

Forestry Commission Key Performance Indicators

Headline Performance Update
30 June 2020

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Headline Performance Update at 30 June 2020 (First Release)

The Forestry Commission publishes a range of key performance indicators to show our contribution towards forestry and woodlands in England, and to show barometers of trends in the wider forestry sector in England. The indicators reflect our priorities to protect, improve and expand England's woodlands. They display some of the contributions Forestry England makes to people, nature and the economy through the nation's forests. As such they show part of how we are contributing to delivery of the government's 25 Year Environment Plan¹.

Our use of indicators reflects our commitment to evidence based working and to ensuring that there is a robust evidence base available to the forestry sector to underpin policy and operational decisions. We publish:

- Updates on these six headline key performance indicators quarterly². They are listed in Table 1.
- Reports on *Government supported new planting of trees in England* annually with a mid-year interim update. The latest report is the full report³ for the 2019-20 year. The next report, an interim one covering the first half of 2020-21, is expected to be published in November 2020.
- Reports on our full suite of around 60 indicators in our Forestry Commission *Key Performance Indicators* report annually. The latest report⁴ is for 2019-20. The next report is expected to be published in June 2021.

Each of these six headline indicators are based on statistical and geographical analysis of Forestry Commission administrative data, the National Forest Inventory or data available from other parts of the Defra Group.

Previous, current and future editions of all these reports are available from the [Forestry Commission key performance indicators webpage](#) on the GOV.UK¹ web site.

¹ HM Government (2018) *A Green Future: Our Plan to Improve the Environment*, London: Defra, at <https://www.gov.uk/government/publications/25-year-environment-plan>

² Available from the Forestry Commission key performance indicators page on GOV.UK at <https://www.gov.uk/government/collections/forestry-commission-corporate-plan-performance-indicators>

³ Forestry Commission (2020) *Government supported new planting of trees in England: Report for 2019-20*. Bristol: Forestry Commission, 10 pages, at <https://www.gov.uk/government/statistics/government-supported-new-planting-of-trees-in-england-report-for-2019-20>

⁴ Forestry Commission (2020) *Key Performance Indicators: Report for 2019-20*, Bristol: Forestry Commission, 78 pages, at <https://www.gov.uk/government/statistics/forestry-commission-key-performance-indicators-report-for-2019-20>

Table 1: Forestry Commission Headline Key Performance Indicators

Headline Key Performance Indicator	Page
Forest Services	
PROTECT	
Number of high priority forest pests in the <u>UK Plant Health Risk Register</u> (UKPHRR).	4
Percentage of known tree felling that is carried out with Forestry Commission approval (i.e. the % of felling that is licensable by the Forestry Commission that is not illegal felling. This excludes felling with development approval)	9
IMPROVE	
Percentage of woodland in active management (including in the nation's forests managed by Forestry England)	10
EXPAND	
Area of woodland, and rate of new planting of woodland with support from the Rural Development Programme for England	11
Forestry England	
ORGANISATIONAL	
Cost of managing the nation's forests (per hectare)	15
ECONOMY	
Number of businesses operating in the nation's forests	16

This is an Official Statistics publication, produced to adhere to the *Code of Practice for Statistics*⁵.

All of the year-end outturns for each of the headline indicators shown in this report, and the systems in place by which these reports have been produced, have been assured by the Government Internal Audit Agency.

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Bristol, 11th August 2020

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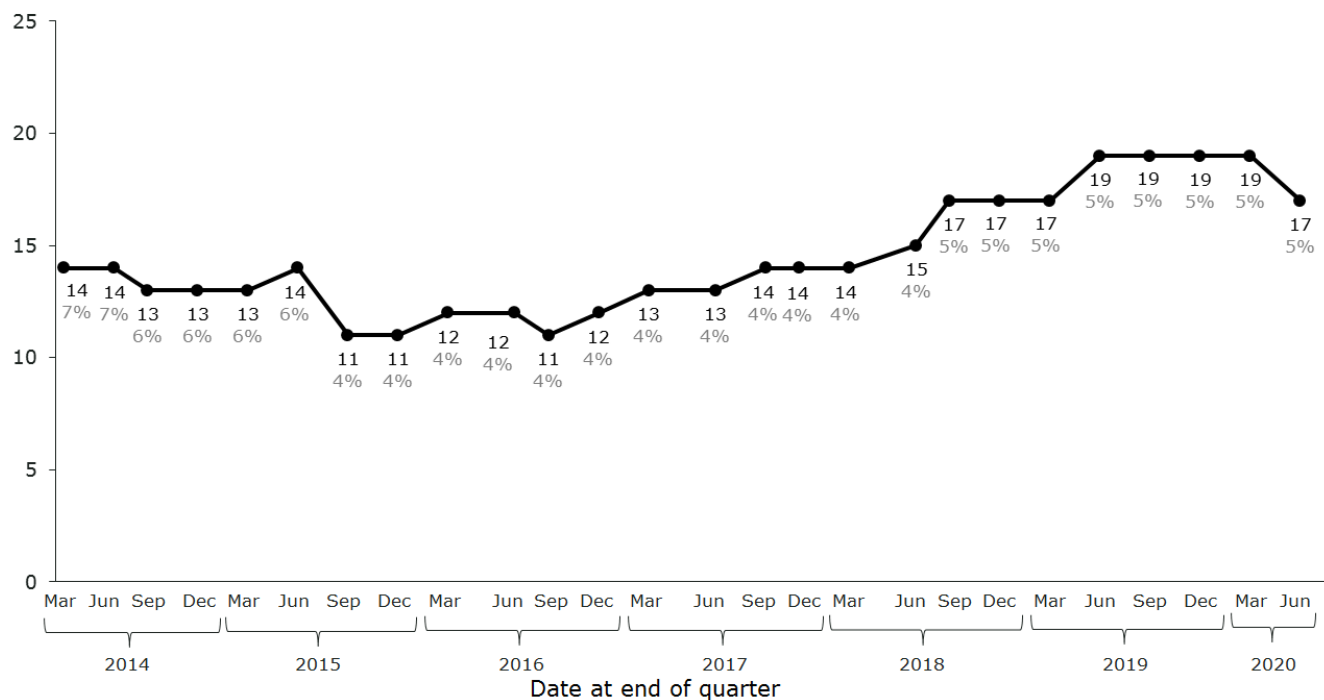
⁵ Office for Statistics Regulation and UK Statistics Authority and (2018) *Code of Practice for Statistics*, available from <https://www.statisticsauthority.gov.uk/code-of-practice/the-code/>

