

09/02 8 May 2002

FINAL ASSESSMENT REPORT (INQUIRY - s.17)

APPLICATION A451

MAXIMUM RESIDUE LIMITS

EXECUTIVE SUMMARY

- This Application (A451) seeks to amend Maximum Residue Limits (MRLs) for agricultural and veterinary chemicals in the *Food Standards Code*.
- This is a routine Application from the National Registration Authority for Agricultural and Veterinary Chemicals (NRA), to update the *Food Standards Code* in order to reflect current registration status of agricultural and veterinary chemicals in use in Australia.
- On 24 November 2000, the Australia New Zealand Food Standards Council (ANZFSC) adopted the *Australia New Zealand Food Standards Code* (published as Volume 2 of the *Food Standards Code*). Subsequently, all applications to amend MRLs will now be incorporated into Volumes 1 and 2 of the *Food Standards Code* (Standard A14 and Standard 1.4.2 respectively). Consequently, all references throughout this document to the *Food Standards Code* are references to both Volumes 1 and 2 of the *Food Standards Code*.
- The Agreement between the Commonwealth of Australia and the Government of New Zealand to establish a system for the development of joint food standards (the Treaty), excluded MRLs for agricultural and veterinary chemicals in food from the joint Australia New Zealand food standards setting system. Australia and New Zealand separately develop MRLs for agricultural and veterinary chemicals in food.
- There are <u>no</u> MRLs for antibiotic residues in this application.
- The NRA has assessed appropriate toxicology, residue, animal transfer, processing and metabolism studies, in accordance with the *Guidelines for Registering Agricultural and Veterinary Chemicals, the Agricultural and Veterinary Requirements Series, 1997*, to support the use of chemicals on commodities as outlined in this Application.
- The Therapeutic Goods Administration (TGA) of the Commonwealth Department of Health and Ageing has undertaken an appropriate toxicological assessment of the chemicals and has established relevant acceptable daily intakes (ADI).
- ANZFA is satisfied from the accompanying dietary modelling performed that the residues associated with the proposed MRLs do not represent an unacceptable risk to public health and safety.
- None of ANZFA's section 10 objectives are compromised by the proposed changes. The requested variations to the *Food Standards Code* should commence on gazettal.
- The Regulation Impact Assessment supports the requested MRLs. ANZFA considers that this Application raises matters that constitute a potential Sanitary and Phytosanitary matter and has raised a World Trade Organization (WTO) notification at Initial/Draft Assessment. No WTO Member has made a submission on this Application.

1. ISSUES

The NRA has registered or varied the registration of non-antibiotic agricultural and veterinary chemicals for the uses associated with the MRLs in Application A451 and is now seeking to amend the MRLS in the *Food Standards Code* to:

- add MRLs for certain foods for cypermethrin, imazapyr, imazethapyr, methomyl and trifluralin;
- change MRLs for certain foods for cyfluthrin, fipronil, fluazifop-butyl methomyl and tebufenozide;
- delete MRLs for certain foods for pymetrozine and trifluralin; and
- add temporary MRLs for certain foods for dithiocarbamates, emamectin, fipronil, fluvalinate, imidacloprid, methomyl, metolachlor, permethrin, pirimicarb, procymidone, pymetrozine, sethoxydim, spinosad, triadimenol and trifluralin.

ANZFA has provided specific details of the proposed MRL changes in the 'Summary of Proposed MRLs' (Attachment 2)

1.1 Antibiotic MRLs

There are no MRLs for antibiotic residues in this Application.

1.2 Ethylene Oxide MRLs

The NRA has applied to delete the MRLs for ethylene oxide from Standard A14 and Standard 1.4.2 of the *Food Standards Code*. These MRLs ceased to have effect on 30 September 2001 and as a consequence have already been deleted from the *Food Standards Code*. Limits for ethylene oxide in herbs, spices and dried vegetable seasonings have been included in Standard A16 and Standard 1.3.3 of the *Food Standards Code*.

2. BACKGROUND

In Australia, the NRA is responsible for registering agricultural and veterinary chemical products, granting permits for use of chemical products and regulating the sale of agricultural and veterinary chemical products. Following the sale of these products, the use of the chemicals is then regulated by State and Territory 'control of use' legislation.

Before registering such a product, the NRA must be satisfied that the use of the product will not result in residues that would be an undue risk to the safety of people, including people using anything containing its residues.

When a chemical product is registered for use or a permit for use granted, the NRA includes MRLs in its NRA MRL Standard. These MRLs are then adopted into control of use legislation in some jurisdictions and assist States and Territories in regulating the use of agricultural and veterinary chemicals.

