



Edible Horticulture Skills 2020

Sub-Sector Report: Field Vegetables

A report for the Agriculture and Horticulture Development Board

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A report prepared by:

Pye Tait Consulting

Registered in England, Company No: 04001365, VAT No: 755 8312 14

Registered office: Royal House, 110 Station Parade, Harrogate, North Yorkshire, HG1 1EP

Tel: 01423 509433

Email (enquiries related to this report): m.pye@pyetait.com

Email (general enquiries): info@pyetait.com

Website: www.pyetait.com

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1. Introduction

The research presented in this dedicated sub-sector report is based on the responses of Field Vegetable businesses during the course of the Edible Horticulture Skills Survey 2020.

The skills survey was based on the following research objectives and this mini-report has been so structured:

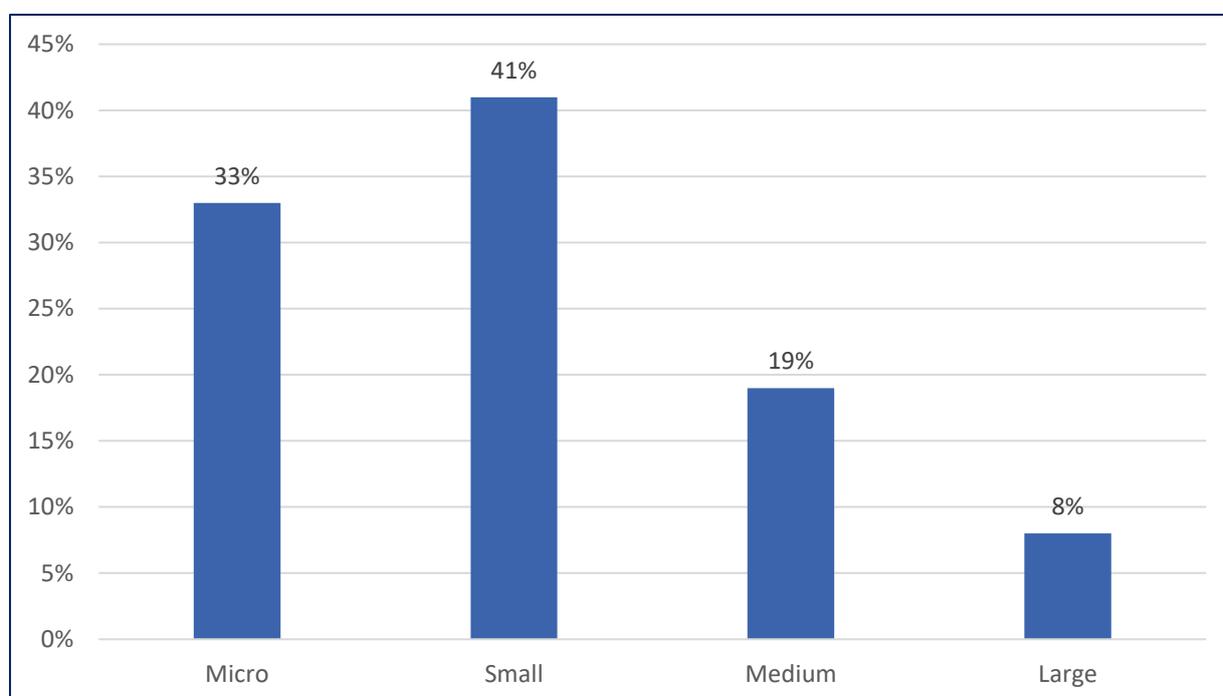
1. Estimate current and anticipated future UK workforce numbers in the UK Edible horticulture sector, including additional and replacement demand
2. Understand the drivers of change affecting Edible Horticulture (including opportunities and constraints to growth) and how these are influencing employers' skills needs
3. Establish the profile of the Edible Horticulture workforce, including demographic information, ethnicity, qualifications attainment and working patterns
4. Quantify the prevalence of skills shortage and recruitment difficulties at all levels (including hard-to-fill vacancies) and reasons why these are being experienced
5. Quantify current skill levels and the future importance of those skills (using a skills-scoring approach), to determine future critical skills gaps and priority training needs
6. Identify the organisations that employers are using to provide training and highlight any gaps in training provision that can be identified by employers
7. Explore attitude, approaches and barriers to training.

1.1 Response profile

Of the 556 businesses completing the main Edible Horticulture skills survey, 194 companies work primarily in the Field Vegetables sector (growing carrots, onions, brassicas, leafy salads, baby-leaf, herbs, asparagus, sweetcorn, watercress and cucurbits). Of these, 31 firms (16%) undertake packhouse activities as a secondary activity. These 194 companies employ a total of 11,778 staff; this equates to an average of 61 staff per business.

Of these 194 companies,¹ most (74%) are micro and small businesses, which is not unexpected given the overall Edible Horticulture (EH) report shows that approximately 68% of business are micro (0-9 employees) or small (10-49 employees). A minority (19%) are medium-sized businesses (50-249 employees) and a handful (8%) are large businesses (250+ employees).

Figure 1: Business size (large defined as 250+ employees)

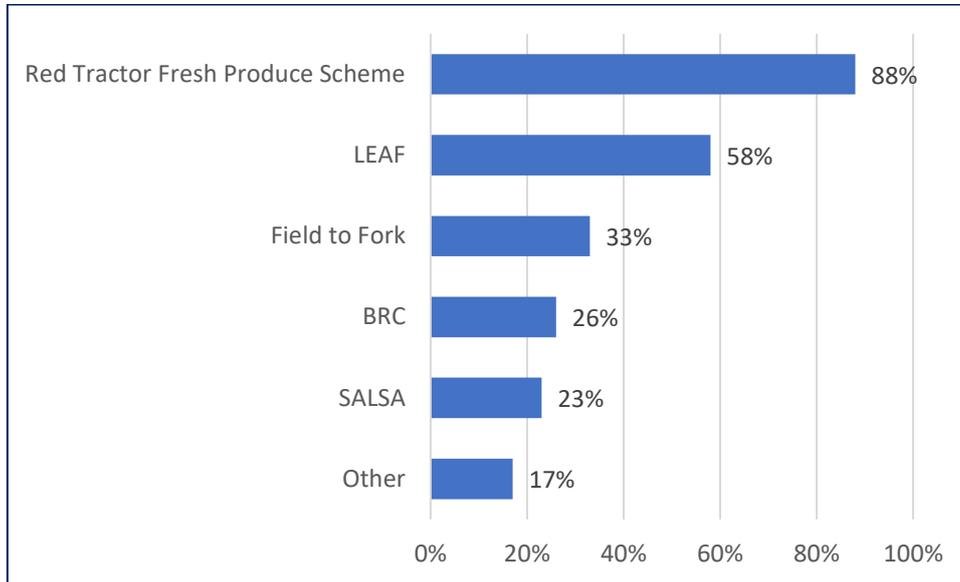


Base: 193 respondents, single choice question. Source: Pye Tait Consulting 2020.