Forest Services

Protection

Number of high priority forest pests in the UK Plant Health Risk Register (UKPHRR)

Number of high priority forest pests



Source: [UK Plant Health Risk Register \(UKPHRR\)](#) data.

Report at end June 2020: There are now 376 pests identified as forest pests on the [UK Plant Health Risk Register \(UKPHRR\)](#), **17 (5%) of which have been assessed and are considered high priority.**

Pests are ranked as high priority if they are assessed as having a mitigated relative risk rating of 15 or more (see Table 2 and Note A below). These high priority pests require actions, in addition to current mitigation measures, to help prevent them having a potentially substantial negative impact on England's woodland.

The number of high priority forest pests in the UK Plant Health Risk Register has reduced by 2 to 17 since 30 March 2020, out of a total number of forest pests that has increased by 15 to 376 in the same period. The overall proportion of forest pests considered high priority remains at 5% (when rounded).

Of the 17 pests and diseases listed, 9 are currently present in England, with only 2 being classed as widespread; namely *Phytophthora alni* which affects all alder species in Great

Britain and *Pseudomonas syringae* pv. *aesculi*, that causes horse chestnut bleeding canker.

The red-necked longhorn beetle (*Aromia bungii*) is no longer considered a high priority pest following a reassessment of the scores for this insect. Butternut canker (*Ophiognomonia clavignenti-juglandacearum*) is no longer considered a high priority disease because the pathways for this fungus to enter the UK on walnut trees (the *Juglans* tree species) are for the time being closed.

Work continues in an effort to eradicate the newly found population of the larger eight-toothed spruce bark beetle (*Ips typographus*) in Kent. This pest does not meet the definition as 'high priority' for this indicator because its mitigated risk rating is less than 15. This is, however, a quarantine (notifiable) pest considered to be a major risk to Norway spruce trees in particular⁶.

Table 2: The 17 high priority forest pests in the UK Plant Health Risk Register with a relative risk rating (mitigated) of 15 or more at end June 2020

Pest or disease: common name	Pest or disease: Latin name	Type of pest or disease	Present in the UK?	Mitigated likelihood score	Mitigated impact rating	Mitigated likelihood multiplied by impact risk rating
Alder rust	<i>Melampsorium hiratsukanum</i>	Fungus	Present: limited	5	4	20
Bleeding canker of horse chestnut	<i>Pseudomonas syringae</i> pv. <i>aesculi</i>	Bacterium	Present: widespread	5	4	20
Shoot blight on cedar/Tip blight on eastern hemlocks	<i>Sirococcus tsugae</i>	Fungus	Present: limited	5	4	20
n/a	<i>Agrilus fleischeri</i>	Insect	Absent	4	5	20
Two-lined chestnut borer	<i>Agrilus bilineatus</i>	Insect	Absent	4	5	20
Sudden oak death; ramorum dieback	<i>Phytophthora ramorum</i>	Oomycete ⁷	Present: limited	4	4	16
Chalara ash dieback	<i>Hymenoscyphus fraxineus</i>	Fungus	Present	4	4	16

⁶ There is more information on the larger eight-toothed European spruce bark beetle (*Ips typographus*) here: <https://www.gov.uk/guidance/eight-toothed-european-spruce-bark-beetle-ips-typographus>

⁷ An oomycete is an algae-like fungus.

Table 2 continued: The 17 high priority forest pests in the UK Plant Health Risk Register with a relative risk rating (mitigated) of 15 or more at end June 2020

Pest or disease: common name	Pest or disease: Latin name	Type of pest or disease	Present in the UK?	Mitigated likelihood score	Mitigated impact rating	Mitigated likelihood multiplied by impact risk rating
Phytophthora disease of alder	<i>Phytophthora alni</i>	Oomycete ⁷	Present: widespread	4	4	16
Thousand cankers disease	<i>Geosmithia morbida</i>	Fungus	Absent	4	4	16
Walnut twig beetle	<i>Pityophthorus juglandis</i>	Insect	Absent	4	4	16
Zigzag elm sawfly	<i>Aproceros leucopoda</i>	Insect	Present: unknown distribution	5	3	15
Emerald ash borer	<i>Agrilus planipennis</i>	Insect	Absent	3	5	15
Acute oak decline	<i>n/a</i>	Other	Present: limited	3	5	15
Two spotted oak buprestid	<i>Agrilus biguttatus</i>	Insect	Present: limited	3	5	15
Sachalin fir bark beetle	<i>Polygraphus proximus</i>	Insect	Absent	3	5	15
Cypress jewel beetle or juniper buprestid	<i>Lamprodila festiva</i>	Insect	Absent	5	3	15
A leaf gall nematode	<i>Litylenchus crenatae</i>	Nematode ⁸	Absent	3	5	15

Source: UK Plant Health Risk Register (UKPHRR) data.

Unmitigated risk ratings

The number of forest pests assessed as having an unmitigated risk rating of 15 or more at the end of June 2020 is 62 (16%) of pests identified as forest pests on the UKPHRR.

