[^{F1}SCHEDULE 1

Regulation 3(2A) and (2C)

Import inspection fees

Textual Amendments

F1 Sch. 1 substituted (30.4.2024) by The Plant Health (Fees) (England) and Official Controls (Frequency of Checks) (Amendment) Regulations 2024 (S.I. 2024/557), regs. 1(2), **3(3)**

| Column 1 | Column 2 | Column 3 | Column 4 |
|--|-------------------|----------------------------|----------------------------|
| <i>Category and description of plant, plant product or other object</i> | Country of origin | Fee: Physical check (£) | Fee: Identity check (£) |
| Bulbs, corms, rhizomes, tubers (other than tubers of potatoes), onions, shallots, garlic, leeks and other alliaceous vegetables, dormant, not in substrate | | | |
| All genera intended for planting, other than commercial flower production, and not intended for final users ⁽¹⁾ | Any third country | 205.04 | 5.25 |
| All genera intended for planting, and intended for commercial flower production, or for final users | Any third country | 20.50 | 0.52 |
| Cuttings, seedlings intended for planting, not specified or included anywhere else in this table | | | |
| All genera | Any third country | 32.15 | 1.57 |
| Plants for planting | | | |
| Woody plants ⁽²⁾ (other than specified or included elsewhere in this table), intended for planting and intended for final users ⁽¹⁾ . All genera | Any third country | 32.15 | 1.57 |
| Non-woody plants ⁽³⁾ (other than specified or included elsewhere in this table), intended for planting. All genera | Any third country | 32.15 | 1.57 |
| Indoor plants ⁽⁴⁾ . All genera | Any third country | 32.15 | 1.57 |
| Other plants (other than specified or included elsewhere in this table), intended for planting. All genera | Any third country | 32.15 | 1.57 |

Cut flowers

| Column 1 | Column 2 | Column 3 | Column 4 |
|---|--|----------------------------|----------------------------|
| <i>Category and description of plant, plant product or other object</i> | Country of origin | Fee: Physical check (£) | Fee: Identity check (£) |
| Dendranthema (DC.) Des Moul. (Chrysanthemum L.) | Any EU Member State, Liechtenstein or Switzerland | 1.28 | 0.15 |
| | Colombia or Ecuador | 21.37 | 2.62 |
| | Any third country other than an EU Member State, Colombia, Ecuador, Liechtenstein or Switzerland | 2.13 | 0.26 |
| Eryngium Tournier ex Linnaeus. | Any third country other than an EU Member State, European third country, Liechtenstein or Switzerland | 4.27 | 0.52 |
| Lisianthus L. | Any third country other than an EU Member State, European third country, Liechtenstein or Switzerland | 4.27 | 0.52 |
| Rosa L. | Colombia or Ecuador | 1.28 | 0.15 |
| | Canada, India, Mexico or the USA | 21.37 | 2.62 |
| | Any third country other than an EU Member State, Canada, Colombia, Ecuador, India, Liechtenstein, Mexico, Switzerland or the USA | 2.13 | 0.26 |
| Solidago L. | Any EU Member State, Liechtenstein or Switzerland | 1.28 | 0.15 |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 4.27 | 0.52 |
| Other genera not specified or included elsewhere in this table | Any EU Member State, Liechtenstein or Switzerland | 1.28 | 0.15 |
| | Any third country other than an EU Member | 2.13 | 0.26 |

| Column 1 | Column 2 | Column 3 | Column 4 |
|---|--|----------------------------|----------------------------|
| <i>Category and description of plant, plant product or other object</i> | Country of origin | Fee: Physical check (£) | Fee: Identity check (£) |
| | State, Liechtenstein or Switzerland | | |
| Branches with foliage, parts of Conifers (other than bark or cut Christmas trees) | 5 WILLOI MILLO | | |
| All genera | Any EU Member State, Liechtenstein or Switzerland | 1.01 | 0.15 |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 1.69 | 0.26 |
| Fruit, vegetables, leaves | | | |
| Momordica L. | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 26.55 | 2.62 |
| Ocimum L. | Any EU Member State, Liechtenstein or Switzerland | 2.15 | 0.15 |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 35.84 | 2.62 |
| Solanaceae Juss. (other than Solanum tuberosum L. Solanum lycopersicum L, Solanum melongena L. and Capsicum sp.) | | 1.59 | 0.15 |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 26.55 | 2.62 |
| Solanum lycopersicum L. | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |
| | Morocco | 2.65 | 0.26 |
| | Canary Islands | 13.27 | 1.31 |