Businesses tend to be affiliated to at least one, and sometimes more than one, accreditation scheme. The most popular schemes are the Red Tractor Fresh Produce Scheme and LEAF.

¹ It should be noted that not all businesses were able to answer each question or each in question in full detail. The base numbers for the survey responses and respondents may therefore vary from question to question.

Figure 2: Affiliation to accreditation schemes



Base: 352 responses. Source: Pye Tait Consulting 2020.

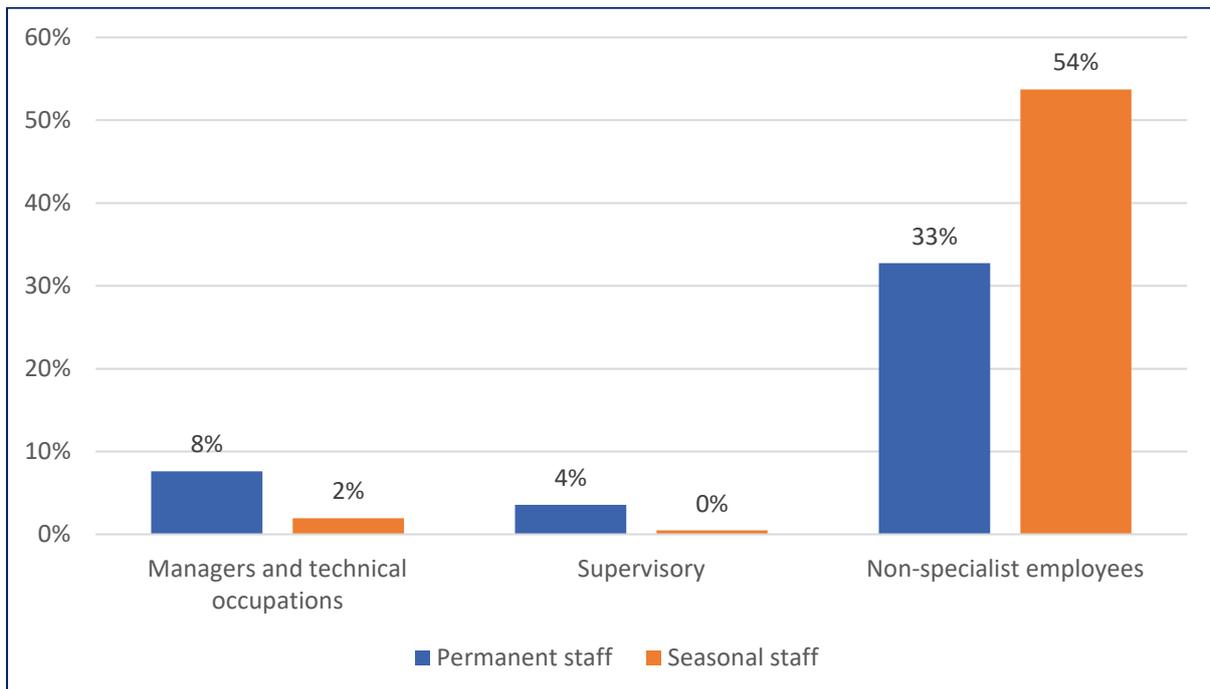
2. Workforce

2.1 Workforce overview

Non-specialist employees are workers that may not have a technical occupation, but still have skills in food production and hold certified competences such as forklift driving or spraying.

Most managerial/technical occupations and supervisory positions are held by permanent staff.

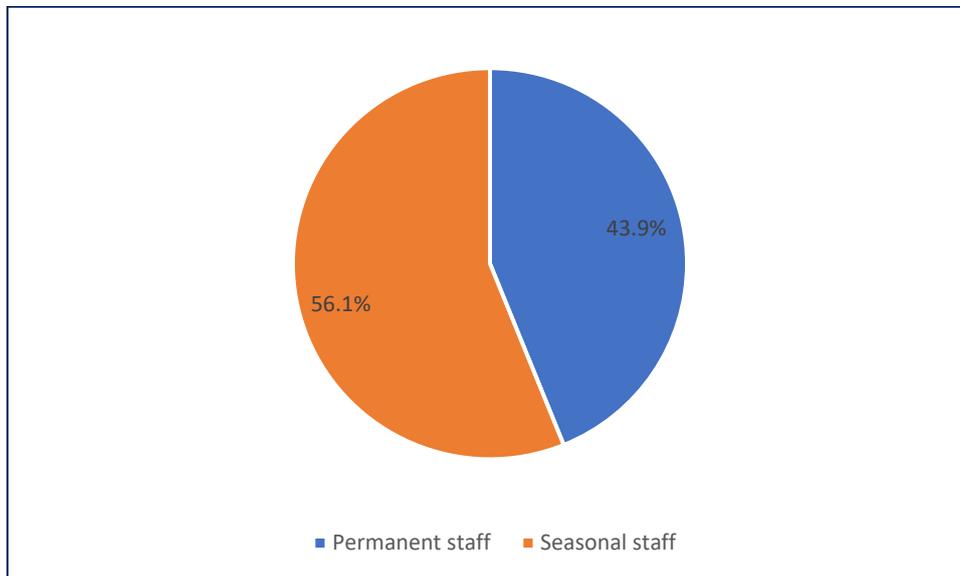
Figure 3: Working modes



Base: 194 respondents. Source: Pye Tait Consulting 2020.

Of seasonal workers, around 36% are typically returning staff, rather than new recruits.

Figure 4: Proportion of permanent and seasonal staff



Base: 194 respondents. Source: Pye Tait Consulting 2020.

2.2 Workforce residency, ethnicity, gender, age

Residency

Of the sub-sector's permanent employees, 49% are UK citizens, 51% are EU citizens (non-UK) and 0.1% are non-EU citizens.

Ethnicity

In terms of ethnic origin, the workforce is predominantly of other white (62%) backgrounds, of British origin (35%), or of other ethnic origins (3%). These figures include seasonal workers. Of those from outside the UK, most are from Romania (30%), Bulgaria (29%) and Poland (21%).

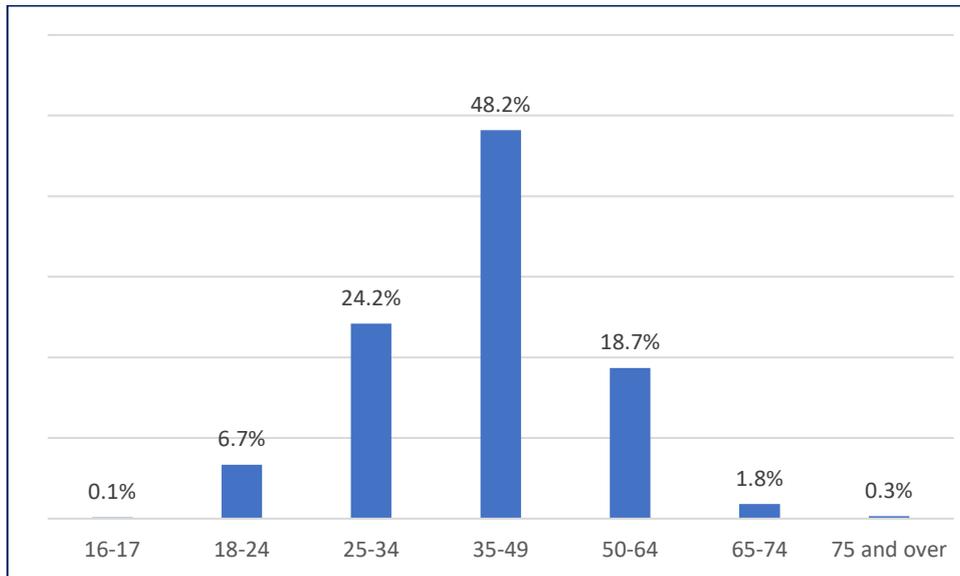
Gender

The sector's permanent workforce is 66% male and 34% female.