⁸ A nematode is a very small elongated roundworm.

Notes

- A) **Definition, source and summary:** This indicator seeks to report trends in forest pests from the UK Plant Health Risk Register (UKPHRR) that records and rates risks to UK crops, trees, gardens and ecosystems from plant pests and pathogens. 'High priority' pests and diseases are defined for the purposes of this indicator as those with a mitigated relative risk rating (the mitigated likelihood score multiplied by the mitigated impact score) of 15 or more. The individual ratings for likelihood and impact are each on a scale from 1 to 5. Relative risk ratings therefore can have values from a minimum of 1 to a maximum of 25. Taking into account the economic, environmental and social importance of the host species, these risk scores are used to help prioritise additional actions to combat the threats posed by the pests. It should be noted that the data are for the UK. Nearly all listed forest pests present in the UK will also be present in England and listed forest pests absent from the UK are very likely to pose a threat to England.
- B) **Pests included in the scope of this indicator:** This indicator only includes pests listed on the UK Plant Health Risk Register that have been professionally assessed and where the assessment provides the information needed to identify which are forest pests, and of those which are high priority according to the indicator definition.
- C) **Likelihood** provides an assessment of the probability of entry and establishment of a pest for those pests that are absent from the UK which, when combined, can result in the introduction of the threat to a new area. Some pests on the UKPHRR are already present in the UK. In these cases the risk is that of the pest spreading to its maximum extent in the UK. The likelihood scale has a minimum value of 1 (lowest risk) through to 5 (highest risk). There is more information on the factors taken into account in the Phase 1 UK Plant Health Risk Register – Summary Guide⁹ (page 6).
- D) **Impact** is an indication of the relative consequence of the pest for the host plant or sector, should the risk materialise. It does not take account of the size or value of the host or sector. Where the pest is already present, the impact is that caused by further spread, against a baseline of damage already occurring. Thus for a pest which is already widespread, the additional impact of it spreading to its full potential distribution may be limited, even if the pest itself is very damaging or expensive to control. The impact scale has a minimum value of 1 (lowest risk) through to 5 (highest risk). There is more on the factors taken into account in the Phase 1 UK Plant Health Risk Register – Summary Guide (page 6-7).
- E) **Value at risk:** Value at risk is not taken into account in this indicator.
- F) **Mitigations:** can reduce likelihood, impact or both and the risks remaining after mitigation provide the basis for this indicator. Mitigations may reduce risk by enhancing regulation, surveillance, awareness and research, or by providing an industry scheme or a contingency plan. The difference between unmitigated and mitigated risk represents an expert judgement of the effectiveness of the current mitigations. See Phase 1 UK Plant Health Risk Register – Summary Guide (page 4) for details.
- G) **Possible relative risk ratings:** Relative risk ratings can take values from a minimum of 1 (lowest risk) through to 25 (highest risk). For the purposes of this indicator 'high priority' pests have been defined as those with a relative risk rating of 15 or more.

⁹ <https://secure.fera.defra.gov.uk/phiw/riskRegister/Summary-of-Guidance-for-phase-1-Public-Ver2.pdf>

Possible Relative Risk Ratings:

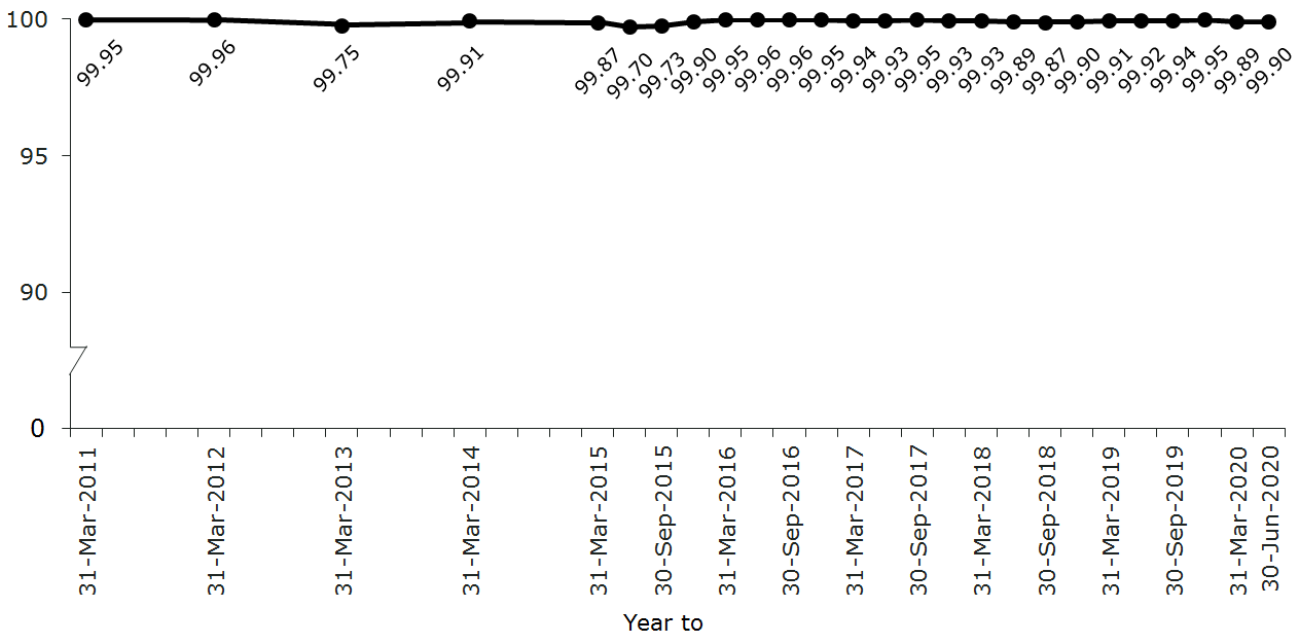
Impact	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5
		1	2	3	4	5
		Likelihood				