2.1 Maximum Residue Limits

The MRL is the highest concentration of a chemical residue that is legally permitted or accepted in a food. The MRL does <u>not</u> indicate the amount of chemical that is always present in a treated food but it does indicate the highest residue that could possibly result from the registered conditions of use. The concentration is expressed in milligrams per kilogram (mg/kg) of the food.

MRLs assist in indicating whether an agricultural or veterinary chemical product has been used according to its registered use and if the MRL is exceeded then this indicates a likely misuse of the chemical product. MRLs are also used as standards for the international trade in food. MRLs, while not direct public health limits, act to protect public health and safety by minimising residues in food consistent with the effective control pests and diseases.

As stated above, the NRA includes MRLs in their NRA MRL Standard when it registers a chemical product for use or grants a permit for use. The NRA then notifies ANZFA of these MRLs so that ANZFA may consider them for inclusion into the *Food Standards Code*.

In relation to MRLs, ANZFA's role is to ensure that the potential residues in treated food do not represent an unacceptable risk to public health and safety. ANZFA will <u>not</u> recommend MRLs for inclusion in the *Food Standards Code* where the dietary exposure to the residues of a chemical could represent an unacceptable risk to public health and safety. In assessing this risk, ANZFA conducts dietary exposure assessments in accordance with internationally accepted practices and procedures.

In summary, the MRLs in the NRA MRL Standard are used in some jurisdictions to assist in regulating the use of agricultural and veterinary chemical products under State and Territory 'control-of-use' legislation. Whereas the MRLs in the *Food Standards Code* apply in relation to the sale of food under State and Territory food legislation and the inspection of imported foods by the Australian Quarantine and Inspection Service.

2.2 Maximum Residue Limit applications

After registering the agricultural or veterinary chemical products, based on their scientific evaluations, the NRA makes applications to ANZFA to include MRLs in the *Food Standards Code*. ANZFA reviews the information provided by the NRA and validates whether the dietary exposure is within agreed safety limits. If satisfied that the residues do not represent an unacceptable risk to public health and safety and following consultation, ANZFA makes recommendations to ANZFSC to adopt a draft variation to the *Food Standards Code* and include the MRLs in the *Food Standards Code*. The inclusion of the MRLs in the *Food Standards Code* has the effect of allowing treated produce to be legally sold, provided that the residues in the treated produce do not exceed the MRL.

Changes to Australian MRLs reflect the changing patterns of agricultural and veterinary chemicals available to farmers. These changes include both the development of new products and crop uses, and the withdrawal of older products following review.

2.3 Food Standards-setting in Australia and New Zealand

The Agreement between the Commonwealth of Australia and the Government of New Zealand to establish a system for the development of joint food standards (the Treaty), excluded MRLs for agricultural and veterinary chemicals in food from the joint food standards setting system. Australia and New Zealand separately and independently develop MRLs for agricultural and veterinary chemicals in food.

2.4 Trans Tasman Mutual Recognition Arrangement

Following the commencement of the Trans Tasman Mutual Recognition Arrangement (TTMRA) between Australia and New Zealand on 1 May 1998:

- food produced or imported into Australia, which complies with Standard A14 or Standard 1.4.2 of the *Food Standards Code* can be legally sold in New Zealand; and
- food produced or imported into New Zealand, which complies with the *New Zealand* (*Maximum Residue Limits of Agricultural Compounds*) Mandatory Food Standard, 1999 can be legally sold in Australia.

2.5 Food Standards Code

On 24 November 2000, ANZFSC adopted the *Australia New Zealand Food Standards Code* (published as Volume 2 of the *Food Standards Code*). Subsequently all applications to amend MRLs will now also be incorporated into Volumes 1 and 2 of the *Food Standards Code* (Standard A14 and Standard 1.4.2 respectively). Consequently all references throughout this document to the *Food Standards Code* are references to both Volumes 1 and 2 of the *Food Standards Code*.

2.6 Limit of quantification

Some of the proposed MRLs in this Application are at the limit of quantification (LOQ) and are indicated by an * in the 'Summary of the Requested MRLs for each Chemical' (Attachment 2). The LOQ is the lowest concentration of an agricultural or veterinary chemical residue that can be identified and quantitatively measured in a specified food, agricultural commodity or animal feed with an acceptable degree of certainty by a regulatory method of analysis. The inclusion of the MRLs at the LOQ means that no detectable residues of the relevant chemical should occur. ANZFA incorporates MRLs at the LOQ in the *Food Standards Code* to assist in identifying a practical benchmark for enforcement and to allow for future developments in methods of detection that could lead to a lowering of this limit.

2.7 MRLs for Permits

Many of the proposed MRLs in this Application are temporary and are indicated by a 'T' in the Summary of the Requested MRLs for A451 (Attachment 1). These MRLs may include uses associated with:

• the minor use program;

- off-label permits for minor and emergency uses; or
- trial permits for research.