Age

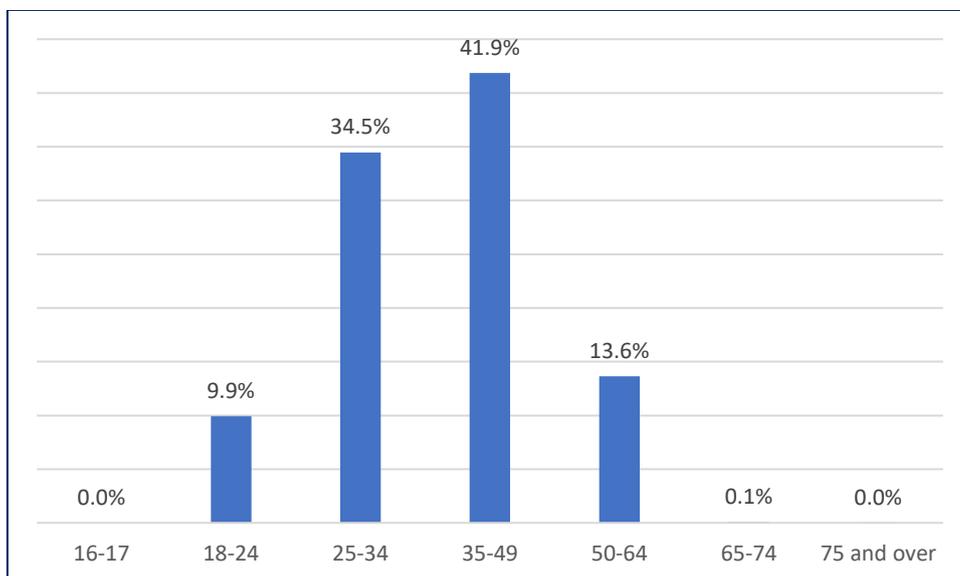
The figure below shows the workforce age profile of permanent and seasonal workers in the sector. The average age of permanent staff is 40.9, and the average age of seasonal staff is 37.7, compared to the UK national average of 41.5 years.

Figure 5: Workforce age profile – Permanent staff



Base: 194 respondents. Source: Pye Tait Consulting 2020.

Figure 6: Workforce age profile - Seasonal staff

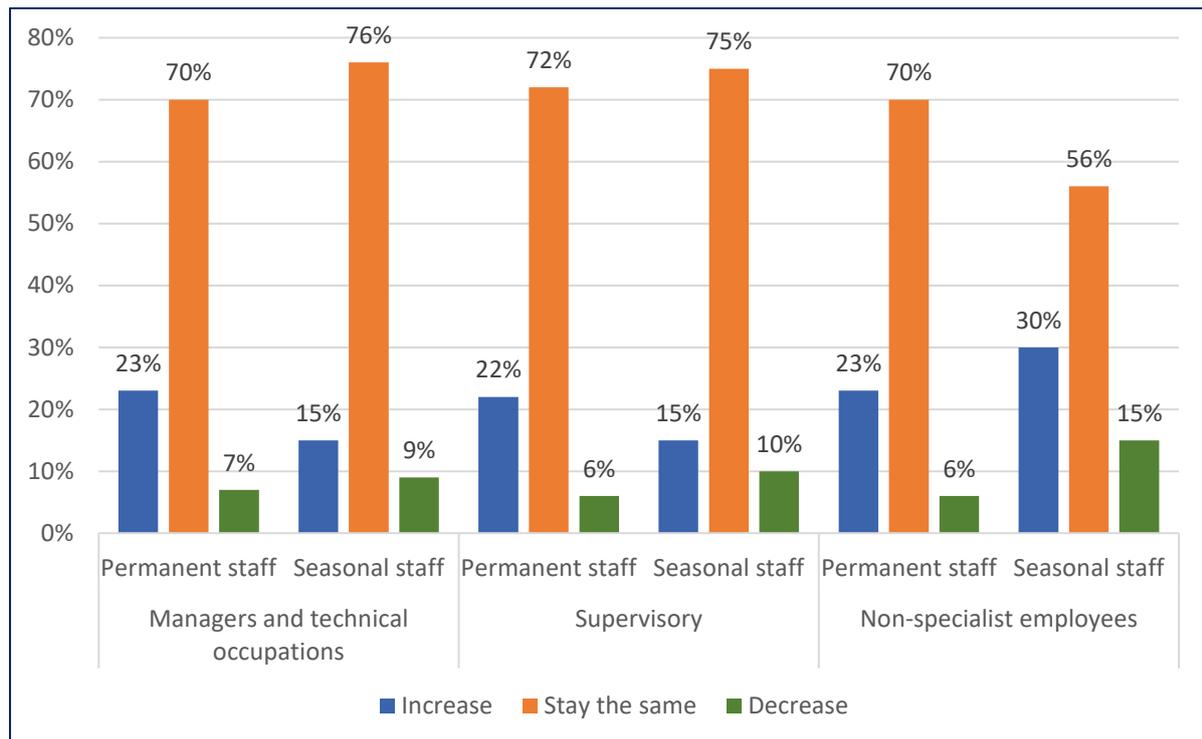


Base: 194 respondents. Source: Pye Tait Consulting 2020.

2.3 Workforce projections

In general, the majority of respondents foresee that demand for permanent and seasonal roles at all levels will stay the same. There is anticipated to be a slight increase in demand for non-specialist employees (both permanent and seasonal), and for permanent managerial/technical and supervisory roles.

Figure 7: Anticipated change in demand for roles



Base: 445 (permanent) and 245 (seasonal) responses, multiple options could be selected. Source: Pye Tait Consulting 2020.

It should be reiterated that the majority of businesses in this sub-sector are micro and small-sized. In practice, this means that the owner/manager of the business manages a small, highly skilled team. The slight leaning towards a predicted increase in staff (over a decrease) is an indication that the sector is growing or sees potential for growth.

3. Labour and skills challenge

3.1 Vacancies

Respondents were asked how many vacancies they had had over the past year. A third of businesses report an average of three managerial vacancies, while a quarter of businesses report supervisory vacancies on average per company. In addition, 64 companies (around one in three) reported vacancies for seasonal workers over the past year, with each of these companies reporting an average of 27 seasonal vacancies.