- H) **Other forest pests and diseases affecting English woodland.** The indicator is only based on the pests included in the UKPHRR. In so doing it effectively captures the major non-native pests threatening UK forestry together with a limited selection of native pests that are the subject of major Government campaigns of action. There are many native and non-native forest pests that are not included in the UKPHRR.
- I) **Precise end of quarter report dates are:** 9 April 2014, 2 July 2014, 19 September 2014, 31 December 2014, 30 March 2015, 23 June 2015, 24 September 2015, 29 December 2015, 30 March 2016, 7 July 2016, 30 September 2016, 30 December 2016, 30 March 2017, 4 July 2017, 2 October 2017, 27 December 2017, 31 March 2018, 2 July 2018, 30 September 2018, 31 December 2018, 31 March 2019, 1 July 2019, 1 October 2019, 31 December 2019, 31 March 2020 and 1 July 2020.

Open Data: The spreadsheets of the [UK Plant Health Risk Register \(UKPHRR\)](#).

Percentage of known tree felling that is carried out with Forestry Commission approval (i.e. the % of felling that is licensable by the Forestry Commission that is not illegal felling. This excludes felling with development approval)

Percentage of known tree felling approved



Source: Forestry Commission administrative data.

Report for year to 30 June 2020: **99.90% of known tree felling was carried out with Forestry Commission approval.**

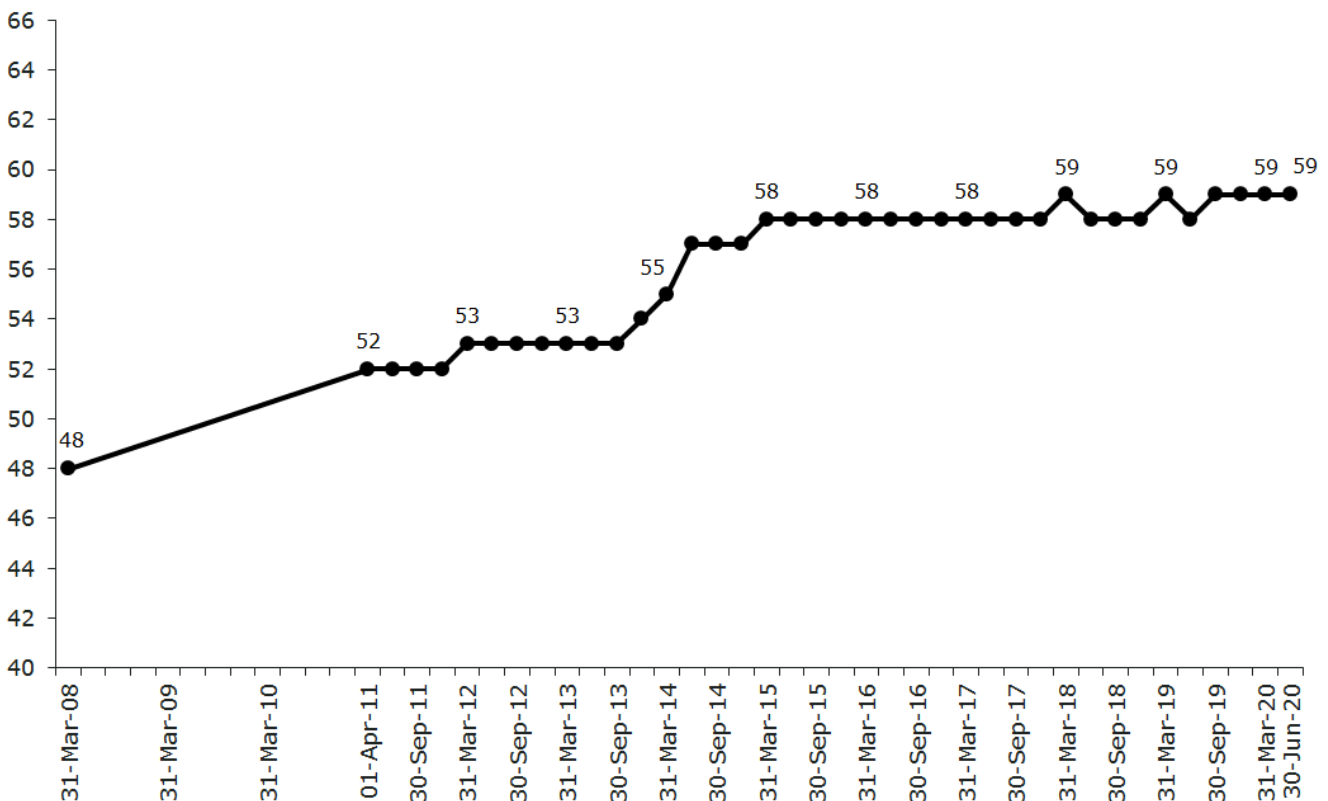
The overall figure of legal felling remains at a consistently very high level.

Open Data: Locations of approved felling licence applications in England are available from the [Forestry Commission Open Data site](#).

Improvement

Percentage of woodland in active management (including in the nation's forests managed by Forestry England)

Percentage of woodland in active management



Source: Forestry Commission administrative data and the [National Forest Inventory](#).

Position at 30 June 2020 is that **59 out of every 100 hectares of English woodland are actively managed, totalling 767,000 hectares of woodland in management** (at this date, when rounded).

The percentage of woodland that is actively managed is 59%. Evidence suggests markets remained relatively strong despite reduced production of sawn timber and panel boards due to the coronavirus restrictions this year causing disruption to supply chains.

