

# COMISIÓN DEL CODEX ALIMENTARIUS S



Organización de las Naciones  
Unidas para la Alimentación  
y la Agricultura



Organización  
Mundial de la Salud

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**CL 2017/12-PR**  
**Enero de 2017**

A: Puntos de contacto del Codex  
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ASUNTO: **PETICIÓN DE OBSERVACIONES SOBRE EL ESTABLECIMIENTO DE LOS  
CALENDARIOS Y LISTAS DE PRIORIDADES DEL CODEX PARA LOS  
PLAGUICIDAS PARA EVALUACIÓN POR LA JMPR**

PLAZO: **15 de marzo de 2017**

OBSERVACIONES: **A:**

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## **A. CALENDARIOS Y LISTAS DE PRIORIDADES PARA 2018-2021**

1. En el Apéndice se incluyen los calendarios y Listas de prioridades del Comité del Codex sobre Residuos de Plaguicidas (CCPR) para los plaguicidas (cuadros 1 a 4), como se especifica en los “Principios de análisis de riesgos aplicados por el Comité del Codex sobre residuos de plaguicidas” del Manual de Procedimiento de la Comisión del Codex Alimentarius.
2. Se indican en rojo las enmiendas a los calendarios y Listas de prioridades del CCPR descritas en el informe de la 48.ª reunión del CCPR (REP16/PR, Apéndice XII) realizadas tras las observaciones recibidas después de que el Comité del Codex aprobara, en su 39.º período de sesiones, la labor en curso sobre establecimiento de prioridades. Se hace todo lo posible por registrar con precisión las propuestas presentadas durante este período. Dado que el presente es un documento de trabajo, en caso de advertirse errores, se podrán realizar enmiendas inmediatamente.
  - Cabe señalar que, debido a un fallo de la computadora, puede haber habido un problema menor con el control de versión. El Presidente del Grupo de trabajo electrónico sobre prioridades (GTe sobre prioridades) confía en que esto no afecta a las propuestas de los EE.UU. presentadas durante la primera semana de diciembre de 2016. Los cambios posteriores relativos a otras propuestas pueden haberse visto afectados. Se alienta a los miembros que presentaron las propuestas y a los observadores a que revisen cuidadosamente los calendarios y listas de prioridades para comprobar si la versión actual es precisa.
3. El calendario del CCPR para las evaluaciones de la Reunión Conjunta FAO/OMS sobre Residuos de Plaguicidas (JMPR) en 2017 está cerrado, pero se incluye en esta fase únicamente como referencia.
4. A fin de facilitar el examen de la programación para 2018, la propuesta de calendario del CCPR para las evaluaciones de la JMPR en 2018 se ha extraído de los cuadros 1 y 2A y aparece después del calendario para 2017 (cerrado). El calendario propuesto para 2018 incluye 15 compuestos para evaluación de nuevos compuestos, 54 compuestos para evaluación de nuevos usos y de otro tipo y cinco compuestos para revisión periódica.

**La carga de trabajo prevista supera ampliamente los recursos disponibles de la JMPR.**

5. Como se indica en el Cuadro 1 y el Cuadro 2A, la lista de prioridades del CCPR para las evaluaciones que realizará la JMPR en 2019 incluye ocho compuestos para la evaluación de nuevos compuestos, 19 compuestos para evaluaciones de nuevos usos y de otro tipo y ocho compuestos para revisión periódica.  
**La carga de trabajo prevista supera ampliamente los recursos disponibles de la JMPR.**
6. En el Cuadro 1 también se incluyen tres propuestas para la lista de prioridades del CCPR para compuestos nuevos de 2020.
7. En el Cuadro 2A se incluyen también las listas de prioridades para revisiones periódicas en 2020 (nueve compuestos) y 2021 (cinco compuestos). Todos los compuestos enumerados cumplen la “norma de 15 años”; en la mayoría de los casos, se han propuesto para la programación de la revisión periódica sobre la base de preocupaciones en materia de salud pública. Al menos el 50 % de los compuestos no cuentan con el apoyo de ningún país miembro o fabricante.
8. En el Cuadro 2B se enumeran 17 compuestos que cumplen la “norma de los 15 años” pero no tienen programada todavía su revisión periódica.
9. La recopilación de registros nacionales de los compuestos incluidos en los cuadros 2A y B se suprimirá antes de la 49.<sup>a</sup> reunión del CCPR y dejará su lugar a la base de datos de registros nacionales, de la que se ocupa una carta circular reciente preparada por Alemania y Australia.
10. En el Cuadro 3 se incluye un registro de todas las revisiones periódicas (pasadas, presentes y futuras). En el Cuadro 4 se incluyen combinaciones de sustancia química-productos para las que ya no se apoyan buenas prácticas agrícolas (BPA) específicas.

## **B. FINALIZACIÓN DEL CALENDARIO PROPUESTO PARA 2018**

### **Nuevos compuestos**

11. Se ha establecido el calendario propuesto para las evaluaciones de nuevos compuestos. Aquellas propuestas de nuevos compuestos que se considera que han satisfecho todos los criterios de presentación de propuesta y programación se han confirmado con una indicación de fecha. Sobre la base del asesoramiento brindado por la JMPR sobre los evaluadores disponibles, el cupo para nuevos compuestos es normalmente de ocho compuestos. Los compuestos figuran en la lista por orden según la indicación de fecha y se numeran del 1 al 8, mientras que se asigna el estado de RESERVA a los compuestos núms. 9 y 10.
  - En el caso de que un miembro u observador no haya facilitado los conjuntos de datos exigidos en respuesta a la “solicitud de datos” o si hay otros evaluadores disponibles, para los compuestos que figuran en el calendario para 2018, la JMPR puede seleccionar un compuesto en estado de RESERVA para el que haya un conjunto de datos listo para su evaluación.
  - Se excluyeron cinco compuestos (triciclazol, quinalofos, etión, hexaconazol e iprobenfos) debido a que no se había presentado el formulario de propuesta requerido.

### **Evaluaciones de nuevos usos y de otro tipo**

12. Como se indica en el párrafo 4, en el calendario propuesto para 2018 se incluyen 54 compuestos para evaluaciones de nuevos usos y de otro tipo. En la 48.<sup>a</sup> reunión del CCPR, la JMPR indicó que tenía capacidad para ocuparse de un cupo de 20 evaluaciones con los evaluadores disponibles.
13. De conformidad con el enfoque adoptado en la 48.<sup>a</sup> reunión del CCPR, los países miembros y las organizaciones internacionales observadoras (patrocinadores) que hayan propuesto compuestos para el calendario propuesto para evaluaciones de nuevos usos y de otro tipo pueden confirmar un lugar en el calendario únicamente presentando evidencia documentada de un uso registrado/etiqueta de fórmula autorizada/BPA o al menos, evidencia de la presentación de un expediente ante una autoridad de registro nacional con miras a obtener un registro/etiqueta de fórmula autorizada/BPA **antes del 17 de abril de 2017**.
14. Debido a las limitaciones de recursos de la JMPR, se confirmarán las primeras 20 propuestas de compuestos (según la indicación de fecha) en el calendario para 2018. Aquellos compuestos para los que el proponente no pueda facilitar la información requerida se aplazarán hasta la lista de prioridades de “evaluación de nuevos usos y de otro tipo” de 2019.
  - Al 27 de enero de 2017, 19 compuestos cuentan con una indicación de fecha y se indican como Prioridad 1 tras la presentación de usos registrados/etiquetas de fórmula autorizada/BPA.
  - En el caso de que más de 20 propuestas de compuestos incluidas en el calendario para 2018 cumplan el requisito de uso registrado/etiqueta de fórmula/BPA, se asignará el estado de RESERVA a aquellas posteriores a la número 20.

- Según el enfoque propuesto para los nuevos compuestos, en el caso de que se presente la oportunidad, la JMPR puede optar por evaluar un compuesto de RESERVA.
15. El requisito de que una combinación de sustancia química-productos “deberá estar registrada para su uso en un país miembro y las etiquetas de las formulaciones disponibles” se especifica en los “Principios para el análisis de riesgos aplicados por el Comité del Codex sobre Residuos de Plaguicidas” establecidos en el párrafo 63 del Manual de Procedimiento del Codex.
- Si bien en el párrafo 63 se establece que el momento de la “solicitud de datos” por parte de la JMPR es la fecha límite para presentar información sobre registro/etiqueta de fórmula/BPA, ahora debe darse precedencia al párrafo 53, en el que se indica que “el GTe sobre prioridades se encarga de la preparación de un Programa de Plaguicidas”.
16. Obsérvese que este rigor adicional del proceso no necesariamente se aplica a las evaluaciones de nuevos compuestos y la revisión periódica.
17. Para confirmar los procedimientos que se aplican a las indicaciones de hora y la confirmación del calendario propuesto, se aplica lo siguiente:
- Todas las propuestas se incluirán en los calendarios y Listas de prioridades; se indicará como fecha de presentación la fecha en que el Presidente del GTe sobre prioridades recibió la propuesta.
  - Cada propuesta se evaluará de conformidad con los criterios pertinentes indicados en los “Principios para el análisis de riesgos aplicados por el Comité del Codex sobre Residuos de Plaguicidas” del Manual de Procedimiento del Codex.
  - Una vez que se haya determinado que cumple los criterios pertinentes, se aceptará la propuesta en los calendarios y Listas prioritarias y se registrará una fecha de aceptación. La fecha de aceptación es la fecha en que el Presidente del GTe sobre prioridades recibió el mensaje de correo electrónico pertinente. Por ejemplo, en el caso de que la propuesta original incluya todos los datos requeridos, la fecha de presentación es también la fecha de aceptación.
  - Se establecerá una propuesta de calendario sobre la base de las propuestas “aceptadas” y la fecha de aceptación.

#### **Revisiones periódicas**

18. En el calendario propuesto para 2018 figuran cinco compuestos para revisión periódica. Entre estos, el bromocropilato sigue sin contar con ningún apoyo y se han planteado preocupaciones relativas a la salud pública. Se informa a los miembros y observadores que en el caso de que esas preocupaciones en materia de salud pública sean confirmadas y no se ingresen datos adicionales, es probable que el compuesto se recomiende para su eliminación de la Lista de plaguicidas y se revoquen todos los CXL.

#### **C. PREOCUPACIONES EN MATERIA DE SALUD PÚBLICA**

19. En consonancia con el proceso de propuesta especificado en los “Principios para el análisis de riesgos aplicados por el Comité del Codex sobre Residuos de Plaguicidas” del Manual de Procedimiento del Codex, los miembros y observadores podrán presentar sus preocupaciones en materia de salud pública en relación con cualquier compuesto que figura en la Lista de plaguicidas del CCPR, incluidos aquellos que ya figuran en los cuadros 2A y 2B.
- Al presentar una preocupación en materia de salud pública, el proponente debe facilitar datos científicos de apoyo.
  - Estos compuestos se añaden en un subcuadro sobre “preocupaciones en materia de salud pública” para la revisión por la JMPR.
  - De conformidad con la revisión de la JMPR y el GTe sobre prioridades, los compuestos propuestos se podrán incluir en el Cuadro 2A (en el caso de que no figuren ya en él) para su examen por el CCPR y su posible programación para revisión periódica.
  - Si un plaguicida se incluye en el Cuadro 2A debido a preocupaciones en materia de salud pública, se incluye un resumen de las preocupaciones en el cuadro.
20. Actualmente, más del 50 % de los compuestos enumerados en el Cuadro 2A están sujetos a una preocupación en materia de salud pública. En lo que respecta a las listas de prioridades para revisión periódica para 2019, 2020 y 2021, aquellos compuestos para los que se han indicado preocupaciones en materia de salud pública se han ordenado por prioridad por delante de los compuestos para los que no se indicaron tales preocupaciones.

**D. REVISIONES PERIÓDICAS (COMPUESTOS SIN APOYO)**

21. Se alienta encarecidamente a los países y observadores interesados a que proporcionen información sobre los compuestos siguientes, que siguen sin contar con ningún apoyo:
- 2018: bromopropilato [70] PHC
  - 2019: aldicarb [117], fenarimol [192] PHC, azinfos-metilo [002] PHC, amitraz [122] PHC, diclorán [083] PHC, fosadona [060] PHC
  - 2020: pirimicarb [101] PHC, procloraz [142], etoxiquina [035] PHC, diazinon [022], quinceno [064] PHC
  - 2021: bromuro inorgánico [047], óxido de fenbutatin [109], permetrina [120], fosforo de hidrógeno [046], guazatina [114] PHC

NB: PHC indica que se presentó una preocupación en materia de salud pública

**E. REGISTROS NACIONALES PARA LOS COMPUESTOS INCLUIDOS EN LOS CUADROS 2A Y 2B**

22. Consúltense la Carta circular ([CL 2017/18-PR](#)) que se distribuyó a través de la Secretaría del Codex. La Carta circular va acompañada de una hoja de cálculo a la que los Miembros que elijan responder pueden añadir una hoja de cálculo con respuestas específicas para el país. Cuando reciba la Carta circular y la hoja de cálculo que la acompaña, observará que hay dos hojas de cálculo completas para el Codex y para Australia.
23. También hay disponible un documento de debate ([CX/PR 17/49/15](#)) sobre la creación de una base de datos del Codex de registros nacionales de plaguicidas, que tiene la finalidad de incluir todas las combinaciones de sustancia química-productos relacionadas con los compuestos incluidos en los cuadros 2A y 2B para los que los Miembros han indicado que existe un registro nacional.
24. **Se alienta a todos los Miembros a que respondan la Carta circular CL 2017/18-PR y a que presenten información utilizando la hoja de cálculo facilitada a tal fin.**

**APPENDIX  
ENGLISH ONLY**

**CCPR SCHEDULES AND PRIORITY LISTS OF PESTICIDES**

**2017 CCPR SCHEDULE OF JMPR EVALUATIONS (CLOSED)**

**2017 NEW COMPOUND EVALUATIONS**

| TOXICOLOGY  | RESIDUE                              | Prioritisation criteria               | Commodities   | Residue trials provided  |
|---|--------------------------------------|---------------------------------------|---|--|
| Bicyclopyrone(999); USA (herbicide); [Syngenta]   | Bicyclopyrone(999)                   | Registered; MRLs > LOQ? Y             | Corn; Barley; Wheat; Sugarcane; Soybean   | Corn (29); Barley (12); Wheat (20); Sugarcane (11); Soybean (20)   |
| Cyclaniliprole<br>[Ishihara Sangyo Kaisha]<br>USA (999)<br>(insecticide)<br>Moved from 2016<br>Seek JMPR advice | Cyclaniliprole                       | Registered Korea Jan 17<br>MRLs > LOQ | broccoli; cabbage; mustard green; brussels sprout; kale; cauliflower; soybean, dried; soybean, immature (with pods); tomato; pepper; apple; pear; cherry; peach; plum; apricot; plum; almond hulls; almond; pecan; lettuce, head; lettuce, leaf; spinach; grape; cucumber; muskmelon; summer squash; chinese cabbage; tea - India | broccoli (18); cabbage (22); mustard green (5); brussels sprout (8); kale (4); cauliflower (8); soybean, dried (6); soybean, immature (with pods) (3); tomato (51); pepper (37); apple (37); pear (8); cherry (15); peach (20); plum (23); apricot (8); plum (23); almond hulls (5); almond (5); pecan (5); lettuce, head (9); lettuce, leaf (11); spinach (8); grape (43); cucumber (9); muskmelon (10); summer squash (9); tea (6); chinese cabbage (6)  |
| Fenazaquin (999)<br>(insecticide) [Gowan] USA<br>Moved from 2015 following discussion                           | Fenazaquin (999)                     | Registered MRLs > LOQ                 | Alfalfa; apples; apricots; berries; citrus; cotton; cucurbits (cucumbers, melons, zucchini, squash, pumpkin); eggplant; grapes; hops; nectarines; peaches; pears; peppers; pineapples; plums; prunes; strawberries; tea; tomatoes; tree nuts; zucchini<br>India - Tea   | Cucurbits (cucumbers – 6; cantaloupe – 6; zucchini squash – 5); stone fruit (sweet cherries – 3; sour cherries – 3; peach – 9; plum – 6); fruiting vegetable (tomato – 12; bell peppers – 6; chili peppers – 3); strawberries – 8; tree nuts (pecan – 5; almond – 5); berries (blueberry – 6; raspberry – 5); Hops – 3; mint (spearmint – 1; peppermint – 4); alfalfa – 4; corn (field, sweet) – 24; cotton – 12; bean (edible podded legumes – 9; succulent shelled pea & bean – 11; dried shelled pea & bean – 14); grape – 12; avocado – 5; citrus (orange – 12; lemon – 5; grapefruit – 6) |
| Fenpyrazamine (fungicide)<br>Japan [Sumitomo Chemical] (999)  | Fenpyrazamine                        | Registered USA, EU, Japan             | [Sumitomo] Almond; Apricot; Bushberry Subgroup; Caneberry Subgroup; Cherry; Cucumber; Eggplant; Ginseng; Grape (Table, Wine And Juice); Lettuce (Head And Leaf); Peach; Pepper; Pistachio; Plum; Strawberry; Tomato   | [Sumitomo] Almond (nutmeats - 7, hulls - 7); apricot (8); bushberry subgroup (blueberry - 8); caneberry subgroup (caneberry - 5); cherry (12); cucumber (protected - 8); ginseng (3); grape (table, wine and juice) (US - 19), (EU - 16); lettuce (head and leaf) (head w/wo wrapper leaves - 10+10, leaf - 10); peach (12); pepper (protected - 8); plum (12); strawberry (24); tomato (protected - 8)  |
| Isoprothiolane (999) Japan, India fungicide Nihon Nohyaku   | Isoprothiolane (999)<br>Japan, India | Registered Japan                      | Rice Nihon Nohyaku  | Rice 6   |
| Natamycin(999); (Fungistat); [DSM Food Specialties]; USA  | Natamycin(999)                       | Registered; MRLs> LOQ?Y               | mushroom; pineapple, citrus, stone fruit, pome fruit, avocado, kiwi fruit, mango, pomegranate   | Mushroom (2); Pineapple (2), orange (3), lemon (3), grapefruit (3)   |

| TOXICOLOGY  | RESIDUE                                  | Prioritisation criteria                                     | Commodities  | Residue trials provided  |
|---|--|---|--|--|
| Phosphorous acid (999)[Nufarm] Australia; Fosetyl-aluminium [Bayer CropScience] Germany (fungicide) | Phosphorous acid (999) fosetyl-aluminium | Registered; MRLs >LOQ                                       | BCS: Table and wine grapes; Pome fruit; Citrus fruit; Berries and other small fruit; Avocado; i, Pineapple; Tomato; Peppers, sweet; Peppers, chili; Cucumber; Gherkin; Melon; Watermelon; Lettuce, head; Lettuce, leaf; Spinach; Cabbage, head; Cauliflower; Hops; Coffee; US add on: Citrus Post harvest, tree nuts, grapes | USA: navel orange (5); mandarin orange (5), lemon (5), grapefruit (5); Valencia (5); almond (5); walnut (5); pistachio (5); avocado (5)<br><br>Bayer - fosetyl: Table and wine grapes (39), Pome fruit (42), Citrus fruit (46), Berries and other small fruits (54), Avocado (10), Pineapple (23), Tomato (43), Sweet pepper, chili (23), Cucumber + gherkin (44), Spinach (15), Melon + watermelon (35), Head + leafy lettuce (40), Cabbage, head (28), Cauliflower (15), Hops (14), Coffee (5) |
| Triflumezopyrim (999); Insecticide; DuPont – USA <b>RESERVE 1</b>                                   | Triflumezopyrim (999)                    | Registered No expected Oct 2016; MRLs > LOQ (not yet known) | Rice   | Rice (30 trials from various countries))   |