Companies were also asked if any vacancies had been particularly difficult to fill. Of the 110 companies who had experienced difficulties in recruitment, 53 noted that managerial positions were hard to fill, 29 noted that supervisory positions were difficult to fill, and 85 that seasonal worker positions had been hard to fill.

3.2 Reasons for skills gaps

Companies were asked for reasons why they perceive that skills gaps exist among their workforce. A broad range of reasons were provided, with external training being too expensive being most commonly mentioned by over one in four respondents (28%). External training not being relevant to the business, and a lack of training available locally were both also mentioned by around one in five respondents.

Figure 8: Reasons for skills gaps



Base: 137 respondents, multiple options could be selected. Source: Pye Tait Consulting 2020.

‘Other’ reasons provided included:

Recruitment issues and availability of labour, lack of work experience in the sector, low education levels of young people, low interest in working in the sector and language barriers.

3.3 Skills scoring

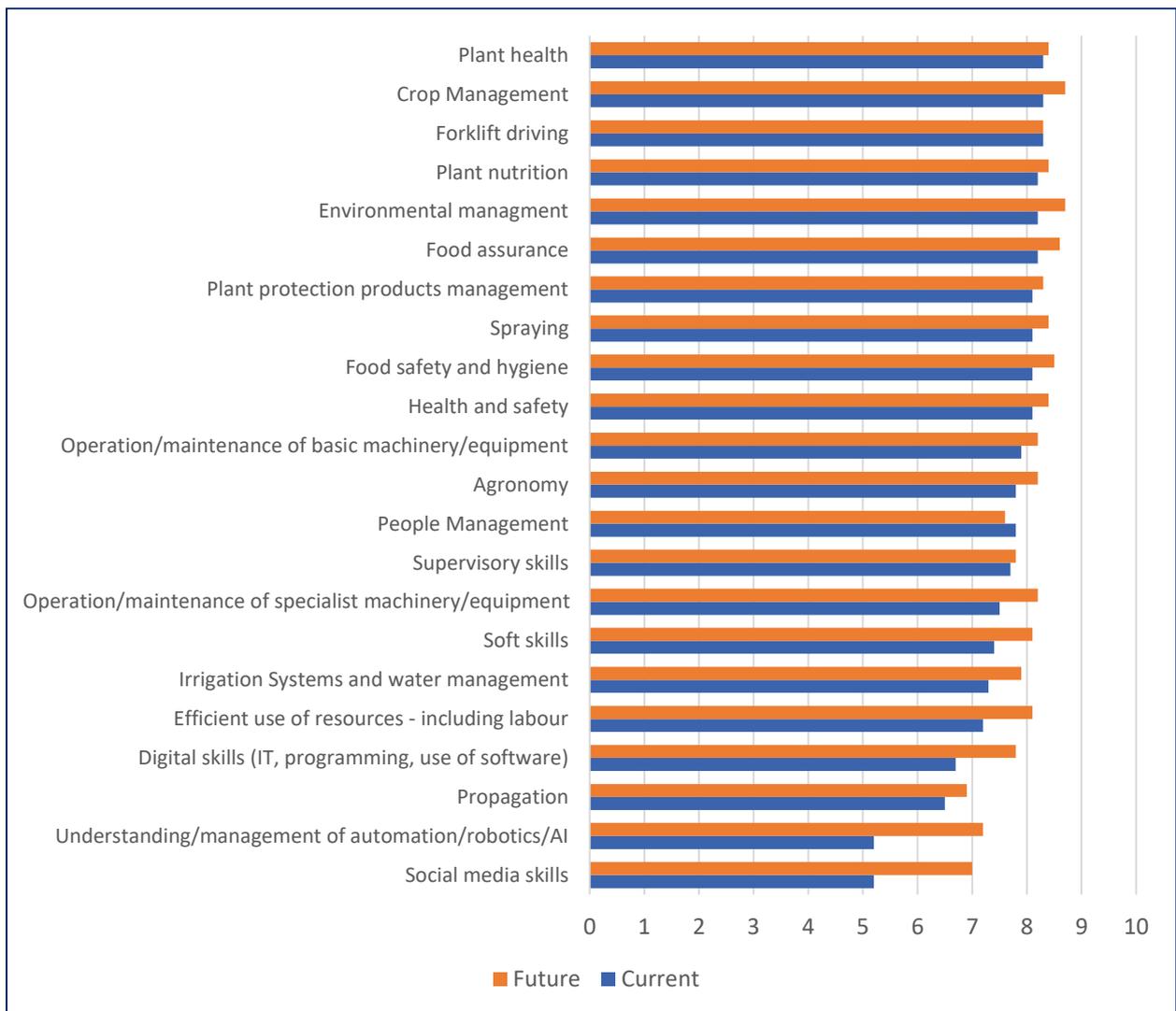
As a key component of the skills survey, respondents from all sub-sectors were asked to score the current level of skills for two job-role groups (managers, technical or specialist occupations, and seasonal and/or agency workers) on a scale from 1-10 – where one is the lowest score and ten the highest.

Respondents were also asked to assess the future need for such skills from 1-10, with 5 meaning that the importance of the skill will stay the same.

These rankings were then analysed for this report using a skills scoring method and the following figures show the results of the skills scoring exercise. Overall, each soft and technical skill is set to increase in importance, sometimes significantly.