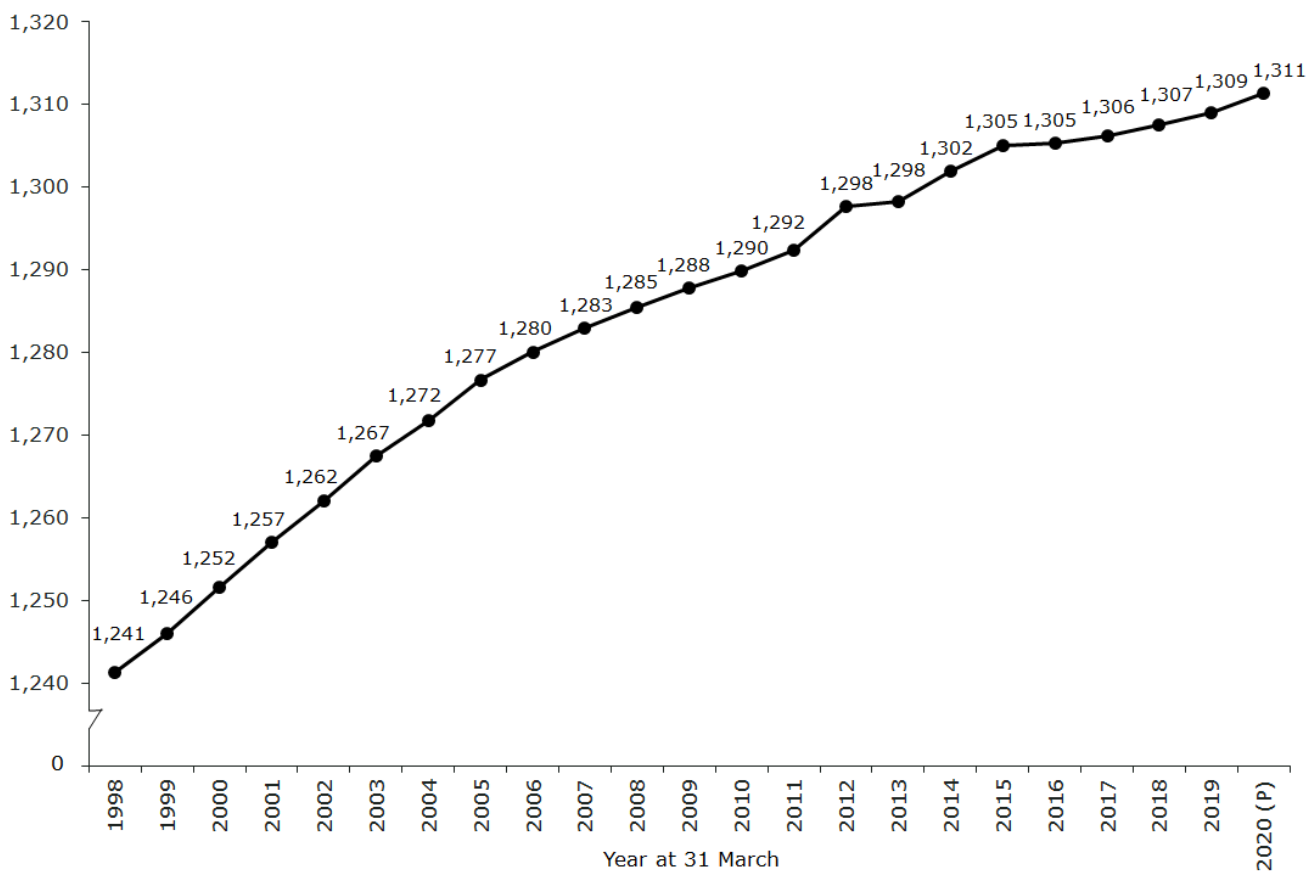
Open Data: Locations of 'managed woodland' in England are available from the [Forestry Commission Open Data site](#).

Expansion

Area of woodland, and rate of new planting of woodland with support from the Rural Development Programme for England

A. Area of woodland in England headline indicator (updated annually)

Area of woodland (thousands of hectares)



Source: *Provisional Woodland Statistics: 2020 Edition* (Forest Research).

Note: Figures are based on data obtained from the National Forest Inventory (NFI) and adjusted for new planting, but at present no adjustment is made for woodland recently converted to another land use. Figures at 2018 and 2019 have been revised from those provided in *Forestry Statistics 2019* to take account of updates to the NFI woodland area map.

Provisional figure at 31 March 2020: **1,311 thousand hectares (ha) of woodland in England** that equates to 10.05% of the area of England. This is an increase of 2 thousand hectares over the position a year before.