### 2017 NEW USES AND OTHER EVALUATIONS

| EFFECTIVE DATE | TOXICOLOGY                             | RESIDUE                                | Commodities  | Residue trials provided  |
|----------------|--|--|--|--|
| 11 June 2015   |  | 2,4-D (020)<br>[Dow AgroSciences]      | India Tea<br><b>USA- COTTON</b>  | Tea; Cotton (22 total; 18 USA, 4 Brazil)   |
| 11 June 2015   | Review of new tox. Data<br>See comment | Acetamiprid (246)<br>[Nippon Soda]     | India Tea<br><b>IRAN – PISTACHIOS<br/>MUSTARD GREEN (IR4)</b>  | Await field trial information<br>COMMENT: Although acetamiprid was quite recently reviewed by JMPR (2011), there are new toxicological data on development neurotoxicity which may lead to a lowering of the current ARfD (0.1 mg/kg bw). EFSA, in its reasoned opinion on developmental neurotoxicity of acetamiprid and imidacloprid (December 2013) recommends a lower ARfD of 0.025 mg/kg bw. With such a lowered ARfD, the CXLs for apple, chard and citrus fruit may be of concern.<br>Iran – pistachios (4) |
| 29 April 2014  |  | Azoxystrobin (229)<br>[Syngenta]       | <b>INDONESIA AND VIETNAM: DRAGON FRUIT;<br/>EGYPT: GUAVA; CANADA: CANOLA,<br/>SUGARCANE</b>  | Dragon Fruit (7); Guava (6); Canola (21), sugarcane (16)   |
| 11 June 2015   |  | Captan (7)<br>(fungicide) [Arysta USA] | <b>GINSENG</b>   | Ginseng (3)  |
| 11 June 2015   |  | Cyprodinil (207)<br>[Syngenta] France  | <b>CARROTS; BEANS, EXCEPT BROAD BEAN AND<br/>SOYA BEAN (GREEN PODS AND IMMATURE<br/>SEEDS), CELERY, CUCUMBER, GLOBE<br/>ARTICHOKE, GUAVA, POMEGRANATE, POTATO,<br/>ALMOND. PECAN</b> | carrot (8), beans with pods (9), celery (8), cucumber (5), globe artichoke (4), guava (5), pomegranate (4), potato (16), almond (4). Pecan (5)   |

| EFFECTIVE DATE | TOXICOLOGY                         | RESIDUE   | Commodities  | Residue trials provided   |
|----------------|------------------------------------|---|--|---|
| 29 April 2014  |                                    | Difenoconazole (224) [Syngenta]                           | <b>INDONESIA AND VIETNAM: DRAGON FRUIT; EGYPT: GUAVA; REPUBLIC OF KOREA: PAPRIKA; CHILI PEPPER USA: ALMONDS, PULSES, BLUEBERRIES, GINSENG, GLOBE ARTICHOKE, APPLE, PEAR, SWEET CORN, WATERMELON, COFFEE, STRAWBERRY, RICE, GUATEMALA: SNAP BEANS AND SNOW PEAS (EDIBLE, PODED)</b> | Dragon Fruit (7); Guava (6), Paprika (6); chili pepper (6), Almond (5), lentils (3), blueberries (11), ginseng (4), globe artichoke (4), apple (5), pear (4), sweet corn (9), watermelon (4), coffee (4), strawberry (9), rice (10)rice (10) snap beans (6), snow peas (6)  |
| 11 June 2015   |                                    | Flonicamid (999) Insecticide [Ishihara Sangyo Kaisha] USA | <b>PULSES (VD 0070) AND LEGUME VEGETABLES (VD 0060) USA- CITRUS FRUITS</b>   | Dry Bean (12); Dry Pea (5); Succulent Bean (13); Succulent Pea (13), Orange (12); Grapefruit (6); Lemon (5)   |
| 20 April 2016  |                                    | Fluensulfone (265) [Adama]                                | <b>COFFEE, CITRUS, SUGARCANE, SOYBEAN, BLACK PEPPER</b>  | coffee (4), citrus 27, sugarcane (4), soybean (4), black pepper (4)   |
| 11 June 2015   |                                    | Fluopyram (243) [Bayer CropScience]                       | <b>ARTICHOKE, BARLEY, CHICORY, CITRUS, COTTON, HERBS (DRY), HOPS, MAIZE, MANGO, PEANUT, RAPE SEED, RICE, SOYA BEAN, SPICES, SUNFLOWER SEED, WHEAT, PEPPERS</b>   | Artichoke (4), Chicory (8), Citrus (48), Cotton (11), Herbs (dry) (9), Hops (13), Maize (16), Mango (8), Peanut (12), Rape seed (24), Rice (8), Soya bean (21), Spices (4), Sunflower seed (24), Wheat and Barley (44)  |
| 11 June 2015   |                                    | Flupyradifurone (999) [Bayer CropScience]                 | <b>STONE FRUIT</b>   | Stone fruit (40)  |
| 20 April 2016  |                                    | Imidacloprid (206)  | <b>PISTACHIO (IRAN),</b>   | Pistachios (4)  |
| 29 April 2014  |                                    | Imazamox (276), imazapyr (267) [BASF] Australia           | <b>BARLEY</b>  | Barley (12)   |
| 11 June 2015   |                                    | Isopyrazam (249) [Syngenta]                               | <b>TOMATO, MELON, PEPPER, CUCUMBER, CEREALS, OIL SEEDS, PEANUTS, PEACH, APRICOT, POME FRUIT, CARROTS,</b>  | Wheat (16), barley (16), oil seed rape (16), peanuts (4), peach (4), apricot (4), apples (16) carrot (16), tomato (16), peppers (14), cucumbers (24), melons (24)   |
| 20 April 2016  |                                    | Penthiopyrad (253)  | <b>MAIZE FODDER, MUSTARD GREENS (ALTERNATIVE GAP)</b>  |   |
| 29 April 2014  | Moved at request of USA and DuPont | Picoxystrobin– [Dupont] –USA (258)                        | <b>FRUITING VEGETABLES, CUCURBITS; STONE FRUIT; POME FRUIT; GRAPES; LEGUME VEGETABLES; BULB VEGETABLES; STRAWBERRY; BRASSICA VEGETABLES; LEAFY VEGETABLES; ROOT AND TUBER VEGETABLES; SUNFLOWER; TREE NUT; PEANUT; RICE; COTTON AND TOMATO</b>                                     | Brassica (broccoli, cauliflower, cabbage, mustard greens), 30; bulb vegetables (green onion, dry bulb onion), 15; coffee, 4; cotton, 13; cucurbits, 30 (cucumbers, 12); muskmelons, 9; summer squash, 9; fruiting vegetables, 44 (tomatoes, 24); bell peppers, 13; (7 non-bell peppers); grape, 13; leafy vegetables, 44 trials (leaf lettuce 10); head lettuce, 11; celery, 10; spinach, 9; peanut, 13; pome (apple, pear), 26 (apple 17, pear 9); rice, 11; root and tuber vegetables, 56 trials (potatoes, 21; sugarbeets, 13; radishes, 6; carrots, 10; turnips, 6); stone fruit (cherries; peaches, plums), 30; strawberry, 9; succulent/edible podded legumes, 40 (8 edible podded bean, 4 edible podded pea, 17 succulent bean, and 11 succulent pea); sugarcane, 4; sunflower, 9; tree nuts, 12 (6 almond, 6 pecan) |
| 11 June 2015   |                                    | Propiconazole (160)                                       | India Tea<br><b>CITRUS, STONE FRUIT, PINEAPPLE</b>   | Tea<br>Citrus – orange, mandarin, lemon, grapefruit (16), Stone fruit – cherry, peach, nectarine and plum (28), Pineapple (4)   |

| EFFECTIVE DATE | TOXICOLOGY  | RESIDUE  | Commodities  | Residue trials provided   |
|----------------|---|--|--|---|
| 29 April 2014  | Propylene oxide [Balchem] (250) – USA - JMPR 2013 | Propylene oxide [Balchem] (250)  | <b>TREE NUTS</b>   | Moved at the request of manufacturer  |
| 29 April 2014  |   | Prothioconazole (232) [Bayer CropScience]                                  | <b>COTTON</b>  | Cotton (16)   |
| 29 Nov 2015    |   | Quinclorac [BASF] (287)  | <b>CANOLA, RICE</b>  | Canola (8), rice (8)  |
| 29 April 2014  |   | Spinetoram (233) – [Dow AgroSciences] Thailand; Columbia; New Zealand; USA | <b>USA: CUCURBITS; PEPPER; STRAWBERRIES; PLUM; CHERRY; APRICOT; POTATO; SOYBEAN; CORN; TANGERINE; SWEETCORN; KIWI; PASSION FRUIT</b><br>NZ: feijoa, passionfruit, tamarillo<br><b>THAILAND: MANGO, LICI</b><br>Colombia: avocado | US: cucurbits (8); pepper (8); strawberries (8); plum (8); cherry (8); apricot (4); potato (4); soybean (4); corn (4); tangerine (8); sweetcorn (4); kiwi (3); passion fruit (4)<br>NZ: feijoa (4); passionfruit (4); avocado (4); tamarillo (4).<br>Thailand: mango (6); litchi (6)<br>Colombia: avocado (6) |
| 20 April 2016  |   | Spiroteramat (234) Bayer   | <b>IRAN - PISTACHIOS</b>   |   |
| 11 June 2015   |   | Tebuconazole (189) [Bayer CropScience] USA                                 | <b>KENYA (COMMON BEANS)</b><br>India Tea   | Green bean (8)  |
| 29 April 2014  |   | Trifloxystrobin (213) [Bayer CropScience]                                  | <b>COTTON; GINSENG (KOREA) HEAD CABBAGE, CAULIFLOWER + BROCCOLI, SPINACH,</b>  | Cotton (12) Ginseng (6), head cabbage (6), Cauliflower + broccoli (6), Spinach (6),   |
| 11/23/2016     |   | Saflufenacil (251) – no additional data                                    | Flax seed  | Request to extrapolate rapeseed (canola) data to recommend CXL for flax seed based on 2016 JMPR evaluation  |

## 2017 PERIODIC REVIEW

| TOXICOLOGY   | RESIDUE                                 | Commodities   | Comments  | Previous evaluation | ADI          | ARfD         |
|--|---|---|---|---------------------|--------------|--------------|
| Chlormequat (15) [BASF]<br><b>Moved from 2016</b>          | Chlormequat (15) Plant growth regulator | Cereals; cottonseed; maize; rapeseed; maize fodder; cereals fodder/straw; meat; milk; eggs<br>All CXLs supported  | Cereals - 64 trials (16 trials each for wheat, barley; oats and rye); grapes - 8 trials; soybean - 8 trials; cottonseed - 4 trials; potato - 4 trials; onion - 4 trials; meat/milk/eggs | 1994                | 0.05<br>1997 | 0.05<br>1999 |
| Clethodim (187) USA Arysta LifeScience<br><b>RESERVE 3</b> | Clethodim (187)                         | Bean; broccoli; cabbage; carrot; cranberry; cucurbits; hops; lettuce; pea; strawberry; blueberry<br>USA – Artichoke; Caneberry; Safflower, Apple, Pear, Cherry, Peach, Plum | Blueberry (9) –<br>Awaiting further advice<br>Artichoke (3); Caneberry (6); Safflower (4); Apple (14), Pear (6), Cherry (15), Peach (9), Plum (6)                                       | 1994                | 0.01<br>1994 | NR<br>2004   |
| Fenpropimorph (188) [BASF]<br><b>Tox in 2016</b>           | Fenpropimorph (188) [BASF] fungicide    | Banana; cereals; sugar beet; cereals fodder/straw; meat; milk; eggs<br>All CXLs supported   | Cereals (56 trials); banana (23); sugar beet (8)  | 1993                | 0.03<br>2006 | N/A          |



| TOXICOLOGY  | RESIDUE   | Commodities  | Comments  | Previous evaluation | ADI             | ARfD           |
|---|---|--|---|---------------------|-----------------|----------------|
| Fenpyroximate (193)<br>[Nihon Nohyaku]  | Fenpyroximate (193)<br>[Nihon Nohyaku]                                  | US add-ons: potato; bean (snap); melons; cucumber; stone fruit; avocado; mint, pepper; tomato; watermelon<br>Brazil – coffee, papaya   | US Data: potato (16); bean (snap) (8); melons (8); cucumber (9); cherry (8); peach (10); plum (6); avocado (5); mint (6); Pepper(16); tomato(19); watermelon (4),<br>Brazil - coffee (8), papaya(3)   | 1995                | 0.01<br>1995    | 0.02<br>2007   |
| Carbendazim<br>[Nippon Soda Co]<br>(72)<br><br>Supported<br>Scheduling subject to<br>availability of full data<br>package   | Carbendazim   | Mandarins(8), Orange (8), Hazelnut(4), Almond(5), Pecan(9), Pistachio(3), Apple(11), Pear(10), Apricot(13), Peach(9), Nectarine(2), Plum(17), Cherry(8), Strawberry(10), Grape(16), Banana(4), Potato(3), Green Onion(3), Tomato(8), Squash, summer(10), Cucumber(11), Melon(16), Watermelon(9), Brussels sprouts(4), Bean, snap(11), Bean dry(10), Soya beans(23), Canola seed(7), Barley(11), Oats(8), Wheat(11), Peanut(18)<br>India - Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), Tea - Await field trial data<br>Thailand (Mango) | Manufacturer of thiophanate-methyl will support Codex MRLs for carbendazim (72) which covers thiophanate-methyl (77).<br>all the relevant studies required to maintain the Codex MRLs for thiophanate-methyl (expressed as carbendazim) will be submitted<br>Public health concerns were lodged by the EU – see next table<br>The last periodic re-evaluation of carbendazim was in 1998.<br>Active substances benomyl and thiophanate-methyl are no longer supported by the sponsor but the CXLs for carbendazim still cover uses of these two active substances meaning that a couple of CXLs are obsolete. Moreover, the EU has a lower ARfD. Acute health risks were identified for several commodities in the 2006 CCPR. In addition, the EU received an import tolerance application for the use of carbendazim in rice and it turned out that the existing CXL for rice is based likely on an obsolete US GAP on benomyl. In this case as well an acute risk could not be excluded |                     |                 |                |
| Kresoxim-methyl (199)<br>Periodic evaluation (BASF)<br><b>RESERVE 2</b>   | Kresoxim-methyl (199)<br>Registered?<br>Yes<br>MRLs > LOQ?<br>fungicide | Citrus, pome fruits, stone fruits, strawberry, small berries, sunflower, grapes, grape leaves, dried grapes, bulb vegetables, leek, cucurbits - inedible peel, cucurbits - edible peel, wheat, barley, straw and fodder of cereals, olives, mango, pecans, beetroots, bell peppers, tomato, egg plants, animal products  | Citrus (19), pome fruits (37), stone fruits (10), strawberry (24), small berries (6), sunflower (10), grapes (12), grape leaves (16), bulb vegetables (16), leek (16), cucurbits - inedible peel (14), cucurbits - edible peel (8), wheat (20), barley (14), straw and fodder of cereals (34), olives (8), mango (4), pecans (6), beetroots (10), bell peppers (10), tomato (12)  | 1998                | 0.4<br>(1998)   | NR (1998)      |
| Methidathion (51)<br><br><b>If no support for existing CXLs, then revocation of CXLs at CCPR49. Manufacturer support from Zen Noh Chem for mango and peach scheduled for 2020</b> | Methidathion (51)<br>insecticide  | The active substance has been re-evaluated for residues (after its first inclusion in 1972) in 1992. An ARfD was derived in the toxicological re-evaluation in 1997.<br>As a consequence of this ARfD a couple of MRLs are not safe for consumers. Due to the fact that no periodic re-evaluation of residues took place in 42 years it is proposed to carry out a new evaluation.   | The JMPR has established an ADI of 0.001 mg/kg bw/d and an ARfD of 0.01 mg/kg bw/d in 1997. A risk assessment was performed using the EFSA PRIMo including all MRLs that were considered relevant for international trade. The ADI was exceeded for 25 European diets with the highest exposure representing 2392% of the ADI. Citrus fruits, olives for oil production and milk were shown to be the main contributors. Citrus fruits also exceeded the ARfD (up to 6631%). A second exposure calculation delete the existing MRLs for citrus fruits, pome fruits and sunflower seeds still showed an that the ADI for 5 European diets was exceeded (up to 301%). For further details see EFSA evaluation on the internet at <a href="http://www.efsa.europa.eu/en/efsajournal/doc/1639.pdf">http://www.efsa.europa.eu/en/efsajournal/doc/1639.pdf</a> .  | 1992                | 0.001<br>- 1997 | 0.01 -<br>1997 |

| TOXICOLOGY                             | RESIDUE             | Commodities   | Comments  | Previous evaluation          | ADI                         | ARfD                        |
|--|---------------------|---|---|------------------------------|-----------------------------|-----------------------------|
| <b>Oxamyl (126)</b><br><b>[Dupont]</b> | <b>Oxamyl (126)</b> | Potato, Root and tuber vegetables, including Carrot, Parsnips, Sugar beet, Brussels sprouts -, Citrus (mandarin) (orange), Banana, Tomato, Pepper, Aubergine, Edible-peel cucurbit (cucumbers – gherkins – courgettes, Inedible-peel cucurbit | Potato (16), Root and tuber vegetables, including Carrot, Parsnips (9), Sugar beet (19), Brussels sprouts (3 - minor crop, <LOQ residues, Citrus (8 mandarin) (8 orange), Banana (4 <LOQ residues), Tomato (22 protected), Pepper (10 protected), Aubergine (8 protected), Edible-peel cucurbit (11 cucumbers protected – gherkins – 11 courgettes protected), Inedible-peel cucurbit (8 protected) | <b>1986R</b><br><b>2002T</b> | <b>0.009</b><br><b>2002</b> | <b>0.009</b><br><b>2002</b> |