| Column 1 | Column 2 | Column 3 | Column 4 |
|---|--|----------------------------|----------------------------|
| <i>Category and description of plant, plant product or other object</i> | Country of origin | Fee: Physical check (£) | Fee: Identity check (£) |
| | Any third country other than the Canary Islands, an EU Member State, Liechtenstein, Morocco or Switzerland | 53.10 | 5.25 |
| Solanum melongena L. | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |
| | Turkey | 15.93 | 1.57 |
| | Any third country other than an EU Member State, Liechtenstein, Switzerland or Turkey | 26.55 | 2.62 |
| Capsicum | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 53.10 | 5.25 |
| Zea mays | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 53.10 | 5.25 |
| Ipomoea batatas | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |
| | Any third country other than Cameroon, an EU Member State, Liechtenstein or Switzerland | 2.65 | 0.26 |
| | Cameroon | 53.10 | 5.25 |
| Persea americana | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |
| | Any third country other than an EU Member | 2.65 | 0.26 |

| Column 1 | Column 2 | Column 3 | Column 4 |
|--|---|----------------------------|----------------------------|
| Category and description of plant, plant product or other object | Country of origin | Fee: Physical check (£) | Fee: Identity check (£) |
| | State, Liechtenstein or Switzerland | | |
| Vitis | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 2.65 | 0.26 |
| Malus | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |
| | European third countries ⁽⁵⁾ | 7.96 | 0.78 |
| | Argentina | 18.58 | 1.83 |
| | Chile | 2.65 | 0.26 |
| | New Zealand | 5.31 | 0.52 |
| | South Africa | 7.96 | 0.78 |
| | Any third country other than Argentina, Chile, an EU Member State, Liechtenstein, New Zealand, South Africa, Switzerland or European Third countries ⁽⁵⁾ | 53.10 | 5.25 |
| Pyrus | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |
| | Argentina | 13.27 | 1.31 |
| | Chile | 7.96 | 0.78 |
| | South Africa | 5.31 | 0.52 |
| | Any third country other than Argentina, Chile, an EU Member State, Liechtenstein, South Africa or Switzerland | 53.10 | 5.25 |
| Fragaria | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 |

| Column 1 | Column 2 | Column 3 | Column 4 | | | |
|---|---|----------------------------|----------------------------|--|--|--|
| <i>Category and description of plant, plant product or other object</i> | Country of origin | Fee: Physical check (£) | Fee: Identity check (£) | | | |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 2.65 | 0.26 | | | |
| Rubus | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 | | | |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 2.65 | 0.26 | | | |
| Vaccinium | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 | | | |
| | European third countries ⁽⁵⁾ | 26.55 | 2.62 | | | |
| | Argentina | 13.27 | 1.31 | | | |
| | Chile | 5.31 | 0.52 | | | |
| | Peru | 5.31 | 0.52 | | | |
| | Any third country other than Argentina, Chile, an EU Member State, Liechtenstein, Peru, Switzerland or European third countries ⁽⁵⁾ | 53.10 | 5.25 | | | |
| Zingiber officinale | Any EU Member State, Liechtenstein or Switzerland | | 0.15 | | | |
| | Any third country other than Cameroon, an EU Member State, Liechtenstein or Switzerland | | 0.26 | | | |
| | Cameroon | 53.10 | 5.25 | | | |
| Asparagus officinalis | Any EU Member State, Liechtenstein or Switzerland | 1.59 | 0.15 | | | |
| | Any third country other than an EU Member | 53.10 | 5.25 | | | |

| Column 1 | Column 2 | Column 3 | Column 4 | | | |
|--|--|----------------------------|----------------------------|--|--|--|
| Category and description of plant, plant product or other object | Country of origin | Fee: Physical check (£) | Fee: Identity check (£) | | | |
| | State, Liechtenstein or Switzerland | | | | | |
| Other genera or species of fruit or vegetables not specified or included elsewhere in this table | | 1.59 | 0.15 | | | |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 2.65 | 0.26 | | | |
| Other leaves not specified or included elsewhere in this table | Any EU Member State, Liechtenstein or Switzerland | 2.15 | 0.15 | | | |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 3.58 | 0.26 | | | |
| Seeds (for sowing), tissue cultures | | | | | | |
| All genera, for trials or testing | Any third country | 12.81 | 0.52 | | | |
| Brassicaceae (other than for trials or testing) | Argentina, Australia, Bolivia, Brazil, Chile, New Zealand or Uruguay | 128.13 | 5.25 | | | |
| Capsicum spp. L. (other than for trials or testing) | Any third country | 128.13 | 5.25 | | | |
| Poaceae (other than for trials or testing) | Argentina, Australia, Bolivia, Brazil, Chile, New Zealand or Uruguay | 128.13 | 5.25 | | | |
| Solanum lycopersicum L. (other than for trials or testing) | Any third country | 128.13 | 5.25 | | | |
| Solanum tuberosum L. (True seed) (other than for trials or testing) | Any third country | 128.13 | 5.25 | | | |
| Trifolium spp. (other than for trials or testing) | Argentina, Australia, Bolivia, Brazil, Chile, New Zealand or Uruguay | 128.13 | 5.25 | | | |
| Other genera or species not specified or included elsewhere in this table | Any third country | 6.40 | 0.26 | | | |