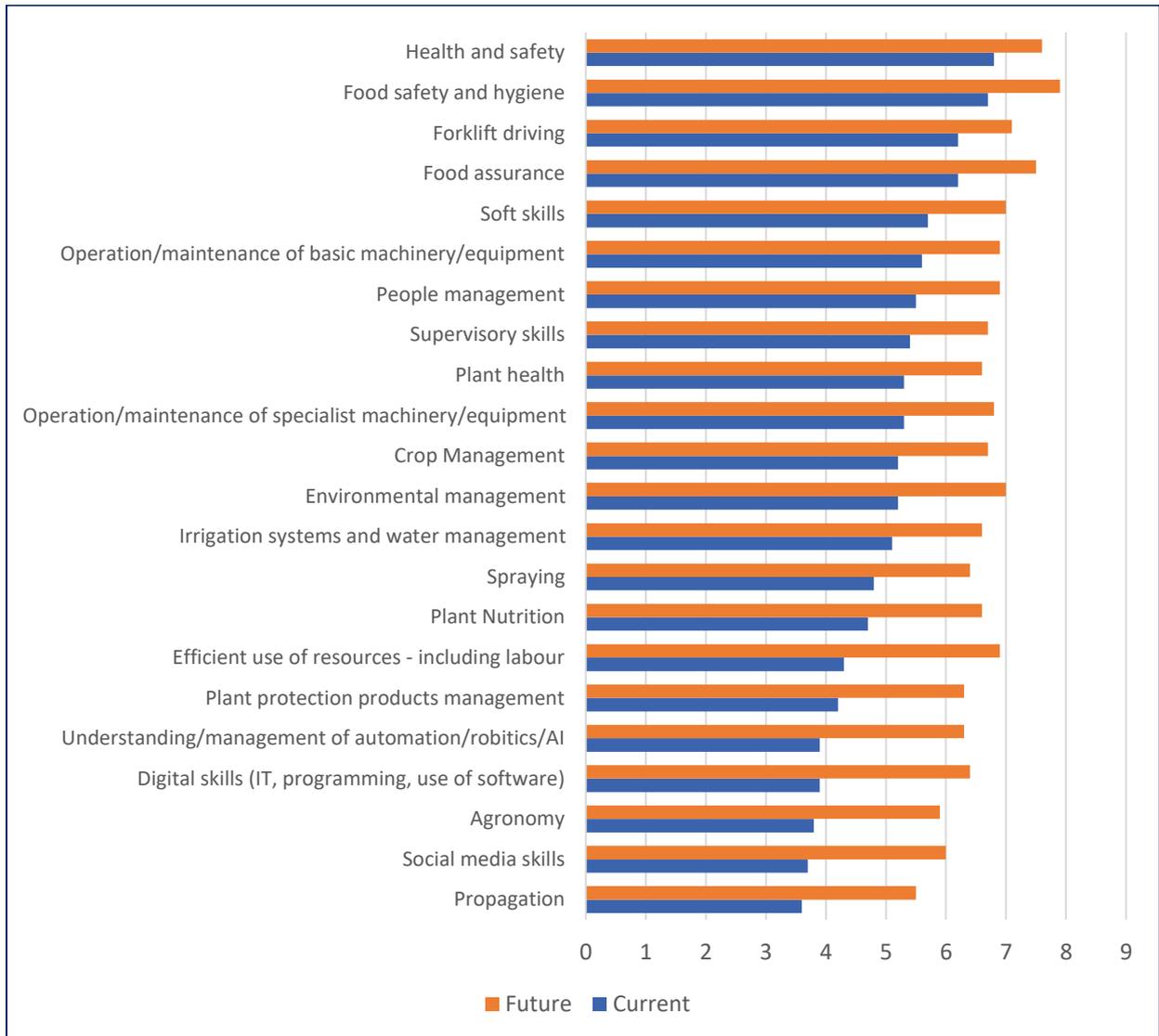
The scoring of the current importance of skills and predictions of future importance were entirely based on employers’ perceptions of both.

Figure 9: Current skill level, and predicted future importance (managerial, technical, specialist occupations)



Base: 91 to 186 respondents. Source: Pye Tait Consulting 2020.

Figure 10: Current skill level, and predicted future importance (seasonal/agency workers)



Base: 39 to 102 respondents. Source: Pye Tait Consulting 2020.

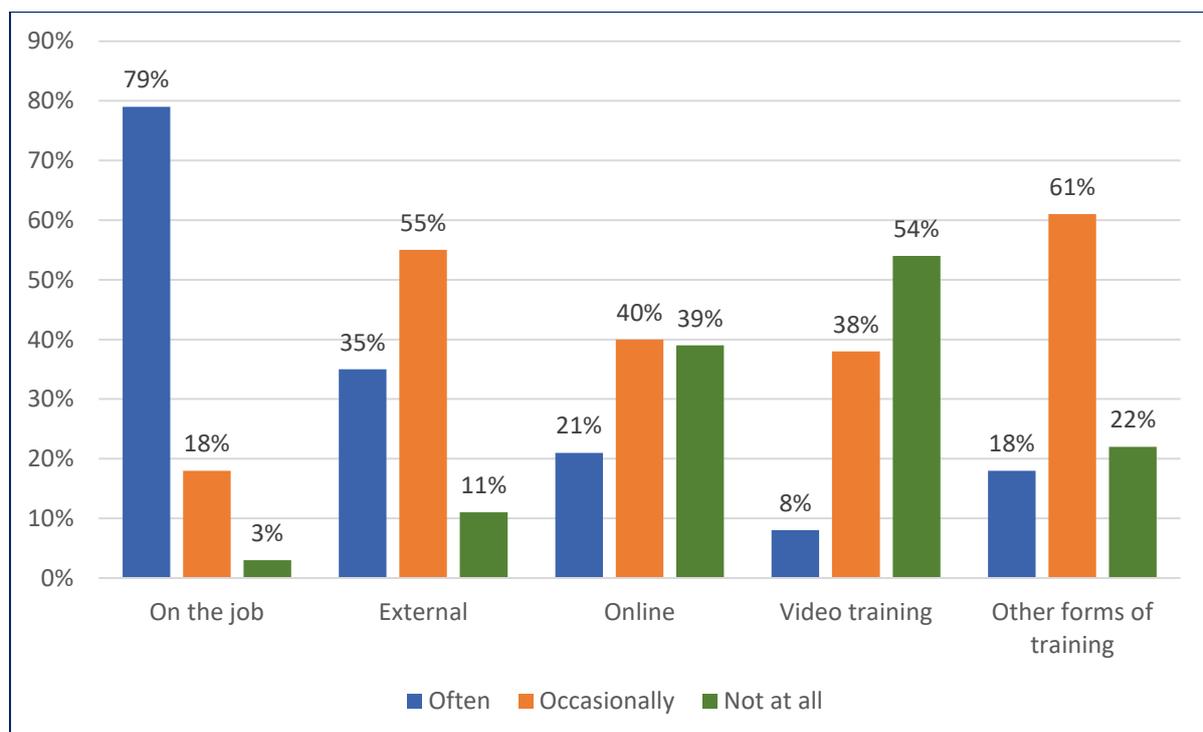
4. Workforce training, education, and staff development

4.1 Training

We asked employers what they typically do when it comes to training, both for their permanent and for their seasonal staff.

For permanent staff, in-house training (such as internal training courses, mentoring, etc.) is commonly used, with over three quarters (79%) of firms stating this method is used often. External training (at colleges or other training providers) is used often or occasionally by over three quarters of businesses. Over a third of companies state that they never use online (39%) or video training (54%) for permanent staff.