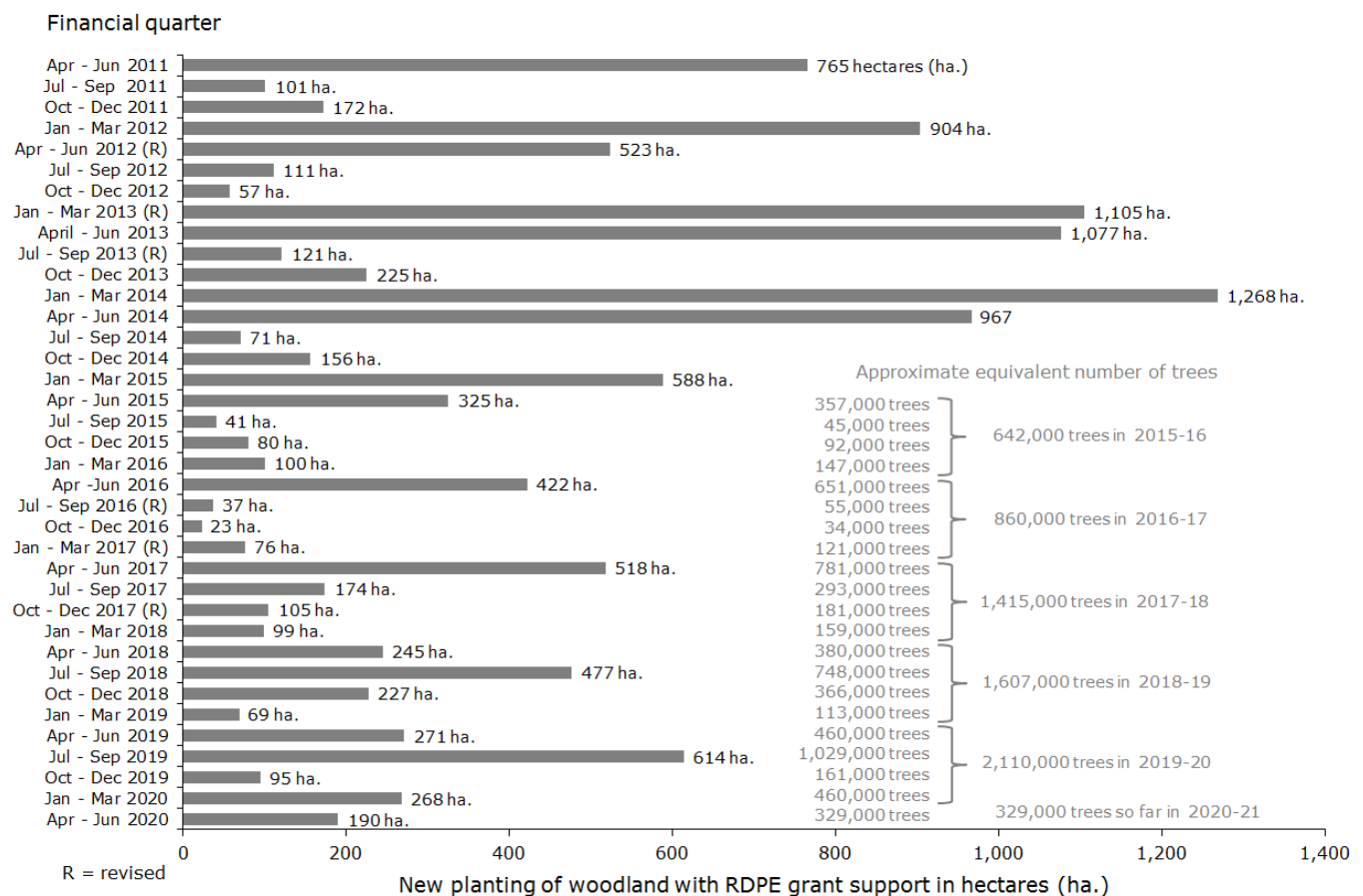
This indicator includes all woodland in England and is reported on an annual basis. This provisional figure is the most up-to-date information available. Confirmation or revision of the 2020 figure is scheduled to be published in *Forestry Statistics 2020* (Forest Research) on 24 September 2020.

Over the last 10 years the area of woodland has increased by an average of 2.1 thousand ha per year. Over the 20 year period from 1999 to 2019 the area of woodland has increased from 9.59% to 10.05% of the area of England.

B. New planting of woodland created with support from the Rural Development Programme for England (updated quarterly)

The statistics in this section report on area of new planting of woodland in England supported by the Countryside Stewardship (CS) Woodland Creation Grant (WCG) incentives, that are a part of the Rural Development Programme for England (RDPE). They are based on the area (in hectares) of grant claims for payment, that have been both a) submitted by or on behalf of the woodland owner, and b) sent for payment in each quarter. Due to most new planting of trees taking place in the winter and the timing of paying the claims, a seasonal trend has been observed in the statistics with more payments made and counted a few months after the winter planting season (as can be seen in the bar chart below). We generally expect greater levels of new planting to be reported for the April to June, and July to September quarters.

i) New planting of woodland with RDPE grant support by quarter (hectares)



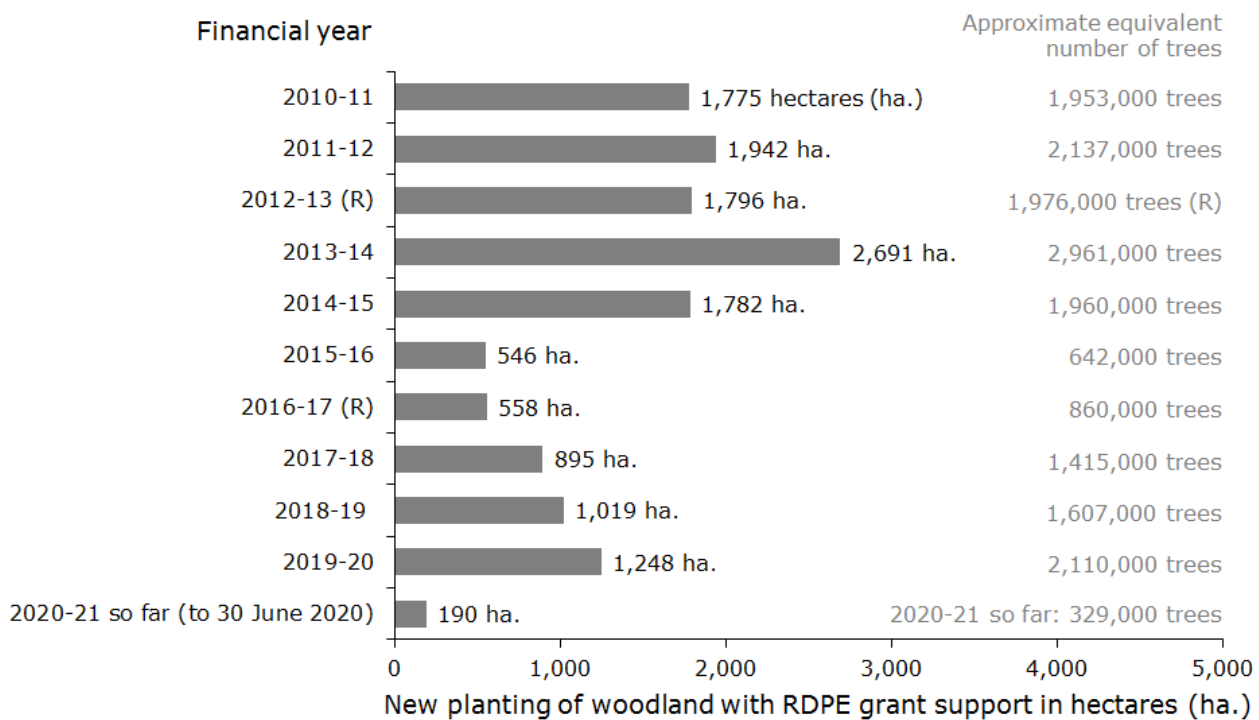
Source: Based on Forestry Commission administrative data. Figures may not sum to annual totals due to rounding.