**2018 CCPR SCHEDULE OF JMPR EVALUATIONS (PROPOSED)****2018 NEW COMPOUND EVALUATIONS**

| <b>Date Stamp</b>   | <b>TOXICOLOGY</b>   | <b>RESIDUE</b>  | <b>Prioritisation criteria</b>  | <b>Commodities</b>  | <b>Residue trials provided</b>   |
|---|---|---|---|---|--|
| <b>1</b><br><b>Circa 2012</b>   | Chlorfenapyr Tox 2012                                       | Chlorfenapyr [BASF] (254)                             | Registered MRLs > LOQ ??  | Soybean, tea  | Soybean (10), tea (6)  |
| <b>2</b><br><b>6 Dec 2013</b>   | Ethiprole (999) (insecticide) [Bayer CropScience] – Germany | Ethiprole (999)                                       | Registered MRLs > LOQ   | Coffee; corn/maize; rice; soybean and food of animal origin   | Coffee (15); corn/maize (10); rice (12); soybean (10)  |
| <b>3</b><br><b>Pre 2014 [moved from 2015 at the request of manufacturer] Request by US / Japan to reschedule the residue evaluation to 2019 but keep the toxicology evaluation for 2018, if the full evaluation is not possible given the prioritization criteria</b> | Pyrifluquinazon (999) (insecticide) [Nihon Nohyaku] Japan   | Pyrifluquinazon                                       | Registered Japan; KOREA; Expected U.S. registrations by 5/22/2018 MRLs > LOQ ?? | Citrus; pome fruits; potatoes; stone fruits; grapes; tree nuts; melons; tea; grapes (table grapes, raisins, wine); fruiting vegetables, cucurbits; cotton; leafy vegetables; brassica leafy and head/stem vegetables                            | Almonds (10); pecans (10); grape (table) (24); raisin, juice (if MRL not included under table grape); plum (18); peach (24); cherry (16); apple (24); pear (12); lemon (10); grapefruits (12); oranges (24); cantaloupe (12); cucumbers (14); summer squash (10); peppers (24); tomatoes (28); cauliflower/broccoli (12); cabbage (16); potatoes (33); cotton seed (24); tea (6) and corresponding animal commodity MRLs |
| <b>4</b><br><b>27 Nov 2014</b>  | XDE-777 (999) Dow AgroSciences United Kingdom fungicide     | XDE-777 (999) Dow AgroSciences; France                | Registered - Soon MesoAndean countries (2015-6); UK (2018) MRLs > LOQ – Y       | Bananas, Wheat, triticale, rye and durum  | Banana – 8 trials, Cereals (Wheat 8 trials)  |
| <b>5</b><br><b>25 March 2015</b>  | Norflurazon USA (herbicide) (999) [TessenderloKerley Inc.]  | Norflurazon (Moved from 2016 at request of nominator) | Registered MRLs > LOQ   | Almond; apple; apricot; asparagus; avocado; blackberry; blueberry; cranberry; cherry (sweet /tart); citrus fruits group; cottonseed; grape; hazelnut; hops; nectarine; peach; peanut; pear; pecan; plums and prunes; raspberry; soybean; walnut | Almond: 7; apple: 8; apricot: 2; asparagus: 6; avocado: 3; blackberry: 1; blueberry: 6; cranberry: 5; cherry: 3; citrus fruits: 8; cottonseed: 10; filberts: 3; grapes: 14; nectarine: 2; peach: 4; peanut: 10; pear: 4; pecans: 4; plums: 6; raspberry: 6; soybeans: 22; walnuts: 2   |

| Date Stamp  | TOXICOLOGY   | RESIDUE  | Prioritisation criteria   | Commodities  | Residue trials provided  |
|---|--|--|---|--|--|
| <b>6</b><br><b>2 Sept 2015</b><br><b>[Moved from 2017 on request]</b>                   | Pydiflumetofen<br>SYN545794 (999)<br>(fungicide) Canada<br>[Syngenta]              | Pydiflumetofen<br>SYN545794<br>(999)           | Registered in<br>Argentina<br>MRL>LOQ                                   | Soybean seed; Pulses (dry beans, dry peas, lentils, chickpeas), grapes; fruiting vegetables; cucurbits; leafy vegetables; potato; corn; wheat; barley; oats, peanuts, apples, canola   | Wheat (33 trials), barley (21 trials), oats (22 trials), canola (21 trials), grapes (12 trials), apples (8 trials), dry beans (11 trials), dry peas (10 trials), fruiting vegetables (tomato (12 trials), bell and non-bell peppers (9 trials)), leafy vegetables (head and leaf lettuce (16 trials), spinach (8 trials), celery (8 trials)), cucurbits (cucumber (7 field and 3 protected), squash (6 trials), cantaloupe (6 trials)), corn (field and popcorn (23 trials), peanuts (12 trials), soybeans (21 trials), potatoes (26 trials) |
| <b>7</b><br><b>30 October 2015</b><br><b>and revised nomination form on 25 Nov 2015</b> | Fluazinam (999)<br>[ISK Biosciences; Ishihara Sangyo Kaisha]<br>USA<br>(fungicide) | Fluazinam (999)                                | Registered<br>MRLs > LOQ  | USA- Apples; Mayhaw; Brassica (Cole) Leafy Vegetables plus Turnip greens; Bushberry; Carrot; Ginseng; Lettuce, Head and Leaf; Edible-podded Legume Vegetables, Except Peas; Succulent Bean, includes Lima Bean, Except Peas; Dry Beans, Except Peas and Soybeans; Onions, Bulb; Melons; Squashes/ Cucumbers; Peppers/ Eggplants; Peanuts; Tuberous and Corm vegetables; Soybean; Wine grape; Tea | USA&CAN: Apple (20); Broccoli (13); Cabbage (20); Mustard greens (11); Blueberry (13); Carrot (13); Ginseng (5); Head lettuce (7); Leaf lettuce (7); Succulent beans (11); Lima beans (7); Dried beans (18); Onion (9); Cantaloupe (11); Cucumber (6); Summer squash (6); Bell pepper (9); Non-bell pepper (4); Peanut (10); Potato (12); Soybean (16); USA, CAN, GRC, FRA, ITA, DEU, ESP, CHL: Grape (23) JPN: Tea (5)  |
| <b>8</b><br><b>30 Oct 2015</b>  | Pyriofenone (999)<br>[IshiharaSangyoKaisha/ISK Biosciences] USA                    | Pyriofenone(999)                               | Registered in EU, JP and CA<br>MRLs > LOQ                               | USA- Berries and other small fruits; Fruiting vegetables; Mango  | USA&CAN: Grape (12); Strawberry (9); Blueberry (10); Blackberry (6); Kiwi (3); Cucumbers (9); Summer Squash (9); Cantaloupe (5); BRA: Mango (4); EU: Table and Wine Grapes (20)  |
| <b>RESERVE</b><br><b>3 Nov 2015</b>   | Tioxazafen(999)<br>[Monsanto]- USA<br>(nematicide)                                 | Tioxazafen and its metabolite benzamidine(999) | Registered? no<br>MRLs > LOQ?<br>Corn, cotton seed no, soybean seed yes | USA- Corn, cotton, soybean   | Corn (22), Cotton (13), Soybean (22)   |
| <b>RESERVE</b><br><b>4 Dec 2015</b>   | Mandestrobin (999) Canada - USA (fungicide)<br>[Sumitomo Chemical]                 | Mandestrobin                                   | Registered,<br>MRLs>LOQ   | Canola, Grape, Strawberry  | Canola (23); Grape (16); Strawberry (10)   |
| <b>Metconazole Request to reschedule from 2018 to 2019 on 22 Nov 2016</b>               |  |  |   |  |  |
| <b>April 2014 Nomination form not submitted</b>   | Tricyclazole (999)<br>India fungicide<br>Moved on request                          | Tricyclazole (999) India                       |   | Rice, cumin  | A full toxicological package will be required.   |

| Date Stamp  | TOXICOLOGY  | RESIDUE                   | Prioritisation criteria    | Commodities  | Residue trials provided   |
|---|---|---------------------------|----------------------------|--|---|
| <b>April 2014<br/>Nomination<br/>form not<br/>submitted</b> | Quinalphos (999)<br>India insecticide<br>Moved on request | Quinalphos (999)<br>India |                            | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grape, spices, Tea, dried ginger         | <b>A full toxicological package will be required.</b>   |
| <b>April 2014<br/>Nomination<br/>form not<br/>submitted</b> | Ethion (34) India   | Ethion (34) India         | Registered Y<br>MRLs > LOQ | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes, tea<br>Curry leaves, Dry chilli, | COMMENT: This compound was removed from the Pesticide List (36-85) and all CXLs revoked.<br><b>A full toxicological package will be required.</b><br>One existing spice CXL |
| <b>April 2014<br/>Nomination<br/>form not<br/>submitted</b> | Hexaconazole<br>(170)<br>India                            | Hexaconazole<br>(170)     | Registered Y<br>MRLs > LOQ | India Tea, fennel, fenugreek, ginger, dried chilli   | COMMENT: This compound was removed from the Pesticide List in 1978 and all CXLs revoked.<br><b>A full toxicological package will be required.</b>                           |
| <b>April 2015<br/>Nomination<br/>form not<br/>submitted</b> | Iprobenfos (999)<br>India                                 | Iprobenfos (999)          |                            | Dried ginger   | <b>A full toxicological package will be required.</b>   |

## 2018 NEW USES AND OTHER EVALUATIONS

| DATE   | TOXICOLOGY | RESIDUE                               | Commodities   | Residue trials provided   |
|--|------------|---------------------------------------|---|---|
| <b>Priority 1<br/>30/09/2016</b>   |            | Abamectin [Syngenta] (177)            | <b>CANE BERRY, SWEETCORN, GREEN ONION, BEANS - SHELLLED, SOYBEAN, PINEAPPLE<br/>GRAPE, MANDARIN (THAILAND)<br/>SPINACH (ALTERNATIVE GAP)</b>  | Caneberry (7), sweetcorn (12), green onions (5), lima bean (7), soybean (20), pineapple (8), grape (13)   |
| <b>Priority 1<br/>01/01/17</b>   |            | Bentazone [BASF] (172)                | <b>FIELD PEA (USA) - 4 year rule granted in 2014</b>  |   |
|  |            | Bifenthrin [FMC] (178)                | Barley; barley (straw fodder); - 4 year rule granted in 2014<br>strawberry, mango<br>Lettuce head, celery (alternative GAP)   |   |
| <b>Priority 1<br/>24/10/2015</b>   |            | Cyantraniliprole [DuPont] USA         | <b>USA- FRUITING VEGETABLES, OTHER THAN CUCURBITS (EXCEPT SWEETCORN); GRAPES; STRAWBERRIES; CUCURBIT VEGETABLES (GREENHOUSE); OLIVES; ARTICHOKE, GLOBE; MANGOS; CRANBERRIES; RICE</b> | [fruiting vegetables - tomatoes (19), peppers (24)]; grapes (18); strawberries (29); [cucurbit vegetables (greenhouse cucumbers) (5)]; olives (9); artichokes, Globe (5); mangos (8); cranberries (6); rice (6) |
| <b>Priority 1<br/>30/11/2016</b>   |            | Cyazofamid [ISK Biosciences] USA      | <b>USA- HERBS, BULB VEGETABLES</b>  | USA- Fresh Chive (9); Dried Chive (5) Green Onions (5); Dry Bulb Onions (10)  |
| <b>Priority 1<br/>30/09/2016</b>   |            | Diquat [Syngenta] (031)               | <b>CEREALS—WHEAT, BARLEY, OAT (AUSTRALIA); PULSE (CANADA)—4 YEAR RULE (2014)</b>  | <b>Dry peas (8 trials), dry beans (10 trials), lentils (8 trials), chickpeas (9 trials)</b>   |
| <b>Priority 1<br/>20 April 2015<br/>Moved from<br/>2017 on<br/>request</b> |            | Fenamidone (264) [Bayer CropSciences] | <b>MUSTARD GREEN, SPINACH – ALTERNATIVE GAP</b>   |   |

| DATE   | TOXICOLOGY  | RESIDUE   | Commodities   | Residue trials provided   |
|--|---|---|---|---|
| <b>Priority 1<br/>16 Nov 2016</b>                                    |   | Fluazifop-p-butyl (999) (herbicide) [Syngenta] USA  | BLUEBERRY; CANEBERRY; LETTUCE; STRAWBERRY; ONION; MUSTARD GREENS; PAPAYA  | Blueberry (9); Caneberry (6); Lettuce (26); Strawberry (6); Onion, green (4); Mustard Greens (12); papaya (8)   |
| <b>Priority 1<br/>30/09/2016</b>                                     |   | Fludioxonil [Syngenta]  | CARROTS, CELERY, GUAVA, PINEAPPLE, KALE, POMEGRANATE<br>DRY PEAS (CANADA)   | Carrots (4), celery (8), guava (5), pineapple (4), mustard green (7), cabbage (6), broccoli (6), pomegranate (4)<br>Dry peas (8 trials)   |
|  |   | Fluensulfone (265) [Adama]  | cereal, tree nut, stone fruit, pome fruit, corn, guava, cotton  | Cereal (56), tree nut (10), stone fruit (21), pome fruit (26), corn (21), guava (4), cotton (4)   |
| <b>Priority 1<br/>Moved from 2017 on request<br/>01/01/17</b>        |   | Fluxapyroxad (256) [BASF]   | CITRUS, COFFEE  | Citrus (13)   |
| <b>Priority 1<br/>30/11/2016</b>                                     |   | Isofetamid [IshiharaSangyoKaisha] USA   | USA- POME FRUITS; STONE FRUITS; BERRIES AND OTHER SMALL FRUITS; LEGUME VEGETABLES; PULSES; SOYBEAN  | USA&CAN: Apple (20); Pear (10); Peach (13); Plum (9); Cherry (15); Blueberry (10); Raspberry (5); Kiwi (3); Dry pea (11); Dry bean (15); Succulent pea (10); Succulent bean (13); BRA: Soybean (4)  |
|  | Isoprothiolane (999) LATAM fungicide Nihon Nohyaku  | Isoprothiolane (999) LATAM  | banana  | Banana (16)   |
| <b>Priority 1<br/>11 June 2015<br/>Moved from 2017</b>               |   | Isoxaflutole [Bayer CropScience] (268)  | SOYA BEAN (LABEL REVIEW)  |   |
| <b>Priority 1<br/>30/09/2016</b>                                     |   | Lufenuron [Syngenta]  | CITRUS, COFFEE, CORN, APPLE<br>CARAMBOLA (MALAYSIA) [LABEL SUBMITTED]   | citrus (12), coffee (7), corn (4), Carambola (4)  |
| <b>Priority 1<br/>16 Nov 2016</b>                                    |   | Mandipropamid [Syngenta]  | COCOA, POTATO   | Cocoa (8), potato (26)  |
| <b>Priority 1<br/>30/09/2016</b>                                     |   | Metalaxyl-M [Syngenta] (212)  | COCOA BEANS (4 YEAR RULE GRANTED IN 2014),<br>REPUBLIC OF KOREA (GINSENG)   | Syngenta Cocoa (8)<br>Korea Ginseng (4)   |
| <b>Priority 1<br/>9 Nov 2016</b>                                     |   | Oxathiapiprolone (999) [Syngenta]   | DUPONT: POPPY, HOPS, SUNFLOWER, SOYBEAN<br>SYNGENTA – POTATO, CITRUS (BOTH SOIL USES);<br>SYNGENTA/IR-4: ASPARAGUS, CANEBERRY,<br>MUSTARD GREENS, BASIL,  | DuPont: poppy (5), hops (5), sunflower (8), soybean (8)<br>Potato (16), Citrus (12 orange, 6 grapefruit, 5 lemon);<br>Syngenta/IR-4: asparagus (10), caneberry (5), mustard greens (10), basil (8)  |
|  | Moved from 2017   | Penthiopyrad (253) USA  | USA – Blueberry; Caneberry  | Blueberry (9) and Cranberry (7)   |
| <b>Priority 1<br/>28 Nov 2016<br/>Moved from 2017<br/>on request</b> | Pyraclostrobin (210) [BASF]<br>Partly applicable: Evaluation of metabolite data being relevant for new uses | Pyraclostrobin (210) Registered? Yes<br>MRLs > LOQ?<br>Yes - all commodities listed for evaluation: | POME FRUITS, OLIVES, PERSIMMON, TROPICAL FRUITS (MANGO, PAPAYA, PASSION FRUIT, PINE APPLE), LEEK, BRASSICA VEGETABLES, FRUITING VEGETABLES, CORN SALAD (LAMB'S LETTUCE), SPINACH, LEGUME VEGETABLES (BEANS AND PEAS), ROOT AND TUBER VEGETABLES, STEM VEGETABLES, RICE, SUGAR CANE, PEANUTS, CACAO, COFFEE, TEA | Pome fruits (8), olives (12), persimmon (3), tropical fruits (mango (8), papaya (4), passion fruit (8), pine apple (8)), leek (8), brassica vegetables (20), fruiting vegetables (15), corn salad (lamb's lettuce) (4), spinach (extrapolation from lettuce, head (29)), legume vegetables (beans and peas) (43), root and tuber vegetables (46), stem vegetables (33), rice (about 20), sugar cane (48), peanuts (31), cacao (4), coffee (7), tea (8 - 10) |

| DATE                              | TOXICOLOGY  | RESIDUE   | Commodities  | Residue trials provided   |
|-----------------------------------|---|---|--|---|
|                                   | [Valent USA Corporation; subsidiary of Sumitomo Chemical Co., Ltd.] - USA                     | Pyriproxyfen (200) - Costa Rica (from 2016 on request)                                  | Costa Rica: banana; Philippines: papaya; Malaysia/Singapore: mango; Panama: pineapple<br>USA- Cucurbit vegetables<br>Canada - Greenhouse tomatoes, and greenhouse bell peppers                       | Summer Squash (6), Cucumber (6), Cantaloupe (7)<br>Greenhouse tomatoes (11), greenhouse bell peppers (8)<br>Banana (12), papaya (6), mango (6), pineapple (6) |
| <b>Priority 1<br/>28 Nov 2016</b> |   | Profenofos (171) Brazil<br>Syngenta   | <b>COFFEE – REGISTERED IN BRAZIL</b>   | Syngenta Coffee (7)   |
|                                   |   | Propamocarb (148)<br>[Bayer CropSciences]   | Feeding studies  |   |
|                                   | Sulfoxaflor (252)<br>[Dow AgroSciences]<br>USA - Re-evaluation of developmental tox, new data | Sulfoxaflor [Dow AgroSciences] USA<br>Request for new MRLs, based upon new residue data | Kenya, Tanzania, Uganda: passion fruit; Ghana and Senegal: mango   | Passion fruit (6); mango (6)  |
| <b>Priority 1<br/>30/09/2016</b>  |   | Trinexapac [Syngenta]   | <b>RICE, RYE</b>   | Rice (16), rye (extrapolation from wheat barley)  |
| <b>11 June 2015</b>               |   | Acephate (95) India   | Rice, grapes, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum)<br>Curry leaves, Dry chilli, Cumin, Fennel, fenugreek, dry ginger | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2018  |
| <b>11 June 2015</b>               |   | Acetamiprid (246) India   | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes, Cumin  | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2018  |
| <b>11 June 2015</b>               |   | Bifenthrin (178) India  | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes, tea, Curry leaves  | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2018  |
| <b>11 June 2015</b>               |   | Carbendazim (72) India  | Dried ginger, dried chilli, cumin  |   |
| <b>11 June 2015</b>               | EU (tox)  | Lambda-cyhalothrin (146) India  | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes, Tea, cumin   | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED<br>PROCEED WITH TOX REVIEW ONLY                                       |
| <b>11 June 2015</b>               |   | Chlorpyrifos (017) India  | fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), rice, grapes<br>Curry leaves, Dry chilli, Cumin, Fennel, fenugreek, dry ginger | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2018  |
| <b>11 June 2015</b>               |   | Clofenapyr (254) India  | Dried chilli   |   |
| <b>11 June 2015</b>               |   | Clothianidin (238) India  | Cumin  |   |
| <b>11 June 2015</b>               |   | Cypermethrin (118) India  | Curry leaves, Dry chilli,  |   |
| <b>11 June 2015</b>               |   | Deltamethrin (35) India   | Dried chilli   |   |