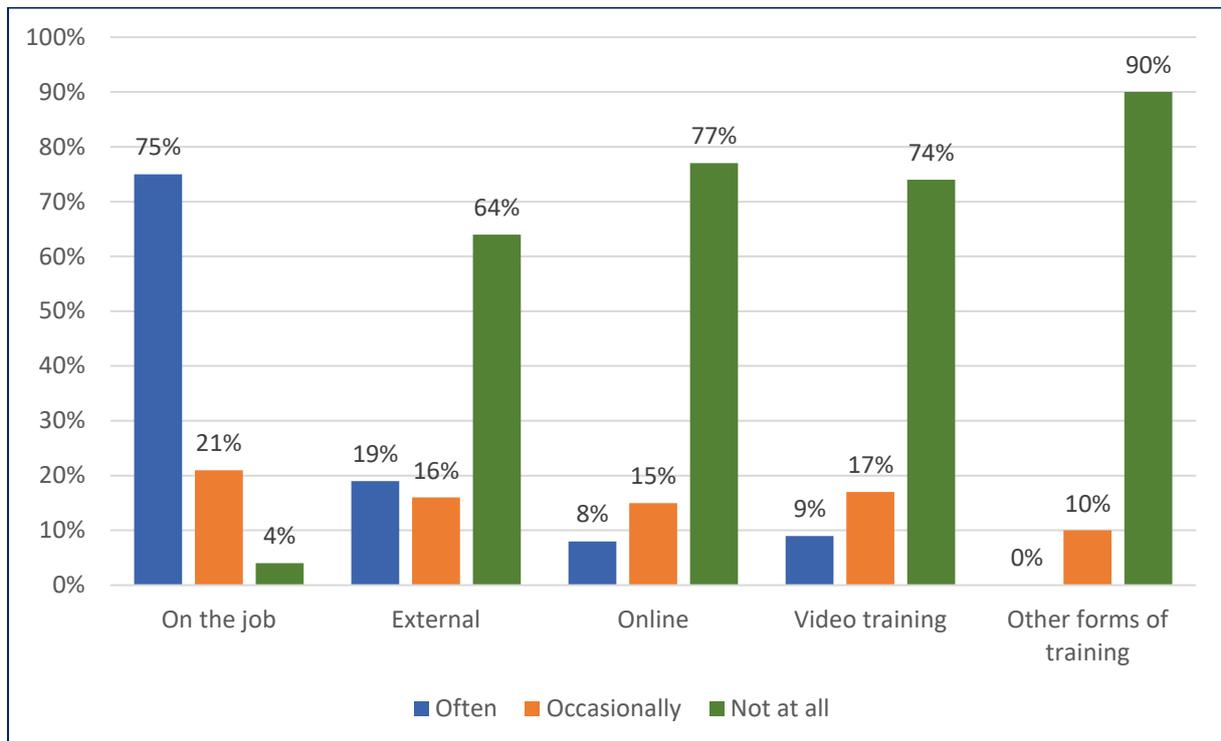
Figure 11: Types of training undertaken (permanent staff)



Base: 97 to 189 respondents. Source: Pye Tait Consulting 2020.

For seasonal staff, almost all responding companies use in-house training with the majority (75%) stating they use this often. Alternative forms of training are much less commonly used, with around two thirds of companies stating they never use external training, online, or video training for seasonal staff.

Figure 12: Types of training undertaken (seasonal staff)



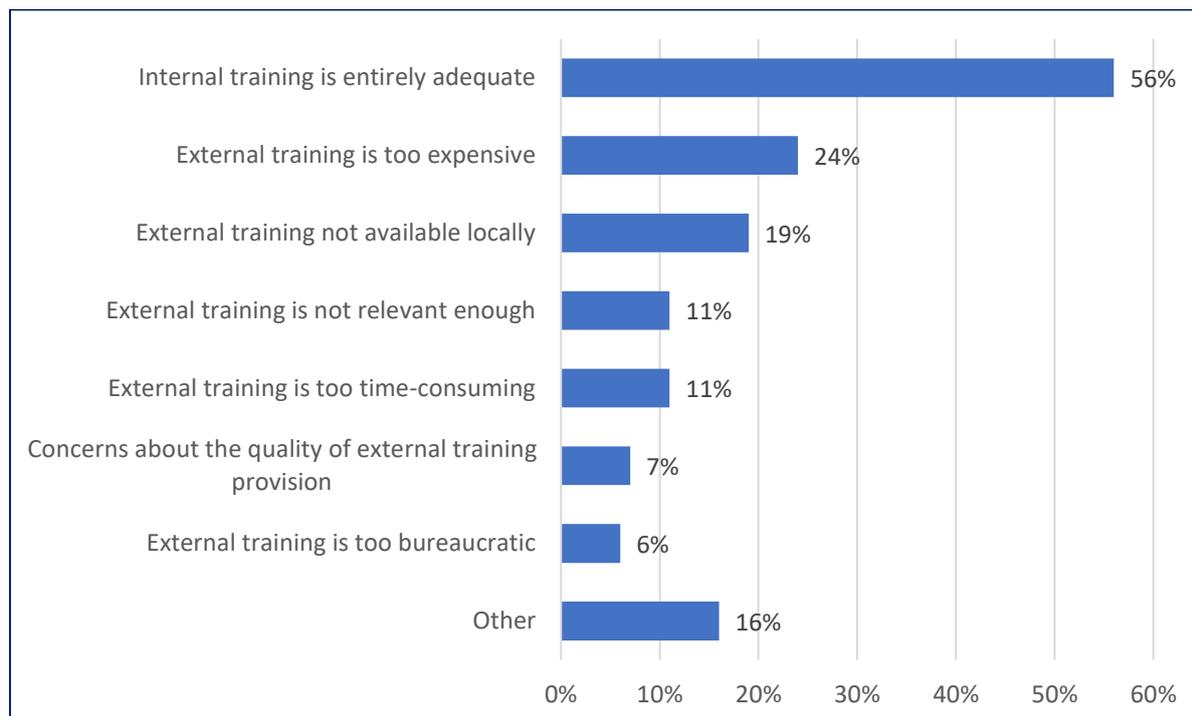
Base: 59 to 147 respondents. Source: Pye Tait Consulting 2020.

Around a third of employers (32%) in the sector told us that some of their staff are qualified as trainers, while only a minority told us that some staff are qualified either as verifiers (9%) or assessors (7%). Of these organisations with such staff, there are on average 2.7 trainers, 1.8 verifiers, or 1.6 assessors per company.

Businesses were asked their reasons for choosing not to use any external training available to them. Over half of responding firms comment that their own internal training is entirely adequate (56%), while around a quarter perceive external training to be too costly (24%) or note that it is not available locally (19%).

In instances where businesses do use external training providers to upskill their workforces, these employers were asked whether they or their employees access funding to help pay for this training. The majority (64%) 'never' access such funding, while 23% do so 'sometimes'; 10% are unsure, while 4% 'always' access funding.

Figure 13: Reasons for not using external training



Base: 145 respondents, multiple options could be selected. Source: Pye Tait Consulting 2020.

4.2 Apprentices

Apprentices and trainees constitute a small part of the workforce. Just over a third of companies (37%) report having apprentices or trainees, with none employing more than five. Overall, apprentices/trainees represent 0.5% of the total employment in the Field Vegetables sub-sector.