New planting of woodland created with RDPE grant support April to June 2020 inclusive: **190 hectares (ha).**

The amount of recorded woodland creation supported by the Rural Development Programme for England in the first quarter of 2020-21 is 30% less than that in the first quarter of 2019-20. It is also less than that in the equivalent quarters of the previous

five years. Decisions by land owners on when to newly plant trees on their land are influenced by a wide range of factors. In addition, the coronavirus restrictions this year could have affected the recorded area of new planting of woodland.

ii) New planting of woodland with RDPE grant support by financial year (hectares)



Source: Based on Forestry Commission administrative data.

C. Government supported new planting

Statistics on new planting with RDPE grant support - as shown in sections B i) and B ii) above) - plus the nine other forms of central government support counted, are reported separately in the Forestry Commission's *Government supported new planting of trees in England* statistical series. The latest report available is the Report for the 2019-20 year. Publication of the next update, an interim one, for new planting in the first half 2020-21 year (where data are available at the mid-year point) is expected to be published on the Forestry Commission key performance indicators webpage on the GOV.UK web site in November 2020.

D. Total new planting of woodland in England

The most recent statistics giving the total new planting of woodland in England in 2019-20 (and previous years), including that with, and without, central Government support, were published in Provisional Woodland Statistics: 2020 Edition (and Forestry Statistics 2019). The next report will be in Forestry Statistics 2020 scheduled for publication on 24 September 2020 when the provisional new planting statistics for 2019-20 are due to be revised or confirmed.

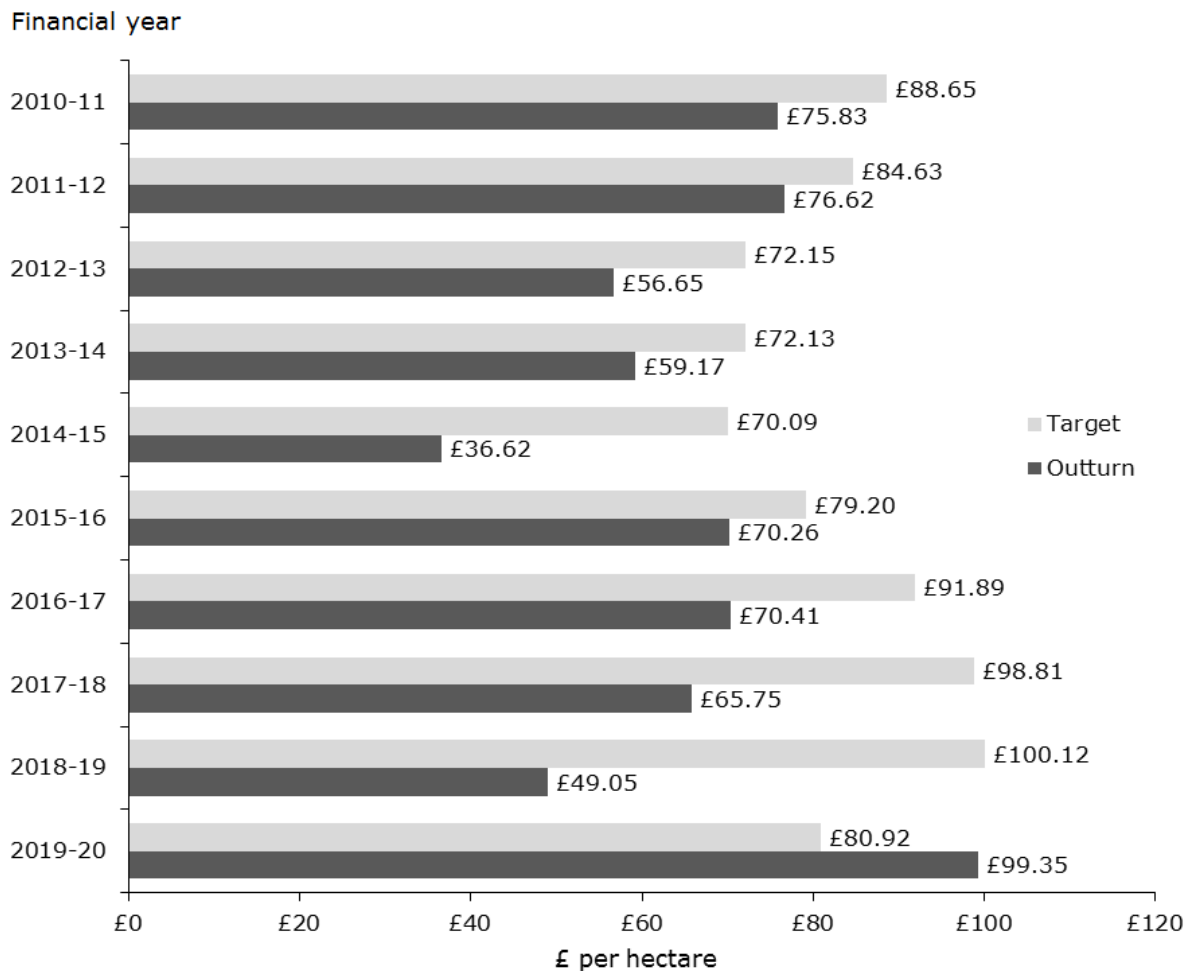
E. Measuring increases in new planting of woodland in England