ANZFA does not issue permits or grant permission for the temporary use of agricultural and veterinary chemicals. Further information on MRLs for permits can be found on the website of the NRA at <u>http://www.nra.gov.au</u> or by contacting the NRA on +61 2 6272 5158.

Appropriate toxicology, residue, animal transfer, processing and metabolism studies were provided to the NRA in accordance with the *Guidelines for Registering Agricultural and Veterinary Chemicals, the Agricultural and Veterinary Requirements Series, 1997* to support the MRLs in the commodities as outlined in this application. Full evaluation reports for individual chemicals are available upon request from the relevant Project Manager at ANZFA on +61 2 6271 2222.

3. OBJECTIVE

The objective of the proposed amendment in this Application is to allow the legal sale under food legislation of legally treated produce. The NRA has already registered or varied the registration of specific chemical products under the NRA's legislation, and now seeks, by way of this Application to include the relevant MRLs in to the *Food Standards Code*.

4. DIETARY EXPOSURE ASSESSMENT

Before an agricultural or veterinary chemical is registered, the *Agricultural and Veterinary Chemicals Code, 1994* requires the NRA to be satisfied that there will not be any appreciable risk to the consumer, to the person handling, applying or administering the chemical, to the environment, to the target crop or animal or to trade in an agricultural commodity. ANZFA's responsibility is to ensure that the residues in food resulting from the use of agricultural and veterinary chemical products do not represent an unacceptable risk to public health and safety.

ANZFA assessed the potential public health implications by comparing the dietary exposure with the relevant health standard. There are a number of methods for estimating dietary exposure based on the type of information that is available. The two that were considered in this application were the National Estimated Daily Intake (NEDI) and the National Estimated Short Term Intake (NESTI).

4.1 Acceptable Daily Intake (ADI)

The ADI is the daily intake of an agricultural or veterinary chemical, which, during the consumer's entire lifetime, appears to be without appreciable risk to the health of the consumer. This is based on all the known facts at the time of the evaluation of the chemical. The ADI is expressed in milligrams of the chemical per kilogram of body weight.

ANZFA considers that the dietary exposure to the residues of a chemical is acceptable where the best estimate of dietary exposure does not exceed the ADI.

4.2 National Estimated Daily Intake

The NEDI may represent a more realistic estimate of dietary exposure if the data are available and it is the preferred calculation. It may incorporate more refined food consumption data including that for specific sub-groups of the population. The NEDI calculation may take into account such factors as the proportion of the crop or commodity treated; residues in edible portions and the effects of processing and cooking on residue levels; and may use median residue levels from supervised trials rather than the MRL to represent agricultural and veterinary chemical residue levels. When adequate information is available, monitoring and surveillance data or total diet studies may also be used such as the Australian Total Diet Survey (ATDS).

The chronic dietary risk estimated by the NEDI calculation encompasses all registered/temporary uses of MRLs and dietary intake data from the 1995 National Nutrition Survey of Australia. The calculation has been made in accordance with the Guidelines for predicting dietary intake of pesticide residues (revised) (World Health Organisation, 1997).

4.3 National Estimated Short Term Intake

The NESTI is used to estimate acute dietary exposure. Acute (short term) dietary exposure assessments are undertaken when an acute reference dose (ARfD) has been determined for a chemical. Acute dietary exposures are normally only estimated based on consumption of raw unprocessed commodities (fruit and vegetables) but may include consideration of meat, offal, cereal, milk or dairy product consumption on a case-by-case basis.

The NESTI calculation incorporates the large portion (97.5 percentile) food consumption data and can take into account such factors as:

- the highest residue on a composite sample of an edible portion;
- the supervised trials median residue (STMR) that represents typical residues in an edible portion resulting from the maximum permitted pesticide use pattern;
- processing factors which affect changes from the raw commodity to the consumed food; and
- the variability factor.

ANZFA and the NRA have used the ARfD set by the TGA and Joint FAO/WHO Meeting on Pesticide Residues, the consumption data from the 1995 NNS and the MRL when the STMR is not available to calculate the NESTIs. The ARfD of a chemical is the estimate of the amount of a substance in food, expressed on a body weight basis, that can be ingested over a short period of time, usually during one meal or one day, without appreciable health risk to the consumer, on the basis of all the known facts at the time of evaluation. ANZFA considers that the acute dietary exposure to the residues of a chemical is acceptable where the acute dietary exposure does not exceed the ARfD.