| <b>DATE</b>                                   | <b>TOXICOLOGY</b>        | <b>RESIDUE</b>            | <b>Commodities</b>   | <b>Residue trials provided</b>   |
|---|--------------------------|---------------------------|--|--|
| <b>11 June 2015</b>                           | Moved on request         | Diazinon (22) India       | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes   | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2018 |
| <b>11 June 2015</b>                           |                          | Dicofol (26) India        | Black pepper, fennel, fenugreek  |  |
| <b>11 June 2015</b>                           |                          | Dimethoate (27) India     | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes, Tea  | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2018 |
| <b>11 June 2015</b>                           |                          | Fenprothrin (185)         | Dried chilli, cumin  |  |
| <b>11 June 2015</b>                           |                          | Imidacloprid (206) India  | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes,  | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2018 |
| <b>11 June 2015</b>                           |                          | Metalaxyl (138) India     | Dried ginger   |  |
| <b>11 June 2015</b>                           |                          | Methomyl (94) India       | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes   | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2018 |
| <b>11 June 2015</b>                           |                          | Parathion (59) India      | Curry leaves   |  |
| <b>11 June 2015</b>                           |                          | Phosalone (60) India      | Cardamom, dried chilli   |  |
| <b>11 June 2015</b>                           |                          | Phorate (112) India       | Dried ginger, cumin  |  |
| <b>11 June 2015</b>                           |                          | Profenofos (171) India    | fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), Tea, curry leaves, dried chilli, cumin, cardamom, fennel, fenugreek, black pepper, ginger powder | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2018 |
| <b>11 June 2015</b>                           |                          | Propiconazole (160) India | Fennel, fenugreek  |  |
| <b>11 June 2015</b>                           |                          | Thiamethoxam (245) India  | Cumin  |  |
| <b>11 June 2015</b>                           |                          | Triazophos (143) India    | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes<br>Curry leaves, Dry chilli, Cumin, Fennel, fenugreek, dry ginger                   | Await field trial information<br>NO LABEL OR EVIDENCE OF NATIONAL REGISTRATION PROVIDED – DEFERRED TO 2018 |
| <b>11 June 2016<br/>Evaluated in<br/>2016</b> | Spiromesifen (999) India | Spiromesifen (999) India  | Rice, fresh vegetables (cabbage, cauliflower, okra, green chilli, green pea, bitter gourd, cucumber, brinjal and capsicum), grapes, tea  | Await field trial information  |



## 2018 PERIODIC REVIEW

| TOXICOLOGY   | RESIDUE             | Commodities  | Comments   | Previous evaluation | ADI         | ARfD      |
|--|---------------------|--|--|---------------------|-------------|-----------|
| Bromopropylate (70)<br><br><b>Not supported by the manufacturer</b><br><br>Concern Form lodged | Bromopropylate (70) | The active substance was first included in 1973 and re-evaluated in 1993, but not since. In the evaluation of 1993 an ADI was set at 0.03 mg/kg bw/d but no ARfD. Since no ARfD was ever set and data for evaluation are missing (supervised field trials, processing studies), the MRLs should be re-evaluated after 41 years   | Since in 1993 it was not yet common practice to set an ARfD, EFSA used the ADI to assess the acute effects in the short term intake. A risk assessment was performed using the EFSA PRIMo including the existing CXLs for citrus fruits, pome fruits and grapes. The highest chronic exposure was calculated for the German child, representing 124% of the ADI. Since there were no supervised field trials complying with the critical GAP or reliable processing studies, the intake could not be further refined. The acute intake assessment (using the ADI-value) shows exceedance of the toxicological reference value for citrus fruits (884% for oranges, 594% for grapefruit, 371% for mandarins, 230% for lemons, and 134% for limes), pome fruits (653% for apples, 607% for pears), table grapes (437%) and wine grapes (158%). For further details see EFSA evaluation on the internet at <a href="http://www.efsa.europa.eu/en/efsajournal/doc/1640.pdf">http://www.efsa.europa.eu/en/efsajournal/doc/1640.pdf</a> .  | 1993                | 0.03 - 1993 | N/A       |
| Flumethrin (195) [Bayer CropScience]   | Flumethrin (195)    | Cattle milk; cattle meat   |  | 1996                | 0.004, 1996 | N/A       |
| Imazalil (110) [Janssen] First reserve for 2017  | Imazalil (110)      | Support / Retain: Banana, Citrus fruits (Grapefruit, oranges, lemons, limes mandarins), Cucumber, Melons, except watermelons, Pome fruits (Apples, pear), Potato, Wheat, Wheat straw & fodder, dry<br><br>Add<br>Gerkin, Courgette (zucchini), Barley, Maize, Millet, Oats, Rye, Sorghum, Barley straw fodder dry, tomato<br><br>Not supported<br>Persimmon, Raspberry, Strawberry | Pome fruit: 39, Banana: 8, Cereal (seed treatment): 8, Citrus: 36, Cucurbits (edible peel plus melon): 17, Potatoes: 24, Tomatoes: 10<br>EU – public health concerns - <i>The active substance has not been re-evaluated for residues since it was included the first time in 1977. Toxicological re-evaluation was done in 2000 and an ARfD was derived in 2005. (see CX/PR 12/44/14-Add.1 March 2012)</i><br><i>As a consequence of this ARfD a couple of MRLs are not safe for consumers. Due to the fact that no periodic re-evaluation of residue took place since 35 years all MRLs should be reviewed.</i> From EFSA evaluation an ADI of 0,025 mg/kg bw and an ARfD of 0.05 mg/kg bw was derived in 2010. This is in line with the current JMPR values of 0.03 mg/kg bw (ADI, 2001) and 0.05 mg/kg bw (ARfD, 2005).<br>A risk assessment was performed using the EFSA PRIMo including the current CXLs for banana, citrus fruit, cucumber, gherkins, melons exc. watermelons, Japanese persimmons, pome fruit, potato, raspberries, strawberries and wheat. Due to the rather old residue evaluation a refinement using HR and STMR values was impossible.<br>Distribution between pulp and peel was not taken into account.<br>As can be seen from this rather rough estimation ADI is exceed for a couple of WHO clusters, i. e. cluster B, E, F, D, with residues in potatoes account for a major part of the residues. It can also be stated that for European consumers children are most likely at risk.<br>For European consumers the ARfD is exceeded for potatoes, pome fruit, Japanese persimmon as well as for citrus fruit, banana and melons, not taking into account distribution between peel and pulp. Changing the variability factor to 3 as used by JMPR will change the outcome of the assessment dramatically. Potatoes, pome fruits as well as citrus fruit, bananas and melons, not taking into account distribution between peel and pulp are still exceeding the ARfD.<br><b>Await advice from JMPR on public health concerns</b> | 1994R, 2005T        | 0.03 2001   | 0.05 2005 |

| TOXICOLOGY  | RESIDUE                | Commodities   | Comments  | Previous evaluation | ADI          | ARfD       |
|---|------------------------|---|---|---------------------|--------------|------------|
| Metalaxyl (138)<br>Quimicas del Vallés - SCC GmbH | Metalaxyl (138)        | Review in 2004 for residues was for evaluation of metalaxyl-M; support from Quimicas del Vallés - SCC GmbH; USA – Grapes; tomatoes; potatos; lettuce; oranges; strawberries; broccoli; cauliflower; head cabbage; onion<br>Supervised trials by Thailand – pineapples | Grapes (21); tomatoes (20); potatos (16); lettuce (10); oranges (4); strawberries (8); broccoli (8); cauliflower (4); head cabbage (4); onion (8)<br>Thailand has agreed to provide field trials – pineapples | 2004                | 0.08<br>2004 | NR<br>2004 |
| Tolclofos-methyl (191) [Sumitomo Chemical]        | Tolclofos-methyl (191) | Lettuce head; lettuce leaf; potato; radish  | Await advice – moved from 2017 on request   | 1994                | 0.07<br>1994 | N/A        |

TABLE 1: CCPR PRIORITY LISTS OF PESTICIDES (NEW COMPOUNDS, NEW USES AND OTHER EVALUATIONS)

## 2019 NEW COMPOUND EVALUATIONS

| Date Stamp  | TOXICOLOGY  | RESIDUE                | Prioritisation criteria   | Commodities  | Residue trials provided   |
|---|---|------------------------|---|--|---|
| <b>Pre 2014</b><br><b>[moved from 2015 at the request of manufacturer]</b><br><b>Request by US / Japan to reschedule the residue evaluation to 2019 but keep the toxicology evaluation for 2018, if the full evaluation is not possible given the prioritization criteria</b> | Pyriproxyfen (999)<br>(insecticide)<br>[Nihon Nohyaku]<br>Japan                                     | Pyriproxyfen           | Registered Japan; KOREA; Expected U.S. registrations by 5/22/2018<br><br>MRLs > LOQ ??                                      | Citrus; pome fruits; potatoes; stone fruits; grapes; tree nuts; melons; tea; grapes (table grapes, raisins, wine); fruiting vegetables, cucurbits; cotton; leafy vegetables; brassica leafy and head/stem vegetables                 | Almonds (10); pecans (10); grape (table) (24); raisin, juice (if MRL not included under table grape); plum (18); peach (24); cherry (16); apple (24); pear (12); lemon (10); grapefruits (12); oranges (24); cantaloupe (12); cucumbers (14); summer squash (10); peppers (24); tomatoes (28); cauliflower/broccoli (12); cabbage (16); potatoes (33); cotton seed (24); tea (6) and corresponding animal commodity MRLs  |
| <b>5 April 2015</b><br><b>Not confirmed</b>   | SYN546330<br>[Syngenta]<br>(insecticide)<br><b>5 April 2016</b>                                     | SYN546330              | Registered? No<br>MRLs > LOQ?<br>Yes  | Soybean dry, Pome fruit, Citrus, Cotton, Fruiting vegetables, Cucurbits, Okra  | Soybean dry (8), Pome fruit (8), Citrus (16), Cotton (4), Fruiting vegetables (Tomato 13, Pepper 13), Cucurbits (Cucumber 8, Melon 8), Okra (8)   |
| <b>4 Dec 2015</b><br><b>Not confirmed</b>   | Broflanilide(999)<br>(insecticide)<br>[Landis International on behalf of Mitsui Chemicals]<br>[USA] | Broflanilide (999)     | Registered? No (first registration expected in 2019)<br>MRLs > LOQ?<br>Yes, for majority of crops and food of animal origin | USA- Brassica vegetables; Fruiting vegetables; Leafy vegetables; Legume vegetables; Pulses; Root vegetables  | Brassica vegetables (35 + 16 trials), Fruiting vegetables(35 trials), Leafy vegetables (35 + 10 trials), Soybean with pod (3 trials), Pulses: Soybeans (31trials), dry beans (7 trials), Root vegetables: Potatoes (25 trials), radishes (6 trials), sweet potato(6 trials), turnip(3 trials), Stalk / stem vegetables: Leek (3 trials), green onion (3 trials), Cereals: Grain/Hay/Straw/Fodder (50 trials); Sugarcane (6 trials); Coffee (9 trials), Tea (6 trials), Feeding studies in cow and hen |
| <b>4 Dec 2015</b><br><b>Not confirmed</b>   | BAS 750 F (fungicide) (999)<br>[USA]<br><b>4 Dec 2015</b>   | BAS 750 F [BASF] (999) | Registered? NO<br>MRLs > LOQ? YES   | USA- wheat, field corn, rice, sorghum, barley, sweet corn, dried beans, succulent beans, dried peas, succulent peas, lentils, soybean, sugar beet, peanut, canola, apple, pear, almond, pecan, pistachio, cherry, peach, plum, grape | US- Wheat, 25 (US/CA), 16 (EU); Field corn, 16; Rice, 12; Sorghum, 9; Barley, 16 (US/CA), 16 (EU); Sweet corn, 12; dried bean, 10; dry pea, 9; succulent pea, 9; lentil, 8; soybean, 20; sugar beet, 15; peanut, 12; canola, 13; apple, 15; pear, 10; almond, 5; pecan, 5; pistachio, 3; cherry, 8; peach, 12; plum, 8; grape, 13   |

| Date Stamp   | TOXICOLOGY   | RESIDUE                                     | Prioritisation criteria             | Commodities  | Residue trials provided  |
|--|--|---|-------------------------------------|--|--|
| <b>4 Dec 2015</b><br><b>Not confirmed</b>  | Afidopyrophen (999)<br>[Meiji SeikaPharma/BASF] [USA] (insecticide)<br><b>4 Dec 2015</b>         | Afidopyrophen [BASF] (999)                  | Registered? n<br>MRLs>LOQ? y        | USA- Citrus fruits, Pome fruits, Stone fruits, Brassica (Head, flowering), Fruiting vegetables (tomatoes, peppers), Fruiting vegetables (Cucurbits), Leafy (head, leafy lettuce, spinach), Brassica, leafy (Mustard greens), Soybeans, Potatoes, Celery, Tree nuts, Cotton   | Citrus (lemon, 8; oranges, 12; grapefruit, 6); pome fruit (apple, 15; pear, 9); stone fruit (peaches, 13; plum, 10; cherry, 8); Brassica (head cabbage, 10; broccoli, 10); cucurbits (cucumber, 9; cantaloupe, 8, squash, 10); fruiting vegetables (tomatoes, 20; sweet bell peppers, 7; nonbell peppers, 3); leafy lettuce (8); head lettuce (9); spinach (9); mustard greens (8); soybean (20); potato (20); celery (10); tree nuts (almonds, 5; pecans, 5; pistachios, 3); cotton |
| <b>4 Dec 2015</b><br><b>Priority 1</b><br><b>22 Nov 2016</b><br><b>Request to reschedule from 2018 to 2019</b> | Metconazole (999)<br>[Valent USA Corporation, on behalf of Kureha Corporation Japan] (fungicide) | Metaconazole [Valent USA Corporation] (999) | Registered US<br>MRLs > LOQ         | USA- Stone fruit group; Blueberry; Banana; Garlic; Onion, Bulb; Legume vegetables; Pulses; Soya bean; Root and tuber vegetables <sup>1</sup> (except Sugar beet (root)); Sugar beet (roots); Barley; Maize; Oats; Rye; Triticale; Wheat; Sugar cane; Tree nuts; Oilseed (except Cotton seed, Peanuts, Soya bean and Sunflower)**; Cotton seed; Peanuts; Sunflower seed; Meat (from mammals other than marine mammals); Mammalian fats (except milk fats); Edible offal (Mammalian); Milks; Poultry meat; Poultry fats; Poultry, Edible offal; Egg; Peanut oil, crude | USA- Banana (12), barley grain (28), blueberry (11), cotton seed (12), corn/maize (20), sweet corn (12), tree nuts (10), peanuts (14), soya bean (30), stone fruits (22), sugar beet roots (12), sugarcane cane (8), sunflower (12), oats (12), rape oilseed (16), dried shelled peas pulses (15), dry beans (19), triticale wheat (31), potato (32), fresh legumes, peas without pod (13), onion (4), garlic (3)  |
| <b>19 April 2016</b><br><b>Priority 1</b>  | Triflumuron [Bayer]  | Triflumuron [Bayer]                         | Registered Y                        | Soybean  |  |
| 30 Nov 2016  | Orthosulfamuron (999) (herbicide)<br>[Nihon Nohyaku Co., Ltd.] US, Brazil                        | Orthosulfamuron                             | Registered US, Brazil<br>MRLs > LOQ | Rice (US, Brazil); Sugarcane (Brazil)  | Rice (16 US, 4 Brazil); Sugarcane (8 Brazil)   |
| 28 Nov 2016  | Pyflubumide (999)<br><br>(insecticide)<br><br>[Nihon Nohyaku Co., Ltd.]<br><br>Japan             | Pyflubumide                                 | Registered<br><br>Japan MRLs > LOQ  | Tea  | Tea (6)  |