Government has committed to increase tree planting across the UK to 30,000 hectares per year by 2025, to work towards net zero greenhouse gas emissions by 2050 and protect and restore the environment. Hectares of land use change is the industry-accepted measure for woodland creation, as used by forestry investors, land managers applying for grant funding, NGOs creating woodland for biodiversity or recreation, and government organisations administering grants or regulating land use. We are therefore measuring delivery of this target in hectares rather than individual tree numbers.

Forestry England

Organisational

Cost of managing the nation's forests (per hectare)



Source: Forestry England accounts.

Reports for this indicator are published as at 31 March and 30 September each year. The most recent report as at 31 March 2019 is as follows.

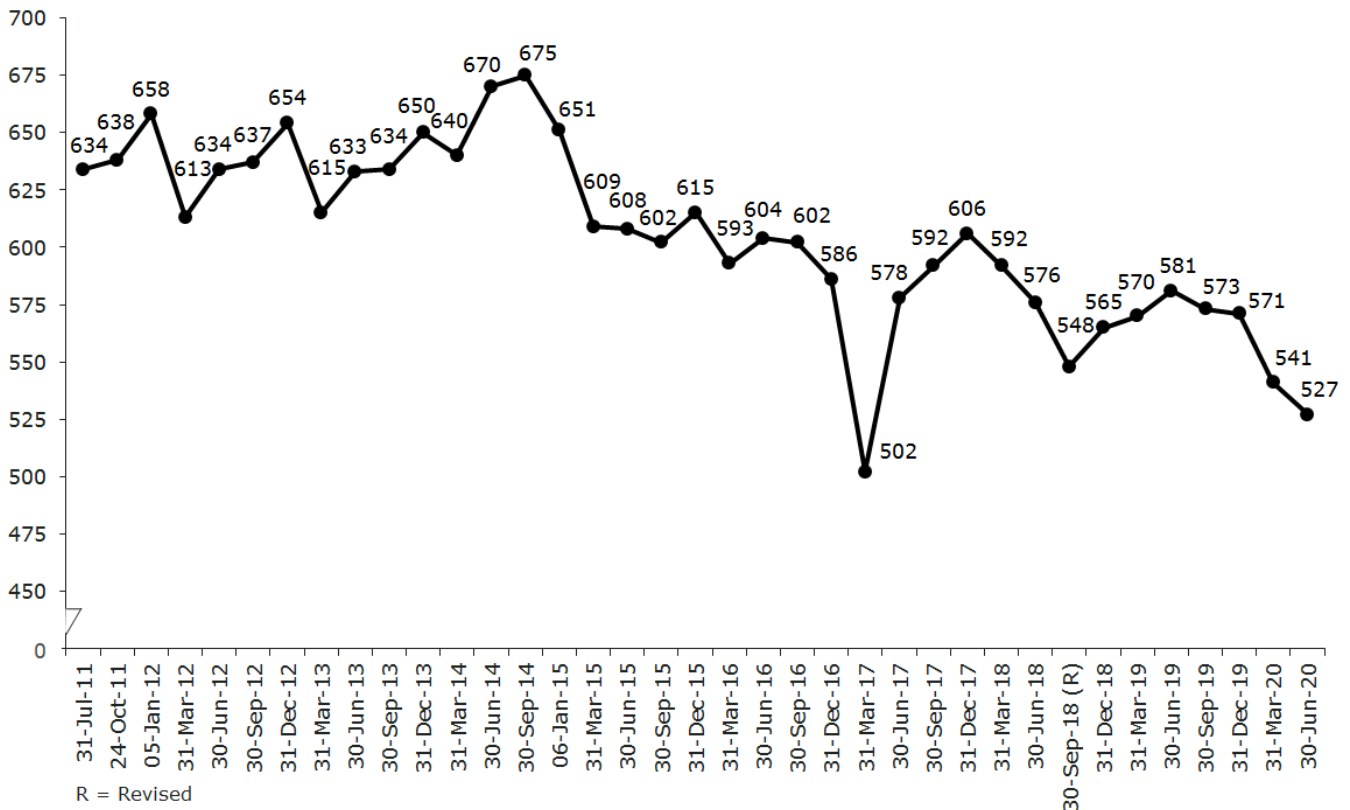
The outturn for 2019-20 financial year is **£99.35 per hectare**, subject to audit and finalization, against a target of £80.92 per hectare.

This additional net cost is largely explained by cancellation of the 2020 Forest Live music concerts due to coronavirus, plus technical accounting adjustments.

Economy

Number of businesses operating in the nation's forests managed by Forestry England

Number of businesses and individuals



Source: Forestry England administrative data.

Position at 30 June 2020: **527 businesses and individuals.**

The figures show a net decrease of 14 businesses or individual agreements since the last quarter.

This change is primarily as a result of agricultural agreements that have ended since the last quarter and are in the process of renegotiation prior to being re-let. One business closed for a time during the recent coronavirus restrictions has decided not to reopen.