4.4 Food Consumption Data

The NRA and ANZFA have agreed that all dietary exposure assessments for agricultural and veterinary chemicals undertaken by the NRA will be based on food consumption data for raw commodities, derived from individual dietary records from the latest 1995 National Nutrition Survey (NNS). The Australian Bureau of Statistics with the Commonwealth Department of Health and Age Care undertook the NNS survey over a 12-month period (1995-early 1996). The sample of 13,858 respondents aged two years and older was a representative sample of the Australian population and, as such, a diversity of food consumption patterns was reported. A computer program developed by ANZFA derives raw commodity consumption data used in the NRA dietary exposure assessments. The program accesses the 13,858 individual dietary records from the 1995 NNS, and applies recipes to all mixed foods consumed by each individual to enable the total amounts of raw commodity equivalents consumed per individual person to be calculated. Population statistics (mean consumption, all respondents) are then derived from these individual raw commodity totals for use in NRA dietary exposure assessments.

For all new chemicals, review chemicals and those where the initial dietary exposure assessment based on mean consumption data appears to approach or exceed the ADI, the ANZFA computer program is used to calculate the total dietary exposure to a given chemical for each individual in the survey. Population statistics such as mean chemical exposure are then derived, thus taking into account as much as possible, individual dietary patterns from a diverse and representative sample of the Australian population. This program also enables high consumers of a given chemical to be identified, as well as the major foods contributing to total dietary exposure for that chemical.

5. EVALUATION OF ISSUES RAISED IN RESPONSE TO THE DRAFT ASSESSMENT REPORT

The submissions made in response to the draft assessment expressed concerns about:

- the timetable for comment; and
- the trade implications of reducing and deleting MRLs for importers of food.

Each of these is examined in turn below.

5.1 Timetable for comment

The submission from the National Council of Women of Australia expressed concerns about the timetable for comment on Application A451. ANZFA has statutory timeframes for progressing applications and these timeframes mean that ANZFA must limit the amount of time for which public comment can be accepted. This means that ANZFA normally allows four weeks for public comment on applications. However, ANZFA recognised that the public consultation for the MRLs associated with this Application was undertaken under the Christmas/New Year period and arranged for the public comment period to extend to six weeks.

In addition, ANZFA must progress MRL applications in a timely manner, particularly when it is recognised that the use of the chemical products has already been registered and as a result, producers could potentially be producing food containing residues in excess of the existing MRLs.

In summary, the timeframe for comment is a compromise between allowing sufficient time for the community to comment on the MRLs, and ANZFA complying with statutory timeframes and progressing the MRLs in a timely manner to minimise disruption to producers.

5.2 Trade implications of reducing and deleting MRLs for importers of food

The submission from the Food Safety and Surveillance Section of the Commonwealth Department of Health and Ageing expressed concerns about the effect of the reduction and deletion of MRLs and the resultant possible trade implications for importers of food. However, no importer of foods or World Trade Organization member has made a submission or expressed concerns about any proposed MRLs in this application, including the deletions and the reductions.

6. **REGULATION IMPACT ASSESSMENT**

6.1 Objective

To ensure that the residues of agricultural and veterinary chemicals do not represent an unacceptable risk to public health and safety and that the proposed MRLs permit the legal sale of food that has been legally treated.

6.2 **Options**

Option 1: - to accept the requests made by the NRA and vary the *Food Standards Code*. Option 2: - to reject the requests and make no changes to the *Food Standards Code*.

6.3 Affected Parties

The parties affected by this Application are consumers, government, producers, food manufacturers and importers of primary produce and foods into Australia.

6.4 Costs and benefits

6.4.1 Costs of accepting the Application

- there will be a cost of disposal, replacement and dissemination of information about proscribed agricultural and veterinary chemicals;
- initially enforcement agencies, food manufacturers and importers may have costs associated with compliance and enforcement of MRLs following the proposed amendments;
- importers will no longer be able to rely on existing MRLs; and

• some consumers may consider that any residues of agricultural and veterinary chemicals in food are not in the public interest and may regard the presence of any chemical residues in foods as a cost.

6.4.2 Benefits of accepting the Application

- food producers will be legally able to sell produce legally treated with chemicals intended to improve stock and yields as well as controlling diseases and pests;
- it will ensure consistency between the health and agricultural regulations; and
- consumers may receive the potential benefits of improved crop and stock production through cheaper or better quality produce.

6.4.3 Costs of not accepting the Application

- producers will <u>not</u> be able to legally sell produce legally treated with chemicals intended to increase productivity and/or control disease and pests. This will have costs for primary producers with consequent potential impacts on regional Australia;
- there may be increased production costs for manufacturers and ultimately increased costs to consumers if commodities which have been legally treated to improve productivity and/or control pests and disease cannot be legally sold; and
- the discrepancies between the *Food Standards Code* and the NRA MRL Standard would become greater leading to confusion for producers, consumers and government agencies.

6.4.4 Benefits of not accepting the application

- importers may potentially benefit by filling a possible domestic production shortfall if domestic agricultural productivity is reduced; and
- products complying with the existing MRLs could continue to be legally sold.