| Column 1 | Column 2 | Column 3 | Column 4 | | | |
|---|---|----------------------------|----------------------------|--|--|--|
| <i>Category and description of plant, plant product or other object</i> | Country of origin | Fee: Physical check (£) | Fee: Identity check (£) | | | |
| Grain (other than seeds for sowing) | | | | | | |
| Secale L. | Afghanistan, India, Iran, Iraq, Mexico, Nepal, Pakistan, South Africa or the USA | 142.98 | 5.25 | | | |
| Triticum L. | Afghanistan, India, Iran, Iraq, Mexico, Nepal, Pakistan, South Africa or the USA | 142.98 | 5.25 | | | |
| X Triticosecale Wittm. ex A. Camus | Afghanistan, India, Iran, Iraq, Mexico, Nepal, Pakistan, South Africa or the USA | 142.98 | 5.25 | | | |
| Tubers of potatoes | | | | | | |
| Solanum tuberosum L. (seed potatoes) | Any third country | 156.69 | 5.25 | | | |
| Solanum tuberosum L. (ware potatoes) | Egypt, Poland, Portugal or Romania | 78.34 | 2.62 | | | |
| | Spain | 156.69 | 5.25 | | | |
| | Any third country other than Egypt, Poland, Portugal, Romania or Spain | 4.70 | 0.15 | | | |
| Cut Christmas trees (less than 3 metres in height) | | | | | | |
| All genera | Any EU Member State, Liechtenstein or Switzerland | 3.58 | 0.15 | | | |
| | Any third country other than an EU Member State, Liechtenstein or Switzerland | 5.98 | 0.26 | | | |
| Machinery or vehicles which have been operated for agricultural or forestry purposes | Any third country | 5.98 | 0.26 | | | |

(1) "Intended for final users" means intended, by evidence from the packaging, labelling or by other means, for direct supply to final users.

^{(2) &}quot;Woody plants" means plants which have a woody or partly woody stem, and includes all trees, forest reproductive material (other than seed), shrubs and palms, and those vines and perennial herbs with woody or partly woody stems; and for this purpose "perennial herbs" means herbs for which the average life exceeds two years.

- (3) "Non-woody plants" means plants that are not woody plants.
- (4) "Indoor plants" means plants which appear from their packaging or labelling or by other means to be intended for direct supply to final users for indoor use or use in aquaria.
- (5) "European third countries" means Albania, Andorra, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Canary Islands, Faeroe Islands, Georgia, Iceland, Moldova, Monaco, Montenegro, North Macedonia, Norway, Russia (only the following parts: Central Federal District (Tsentralny federalny okrug), Northwestern Federal District (Severo-Zapadny federalny okrug), Southern Federal District (Yuzhny federalny okrug), North Caucasian Federal District (Severo-Kavkazsky federalny okrug) and Volga Federal District (Privolzhsky federalny okrug)), San Marino, Serbia, Turkey and Ukraine.]

^{F2}SCHEDULE 1A

Regulation 3(2A)(a)

Import inspection fees: consignments originating in an EU Member State, Liechtenstein or Switzerland

Textual Amendments

F2 Sch. 1A omitted (22.7.2022) by virtue of The Plant Health etc. (Miscellaneous Fees) (Amendment) (England) Regulations 2022 (S.I. 2022/836), regs. 1(1), 3(5)

^{F3}SCHEDULE 2

Regulation 3(2A)(b)(i) to (v) and (3)

Import inspection fees: Reduced rates for consignments originating in countries other than an EU Member State, Liechtenstein or Switzerland

Textual Amendments

F3 Sch. 2 omitted (22.7.2022) by virtue of The Plant Health etc. (Miscellaneous Fees) (Amendment) (England) Regulations 2022 (S.I. 2022/836), regs. 1(1), 3(5)