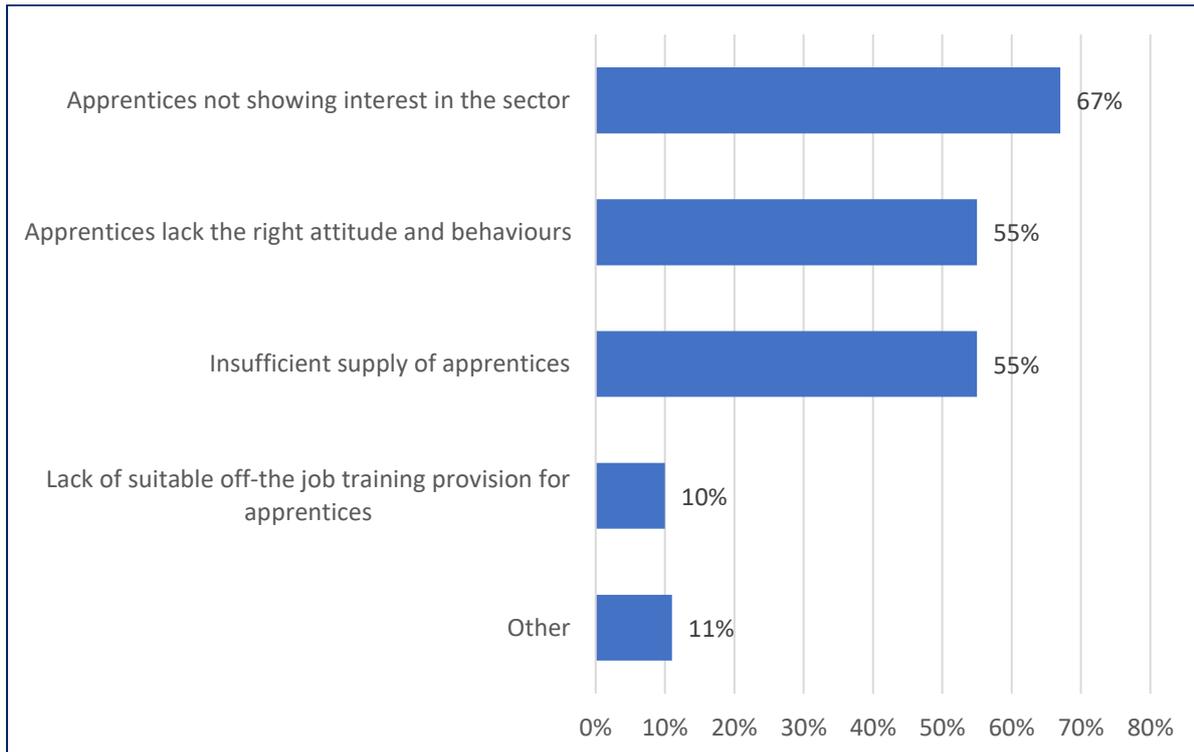
Companies were asked about the number of apprentices they had taken on, and expected to take on, each year in the period 2018-2022. Around a fifth of companies told us they would take on apprentices in any given year, with each of these companies taking on average of between 0.9 and 1.8 apprentices each year.

Table 1: Apprenticeship starts per year

	No. of responding companies	Total apprentices	Average
2018	34	35	1.0
2019	38	68	1.8
2020	37	46	1.2
2021	35	33	0.9
2022	33	35	1.1

Given the number of apprenticeship starts per company in the sector, it is worth assessing relevant barriers for employers in recruiting apprentices. The most common barrier mentioned by two thirds of respondents (67%) is that apprentices are not showing an interest in the sector. Over half of companies note that there is an insufficient supply of apprentices, or that apprentices lack the right attitude and behaviours (both 55%).

Figure 14: Barriers to recruiting apprentices



Base: 88 respondents, multiple options could be selected. Source: Pye Tait Consulting 2020.

4.3 Apprenticeship levy

The apprenticeship levy was introduced in 2016 and came into law in April 2017. The apprenticeship levy obliges employers with a payroll over £3 million each year to pay a set proportion into a government fund specifically designed to pay for apprenticeships. Levy-payers are then entitled to receive funds paid into the levy in order to fund apprenticeship training at their company.

The majority of companies in this sector (93%) do not pay the apprenticeship levy. Of the small number of companies which told us that they do pay the levy, there is an even split between those who believe it has a positive or a negative impact (both 23%); most are unsure of the levy's impact (54%).

4.4 T Levels

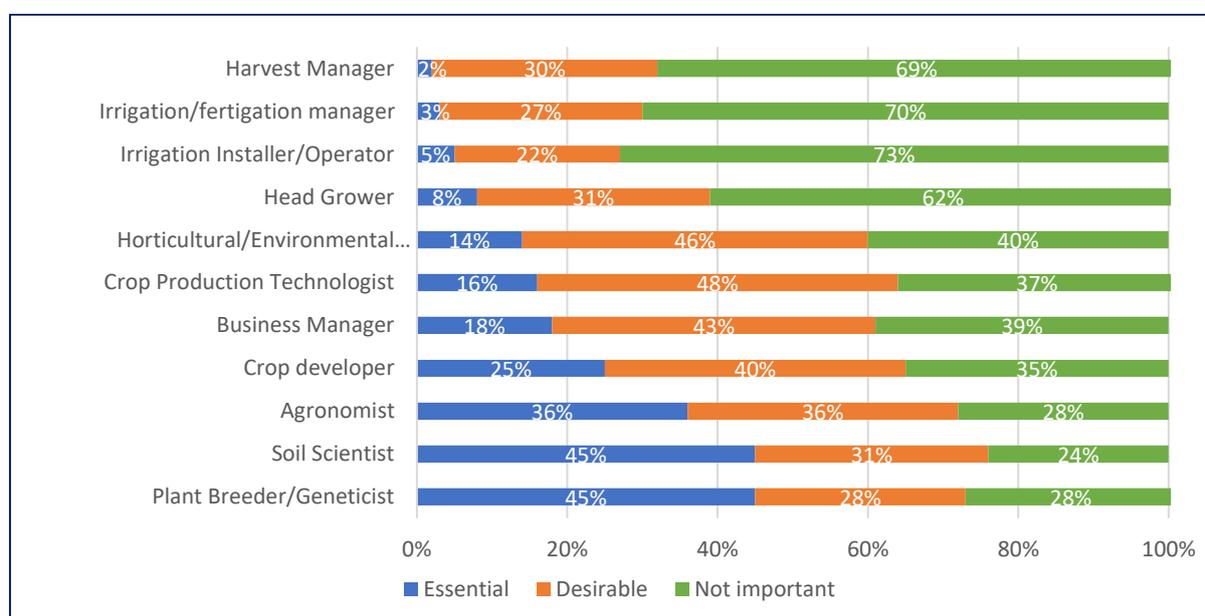
T Levels are new qualifications which are being introduced from September 2020. These are technical courses intended to be equivalent academic A level qualifications. T Levels are two-year courses which will offer students a mix of classroom learning and on-the-job training during an industry placement of 45 days. The first three T Levels will be available in September 2020 in construction, digital, and education, with seven more courses beginning the following year. A T Level in agriculture, land management and production is set to start in September 2023.

The vast majority of companies in the sector (95%) are unaware of this T Level qualification which is to be introduced by the Department for Education in 2023.