7.5 Conclusion and recommended option

The inclusion of the proposed MRLs is consistent with the current registered uses of chemical products. The dietary exposure assessments indicate that the residues associated with the proposed MRLs do not represent an unacceptable risk to public health and safety. The NRA has already registered the chemical products and rejection of the MRLs would result in legally treated food not being able to be legally sold. Therefore, the requested changes (Option 1) will benefit all stakeholders by maintaining public health and safety while permitting the legal sale of food treated with agricultural and veterinary chemicals to control pests and diseases and improve agricultural productivity.

7. CONSIDERATION OF ISSUES UNDER SECTION 13 OF THE AUSTRALIA NEW ZEALAND FOOD AUTHORITY ACT 1991

Subsection 13(1) of the *Australia New Zealand Food Authority Act 1991* (ANZFA Act) requires ANZFA to make a preliminary assessment of an application. In making that preliminary assessment, subsection 13(2) requires ANZFA to have regard to a number of matters set out in paragraphs 13(2)(a) to (e). Each of these matters is discussed below.

7.1 Paragraph 13(2)(a)

This Application relates to a matter that may warrant a variation to a food regulatory measure, because the Application seeks an amendment of a standard. Under the ANZFA Act, a standard, by definition, is a food regulatory measure.

7.2 Paragraph 13(2)(b)

This Application is not so similar to a previous application that it ought not be accepted.

7.3 Paragraph 13(2)(c)

The Application does not suggest that the proposed amendment would present any further costs to the community, Government or industry. ANZFA has reviewed the Application and has not identified any adverse health effects that would result from the variations being made.

7.4 Paragraph 13(2)(d)

The nature of the Application is such that only an amendment to a standard (i.e. a food regulatory measure) can bring about what the Applicant is seeking. No other measures appear to be available.

7.5 Paragraph 13(2)(e)

Other relevant matters for consideration by ANZFA are as follows:

7.5.1 Consideration of issues under Regulation 12 of the Australia New Zealand Food Authority Regulations 1994 which prescribe matters for the purpose of paragraph 13(2)(e) of the ANZFA Act.

7.5.1.1 *Regulation 12(a)*

Because it is a simple variation of a food regulatory matter requiring only the updating of a standard set out in the *Food Standards Code* this matter will be in category 2.

7.5.1.2 *Regulation* 12(b)

ANZFA considers that this Application will <u>not</u> confer an exclusive capturable commercial benefit on the applicant.

7.5.2 World Trade Organization Notification

As a member of the WTO Australia is obligated to notify WTO member nations where proposed mandatory regulatory measures are inconsistent with any existing or imminent international standards and the proposed measure may have a significant effect on trade.

The MRLs prescribed in the *Australia New Zealand Food Standards Code* constitute a mandatory requirement applying to all food products of a particular class whether produced domestically or imported. Food products exceeding their relevant MRL set out in the *Food Standards Code* cannot legally be supplied in Australia.

In administrative terms and consistent with international practice, MRLs assist in regulating the use of agricultural and veterinary chemical products. MRLs indicate whether agricultural and veterinary chemical products have been used in accordance with the registered conditions of use, and it is the registered conditions of use that protect human, animal and plant health, and the environment.

MRLs also ensure that the residues of chemicals are minimised consistent with the effective use of chemical products to control pests and diseases, and act as trading standards.

This application contains variations to MRLs that are also included in the international Codex standard. MRLs in this Application also relate to chemicals used in the production of heavily traded agricultural commodities that may indirectly have a significant effect on trade of derivative food products between WTO members.

ANZFA made a WTO notification at Initial/Draft Assessment. No WTO member has made a submission on this Application.

7.5.3 Codex MRLs

The standards of the Codex Alimentarius Commission are used as the relevant international standard or basis as to whether a new or changed standard requires a WTO notification. The following table sets out the proposed MRLs, in the NRA application, which are more restrictive than the relevant Codex MRL.

Chemical Food	Proposed MRL mg/kg	Codex MRL mg/kg
Procymidone Rucola (rocket)	T2	The Codex MRL is for Lettuce, Head at 5 mg/kg
Permethrin Fruiting vegetables, Cucurbits	T0.2	The Codex MRL is for: Cucumber; Gherkin; Squash, Summer; and Winter squash, all at 0.5 mg/kg

No submissions were received on the effect of the proposed MRLs on the importations of the relevant foods.

7.5.4 Imported Foods

The following table lists the quantities of foods that have been imported to Australia in 1999 and 2000. These data are for foods for which reductions and deletions of MRLs are proposed.

Chemical Food	1999 Tonnes	2000 Tonnes
Fipronil		
Stone fruits	1,213	1,587
Triadimenol		
Tomato	4,091	14,184

No submissions were received on the effect of the proposed reductions and/or deletions of MRLs for imported foods.