## 2019 NEW USES AND OTHER EVALUATIONS

| Date Stamp   | TOXICOLOGY   | RESIDUE   | Commodities   | Residue trials provided   |
|--|--|---|---|---|
| 23 Nov /2016   |  | Acetochlor (280)<br>[Monsanto Co.]  | Soya bean   | Soybean (21)  |
| 30/09/2016<br>Syngenta<br>requested<br>move from<br>2018 |  | Benzovindiflupyr<br>(261) [Syngenta]  | Blueberry, onion (dry), onion (green), sugar cane   | Blueberry, onion (dry and green) (14), sugar cane (8)   |
| 30 Nov 2016  | Boscalid<br>Evaluation of<br>metabolite data<br>being relevant<br>for new uses | Boscalid (221)<br>[BASF]  | Registered? Yes<br>MRLs > LOQ?<br>Yes - all commodities listed for evaluation:<br>POME FRUITS, TROPICAL FRUITS (AVOCADO, MANGO,<br>PAPAYA, POMEGRANATE), CUCURBITS, SUGAR CANE,<br>TEA, HERBAL INFUSIONS (GINSENG)POME FRUITS,<br>TROPICAL FRUITS (AVOCADO, MANGO, PAPAYA,<br>POMEGRANATE), CUCURBITS, SUGAR CANE, TEA,<br>HERBAL INFUSIONS (GINSENG) | Pome fruits (54 field and 6 postharvest trials), cherry (55),<br>tropical fruits (avocado (7) mango (9)), berries (strawberry (54<br>field and 31 greenhouse trials), raspberry (37), blackberry (4),<br>blueberry (20)), cucurbits edible peel (22 greenhouse and 35<br>field trials), cucurbits inedible peel (54 field and 6 greenhouse<br>trials), ginseng (extrapolation from carrot, 8 field trials), tea (8) |
| 18 July 2016   |  | Chlorantraniliprole<br>(230) [Dupont]   | PALM OIL (MALAYSIA) LABEL PROVIDED ON 18 JULY<br>2016   | Palm oil (8)  |
| 30/09/2016<br>Syngenta<br>requested<br>move from<br>2018 | Chlorothalonil<br>(81); (fungicide)<br>[Syngenta]                              | Chlorothalonil (81);<br>[Syngenta]  | orange; lemon; grapefruit; lettuce; strawberry; almond; radish<br>(root veg); mustard greens; guava; lychee,<br>usa- cranberry (under the 4 year rule).   | Orange (12), Lemon (5), Grapefruit (6), Lettuce (13), Strawberry<br>(8), Almond (5) radish (7); mustard greens (9); guava (5); lychee<br>(4) cranberry (5)  |
| 1 July 2016  |  | Clofentezine (156)<br>[ADAMA]   | Hops (IR4)  | Hops (5)  |
| 22 Nov 2016  |  | Cyclaniliprole<br>[Ishihara Sangyo<br>Kaisha]<br>USA<br>(Cpd no. not<br>assigned yet) | Berries and other small fruits, Citrus Fruits, Root and tuber<br>vegetables   | Blueberry (10), Raspberry (5), Strawberry (9), Kiwi (3), Orange<br>(12), Grapefruit (6), Lemon (5), Potato (25)   |
| 2015   |  | Chlorpyrifos-methyl<br>(90) [Dow<br>AgroSciences]<br>Australia                        | WHEAT, BARLEY, SORGHUM 4 YEAR RULE from 2015  |   |
|  |  | Cypermethrins<br>(118) [BASF], [FMC]  | Public health concerns - acute dietary risk– Netherlands –<br>check uses for peach based on existing residue data and<br>labels; Republic of Korea (ginseng)  | Ginseng (4)   |
| 23 Nov 2016  |  | Fenpyroximate<br>(193)<br>(acaricide)<br>[Nihon Nohyaku<br>Co., Ltd.] USA             | Citrus; Banana; Celery; Caneberry; Summer squash;<br>Watermelon   | Citrus (24 US) [Orange (13 US), Grapefruit (6 US), Lemon (5<br>US)]; (Banana (5 US); Caneberry (7 US) [Blackberry (3 US)<br>Raspberry (4 US)]; Celery (8 US); Summer Squash (5 US);<br>Watermelon (4 US)  |

| Date Stamp  | TOXICOLOGY | RESIDUE  | Commodities  | Residue trials provided  |
|---|------------|--|--|--|
| 28 Nov 2016   |            | Fluazifop-p-butyl (999) (herbicide) [Syngenta] USA                       | Blueberry; Caneberry; Lettuce; Strawberry; Onion; Mustard Greens; papaya   | Blueberry (9); Caneberry (6); Lettuce (26); Strawberry (6); Onion, green (4); Mustard Greens (12); papaya (8)  |
| 20 Apr 2016   |            | Fluensulfone (265) [ADAMA]   | Grapes, peanuts  | Grapes (12), peanuts (12)  |
| 25 Nov 2016   |            | Flupyradifurone [Bayer] (285)  | BLACKBERRY, RASPBERRY, AVOCADO, POMEGRANATE, HOP, COCOA AND COFFEE   | Blackberry (4), raspberry (7), avocado (4), pomegranate (4), hop (11+2p), cocoa (9+2P) and coffee  |
| 8 Dec 2016  |            | Fosetyl-AI [Bayer] (999)   | PEACH, BLACKBERRY, RASPBERRY, BLUEBERRY, CRANBERRY, KIWI, CABBAGE, BROCCOLI, CAULIFLOWER, GREEN MUSTARD, KALE, CELERY, CHICORY WITLOOF, COFFEE, SPICES   | Peach (9), blackberry (12), raspberry (6), blueberry (3), cranberry (5), kiwi (8), cabbage (28), broccoli (10), cauliflower (15), green mustard (14), kale (4), celery (5), chicory witloof (8), coffee (5), spices (7)  |
| 30/09/2016<br>Syngenta requested move from 2018   |            | Lambda-cyhalothrin (146) [Syngenta]                                      | pineapple  | Pineapple 8  |
| 1 Dec 2016  |            | Mandestrobin Canada (999)  | STRAWBERRY, GRAPE, CANOLA  | Strawberry (10), grape (16), canola (23)   |
| Priority 1<br>30/09/2016<br>Syngenta requested move from 2018   |            | Mesotrione [Syngenta]  | CITRUS, POME FRUIT, STONE FRUIT, TREE NUTS   | Citrus – orange, grapefruit, lemon (23), Pome fruit – apple, pear (18), Stone fruit – cherry, peach, plum (21), Tree nuts – almond, pecan (10)   |
| 21 Nov /2016  |            | S-Methoprene Wellmark International                                      | Peanuts<br>- EPA Reg. No. 2724-442   | Peanuts (1) - (4 farm sites, 5 different peanut varieties)   |
| 6 Dec 2016  |            | Pendimethalin (292) (herbicide) [BASF] – USA                             | Cane berries (FB 2005), Bush berries (FB 2006),  | Raspberry (3), Blackberry (4), Blueberry (7), Strawberry (8), Mint (4)   |
| 22 Nov 2016   |            | Pyriofenone [Ishihara Sangyo Kaisha] USA (Cpd no. not assigned yet)      | Fruiting vegetables, other than Cucurbits  | Tomato (23), Bell pepper (9), Non-bell pepper (3)  |
| 23 Nov 2016<br>Request by US to reschedule the residue evaluation currently schedule for the 2018 new compound evaluation to 2019 |            | Pyrifluquinazon (999) (insecticide) [Nihon Nohyaku Co., Ltd.] USA, Japan | Citrus; pome fruits; potatoes; stone fruits; grapes; tree nuts; melons; tea; grapes (table grapes, raisins, wine); fruiting vegetables, cucurbits; cotton; leafy vegetables; brassica leafy and head/stem vegetables (US); Tea (Japan) | Almonds (5); pecans (5); grape (table) (12); raisin, juice (if MRL not included under table grape); plum (6); peach (9); cherry (6); apple (12); pear (6); lemon (5); grapefruits (6); oranges (12); cantaloupe (6); cucumbers (6); summer squash (5); peppers (12); tomatoes (8); leaf lettuce (7); head lettuce (7); celery (8); spinach (7); cauliflower (6); cabbage (8); mustard greens (5); potatoes (16); cotton seed (12); tea (6) and corresponding animal commodity MRLs |

| Date Stamp               | TOXICOLOGY | RESIDUE   | Commodities  | Residue trials provided  |
|--------------------------|------------|---|--|--|
| 1 July 2016              |            | Spirotetramat (234)<br>[Bayer]  | Strawberry; carrot; sugarbeet  | Strawberry (10); carrot (24); sugarbeet (19)   |
| 1 July 2016              |            | Thiamethoxam(245)<br>[Syngenta]   | Persimmon (Korea); Rice [Syngenta]   | Persimmon (6); Rice (8)  |
| 25 Nov 2016              |            | Tebuconazole<br>[Bayer] (189)   | CITRUS   | 4 trials orange, 4 trials mandarin, 3 processing trials (orange)   |
| Priority 1<br>30/09/2016 |            | Thiabendazole<br>[Syngenta]   | LEGUMES AND PULSES   | Legumes and pulses (48)  |
| 23 Nov 2016              |            | Tolfenpyrad (269)<br>(insecticide)<br>[Nihon Nohyaku<br>Co., Ltd.]<br>USA | Pome fruit; Cucurbits; Fruiting veg.; Brassica; Citrus;<br>Avocado; Onion; Blueberry; Strawberry; Caneberry;<br>Greenhouse Tomato; Greenhouse Cucumber | Apples (16); Cucumbers (6); Cantaloupe (6); Summer Squash<br>(5); Tomatoes (12); Peppers (9); Cauliflower (6); Cabbage (6);<br>Mustard Greens (5); Orange (12); Lemon (5); Grapefruit (6);<br>Avocado (5); Onion (10); Blueberry (11); Strawberry (8);<br>Caneberry (6); Greenhouse tomato (4); Greenhouse cucumber<br>(4) |

## 2020 NEW COMPOUND EVALUATIONS

| Date Stamp                   | TOXICOLOGY   | RESIDUE                                     | Prioritisation criteria                     | Commodities  | Residue trials provided  |
|------------------------------|--|---|---|--|--|
| 8 Sept 2016<br>Not confirmed | SYN407 (999)<br>(insecticide)<br>[Syngenta]              | SYN407 (999)<br>(insecticide)<br>[Syngenta] | Registered – No (status 2016)<br>MRLs > LOQ | Rice, Soybean, Citrus, Cotton,<br>Fruiting vegetables (Tomato,<br>Pepper), Cucurbits<br>(Cucumber/squash, Melon)   | Rice (8), Soybean (20), Citrus (16),<br>Cotton (4), Fruiting vegetables (Tomato<br>(13), Pepper (13)), Cucurbits<br>(Cucumber/squash (8), Melon (8))   |
| 8 Nov 2016                   | Fluazaindolizine (XXX)<br>(nematicide) [DuPont] –<br>USA | Fluazaindolizine (XXX)                      | Registered n<br>MRLs > LOQ y                | Treated crops: Eg. Fruiting<br>vegetables, cucurbit vegetables,<br>carrots, potatoes; Rotational crops:<br>Eg., tomatoes, strawberries, carrots,<br>radish, turnip, sugarbeet, celery,<br>broccoli, leaf lettuce, Swiss chard,<br>peas (dry), soybeans, oilseed rape;<br>field corn (maize), wheat | Treated crops: tomatoes (27), peppers<br>(26), cucumbers (18), melons (18),<br>squash (17), carrots (11), potatoes<br>(22), Rotational crops: tomatoes (10),<br>Strawberries (10), Carrots (3), Radish<br>(2); Turnip/Sugarbeet (5), Celery (5),<br>Broccoli (10), Leaf Lettuce (10), Swiss<br>chard (5), Peas (dry) (10), soybeans<br>(5), oilseed rape (5), field corn (maize)<br>(10), wheat (10) |
| 6 Dec 2016                   | Ethalfuralin<br>[Gowan] - Canada                         | Ethalfuralin                                | Registered<br>MRLs = LOQ                    | Pulses   |  |

## 2020 NEW USES AND OTHER EVALUATIONS

| Date Stamp | TOXICOLOGY | RESIDUE | Commodities | Residue trials provided |
|------------|------------|---------|-------------|-------------------------|
|            |            |         |             |                         |
|            |            |         |             |                         |

**TABLE 2A: PRIORITY LISTS OF PERIODIC REVIEWS – 2019-2021**

**Note 1:** NR denotes “following evaluation, JMPR has deemed the establishment of an ARfD unnecessary”

**Note 2:** N/A denotes “not assessed – JMPR has not had the opportunity to consider, or determine the need for, an ARfD”

**2019 PERIODIC REVIEW**

| TOXICOLOGY  | RESIDUE             | Commodities                                    | Comments  | Previous evaluation | ADI          | ARfD         |
|---|---------------------|--|---|---------------------|--------------|--------------|
| Aldicarb (117) [AgLogic Chemical LLC]<br>Tox conducted in 1997    | aldicarb            | Awaiting advice on commodities to be supported | Yes   | 1995                | 0.003 - 1992 | 0.003 - 1995 |
| Amitraz (122) [Arysta Lifesciences]                               | Amitraz (122)       |  | Falls under the 15-year rule (listed in Table 2B), last evaluation in 1998. The EU proposes to submit a concern form on the basis of public health concerns.<br>The EU and JMPR ARfD and ADI for amitraz are equal. All EU MRLs are set at LOQ. No EU evaluation of residue trials is available. Therefore the acute risk assessment was performed with the existing CXLs. However, when applied in the EFSA PRIMO model exceedances are observed for oranges (663%), apples (490%), pear (455%), peaches (297%), cucumber (292%), tomatoes (291%) for children. Refinement (IESTI 2) of the variability factors would still lead to exceedances of the ARfD for the same crops (211-480%). In addition, even without including the LOQs for the crops without MRLs, the highest calculated TMDI values in % ADI are 254 and 146 in DE and NL child, with pome fruit attributing the most (>100 % of the ADI). It is acknowledged that the use of the STMRS would lower the long-term dietary exposure by approximately a factor of 4-5, whereby exceedance of the ADI is no longer envisaged. Using the FAO IESTI spreadsheets and JMPR ARfD, the ARfD is exceeded in case of oranges (150-290%), apple (280-360%), pear (280-290%), peaches (150-260%), cucumber (130-200%), tomatoes (110-320%). It is acknowledged that the use of HRs would lower the dietary exposure by approximately a factor of 2, but this would still result in exceedances of the ARfD. | 1998                | 1998<br>0.01 | 1998<br>0.01 |
| Azinphos-methyl (2)<br>Not supported<br>JMPR<br>JMPR 2007 ARfD0.1 | Azinphos-methyl (2) |  | The EU submitted a concern form in October 2015. Azinphos-methyl was re-evaluated concerning toxicology in 2007 with concerns mentioned by EU in CCPR 2008 due to the use of human data. The re-evaluation for residue behaviour was announced for 2010 but then did not take place as the substance was no longer supported.<br>The substance is not authorised in the EU.<br>It is of public health concern as the ARfD established by JMPR is exceeded for several commodities when using EU consumption data:   |                     | 2007<br>0.03 | 2007<br>0.1  |



| TOXICOLOGY   | RESIDUE                   | Commodities  | Comments  | Previous evaluation | ADI                                   | ARfD                                  |
|--|---------------------------|--|---|---------------------|---------------------------------------|---------------------------------------|
|  |                           |  | 185% of ARfD for pears; 135% oranges which might be of no concern taking into account distribution between peel and pulp; Peaches (120%); Pine apples (105%).<br>As the substance is falling under the 15 year rule and it has been confirmed at several meetings of the CCPR that it is no longer supported worldwide, the existing CXLs should urgently been withdrawn (2010 CCPR, para 178; 2011 CCPR, Appendix X; 2012 CCPR, para 166; 2014 CCPR, Appendix XV; 2015 CCPR, Appendix XV).   |                     |                                       |                                       |
| Carbosulfan (145)<br>Carbofuran (96)<br>[FMC Corporation]                              | Carbosulfan<br>Carbofuran | Awaiting advice on supported commodities Asparagus; egg plant, mango (Thailand)  | Netherlands – public health concerns<br>Carbosulfan: Not approved (September 2007, RMS BE) - Information insufficient with regard to consumer exposure<br>Concerns identified with regard to toxicity of the substance and presence of unknown levels of carcinogenic impurities which may increase during storage, Consumers exposure inconclusive due to uncertainties regarding the effects of certain metabolites, some of which could be genotoxic<br>Carbofuran: Not approved (September 2007, RMS BE) - Information insufficient with regard to consumer exposure.<br>Concerns identified - High toxicity of the substance and some of its metabolites, Consumer exposure inconclusive | 1997                | 0.01<br>(1986)<br><br>0.001<br>(1996) | 0.02<br>(2003)<br><br>0.001<br>(2009) |
| Dicloran (83)  | Dicloran (83)             |  | Not approved (April 2008 and May 2011, RMS ES)<br>- Concerns identified with regard to the the toxicological relevance of several impurities in the technical material (relevant for residues in food?) and with regard to consumer risk assessment in following crops.   | 1998                | 0.01<br>(1998)                        | NR<br>(2003)                          |
| Dimethoate<br>[Cheminova] [FMC]<br>(027)   | Dimethoate                | Pulses (Canada) - Dry beans (3 trials), succulent beans (3 trials), dry peas (5 US trials and 10 EU trials), succulent peas (3 US trials and 2 EU trials), edible-podded peas (6 US trials)  | EU concerns ARfD JMPR 2003<br>Acute risk for citrus and cherries<br>Sum of dimethoate and omethoate expressed as dimethoate in the 2003 evaluation by JMPR an ARfD was established.<br>However, in the exposure assessment for the acute risk the highest residue was not used in the case of citrus. Using the HR would lead to an exceedance of the ARfD of 230%.<br>Furthermore, the CXL of 2 mg/kg for cherries leads to an unacceptable acute risk for children and should be revised.<br>Await advice from JMPR on public health concerns   |                     | 0.002,<br>1996                        | 0.02,<br>2003                         |
| Fenarimol (192)<br>[Gowan]<br>Not supported by the manufacturer<br>Concern form lodged | Fenarimol                 | Fenarimol was first included as active substance in 1995. The ADI was set at 0.01 mg/kg bw/d. The COM set an ADI of 0.01 mg/kg bw/d in 2007 as well as an ARfD of 0.02 mg/kg bw/d. Since the JMPR hasn't evaluated the active substance in 19 years whereas now an ARfD-value is available it is proposed to re-evaluate all MRLs. | An ADI- and ARfD-value were derived in a peer-review under 91/414/EEC. EFSA identified in the acute risk assessment for children a possible risk for peppers (157.4%), peaches (148.3%), apples (146.9%), tomatoes (145.4%), pears (136.6%) and bananas (125.4%). A refined calculation was carried out using the HR.<br>For further details see EFSA evaluation on the internet at <a href="http://www.efsa.europa.eu/en/efsajournal/doc/161r.pdf">http://www.efsa.europa.eu/en/efsajournal/doc/161r.pdf</a> .   | 1995                | 0.01 -<br>1995                        | N/A                                   |

| TOXICOLOGY                   | RESIDUE       | Commodities | Comments  | Previous evaluation | ADI          | ARfD        |
|------------------------------|---------------|-------------|---|---------------------|--------------|-------------|
| Phosalon (60)<br>[Cheminova] | Phosalon (60) |             | <p>Falls under the 15-year rule (listed in Table 2B), last evaluation in 1997.</p> <p>The EU proposes submit a concern form on the basis of public health concerns.</p> <p>The substance is not authorised in the EU. EU has established a lower ADI and ARfD than JMPR.</p> <p>Using the EU ARfD and ADI of 0.01 mg/kg, the EU MRLs and the Codex MRL for apple and pome fruit for phosalone leads to exceedance of ADI, with apple contributing most (114-639 %) in various populations. In the short-term dietary risk assessment these MRLs lead to exceedances of the EU ARfD not only in apples (490%), but also in pears (180%) and peaches (120%). The impact of the metabolite oxaphosalone has not been taken into account, but will only add to the dietary exposure.</p> <p>With the ARfD of the JMPR at 0.3 mg/kg bw and the ADI at 0.02 mg/kg bw/day, there are no exposure concerns.</p> <p>Awaiting advice on supported commodities Durian (Thailand)</p> | 1997                | 1997<br>0.02 | 2001<br>0.3 |

