Work items: 41



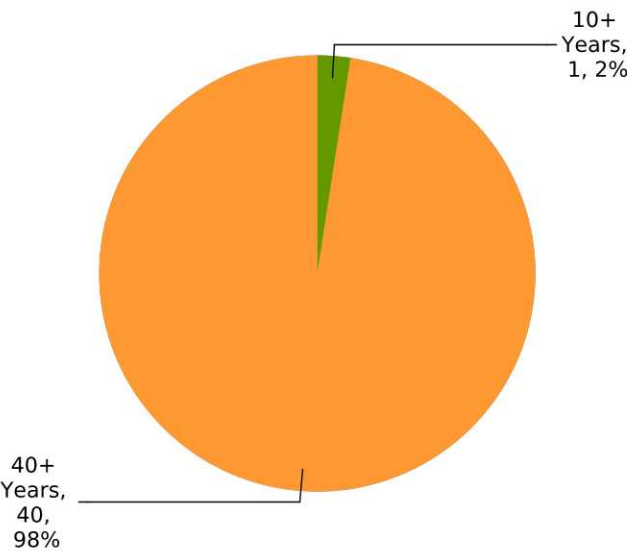
Overall Condition



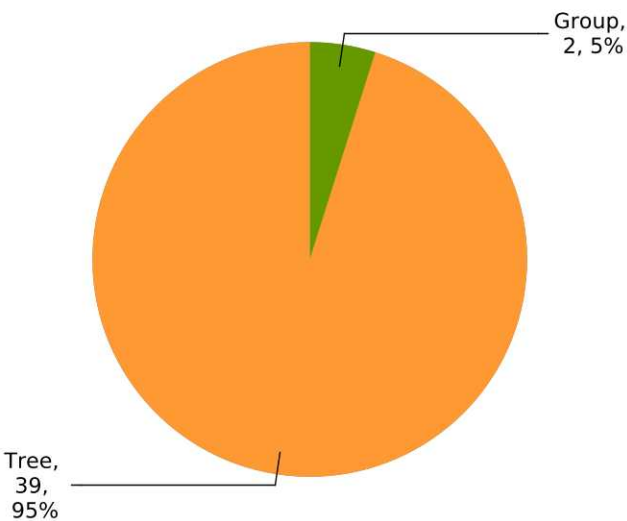
Age Class



Life Expectancy



Structure



# Species