8. CONSIDERATION OF ISSUES UNDER SECTION 15 OF THE AUSTRALIA NEW ZEALAND FOOD AUTHORITY ACT 1991

Subsection 15(1) of the ANZFA Act requires ANZFA to make a Draft Assessment (Full Assessment - s.15) of an application. In making that Draft Assessment (Full Assessment - s.15), subsection 15(3) requires ANZFA to have regard to a number of matters set out in paragraphs 15(3)(a) to (e). Each of these matters is discussed below.

8.1 Paragraph 15(3)(a)

As this application raises issues of minor significance and complexity only, ANZFA has not invited written submissions for the purposes of making the Initial/Draft Assessment. However, ANZFA has invited written submissions for the purpose of the Inquiry under s.17(3)(c) of the ANZFA Act and, in section 5 of this document, has had regard to any submissions received.

8.2 Paragraph 15(3)(b)

Section 10 (1), paragraphs (a) to(c) of the ANZFA Act sets out the objectives of food regulatory measures and variations to food regulatory matters. Each of these measures are discussed below.

8.2.1 Paragraph 10(1)(a) the protection of public health and safety

The Chemicals and Non-prescription Medicines Branch of the TGA establish the ADI and where applicable the ARfD for the agricultural and veterinary chemicals. The NRA and ANZFA carry out estimations of dietary exposure to agricultural and veterinary chemicals and compare them to the TGA standards. Based on dietary exposure assessments, the residues associated with the proposed MRLs do not represent an unacceptable risk to public health and safety.

8.2.2 Paragraph 10(1)(b) the provision of adequate information relating to food to enable consumers to make informed choices

This is not relevant for this Application.

8.2.3 Paragraph 10(1)(c) the prevention of misleading or deceptive information

This is not relevant for this Application.

In addition to these objectives, subsection 10(2) requires ANZFA to have regard to a number of matters set out in paragraphs 10(2)(a) to (d). Each of these matters is discussed below:

8.2.4 Paragraph 10(2)(a) the need for standards to based on risk analysis using the best available scientific evidence

The procedures used by ANZFA, the TGA and the NRA rely on the comprehensive examination of detailed scientific information, including a rigorous toxicological assessment. Dietary exposure assessments are undertaken in accordance with international protocols.

8.2.5 Paragraph 10(2)(b) the promotion of consistency between domestic and international food standards

This is addressed in section 7.5.3 above.

8.2.6 Paragraph 10(2)(c) the desirability of an efficient and internationally competitive food industry

The inclusion of the requested MRLs would assist in permitting the legal sale of legally treated food. Varying the *Food Standards Code* to include the proposed MRLs would promote trade and commerce and allow food industries to continue to be efficient and competitive.

8.2.7 Paragraph 10(2)(d) the promotion of fair trading in food

As the MRLs in the *Food Standards Code* apply to all food whether produced domestically or imported, the inclusion of the MRLs would benefit all producers equally.

8.3 Paragraph 15(3)(c)

ANZFA has undertaken a regulation impact assessment process, which also fulfils the requirement in New Zealand for an assessment of compliance costs. That process concluded that the amendment to the *Food Standards Code* is necessary, cost-effective and of benefit to both producers and consumers.

8.4 Paragraph 15(3)(d)

The nature of the Application is such that only an amendment to a standard (i.e. a food regulatory measure) can bring about what the Applicant is seeking. No other measures appear to be available.

8.5 Paragraph 15(3)(e)

This is addressed in section 7.5.

9. CONCLUSION

The dietary exposure assessments indicate that the residues associated with the MRLs do not represent an unacceptable risk to public health and safety. The NRA has already registered the chemicals in this application and rejection of the MRLs would result in legally treated food not being able to be legally sold. Therefore, the requested changes will benefit all stakeholders by maintaining public health and safety while permitting the legal sale of food treated with agricultural and veterinary chemicals to control pests and diseases and improve agricultural productivity.

10. FURTHER INFORMATION

Submissions

No submissions on this matter are sought as the Authority has completed its assessment and the matter is now with the Australia New Zealand Food Standards Council for consideration.

Further Information

Further information on this and other matters should be addressed to the Standards Liaison Officer at the Australia New Zealand Food Authority at one of the following addresses:

Australia New Zealand Food Authority PO Box 7186 Canberra BC ACT 2610 AUSTRALIA Tel (02) 6271 2258 email: <u>slo@anzfa.gov.au</u> Australia New Zealand Food Authority PO Box 10559 The Terrace WELLINGTON 6036 NEW ZEALAND Tel (04) 473 9942 email: <u>anzfa.nz@anzfa.gov.au</u>

Assessment reports are available for viewing and downloading from the ANZFA website <u>www.anzfa.gov.au</u> or alternatively paper copies of reports can be requested from the Authorities Information Officer at <u>info@anzfa.gov.au</u>.