## 2020 PERIODIC REVIEW

| TOXICOLOGY                             | RESIDUE  | Commodities   | Comments   | Previous evaluation | ADI           | ARfD         |
|--|----------|---|--|---------------------|---------------|--------------|
| Diazinon (22)<br>[Makhteshim–<br>Agan] | Diazinon | Note: Diazinon is already scheduled for toxicological and residue assessment by an interim JMPR to be held in Spring 2016, based on concerns raised by IARC on the possible carcinogenic properties of the substance (see Summary Report JMPR2015). | <p>Falls under the 15-year rule (listed in Table 2B), last evaluation in 1996. EU Concerns are as follows:</p> <p>The substance is not authorised in the EU. The EU-ADI of 0.0002 mg/kg bw/day) is much lower than the JMPR ADI (0.005 mg/kg bw/day). Using the existing CXLs and the EU ARfD/ADI in the EFSA PRIMo model, serious public health concerns are identified after long-term dietary exposure of diazinon.</p> <p>An acute dietary risk assessment was performed using CXLs. When using the JMPR IESTI model, the JMPR-ARfD is not exceeded. By using the EFSA PRIMo model and the CXLs, the EU-ARfD is exceeded (IESTI 1) in case of scarole (175%), plums (132%), carrots (127%), melons (121%), apples (118%), broccoli (117%), tomatoes (116%), pears (105%), head cabbage (105%), bovine meat (102%). Refinement (IESTI 2) of the variability factors would still lead to exceedances of the ARfD for scarole, melons, plums and bovine meat (102-175%).</p> <p>Use of the HR would lower the short term exposure by a factor of 2 which would not result in an exceedance of ARfD. Even without including the LOQs for the crops without MRLs, the highest calculated TMDI values in % (EU) ADI are 376-4990% in various populations (child, toddlers, general public) and countries, with meats, pome fruit, carrots and sugar beets contributing the most (all &gt;&gt;100 % of the ADI). It is acknowledged that the use of the STMRs would lower the long-term dietary exposure by approximately a factor of 4-5, but this would still lead to an exceedance of the ADI.</p> | 1996                | 2006<br>0.005 | 2006<br>0.03 |

| TOXICOLOGY  | RESIDUE                          | Commodities  | Comments  | Previous evaluation | ADI            | ARfD          |
|---|----------------------------------|--|---|---------------------|----------------|---------------|
| Ethoxyquin (35)<br>One CXL - pear   | Ethoxyquin (35)                  |  | The substance is not authorised in the EU and no import tolerances exist. EFSA concluded that the metabolism data used by JMPR for establishing the residue definition for enforcement and risk assessment could not be confirmed as the metabolism data showed deficiencies using the JMPR residue definition. EFSA concluded that the CXL for pears exceeded the ARfD (109%) and proposed to lower the EU MRL to the LOD. The last periodic review of residues was performed by JMPR in 1999 and of toxicology in 1998. This is approximately 15 years ago. It seems that Japan has recently performed a toxicological evaluation of the substance.<br>COMMENT: a toxicological review occurred in 2005 – reviewed ADI and set ARfD   |                     | 0.005, 2005    | 0.5, 2005     |
| 202 – Fipronil [BASF]   | 202 - Fipronil                   |  | 006 Assorted tropical and sub-tropical fruits – inedible Peel; 006 Assorted tropical and sub-tropical fruits – inedible Peel; 006 Assorted tropical and sub-tropical fruits – inedible Peel; 006 Assorted tropical and sub-tropical fruits – inedible Peel; 015 Pulses; 016 Root and tuber vegetables; 020 Cereal grains; 021 Grasses for sugar or syrup production; 04 Nuts and seeds; 023 Oilseeds  | 2000/01             | 2000<br>0.0002 | 2000<br>0.003 |
| Iprodione (111) (FMC)<br>Moved at the request of manufacturer – await completion of EU, Canada and US reviews   | Iprodione (111)                  | Tree nuts; cereals; beans, (dried); blackberry; broccoli; carrots; cheery; cucumber; grapes; kiwi; lettuce (head and leafy); onion; stone fruit; pome fruit; rapeseed; raspberry; sugar beet; sunflower; tomato; witloof (All CXLs appear to be supported) | <u>FMC Trials:</u><br>Almonds (4); barley (13); blackberries (8); broccoli (4); carrot (12); cherry (5); lettuce, leaf (12); peach (9); raspberries, red/black (8); rice, husked (18); Spices, seeds (4); spices, roots & rhizomes (4); apricots (8); artichoke (4); banana (8); bean, succulent - lima and snap (12); Brassica, head and stem vegetables (12); coffee (6); eggplant (8); mandarins (8); mango (4); melon (12); pea (12); peanut (12); plum (12); potato (16); soybean (12); wheat (16)   | 1994                | 0.06<br>1995   | N/A           |
| Methidathion (51)<br>Manufacturer support from Zenno Chem for mango and peach scheduled for 2020<br>If no support for existing CXLs, then revocation of CXLs at CCPR49. | Methidathion (51)<br>insecticide | Peach, mango   | The active substance has been re-evaluated for residues (after its first inclusion in 1972) in 1992. An ARfD was derived in the toxicological re-evaluation in 1997.<br>As a consequence of this ARfD a couple of MRLs are not safe for consumers. Due to the fact that no periodic re-evaluation of residues took place in 42 years it is proposed to carry out a new evaluation. The JMPR has established an ADI of 0.001 mg/kg bw/d and an ARfD of 0.01 mg/kg bw/d in 1997. A risk assessment was performed using the EFSA PRIMo including all MRLs that were considered relevant for international trade. The ADI was exceeded for 25 European diets with the highest exposure representing 2392% of the ADI. Citrus fruits, olives for oil production and milk were shown to be the main contributors. Citrus fruits also exceeded the ARfD (up to 6631%). A second exposure calculation delete the existing MRLs for citrus fruits, pome fruits and sunflower seeds still showed an that the ADI for 5 European diets was exceeded (up to 301%). For further details see EFSA evaluation on the internet at <a href="http://www.efsa.europa.eu/en/efsajournal/doc/1639.pdf">http://www.efsa.europa.eu/en/efsajournal/doc/1639.pdf</a> . | 1992                | 0.001 - 1997   | 0.01 - 1997   |
| Pirimicarb (101)<br>Syngenta  | Pirimicarb (101)                 | Supported by the manufacturer  | Public health concerns - acute dietary risk – Netherlands – check uses for peach and lettuce based on existing residue data and labels<br>Moved from 2017 New use and other evaluations   | 2004                |                |               |

| TOXICOLOGY   | RESIDUE                | Commodities  | Comments   | Previous evaluation           | ADI                       | ARfD                                 |
|--|------------------------|--|--|-------------------------------|---------------------------|--------------------------------------|
| Prochloraz (142)<br>[Bayer<br>CropScience]   |                        |  | Last reviewed by JMPR in 2001. In 2011, Prochloraz was re-evaluated in the EU and a lower acute toxicological endpoint of 0.025 mg/kg/bw/d was established compared to a value of 0.1 set by JMPR in 2001. From the JMPR report (2004) the IESTI was calculated to be greater than 25% of the ARfD at 0.1 for several commodities. With a lowering of the ARfD by a factor of 4, the CXLs for banana, edible offal (mammalian), grapefruit, mandarin, orange, papaya, pineapple, shaddocks/pomelos are expected to be of concern. The EU values were derived from 2 studies that do not appear to have featured in the JMPR evaluation. The multi-generation rat study "Reader 1993" submitted as part of a dossier by a notifier and a 90 day dog study "Lancaster 1979" submitted by another notifier. In addition a change in the interpretation the significance of extended gestation in both the "Cozen 1980 study" and the "Reader 1993" study also impacted. It should also be noted the many papers reviewed as part of the literature search around prochloraz were also considered when the list of endpoints and critical values were set.   |                               | 0.01, 1983 confirmed 2001 | 0.1, 2009                            |
| Quintozene (64)<br>[Crompton-AMVAC]  | quintozene             |  | Falls under the 15-year rule (listed in Table 2B), last evaluation in 1995. The EU proposes submit a concern form on the basis of public health concerns. Quintozene containing more than 0.1% hexachlorobenzene is banned in the EU. For quintozene (containing less than 0.1% hexachlorobenzene), the necessity for deriving an ARfD has not been assessed (EU or JMPR). Using the CXLs, the JMPR IESTI model and the ADI as surrogate ARfD, an exceedance of the ARfD is found for ginger root (240%); no exceedance is found for the EFSA PRIMo model. Using the (temporary) ADI of 0.01 mg/kg bw/day, the TMDI in the long-term dietary risk assessment does not exceed the ADI using the Codex MRLs and the EFSA PRIMo model. However, there are many uncertainties regarding the metabolites that can be formed, depending on application of the active substance at growth stage and on type of plant. There is a lack of sufficient data to exclude consumer risks.   | 1995                          | 1995<br>0.01              | 1995<br>n/a                          |
| Dithiocarbamates (105) [Taminco]<br>(ferbam, maneb/mancozeb, propineb, thiram, ziram)<br><br><b>MOVE to 2020 22 2016 Additional advice; US Supports Mancozeb, Metiram, Propineb, Thiram, Ziram</b> | Dithiocarbamates (105) | <b>Longan (Thailand – mancozeb)</b><br><b>Mancozeb:</b> Oranges (24), Mandarins (16), Nuts (10), Apples (48), Pears (4), Peaches (8), Apricot (8), Plums (28), Cherries (16), Grapes (2*), small fruits and berries (25), Potato (16), Carrot (24), Onions (24), Tomatoes (31), Pepper (18), Courgette (14), Cucumber (36), Melon (20), Broccoli (24), Cauliflower (20), Head cabbage (32), Lettuce (22), Witloof (4), Beans/Peas, fresh with pods (29), Beans, fresh without pods (8), Peas, fresh without pods (16), | Residue definition applies to all DTC – propineb; mancozeb; ferbam; ziram; thiram; maneb; metiram; zineb<br><b>Netherlands - public health concerns</b><br>Several (serious) public health risks have been identified for several dithiocarbamates (Maneb/mancozeb, propineb, thiram, ziram) using EU data (ARfD and MRLs with conversion factor corrections).<br>JMPR has not derived ARfDs for these substances (except an interim ARfD of 0.1 mg/kg bw for propineb) nor performed acute dietary risk assessment as it was not yet done at that time (before 2000). Various group ADI's for several dithiocarbamates (e.g. 0.03 mg/kg for maneb, mancozeb, metiram and zineb, 0.007 mg/kg for propineb, 0.003 mg/kg for ziram and ferbam, and 0.01 mg/kg for thiram).<br>We acknowledge that a periodic review of propineb has been performed in 2004. Still a risk has been identified for peppers and (dried) tomatoes using the HR for peppers of 13 mg/kg and the HR for tomatoes of 2.9 mg/kg for propineb and the interim ARfD of 0.1 mg/kg bw.<br>Processing data have not been included in this calculation.<br>For thiram risks have been identified for e.g. use on apples and pears (recommended MRL of 5 mg/kg listed under ziram, no STMR or HR listed, Annex I, JMPR report 2004 from <a href="http://www.fao.org/fileadmin/templates/agphome/documents/Pests_Pesticides/JMPR/Reports_1991-2006/report2004jmpr.pdf">http://www.fao.org/fileadmin/templates/agphome/documents/Pests_Pesticides/JMPR/Reports_1991-2006/report2004jmpr.pdf</a> ) falling back on the use of the ADI of 0.01 mg/kg bw/day (no ARfD exists). Using the EU ARfD of 0.6 mg/kg bw no risks are identified any more. | 1996T, 1993R, (2004 propineb) | Range of group ADIs       | Interim ARfD propineb 0.1 mg/kg 1995 |

| TOXICOLOGY | RESIDUE | Commodities  | Comments   | Previous evaluation | ADI | ARfD |
|------------|---------|--|--|---------------------|-----|------|
|            |         | <p>Asparagus (10), Leeks (19), Pulses, dry (24), Olives (15), Wheat (26), Barley (16), Sugar beet (16)</p> <p>*Additional trials in progress</p> <p><b>Metiram:</b> Grape (23); Potato (23); Apple (15); Tomato (15); Onions (8); Lettuce (20); Cucurbits edible peel (8); Cucurbits inedible peel (8); Passion Fruit (4); Banana (12); Pineapple (4)</p> <p><b>Propineb:</b> apples (50); grape (54); mango (5); citrus (31); tomato (36); potato (31); chili pepper (11); cucumber (27); rice (8); shallot (8)</p> <p><b>Thiram (foliar):</b> Apple (25); Pear (10); Apricot (7); Peach (12); Cherry (28); Strawberry (40); Plum (12); Olive (8); Grape (13); Eggplant (2); Lettuce (9); Sunflower (4); Avocado (6); Mango (1); Banana (17)</p> <p><b>Thiram (seed):</b> Sugar beet (4); Maize (8); Oilseed rape (8)</p> <p><b>Ziram (foliar):</b> Peach (6); Apricot (4); Plum (11); Pear (21); Cherry (11); Grape (5); Tomato (7); Blueberries (4)</p> | <p>For <u>ziram</u> risk are identified e.g. use pome fruit, even if making use of the EU ARfD (0.08 mg/kg bw) instead of falling back on the ADI of 0.003 mg/kg bw/d in the absence of an JMPR ARfD.</p> <p>Due to time constraints, we have not yet further explored the risks identified for maneb / mancozeb. The majority of the dithiocarbamates have been evaluated prior to the date that acute dietary risk assessment became part of the JMPR evaluations.</p> <p>We propose therefore to update the evaluations with regard to the acute dietary risk assessment of all the dithiocarbamates in one overall assessment. This would enable identification of all the possible risks, establish whether re-evaluation of the existing data for specific uses is appropriate, whether an ARfD should be derived, and to determine whether they should subsequently be placed on the priority lists.</p> <p>Conversion factors (from CS<sub>2</sub> to active substance) are not listed in the Annex: Mancozeb: 1.783, Maneb: 1.743, Propineb: 1.904, Thiram: 1.580, Ziram: 2.009</p> |                     |     |      |

**2021 PERIODIC REVIEW**

| TOXICOLOGY  | RESIDUE                 | Commodities                    | Comments   | Previous evaluation | ADI            | ARfD      |
|---|-------------------------|--------------------------------|--|---------------------|----------------|-----------|
| Bromide ion (47)                                    | Bromide ion (47)        |                                | No Croplife manufacturer responsible<br>Last reviewed over 25 years ago - Not cleared toxicologically by JMPR<br>Bromide ion from all sources but not including covalently bound bromine, Methyl bromide (52) – guideline CXLs   | 1988                | 1.0 - 1988     | N/A       |
| Fenbutatin oxide (109)                              | Fenbutatin oxide        |                                | National registrations - Y<br>No supporting member country<br>No longer supported by manufacturer  | 1992                | 0.03 - 1992    | N/A       |
| Guazatine (114)                                     | Guazatine (114)         |                                | Guazatine was first discarded as not having an ADI/ARfD at all. However, this appears to be a special case. In 1978 an ADI was derived, which was withdrawn in 1997 since "The Meeting concluded that it could not establish an ADI for guazatine owing to the inadequate information on its composition and concerns about the production of rare malignant tumours in mice". "The Meeting estimated the maximum residue level shown in Annex I. As the Meeting withdrew the ADI for guazatine this is recorded only as a Guideline Level". As such no CXLs are supposed to be available. However, a CXL for cereal grains (0.05* mg/kg G = guideline value) and citrus fruit (5 mg/kg Po = post harvest use) can still be found in the Codex Alimentarius. Annex 1 and Annex 2 of the JMPR 1997 evaluation, show that the CXL for Citrus fruits of 5 mg/kg Po is withdrawn, but that for cereals a maximum residue level of 0.05* mg/kg is proposed. The CXL of 5 mg/kg has been adopted by the CCPR in 1999. It is unclear which discussion is behind this. The problem is that this specific MRL-crop combination gives rise to a human health risk. Only "guideline levels" (5 mg/kg) for citrus exist since the ADI was withdrawn in 1997. It was recommended that these guideline levels would remain until a new ADI is recommended. It is proposed either to delete the guideline level or request sponsors to support a re-evaluation of guazatine. There are no CXLs in place in CX/PR 14/46/5 – instead guideline levels are set – clarification from Codex Secretariat is sought. |                     | Withdrawn 1997 | N/A       |
| Hydrogen phosphide, (zinc and aluminium salts) (46) | Hydrogen phosphide (46) | Cereal grains, citrus, almonds | No Croplife manufacturer responsible – request for additional preparation time   | 1971                | NR             | N/A       |
| Permethrin (120)                                    | Permethrin (120)        | Not supported                  | Not supported by manufacturer<br>Last reviewed over 25 years ago   | 1987                | 0.05 - 1999    | NR - 1999 |

**TABLE 2B: PERIODIC REVIEW LIST (COMPOUNDS LISTED UNDER 15 YEAR RULE BUT NOT YET SCHEDULED OR LISTED)**

Compounds listed in this table have not been evaluated for at least 15 years. Decisions on the prioritization of these compounds should be based on the relevant criteria specified in pp159-161 of the *Codex Procedural Manual*. Compounds are listed in Table 2b awaiting advice on supporting data packages and/or an indication of manufacturer/member country support.

| TOXICOLOGY                                | RESIDUE            | Issue – Commodities supported            | Current national registrations | Previous evaluation           | ADI           | ARfD                       |
|---|--------------------|--|--------------------------------|-------------------------------|---------------|----------------------------|
| Fenthion (39)                             | fenthion           | No longer supported by the manufacturer  | yes                            | 1995                          | 0.007 - 1995  | 0.01 - 1997                |
| Disulfoton (74)                           | disulfoton         | No longer supported by the manufacturer  | yes                            | 1996                          | 0.0003 - 2006 | 0.003 - 2006               |
| Fenbuconazole (197)<br>[Dow AgroSciences] | fenbuconazole      | Awaiting advice on supported commodities | yes                            | 1997                          | 0.03 (1997)   | 0.2 (2012)                 |
| Dinocap (87)                              | dinocap            | No longer supported by the manufacturer  | yes                            | 1998                          | 0.008 - 1998  | 0.008 WCBA<br>0.03 general |
| Maleic hydrazide (102) [Chemtura]         | maleic hydrazide   | Awaiting advice on supported commodities | yes                            | 1998                          | 0.3 (1996)    | N/A                        |
| Amitrole (79) [Nufarm]                    | amitrole           | Awaiting advice on supported commodities | yes                            | 1998                          | 0.002 (1997)  | N/A                        |
| Pyriproxyfen [Sumitomo] (200)             | pyriproxyfen       | Awaiting advice on supported commodities | yes                            | 1999                          | 0.1 (1999)    | NR (1999)                  |
| Malathion [Cheminova] (049)               | malathion          | Awaiting advice on supported commodities | yes                            | 1999                          | 0.3 (1997)    | 2.0 (2003)                 |
| 2-phenylphenol (056) [???                 | 2-phenylphenol     | manufacturer unknown                     | yes                            | 1999                          | 0.4, 1999     | NR 1999                    |
| Parathion-methyl (059) [Cheminova]        | Parathion-methyl   | Awaiting advice on supported commodities | yes                            | 1994R, 1995T                  | 0.003, 1995   | 0.03, 1995                 |
| Bitertanol (144) [Bayer CropScience]      | Bitertanol         | Awaiting advice on supported commodities | Yes                            | 1998T, 1999R                  | 0.01, 1998    | NR 1998                    |
| 2,4-D [Dow AgroSciences] (020)            | 2,4-D              | Awaiting advice on supported commodities | yes                            | 1996T, 1998R,<br>2001T(ARfD), | 0.01, 1996    | NR                         |
| Diphenylamine [Cerex Agri] (030)          | Diphenylamine      | Awaiting advice on supported commodities | yes                            | 1998T, 2001R                  | 0.08, 1998    | NR                         |
| Piperonyl butoxide [Endura] (062)         | Piperonyl butoxide | Awaiting advice on supported commodities | yes                            | 1995T, 2001T(ARfD),<br>2001R  | 0.2, 1995     | NR                         |
| Methomyl [DuPont] (094)                   | Methomy            | Awaiting advice on supported commodities | yes                            | 2001                          | 0.02, 2001    | 0.02, 2001                 |
| Spinosad [Dow AgroSciences] (203)         | Spinosad           | Awaiting advice on supported commodities | yes                            | 2001                          | 0.02, 2011    | NR                         |
| Imidacloprid [Bayer CropScience] (206)    | Imidacloprid       | Awaiting advice on supported commodities | yes                            | 2001                          | 0.06, 2002    | 0.4, 2002                  |