4.5 Qualification requirements

Businesses were also asked their thoughts on whether they consider a degree level qualification (level 6 or higher) is necessary for various occupational areas. Just under half of responding companies believe that it is 'essential' for plant breeders/geneticists and soil scientists to be qualified this level (both 45%). Over half of businesses believe it is 'not important' for harvest managers (69%), irrigation installers/operators (73%), irrigation/fertigation managers (70%), or head growers (62%) to be qualified to degree level.

Figure 15: Need for degree level qualification by occupational area



Base: 154 to 182 respondents. Source: Pye Tait Consulting 2020.

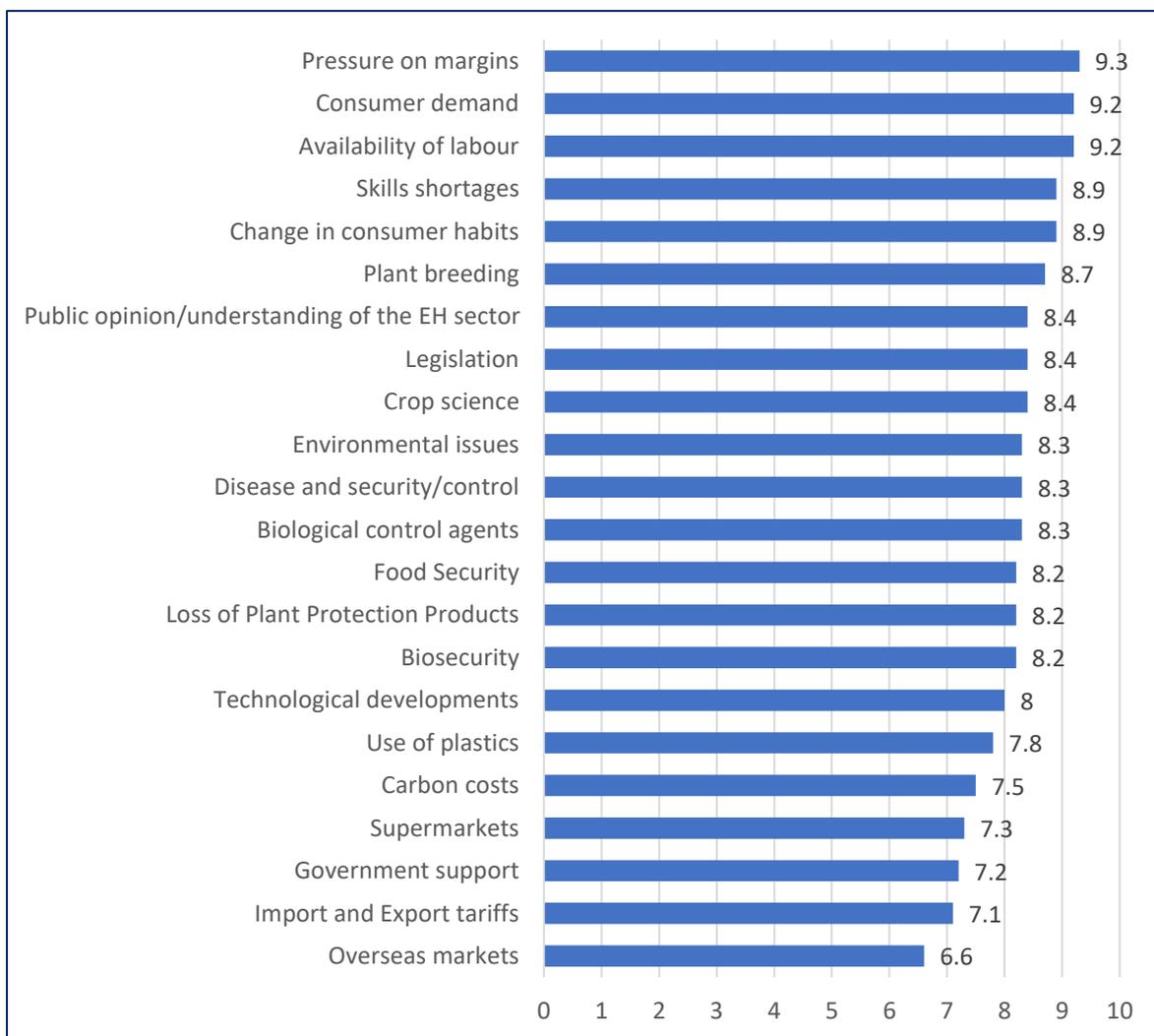
It should be noted that this question sought to understand business perceptions regarding occupations requiring degree levels. The responses reflect individual company views on related degree requirements in general. The responses do not reflect the extent to which the listed occupations are relevant to the respective edible horticulture sub-sector.

5. Future drivers of change

To provide information on their future outlook of the sector, businesses were asked to rate the most important drivers of future change from their perspective on a scale from 1 (not important) to 10 (very important).

The drivers of change perceived to be most important are pressure on margins (9.3), availability of labour (9.2), and consumer demand (9.2). These top three reasons are the same across most EH sub-sectors, with some variation in order.

Figure 16: Drivers of change



Base: 136 to 168 respondents. Source: Pye Tait Consulting 2020.

6. Summary

Workforce demographics

- The sector is largely made up of micro and small businesses (74%).
- Most workers in the sector (87%) are non-specialist employees. The average age of permanent workers in the sector is 40.9 compared to 37.7 for seasonal workers.
- Most workers are of 'other white' ethnic background, with most of these workers predominantly from Romania, Bulgaria, or Poland.

Workforce projections

- Demand for occupations is anticipated to remain largely the same in the coming years, with a slight leaning towards a predicted increase in staff over a predicted decrease in demand.
- Around a fifth of companies taken on apprentices/trainees in any given year. No company has more than five such staff, and businesses take on between 0.9 and 1.8 per year. Apprentices/trainees comprise 0.5% of the sector workforce. The most commonly mentioned barrier to recruiting apprentices, by 67% of businesses, is a lack of interest in the apprenticeships.

Skills

- Skills scoring reveals that each soft or technical skill is set to increase in importance in the future, sometimes significantly.
- Skills gaps in the workforce are believed to exist for a variety of factors. Most commonly mentioned was the cost of external training (by 28% of businesses), external training not meeting business needs (20%), and the lack of training available locally (19%).

Training

- On-the-job training is the most popular method of training for both permanent and seasonal staff; video and online training are little utilised. Businesses not using external training do so as internal training meets their needs (mentioned by over half of companies), or it is perceived to be too expensive (24%). Where businesses do use external training for upskilling, the majority never access funding (64%).

Education

- Most companies in the sector (93%) do not pay the apprenticeship levy.
- Most companies in the sector (95%) are unaware of the T Level qualification being introduced in 2023.
- Degree level qualifications or higher (level 6+) are believed to be essential for plant breeder/geneticist and soil scientist roles by just under half of employers (54%). A degree is believed to be not important for harvest manager (69%), irrigation installer/operator (73%), irrigation/fertigation manager (70%), or head grower roles (62%).

Future drivers

- Businesses in the sector foresee that the most important drivers of change in the future are pressure on margins, availability of labour, and consumer demand.