11. ATTACHMENTS

- 1. Draft Variation to the *Food Standards Code*.
- 2. Summary of MRLs.
- 3. Statement of Reasons.
- 4. Summary of Public Submission Received at Draft Assessment.

DRAFT VARIATIONS TO THE FOOD STANDARDS CODE

To commence: On gazettal

[1] Standard A14 of Volume 1 of the Food Standards Code is varied by -

[1.1] *inserting in columns 1 and 2 respectively of* Schedule 1 *each chemical (shown in bold type) and its associated food and maximum residue limit for that food -*

Chemical	
Food	MRL
Cypermethrin	
Broad bean (dry) (fava bean)	0.05
Dithiocarbamates	
Litchi	5
Emamectin	
Bergamot	0.05
Burnet, Salad	0.05
Chervil	
Coriander (leaves, stems, roots)	0.05
Coriander, seed	0.05
Dill, seed	0.05
Fennel, seed	0.05
Herbs	0.05
Kaffir lime leaves	0.05
Lemon grass	0.05
Lemon verbena (fresh weight)	0.05
Mizuna	0.05
Rucola (rocket)	0.05
Fipronil	
Bergamot	0.1
Burnet, Salad	0.1
Chervil	0.1
Coriander (leaves, stems, roots)	0.1
Coriander, seed	0.1
Dill, seed	0.1
Fennel, seed	0.1
Herbs	0.1
Kaffir lime leaves	0.1
Lemon grass	0.1
Lemon verbena (fresh weight)	0.1
Mizuna	0.1
Rucola (rocket)	0.1
Fluvalinate	
Cherries	0.05
Imazapyr	
Maize	0.05

Imazethapyr	
Maize	0.05
Imidacloprid	
Bergamot	5
Burnet, Salad	5
Chervil	5
Coriander (leaves, stems, roots)	5
Coriander, seed	5
Dill, seed	5
Fennel, bulb	0.1
Fennel, seed	5
Galangal, Greater	0.05
Herbs	5
Kaffir lime leaves	5
Lemon grass	5
Lemon verbena (fresh weight)	5
Mizuna	5
Rose and Dianthus (edible flowers)	5
Rucola (rocket)	5
Turmeric, root (fresh)	0.05
Methomyl	
Bergamot	5
Burnet, Salad	5
Chervil	5
Coriander (leaves, stems, roots)	5
Coriander, seed	5
Dill, seed	5
Fennel, seed	5
Fruiting vegetables, Cucurbits	0.2
Galangal, Greater	0.02
Kaffir lime leaves	5
Lemon grass	5
Lemon verbena (dry leaves)	5
Mizuna	5
Rose and Dianthus (edible flowers)	5
Rucola (rocket)	5
Turmeric, root	0.02
Metolachlor	
Bergamot	0.05
Burnet, Salad	0.05
Chervil	0.05
Coriander (leaves, stems, roots)	0.05
Coriander, seed	0.05
Dill, seed	0.05
Fennel, seed	0.05
Galangal, Greater	0.1
Herbs	0.05
Kaffir lime leaves	0.05
Lemon grass	0.05
Lemon verbena (dry leaves)	0.05
Mizuna	0.05
Rose and Dianthus (edible flowers)	0.05
Rucola (rocket)	0.05
Turmeric, root	0.1

Permethrin	
Fruiting vegetables, cucurbits	0.2
Pirimicarb	
Bergamot	3
Burnet, Salad	3
Coriander (leaves, stems, roots)	3 3 3
Coriander, seed	3
Dill, seed	3
Fennel, seed	3
Galangal, Greater	1
Herbs	3
Kaffir lime leaves	3
Lemon grass	3 3 3 3 3 3
Lemon verbena (fresh weight)	3
Mizuna	3
Rose and Dianthus (edible flowers)	3
Rucola (rocket)	2
Turmeric, root (fresh)	1
Procymidone	
Bergamot	3
Burnet, Salad	3
Chervil	2
Coriander (leaves, stems, roots)	3
Coriander, seed	3
Dill, seed	3 2 3 3 3 3 3
Fennel, bulb	3
Fennel, seed	3
Galangal, Greater	0.5
Herbs	3
Kaffir lime leaves	3
Lemon grass	3
Lemon verbena (fresh weight)	3
Mizuna	3 3 2 3
Rose and Dianthus (edible flowers)	3
Rucola (rocket)	2
Turmeric, root (fresh)	0.5
Pymetrozine	
Fruiting vegetables, Cucurbits	0.1
Leafy vegetables	0.5
Peppers, Sweet	0.02
Sethoxydim	
Bergamot	0.1
Burnet, Salad	0.1
Chervil	0.1
Coriander (leaves, stems, roots)	0.1
Coriander, seed	0.1
Dill, seed	0.1
Formal good	0.1