F4SCHEDULE 2A

List of plants and plant products originating in an EU Member State, Liechtenstein or Switzerland subject to fees for physical checks and identity checks from the end of the transitional staging period

Textual Amendments

F4 Sch. 2A omitted (30.4.2024) by virtue of The Plant Health (Fees) (England) and Official Controls (Frequency of Checks) (Amendment) Regulations 2024 (S.I. 2024/557), regs. 1(2), **3(4)**

F4

| F4. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| • F4 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| F4 • | | | | | | | | | | | | | | | | | | | | | | | • | | | | | • | | • | • | |
| F4. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

[^{F5}SCHEDULE 2B

Regulation 3(2)(a)

Textual Amendments

F5 Sch. 2B inserted (30.4.2024) by The Plant Health (Fees) (England) and Official Controls (Frequency of Checks) (Amendment) Regulations 2024 (S.I. 2024/557), regs. 1(2), 3(5)

Category and description of plant or plant product

Cut Flowers

Dendranthema (DC.) Des Moul. (Chrysanthemum L.)

Rosa L.

Solidago L.

Other genera not specified or included *elsewhere in this table*

Branches with foliage, parts of Conifers (other than bark or cut Christmas trees)

All genera

Fruit, vegetables, leaves

Momordica L.

Ocimum L.

Solanaceae Juss. (other than Solanum tuberosum L.)

Solanum melongena L.

Other genera or species of fruit or vegetables not specified or included elsewhere in this table

Other leaves not specified or included elsewhere in this table

Cut Christmas trees (less than 3 metres in height)

All genera**]**

^{F6}SCHEDULE 3

Regulation 4(2)

Changes to legislation: There are currently no known outstanding effects for the The Plant Health etc. (Fees) (England) Regulations 2018. (See end of Document for details)

Textual Amendments

F6 Sch. 3 omitted (1.10.2019) by virtue of The Plant Health etc. (Miscellaneous Fees) (England) (Amendment) Regulations 2019 (S.I. 2019/1257), regs. 2, 3(9)

[^{F7}SCHEDULE 4

Regulation 5(1)

Plant health licence fees

Textual Amendments

F7 Sch. 4 substituted (1.10.2019) by The Plant Health etc. (Miscellaneous Fees) (England) (Amendment) Regulations 2019 (S.I. 2019/1257), regs. 2, **3(10)**

In this Schedule—

"period 1" means the period ending on 31stMarch 2020;

"period 2" means the period beginning on 1st April 2020 and ending on 30th September 2020.

| Column 1 | Column 2 | Column 3 |
|--|---------------------|--|
| <i>Type of application or inspection</i> | Date of application | Fee(f) |
| Application for a licence for scientific or trial purposes, other than— | | 995.36 |
| —a licence in respect of the analysis of soil or other growing medium | | |
| —a licence for scientific or trial purposes covering 5 or more items | | |
| Application for a licence for scientific or trial purposes covering 5 or more items | | 995.36, plus 52.45 per item in excess of 5 items |
| Application for a licence in respect of the analysis of soil or other growing medium, other than a licence in respect of the analysis of soil or other growing medium covering 5 or more items | | 745.41 |
| Application for a licence in respect of the analysis of | | 745.41, plus 52.45 per item in excess of 5 items |

| Column 1 | Column 2 | Column 3 |
|---|--|--|
| <i>Type of application or</i> <i>inspection</i> soil or other growing medium | Date of application | Fee(£) |
| covering 5 or more items | | 200.25 |
| Application for a variation of a licence with changes requiring scientific or technical assessment | | 380.25 |
| Application for any other licence | | 42.50 |
| Issue of an annual letter of authority | | 42.50 |
| Monitoring compliance with licence terms and conditions | In the case of monitoring undertaken during period 1 | 69.75 for each 15 minutes (or part thereof), subject to a minimum fee of 139.50 |
| | In the case of monitoring undertaken during period 2 | 81.25 for each 15 minutes (or part thereof), subject to a minimum fee of 162.50 |
| | | 92.67 for each 15 minutes (or part thereof), subject to a minimum fee of 185.34] |

[^{F8}SCHEDULE 4A

Regulation 5A

Fees for export certification services and pre-export services

| Textual AmendmentsF8Sch. 4A inserted (14.12.201 Regulations 2019 (S.I. 2019) | 9) by The Official Controls (Animals, I 0/1488), regs. 1(1), 38(10) | Feed and Food, Plant Health Fees etc.) |
|---|--|---|
| (1) | (2) | (3) |
| Service | Fee - Small Exporter (£) | Fee – other Exporter (£) |
| Inspection of consignment | • | 63.80 for each 15 minutes (or part thereof), subject to a minimum fee of 127.60 |
| Audit of a grain inspection | | 26.40 for each 15 minutes (or part thereof), subject to a minimum fee of 52.80 |
| Laboratory examination (including laboratory testing) | 16.78 per sample tested | 33.56 per sample tested |