## CURRENT NATIONAL REGISTRATIONS FOR COMPOUNDS LISTED IN TABLES 2A AND B

| COMPOUND           | Pest No. | EU | Aust | Canada | USA | Japan |  | Phil | Moro | Korea | Chile | NZ | Brazil | Russia | Uruguay | Overall |
|--------------------|----------|----|------|--------|-----|-------|--|------|------|-------|-------|----|--------|--------|---------|---------|
| azinthos-methyl    | 002      | N  | Y    | N      |     | N     |  | N    | N    | N     | Y     | Y  | N      | N      | Y       |         |
| 2,4-D              | 020      | Y  | Y    |        |     | Y     |  | Y    |      | Y     | Y     | Y  |        | Y      | Y       |         |
| diazinon           | 022      | N  | Y    | Y      |     | Y     |  | Y    | Y    | Y     | Y     | Y  | Y      | Y      | Y       |         |
| dimethoate         | 027      | Y  | Y    |        |     | Y     |  | Y    | Y    | Y     | Y     | Y  | Y      | Y      | Y       |         |
| diphenylamine      | 030      | N  | Y    |        |     | N     |  | N    |      | N     | Y     | N  |        | N      | Y       |         |
| fenthion           | 039      | N  | N    | N      |     | Y     |  | Y    | Y    | Y     | N     | N  | N      | N      | Y       |         |
| hydrogen phosphide | 046      | Y  | Y    |        | Y   | Y     |  | Y    | N    | Y     | Y     | N  | Y      | N      | Y       |         |
| bromide ion        | 047      |    | N    |        |     | Y     |  | Y    | N    | Y     | Y     | Y  | N      | Y      | -       |         |
| malathion          | 049      | Y  | Y    | Y      |     | Y     |  | Y    | Y    | Y     | Y     | Y  | Y      | Y      | Y       |         |
| methidathion       | 051      | N  | Y    |        |     | Y     |  | N    | N    | N     | Y     | Y  | Y      | N      | Y       |         |
| 2-phenylphenol     | 056      | Y  | Y    |        |     | N     |  | N    |      | N     | N     | N  |        | N      | Y       |         |
| parathion-methyl   | 059      | N  | Y    |        |     | N     |  | N    |      | N     | N     | N  |        | N      | Y       |         |
| phosalone          | 060      | N  | N    | N      |     | Y     |  | N    | N    | N     | N     | N  | N      | Y      | N       |         |
| piperonyl butoxide | 062      | Y  | Y    |        |     | N     |  | Y    |      | N     | N     | Y  |        | N      | N       |         |
| quintozene         | 064      | N  | Y    |        |     | N     |  | N    | N    | N     | N     | N  | Y      | N      | N       |         |
| bromopropylate     | 070      | N  | N    |        |     | N     |  | N    | N    | N     | N     | Y  | Y      | N      | N       |         |
| disulfoton         | 074      | N  | N    | N      |     | Y     |  | N    | N    | N     | N     | N  | Y      | N      | N       |         |
| amitrole           | 079      | Y  | Y    | Y      |     | N     |  | N    | Y    | N     | Y     | Y  | N      | N      | N       |         |
| dicloran           | 083      | N  | N    | N      |     | N     |  | N    | N    | N     | Y     | Y  | Y      | N      | N       |         |
| dinocap            | 087      | N  | Y    | Y      |     | N     |  | N    | N    | N     | N     | N  | Y      | N      | N       |         |
| methomyl           | 094      | Y  | Y    |        |     | Y     |  | Y    |      | N     | Y     | Y  |        | Y      | Y       |         |
| carbofuran         | 096      | N  | Y    | N      |     | N     |  | Y    | Y    | Y     | Y     | N  | Y      | Y      | Y       |         |
| maleic hydrazide   | 102      | Y  | Y    | Y      |     | Y     |  | N    | Y    | N     | N     | Y  | Y      | Y      | Y       |         |
| fenbutatin oxide   | 109      | N  | Y    | Y      |     | Y     |  | N    | N    | Y     | N     | N  | N      | N      | N       |         |
| aldicarb           | 117      | N  | N    | N      | Y   | N     |  | N    | N    | N     | N     | N  | N      | N      | N       |         |
| permethrin         | 120      | N  | Y    |        |     | Y     |  | Y    | N    | N     | Y     | Y  | Y      | N      | N       |         |
| amitraz            | 122      | N  | Y    | Y      |     | Y     |  | N    | N    | Y     | N     | Y  | Y      | N      | N       |         |
| bitertanol         | 144      | N  | Y    |        |     | Y     |  | Y    |      | Y     | N     | N  |        | N      | N       |         |
| carbosulfan        | 145      | N  | Y    | N      |     | Y     |  | Y    | N    | Y     | N     | N  | Y      | N      | Y       |         |
| fenarimol          | 192      | N  | Y    |        |     | Y     |  | N    | N    | Y     | Y     | N  | N      | Y      | N       |         |
| fenbuconazole      | 197      | Y  | Y    | Y      |     | Y     |  | N    | N    | Y     | Y     | N  | N      | N      | N       |         |
| pyriproxyfen       | 200      | Y  | Y    | Y      |     | Y     |  | N    | N    | Y     | Y     | Y  | Y      | Y      | Y       |         |
| fipronil           | 202      | Y  | Y    |        |     | Y     |  | Y    |      | Y     | Y     | Y  |        | Y      | Y       |         |
| spinosad           | 203      | Y  | Y    |        |     | Y     |  | Y    |      | Y     | Y     | Y  |        | Y      | Y       |         |
| imidacloprid       | 206      | Y  | Y    |        |     | Y     |  | Y    |      | Y     | Y     | Y  |        | Y      | Y       |         |



TABLE 3: RECORD OF PERIODIC REVIEWS

| Code | Chemical                | Initial JMPR evaluation | Periodic reviews           | Scheduled (Tox) | Scheduled (Residues) | Notes                         |
|------|-------------------------|-------------------------|----------------------------|-----------------|----------------------|-------------------------------|
| 007  | Captan                  | 1963                    | 1995T, 2004T(ARfD), 2000R  |                 |                      | Arysta Life Science           |
| 008  | Carbaryl                | 1965                    | 2001T(ADI, ARfD), 2002R    |                 |                      | Bayer CropScience             |
| 025  | Dichlorvos              | 1965                    | 2011T, 2012R               |                 |                      | AMVAC                         |
| 032  | Endosulfan              | 1965                    | 1998T, 2006R               |                 |                      | Makhteshim Agan               |
| 048  | Lindane                 | 1965                    | 2002T, 2003R, 2015         |                 |                      | EMRLs proposed                |
| 063  | Pyrethrins              | 1965                    | 2003T, 2000R               |                 |                      | No manufacturer               |
| 026  | Dicofol                 | 1968                    | 1992, 2011T                |                 |                      | Not supported by manufacturer |
| 037  | Fenitrothion            | 1969                    | 2007T(ADI, ARfD), 2003R    |                 |                      | Sumitomo                      |
| 041  | Folpet                  | 1969                    | 1995T, 2007T(ARfD), 1998R  |                 |                      | Makhteshim Agan               |
| 031  | Diquat                  | 1970                    | 1993T, 1994R, 2013         |                 |                      | Syngenta                      |
| 057  | Paraquat                | 1970                    | 2003T, 2004R               |                 |                      | Syngenta                      |
| 065  | Thiabendazole           | 1970                    | 1997T, 1997R, 2006T(ARfD)  |                 |                      | Syngenta                      |
| 067  | Cyhexatin               | 1970                    | 2005T, 2005R               |                 |                      | Cerex Agri                    |
| 017  | Chlorpyrifos            | 1972                    | 1999T, 2000R, 2006 (ARfD)  |                 |                      | Dow AgroSciences              |
| 081  | Chlorothalonil          | 1974                    | 2009T, 2010R               |                 |                      | Syngenta                      |
| 084  | Dodine                  | 1974                    | 2000T, 2003R               |                 |                      | AgriPhar SA                   |
| 085  | Fenamiphos              | 1974                    | 1997T, 1999R, 2006T(ARfD)  |                 |                      | Makhteshim Agan               |
| 086  | Pirimiphos-methyl       | 1974                    | 1992T, 2006T(ARfD), 2003R  |                 |                      | Syngenta                      |
| 090  | Chlorpyrifos-methyl     | 1975                    | 2009                       |                 |                      | Dow AgroSciences              |
| 095  | Acephate                | 1976                    | 2005T, 2003R               |                 |                      | Arysta Life Science           |
| 100  | Methamidophos           | 1976                    | 2002T, 2003R               |                 |                      | Bayer CropScience             |
| 103  | Phosmet                 | 1976                    | 1994T, 2003T, 1997R 2002R  |                 |                      | Gowan                         |
| 106  | Ethephon                | 1977                    | 2002T(ARfD), 2015          |                 |                      | Bayer CropScience             |
| 112  | Phorate                 | 1977                    | 2004T, 2005R               |                 |                      | BASF / AMVAC                  |
| 113  | Propargite              | 1977                    | 1999T, 2002R               |                 |                      | Chemtura                      |
| 116  | Triforine               | 1977                    | 1997T, 2014                |                 |                      | Support from Sumitomo Co.     |
| 118  | Cypermethrin            | 1979                    | 2006T, 2008R               |                 |                      | FMC / AgriPhar                |
| 119  | Fenvalerate             | 1979                    | 2012                       |                 |                      | Sumitomo Chemical             |
| 129  | Azocyclotin             | 1979                    | 2005T, 2005R               |                 |                      | Cerex Agri                    |
| 133  | Triadimefon/triadimenol | 1979                    | 2004T, 2007R               |                 |                      | 133 /168 - Bayer CropScience  |
| 135  | Deltamethrin            | 1980                    | 2000T, 2002R               |                 |                      | Bayer CropScience             |
| 132  | Methiocarb              | 1981                    | 1998T, 1999R, 2005R (ARfD) |                 |                      | Bayer CropScience             |
| 143  | Triazophos              | 1982                    | 2002T, 2007R               |                 |                      | Bayer CropScience             |
| 149  | Ethoprophos             | 1983                    | 1999T, 2004R               |                 |                      | Bayer CropScience             |
| 146  | Lambda-cyhalothrin      | 1984                    | 2007T, 2008R               |                 |                      | Syngenta                      |
| 147  | Methoprene              | 1984                    | 2001T, 2005R               |                 |                      | Dow AgroSciences              |
| 148  | Propamocarb             | 1984                    | 2005T, 2006R               |                 |                      | Bayer CropScience             |
| 151  | Dimethipin              | 1985                    | 1999T, 2004T(ARfD), 2001R  |                 |                      | Chemtura                      |
| 155  | Benalaxyl               | 1986                    | 2005T, 2009R               |                 |                      | FMC                           |
| 156  | Clofentezine            | 1986                    | 2005T, 2007R               |                 |                      | Makhteshim Agan               |
| 157  | Cyfluthrin              | 1986                    | 2006T, 2007R               |                 |                      | Makhteshim Agan / Bayer       |
| 158  | Glyphosate              | 1986                    | 2004                       |                 |                      | Monsanto                      |

| Code | Chemical             | Initial JMPR evaluation | Periodic reviews          | Scheduled (Tox) | Scheduled (Residues) | Notes                          |
|------|----------------------|-------------------------|---------------------------|-----------------|----------------------|--------------------------------|
| 160  | Propiconazole        | 1987                    | 2004T, 2007R              |                 |                      | Syngenta                       |
| 165  | Flusilazole          | 1989                    | 2007                      |                 |                      | DuPont                         |
| 166  | Oxydemeton-methyl    | 1989                    | 2002T, 1998R              |                 |                      | United Phosphorous             |
| 167  | Terbufos             | 1989                    | 2003T                     |                 |                      | AMVAC                          |
| 169  | Cyromazine           | 1990                    | 2006T, 2007R              |                 |                      | Syngenta                       |
| 171  | Profenofos           | 1990                    | 2007T, 2008R              |                 |                      | Syngenta                       |
| 172  | Bentazone            | 1991                    | 2012T, 2004T(ARfD), 2013  |                 |                      | BASF                           |
| 173  | Buprofezin           | 1991                    | 2008                      |                 |                      | Nihon Nohyaku                  |
| 174  | Cadusafos            | 1991                    | 2009T, 2010R              |                 |                      | FMC                            |
| 175  | Glufosinate-ammonium | 1991                    | 2012                      |                 |                      | Bayer CropScience              |
| 176  | Hexythiazox          | 1991                    | 2008T, 2009R              |                 |                      | Nippon Soda                    |
| 177  | Abamectin            | 1992                    | 1997T, 2015               |                 |                      | Syngenta                       |
| 178  | Bifenthrin           | 1992                    | 2009T, 2010R              |                 |                      | FMC                            |
| 179  | Cycloxydim           | 1992                    | 2009T, 2012R              |                 |                      | BASF                           |
| 180  | Dithianon            | 1992                    | 2010T, 2013R              |                 |                      | BASF                           |
| 181  | Myclobutanil         | 1992                    | 2014                      |                 |                      | Support from Dow AgroSciences  |
| 182  | Penconazole          | 1992                    | 2016                      |                 |                      | Syngenta                       |
| 184  | Etofenprox           | 1993                    | 2011T,R                   |                 |                      | Mitsui Chemical Inc            |
| 185  | Fenpropathrin        | 1993                    | 2012T, 2014               |                 |                      | Sumitomo Chemical              |
| 189  | Tebuconazole         | 1994                    | 2010T, 2011R              |                 |                      | Bayer CropScience              |
| 190  | Teflubenzuron        | 1994                    | 2016                      |                 |                      | Support unknown                |
| 194  | Haloxfop             | 1995                    | 2006T, 2009R              |                 |                      | Dow AgroSciences               |
| 196  | Tebufenozide         | 1996                    | 2003T(ARfD)               |                 |                      | Dow AgroSciences               |
| 201  | Chlorpropham         | 2000                    | 2005T(ADI, ARfD)          |                 |                      | Cerex Agri                     |
| 999  | Ethion               | 2018                    | None                      |                 |                      | n/a                            |
| 999  | Hexaconazole         | 2018                    | None                      |                 |                      | n/a                            |
| 999  | Iprobenfos           | 2018                    | None                      |                 |                      | n/a                            |
| 015  | Chlormequat          | 1970                    | 1997T, 1999T(ARfD) 1994   | 2017            | 2017                 | Support from BASF              |
| 051  | Methidathion         | 1972                    | 1997T, 1992               | 2017            | 2017                 | Not supported                  |
| 072  | Carbendazim          | 1973                    | 1995T, 2005T(ARfD), 1998R | 2017            | 2017                 | Nippon Soda                    |
| 126  | Oxamyl               | 1980                    | 2002                      | 2017            | 2017                 | Dupont                         |
| 187  | Clethodim            | 1994                    | 1999T(ARfD)               | 2017            | 2017                 | Support from USA               |
| 188  | Fenpropimorph        | 1994                    | 2004T(ARfD)               | 2017            | 2017                 | Support from BASF              |
| 193  | Fenpyroximate        | 1995                    | 2007T(ARfD)               | 2017            | 2017                 | Nihon Nohyaku                  |
| 199  | Kresoxim-methyl      | 1998                    | None                      | 2017            | 2017                 | BASF                           |
| 070  | Bromopropylate       | 1973                    | 1993                      | 2018            | 2018                 | not supported                  |
| 110  | Imazalil             | 1977                    | 1977, 2000T, 2005T(ARfD)  | 2018            | 2018                 | Janssen                        |
| 138  | Metalaxyl            | 1982                    | 2002T                     | 2018            | 2018                 | Quimicas del Vallés - SCC GmbH |
| 191  | Tolclofos-methyl     | 1994                    | None                      | 2018            | 2018                 | Sumitomo Chemical              |
| 195  | Flumethrin           | 1996                    | None                      | 2018            | 2018                 | Bayer CropScience              |
| 002  | Azinphos-methyl      | 1965                    | 2007T                     | 2019            | 2019                 | Makhteshim                     |
| 027  | Dimethoate           | 1965                    | 1996T, 2003T(ARfD), 1998R | 2019            | 2019                 |                                |
| 060  | Phosalone            | 1972                    | 1997T, 2001T(ARfD), 1994R | 2019            | 2019                 | Cheminova                      |
| 083  | Dicloran             | 1974                    | 1998                      | 2019            | 2019                 | Gowan                          |