Changes to legislation: There are currently no known outstanding effects for the The Plant Health etc. (Fees) (England) Regulations 2018. (See end of Document for details)

| (1) | (2) | (3) |
|---|--------------------------|--------------------------|
| Service | Fee - Small Exporter (£) | Fee – other Exporter (£) |
| Issue of certificate | 12.76 per certificate | 25.52 per certificate |
| Amendment of a certificate at the request of the exporter | 7.88 per certificate | 15.76 per certificate] |

[^{F9}SCHEDULE 5

Regulation 8(1)

Seed potatoes: fees

| Textual Amendments | | | | |
|--------------------|--|--|--|--|
| F9 | Sch. 5 substituted (1.10.2019) by The Plant Health etc. (Miscellaneous Fees) (England) (Amendment) | | | |
| | Regulations 2019 (S.I. 2019/1257), regs. 2, 3(11) | | | |

| Column 1 | Column 2 | Column 3 | | | |
|--|---|-----------------|--|--|--|
| Activity | Fee (£) | Minimum fee (£) | | | |
| Soil sampling and testing for Potato Cyst Nematode | | | | | |
| Soil sampling and testing for the purposes of paragraph 4, 7 or 10 of Schedule 1 to the Seed Potatoes (England) Regulations 2015 | 24.75 for each hectare (or part thereof) sampled and tested | | | | |
| Inspection of growing crop | | | | | |
| Certification as pre-basic seed potatoes: Union grade PBTC | 30.39 for each 15 minutes (or part thereof) | 60.78 | | | |
| Certification as pre-basic seed potatoes: Union grade PB | 12.16 per each 0.1 hectare (or part thereof) inspected | 60.75 | | | |
| Certification as basic seed potatoes: Union grade S | 10.57 per each 0.1 hectare (or part thereof) inspected | 105.70 | | | |
| Certification as basic seed potatoes: Union grade SE | 10.57 per each 0.1 hectare (or part thereof) inspected | 105.70 | | | |
| Certification as basic seed potatoes: Union grade E | 10.33 per each 0.1 hectare (or part thereof) inspected | 103.30 | | | |
| Certification as certified seed potatoes: Union grade A or B | 9.39 per each 0.1 hectare (or part thereof) inspected | 93.90 | | | |
| Inspection of harvested tubers | | | | | |
| Inspection | 40.55 for each 15 minutes (or part thereof) | 81.10 | | | |
| Provision of labels and seals in respect of application | | | | | |
| | | | | | |

Printed labels for bags holding 0.05 per label 50 kgs of seed potatoes or less

| Column 1 | Column 2 | Column 3 |
|---|----------------------------------|-----------------|
| Activity | Fee (£) | Minimum fee (£) |
| Printed labels and seals for bags holding more than 50 kgs of seed potatoes | | |
| Blank labels and seals | 0.16 per label (including seal)] | |

SCHEDULE 6

Regulation 12

Revocations

- The Plant Health (Fees) (England) Regulations 2014 M1.

— The Plant Health (Fees) (England) (Amendment) Regulations 2014 M2.

— The Plant Health (Fees) (England) (Amendment) Regulations 2015^{M3}.

— The Plant Health (Fees) (England) (Amendment) Regulations 2016^{M4}.

- The Plant Health (Fees) (England) (Amendment) Regulations 2017 ^{M5}.
- The Plant Health (Fees) (England) (Amendment) Regulations 2018 M6.

Marginal Citations

M1 S.I. 2014/601, amended by S.I. 2014/3243, 2015/1996, 2016/1255. 2017/125, 2018/15.

- M2 S.I. 2014/3243.
- **M3** S.I. 2015/1996.
- M4 S.I. 2016/1225.
- **M5** S.I. 2017/125.
- **M6** S.I. 2018/15.

Marginal Citations

M1 S.I. 2014/601, amended by S.I. 2014/3243, 2015/1996, 2016/1255. 2017/125, 2018/15.
M2 S.I. 2014/3243.
M3 S.I. 2015/1996.
M4 S.I. 2016/1225.

- M5 S.I. 2017/125.
- M6 S.I. 2017/125.

Changes to legislation: There are currently no known outstanding effects for the The Plant Health etc. (Fees) (England) Regulations 2018.