| Code | Chemical  | Initial JMPR evaluation | Periodic reviews                        | Scheduled (Tox)      | Scheduled (Residues) | Notes   |
|------|---|-------------------------|---|----------------------|----------------------|---|
| 096  | Carbofuran                                      | 1976                    | 1996T, 2008T(ARfD), 1997R               | 2019                 | 2019                 | FMC   |
| 117  | Aldicarb  | 1979                    | 1992T, 1995T(ARfD), 1994R               | 2019                 | 2019                 | AgLogicChemcial LLC   |
| 122  | Amitraz   | 1980                    | 1998T                                   | 2019                 | 2019                 | Arysta Lifesciences   |
| 145  | Carbosulfan                                     | 1984                    | 2003T, 1997R                            | 2019                 | 2019                 |   |
| 192  | Fenarimol                                       | 1995                    | None                                    | 2019                 | 2019                 |   |
| 022  | Diazinon  | 1965                    | 2006T, 1993                             | 2020                 | 2020                 | Makhteshim-Agan   |
| 105  | Dithiocarbamates - incl propineb, ferbam, ziram | 1965                    | 1993R/1996T ferbam/ziram, 2004 propineb | 2020                 | 2020                 | Individual DTCs are evaluated, propineb 2004, ferbam/ziram 1996 |
| 035  | Ethoxyquin                                      | 1969                    | 2005T, 1999R                            | 2020                 | 2020                 | No manufacturer   |
| 064  | Quintozene                                      | 1969                    | 1995                                    | 2020                 | 2020                 | Chemtura  |
| 101  | Pirimicarb                                      | 1976                    | 2004                                    | 2020                 | 2020                 | Syngenta  |
| 111  | Iprodione                                       | 1977                    | 1995T, 1994R                            | 2020                 | 2020                 | Support from BASF   |
| 142  | Prochloraz                                      | 1983                    | 2001T, 2004R                            | 2020                 | 2020                 | Bayer CropScience   |
| 202  | Fipronil  | 2000/2001               | None                                    | 2020                 | 2020                 | BASF  |
| 046  | Hydrogen phosphide                              | 1965                    | 1966T                                   | 2021                 | 2021                 | Support unknown   |
| 047  | Bromide ion                                     | 1968                    | 1988T                                   | 2021                 | 2021                 | Support unknown   |
| 109  | Fenbutatin oxide                                | 1977                    | 1992T, 1993R                            | 2021                 | 2021                 | Not supported by BASF   |
| 114  | Guazatine                                       | 1977                    | 1997                                    | 2021                 | 2021                 | Guideline limits – citrus, pome fruit                           |
| 120  | Permethrin                                      | 1979                    | 1999T                                   | 2021                 | 2021                 | Not supported by manufacturer                                   |
| 130  | Diflubenzuron                                   | 1981                    | 2001T, 2002R                            | JECFA comments       |                      | Chemtura  |
| 049  | Malathion                                       | 1965                    | 1997T, 2003T(ARfD), 1999R               | Listed-not scheduled | Listed-not scheduled |   |
| 059  | Parathion-methyl                                | 1965                    | 1995T, 2000R                            | Listed-not scheduled | Listed-not scheduled | Cheminova   |
| 062  | Piperonyl butoxide                              | 1965                    | 1995T, 2001T(ARfD), 2001R               | Listed-not scheduled | Listed-not scheduled | Endura  |
| 030  | Diphenylamine                                   | 1969                    | 1998T, 2001R                            | Listed-not scheduled | Listed-not scheduled | Cerex Agri  |
| 056  | 2-phenylphenol                                  | 1969                    | 1999                                    | Listed-not scheduled | Listed-not scheduled | No manufacturer   |
| 087  | Dinocap   | 1969                    | 1998T, 2000T(ARfD)                      | Listed-not scheduled | Listed-not scheduled | Not supported by manufacturer                                   |
| 020  | 2,4-D   | 1970                    | 1996T, 1998R, 2001T(ARfD),              | Listed-not scheduled | Listed-not scheduled | Dow AgroSciences  |
| 039  | Fenthion  | 1971                    | 1995, 1997T(ARfD)                       | Listed-not scheduled | Listed-not scheduled | Not supported by manufacturer                                   |
| 074  | Disulfoton                                      | 1973                    | 1996T(ARfD)                             | Listed-not scheduled | Listed-not scheduled | Bayer CropScience   |
| 079  | Amitrole  | 1974                    | 1997T, 1998R                            | Listed-not scheduled | Listed-not scheduled | Nufarm  |
| 094  | Methomyl  | 1975                    | 2001                                    | Listed-not scheduled | Listed-not scheduled | DuPont  |
| 102  | Maleic hydrazide                                | 1976                    | 1996T, 1998R                            | Listed-not scheduled | Listed-not scheduled | Chemtura  |
| 144  | Bitertanol                                      | 1983                    | 1998T, 1999R                            | Listed-not scheduled | Listed-not scheduled | Bayer CropScience   |
| 197  | Fenbuconazole                                   | 1997                    | None                                    | Listed-not scheduled | Listed-not scheduled | Dow AgroSciences  |
| 200  | Pyriproxyfen                                    | 1999                    | None                                    | Listed-not scheduled | Listed-not scheduled | Sumitomo Chemical / Valent Canada                               |
| 203  | Spinosad  | 2001                    | None                                    | Listed-not scheduled | Listed-not scheduled | Dow AgroSciences  |
| 206  | Imidacloprid                                    | 2001                    | None                                    | Listed-not scheduled | Listed-not scheduled | Bayer CropScience   |
| 204  | Esfenvalerate                                   | 2002                    | None                                    | Never scheduled      | Never scheduled      | Sumitomo Chemical   |
| 205  | Flutolanil                                      | 2002                    | None                                    | Never scheduled      | Never scheduled      | NIhon Nohyaku   |
| 212  | Metaxyl-M                                       | 2002                    | None                                    | Never scheduled      | Never scheduled      | Syngenta  |
| 207  | Cyprodinil                                      | 2003                    | None                                    | Never scheduled      | Never scheduled      | Syngenta  |
| 208  | Famoxadone                                      | 2003                    | None                                    | Never scheduled      | Never scheduled      | DuPont  |
| 209  | Methoxyfenozide                                 | 2003                    | None                                    | Never scheduled      | Never scheduled      | Dow AgroSciences  |
| 210  | Pyraclostrobin                                  | 2003                    | None                                    | Never scheduled      | Never scheduled      | BASF  |

| Code | Chemical            | Initial JMPR evaluation | Periodic reviews | Scheduled (Tox) | Scheduled (Residues) | Notes                           |
|------|---------------------|-------------------------|------------------|-----------------|----------------------|---------------------------------|
| 211  | Fludioxonil         | 2004                    | None             | Never scheduled | Never scheduled      | Syngenta                        |
| 213  | Trifloxystrobin     | 2004                    | None             | Never scheduled | Never scheduled      | Bayer CropScience               |
| 214  | Dimethenamid-P      | 2005                    | None             | Never scheduled | Never scheduled      | BASF                            |
| 215  | Fenhexamid          | 2005                    | None             | Never scheduled | Never scheduled      | Bayer CropScience               |
| 216  | Indoxacarb          | 2005                    | None             | Never scheduled | Never scheduled      | DuPont                          |
| 217  | Novaluron           | 2005                    | None             | Never scheduled | Never scheduled      | Makhteshim-Agan                 |
| 218  | Sulfuryl fluoride   | 2005                    | None             | Never scheduled | Never scheduled      | Dow AgroSciences                |
| 219  | Bifenazate          | 2006                    | None             | Never scheduled | Never scheduled      | Chemtura                        |
| 221  | Boscalid            | 2006                    | None             | Never scheduled | Never scheduled      | BASF                            |
| 222  | Quinoxifen          | 2006                    | None             | Never scheduled | Never scheduled      | Dow AgroSciences                |
| 223  | Thiacloprid         | 2006                    | None             | Never scheduled | Never scheduled      | Bayer CropScience               |
| 220  | Aminopyralid        | 2007                    | None             | Never scheduled | Never scheduled      | Dow AgroSciences                |
| 224  | Difenoconazole      | 2007                    | None             | Never scheduled | Never scheduled      | Syngenta                        |
| 225  | Dimethomorph        | 2007                    | None             | Never scheduled | Never scheduled      | BASF                            |
| 226  | Pyrimethanil        | 2007                    | None             | Never scheduled | Never scheduled      | Bayer CropScience               |
| 227  | Zoxamide            | 2007                    | None             | Never scheduled | Never scheduled      | Gowan                           |
| 229  | Azoxystrobin        | 2008                    | None             | Never scheduled | Never scheduled      | Syngenta                        |
| 230  | Chlorantraniliprole | 2008                    | None             | Never scheduled | Never scheduled      | DuPont                          |
| 231  | Mandipropamid       | 2008                    | None             | Never scheduled | Never scheduled      | Syngenta                        |
| 232  | Prothioconazole     | 2008                    | None             | Never scheduled | Never scheduled      | Bayer CropScience               |
| 233  | Spinetoram          | 2008                    | None             | Never scheduled | Never scheduled      | Dow AgroSciences                |
| 234  | Spirotetramat       | 2008                    | None             | Never scheduled | Never scheduled      | Bayer CropScience               |
| 235  | Fluopicolide        | 2009                    | None             | Never scheduled | Never scheduled      | Bayer CropScience               |
| 236  | Metaflumizone       | 2009                    | None             | Never scheduled | Never scheduled      | BASF                            |
| 237  | Spirodiclofen       | 2009                    | None             | Never scheduled | Never scheduled      | Bayer CropScience               |
| 238  | Clothianidin        | 2010                    | None             | Never scheduled | Never scheduled      | Sumitomo Chemical               |
| 239  | Cyproconazole       | 2010                    | None             | Never scheduled | Never scheduled      | Syngenta                        |
| 240  | Dicamba             | 2010                    | None             | Never scheduled | Never scheduled      | BASF                            |
| 241  | Etoxazole           | 2010                    | None             | Never scheduled | Never scheduled      | Sumitomo Chemical               |
| 242  | Flubendiamide       | 2010                    | None             | Never scheduled | Never scheduled      | Nihon Nohyaku                   |
| 243  | Fluopyram           | 2010                    | None             | Never scheduled | Never scheduled      | Bayer CropScience               |
| 244  | Meptyldinocap       | 2010                    | None             | Never scheduled | Never scheduled      | Dow AgroSciences                |
| 245  | Thiamethoxam        | 2010                    | None             | Never scheduled | Never scheduled      | Syngenta                        |
| 246  | Acetamiprid         | 2011                    | None             | Never scheduled | Never scheduled      | Nippon Soda                     |
| 247  | Emamectin-benzoate  | 2011                    | None             | Never scheduled | Never scheduled      | Syngenta                        |
| 248  | Flutriafol          | 2011                    | None             | Never scheduled | Never scheduled      | Cheminova                       |
| 249  | Isopyrazam          | 2011                    | None             | Never scheduled | Never scheduled      | Syngenta                        |
| 250  | Propylene oxide     | 2011                    | None             | Never scheduled | Never scheduled      | Aberco                          |
| 251  | Saflufenacil        | 2011                    | None             | Never scheduled | Never scheduled      | BASF                            |
| 252  | Sulfoxaflor         | 2011                    | None             | Never scheduled | Never scheduled      | Dow AgroSciences                |
| 253  | Penthiopyrad        | 2011                    | None             | Never scheduled | Never scheduled      | DuPont                          |
| 253  | Ametoctradin        | 2012                    | None             | Never scheduled | Never scheduled      | [BASF] – USA                    |
| 255  | Dinotefuran         | 2012                    | None             | Never scheduled | Never scheduled      | [Mitsui Chemicals Agro] – Japan |
| 256  | Fluxapyroxad        | 2012                    | None             | Never scheduled | Never scheduled      | [BASF] – USA                    |

| Code | Chemical                   | Initial JMPR evaluation | Periodic reviews | Scheduled (Tox) | Scheduled (Residues) | Notes                      |
|------|----------------------------|-------------------------|------------------|-----------------|----------------------|----------------------------|
| 257  | MCPA                       | 2012                    | None             | Never scheduled | Never scheduled      | [Nufarm] – USA             |
| 258  | Picoxystrobin              | 2012                    | None             | Never scheduled | Never scheduled      | [Dupont] -USA              |
| 259  | Sedaxane                   | 2012                    | None             | Never scheduled | Never scheduled      | [Syngenta] – USA           |
| 261  | Benzovindiflupyr           | 2013                    | None             | Never scheduled | Never scheduled      | Syngenta                   |
| 262  | Bixafen                    | 2013                    | None             | Never scheduled | Never scheduled      | Bayer CropScience          |
| 263  | Cyantraniliprole           | 2013                    | None             | Never scheduled | Never scheduled      | DuPont                     |
| 266  | Imazapic                   | 2013                    | None             | Never scheduled | Never scheduled      | BASF                       |
| 267  | Imazapyr                   | 2013                    | None             | Never scheduled | Never scheduled      | BASF                       |
| 268  | Isxaflutole                | 2013                    | None             | Never scheduled | Never scheduled      | Bayer CropScience          |
| 269  | Tolfenpyrad                | 2013                    | None             | Never scheduled | Never scheduled      | Nihon Nohyaku              |
| 270  | Triflumizole               | 2013                    | None             | Never scheduled | Never scheduled      | Nippon Soda                |
| 271  | Trinexapac                 | 2013                    | None             | Never scheduled | Never scheduled      | Syngenta                   |
| 264  | Fenamidone                 | 2013/14                 | None             | Never scheduled | Never scheduled      | Bayer CropScience          |
| 265  | Fluensulfone               | 2013/14                 | None             | Never scheduled | Never scheduled      | Makhteshim                 |
| 272  | Aminocyclopyrachlor        | 2014                    | None             | Never scheduled | Never scheduled      | DuPont                     |
| 273  | Cyflumetofen               | 2014                    | None             | Never scheduled | Never scheduled      | BASF                       |
| 274  | Dichlobenil                | 2014                    | None             | Never scheduled | Never scheduled      | Chemtura                   |
| 275  | Flufenoxuron               | 2014                    | None             | Never scheduled | Never scheduled      | BASF                       |
| 276  | Imazamox                   | 2014                    | None             | Never scheduled | Never scheduled      | BASF                       |
| 277  | Mesotrione                 | 2014                    | None             | Never scheduled | Never scheduled      | Syngenta                   |
| 278  | Metrafenone                | 2014                    | None             | Never scheduled | Never scheduled      | BASF                       |
| 279  | Pymetrozine                | 2014                    | None             | Never scheduled | Never scheduled      | Syngenta                   |
| 280  | Acetochlor                 | 2015                    | None             | Never scheduled | Never scheduled      | Monsanto                   |
| 281  | Cyazofamid                 | 2015                    | None             | Never scheduled | Never scheduled      | Ishihara Sangyo Kaisha     |
| 282  | Flonicamid                 | 2015                    | None             | Never scheduled | Never scheduled      | Ishihara Sangyo Kaisha     |
| 284  | Flumioxazin                | 2015                    | None             | Never scheduled | Never scheduled      | Sumitomo                   |
| 285  | Flupyradifurone            | 2015                    | None             | Never scheduled | Never scheduled      | Bayer CropScience          |
| 286  | Lufenuron                  | 2015                    | None             | Never scheduled | Never scheduled      | Syngenta                   |
| 287  | Quinclorac                 | 2015                    | None             | Never scheduled | Never scheduled      | BASF                       |
| 283  | Fluazifop-p-butyl          | 2015                    | None             | Never scheduled | Never scheduled      | Syngenta                   |
| 288  | Acibenzolar-S methyl       | 2016                    | None             | Never scheduled | Never scheduled      | Syngenta                   |
| 289  | Imazethapyr                | 2016                    | None             | Never scheduled | Never scheduled      | BASF                       |
| 290  | Isofetamid                 | 2016                    | None             | Never scheduled | Never scheduled      | Ishihara Sangyo Kaisha     |
| 291  | Oxathiapiprolin            | 2016                    | None             | Never scheduled | Never scheduled      | DuPont                     |
| 292  | Pendimethalin              | 2016                    | None             | Never scheduled | Never scheduled      | BASF                       |
| 293  | Pinoxaden                  | 2016                    | None             | Never scheduled | Never scheduled      | Syngenta                   |
| 294  | Spiromesifen               | 2016                    | None             | Never scheduled | Never scheduled      | Bayer CropScience          |
| 999  | Bicyclopyrone              | 2017                    | none             | Never scheduled | Never scheduled      | Syngenta                   |
| 999  | Cyclaniliprole             | 2017                    | None             | Never scheduled | Never scheduled      | Ishihara Sangyo Kaisha     |
| 999  | Fenazaquin                 | 2017                    | None             | Never scheduled | Never scheduled      | Gowan                      |
| 999  | Fenpyrazamine              | 2017                    | None             | Never scheduled | Never scheduled      | Sumitomo chemical          |
| 999  | Isoprothiolane             | 2017                    | None             | Never scheduled | Never scheduled      | Nihon Nohyaku              |
| 999  | Natamycin                  | 2017                    | none             | Never scheduled | Never scheduled      | DSM Food Specialities      |
| 999  | Phosphorous acid / fosetyl | 2017                    | None             | Never scheduled | Never scheduled      | Nufarm / Bayer CropScience |

| Code | Chemical                 | Initial JMPR evaluation | Periodic reviews | Scheduled (Tox) | Scheduled (Residues) | Notes                                   |
|------|--------------------------|-------------------------|------------------|-----------------|----------------------|---|
| 999  | Triflumezopyrim          | 2017                    | None             | Never scheduled | Never scheduled      | DuPont                                  |
| 999  | Ethiprole                | 2018                    | None             | Never scheduled | Never scheduled      | Bayer CropScience                       |
| 999  | Fluazinam                | 2018                    | None             | Never scheduled | Never scheduled      | ISK Biosciences / Isihara Sangyo Kaisha |
| 999  | Mandestrobin             | 2018                    | None             | Never scheduled | Never scheduled      | Sumitomo Chemical                       |
| 999  | Norflurazon              | 2018                    | None             | Never scheduled | Never scheduled      | Tessenderlo Kerley Inc.                 |
| 999  | Pydiflumetofen SYN545794 | 2018                    | None             | Never scheduled | Never scheduled      | Syngenta                                |
| 999  | Pyriofenone              | 2018                    | None             | Never scheduled | Never scheduled      | ISK Biosciences / Isihara Sangyo Kaisha |
| 999  | Quinalophos              | 2018                    | None             | Never scheduled | Never scheduled      | na                                      |
| 999  | Tioxazafen               | 2018                    | None             | Never scheduled | Never scheduled      | Monsanto                                |
| 999  | Tricyclazole             | 2018                    | None             | Never scheduled | Never scheduled      | na                                      |
| 999  | XDE-777                  | 2018                    | None             | Never scheduled | Never scheduled      | Dow AgroSciences                        |
| 34   | Ethion                   | 2018                    | none             | Never scheduled | Never scheduled      | Na                                      |
| 170  | Hexaconazole             | 2018                    | none             | Never scheduled | Never scheduled      |   |
| 999  | Iprobenfos               | 2018                    | none             | Never scheduled | Never scheduled      |   |
| 999  | Pyrifluquinazon          | 2018 2019T              | None             | Never scheduled | Never scheduled      | Nihon Nohyaku                           |
| 254  | Chlorfenapyr             | 2018 R, 2012T           | None             | Never scheduled | Never scheduled      | [BASF] – Brazil                         |
| 999  | Metconazole              | 2019                    | None             | Never scheduled | Never scheduled      | Valent USA / Kureha                     |
| 999  | Afidopyropen             | 2019                    | None             | Never scheduled | Never scheduled      | Meiji SeikaPharma / BASF                |
| 999  | BAS 750F                 | 2019                    | None             | Never scheduled | Never scheduled      | BASF                                    |
| 999  | Broflalinide             | 2019                    | None             | Never scheduled | Never scheduled      | Landis Internaitonal / Mitsui Chemicals |
| 999  | SYN546330                | 2019                    | None             | Never scheduled | Never scheduled      | Syngenta                                |
| 999  | Triflmuron               | 2019                    | None             | Never scheduled | Never scheduled      | Bayer                                   |
| 999  | orthosulfamuron          | 2019                    | none             | Never scheduled | Never scheduled      |   |
| 999  | SYN407                   | 2020                    | None             | Never scheduled | Never scheduled      | Syngenta                                |
| 999  | Ethafluralin             | 2020                    | none             | Never scheduled | Never scheduled      | Gowan                                   |
| 999  | Fluazaindolizine         | 2020                    | none             | Never scheduled | Never scheduled      | DuPont                                  |

TABLE 4: CHEMICAL-COMMODITY COMBINATIONS FOR WHICH SPECIFIC GAP IS NO LONGER SUPPORTED

| Code | Chemical  | Comments   |
|------|-----------|--|
| 49   | Malathion | Apple; citrus; grapes (EU GAP no longer supported by EU)                             |
| 39   | Fenthion  | Cherry; citrus fruits; olive oil (virgin); olives (EU GAP no longer supported by EU) |