Dill, seed	0.1
Fennel, seed	0.1
Herbs	0.1
Kaffir lime leaves	0.1
Lemon grass	0.1
Lemon verbena (fresh weight)	0.1
Mizuna	0.1

Rose and Dianthus (edible flowers) Rucola (rocket) Turmeric, root	0.1 0.1 1
Spinosad Bergamot Burnet, Salad Chervil Coriander (leaves, stems, roots) Coriander, seed Dill, seed Fennel, seed Galangal, Greater Herbs Kaffir lime leaves Lemon grass Lemon verbena (dry leaves) Mizuna Rucola (rocket)	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Turmeric, root	0.01
Triadimenol Tomato	0.2
Trifluralin Bergamot Burnet, Salad Coriander (leaves, stems, roots) Coriander, seed Dill, seed Fennel, bulb Fennel, seed Galangal, Greater Herbs Kaffir lime leaves Lemon grass Lemon verbena (fresh weight) Mizuna Rose and Dianthus (edible flowers) Turmeric, root (fresh) Vegetables [except as otherwise listed under this chemical]	$\begin{array}{c} 0.05\\ 0.05\\ 0.05\\ 0.05\\ 0.05\\ 0.5\\ 0.5\\$

Explanatory Note: These are new MRLs for existing chemicals, but for foods that are not currently listed.

[1.2] omitting from columns 1 and 2 respectively of Schedule 1, in relation to each chemical (shown in bold type), the food and the maximum residue limit for that food -

Chemical	
Food	MRL
Pymetrozine	
Melons [except watermelon]	0.02
Pumpkins	0.02
Watermelon	0.02

Trifluralin	
Vegetables [except carrot]	0.05

Explanatory Note: Permission for a residue of the specified chemical in these foods is being repealed.

[1.3] *omitting from column 2 of* Schedule 1 *the maximum residue limit in relation to each chemical (shown in bold type), substituting the maximum residue -*

MRL
0.1
0.01
0.02
5
0.3

Explanatory note: These are changes in the level of the MRL for existing chemicals in an existing food.

[2] Standard 1.4.2 of Volume 2 of the Food Standards Code is varied by -

[2.1] *inserting in columns 1 and 2 respectively of* Schedule 1 *each chemical (shown in bold type) and its associated food and maximum residue limit for that food -*

CYPERMETHRIN	
CYPERMETHRIN, SUM OF ISOMI	ERS
BROAD BEAN (DRY) (FAVA BEAN)	0.05
DITHIOCARBAMATES	
TOTAL DITHIOCARBAMATES, DETERM	AINED AS
CARBON DISULPHIDE EVOLVED DURI	NG ACID
DIGESTION AND EXPRESSED AS MILLIC	GRAMS OF
CARBON DISULPHIDE PER KILOGRAM	OF FOOD
LITCHI	T5
EMAMECTIN	
EMAMECTIN B_{1A} , plus its 8,9-Z ison	MER AND
EMAMECTIN B_{1B} , PLUS ITS 8,9-Z IS	OMER
Bergamot	T0.05
BURNET, SALAD	T0.05
CHERVIL	T0.05
CORIANDER (LEAVES, STEM, ROOTS)	T0.05
CORIANDER, SEED	T0.05
	T0.05

Fennel seed	T0.05
HERBS	T0.05
KAFFIR LIME LEAVES	T0.05
LEMON GRASS	T0.05
LEMON VERBENA (FRESH WEIGHT)	T0.05
Mizuna	T0.05
RUCOLA (ROCKET)	T0.05
FIPRONIL	
SUM OF FIPRONIL, THE SULPHENYL META	BOLITE (5-
AMINO-1-[2,6-DICHLORO-4-	
(TRIFLUOROMETHYL)PHENYL]-	
[(TRIFLUOROMETHYL) SULPHENYL]-1H-1	PYRAZOLE-
3-CARBONITRILE),	a 1 53 (
THE SULPHONYL METABOLITE (5-AMIN	
DICHLORO-4-(TRIFLUOROMETHYL)PHE	
[(TRIFLUOROMETHYL)SULPHONYL]-1H-P	
CARBONITRILE), AND THE TRIFLUORO	
METABOLITE (5-AMINO-4-TRIFLUOROMET	
DICHLORO-4-(TRIFLUOROMETHYL)PHE PYRAZOLE-3-CARBONITRILE)	NYLJ-IH-
BERGAMOT	T0.1
BURNET, SALAD	T0.1
CHERVIL	
CORIANDER (LEAVES, STEM, ROOTS)	T0.1
CORIANDER, SEED	T0.1
DILL, SEED	T0.1
Fennel, seed	T0.1
HERBS	T0.1
KAFFIR LIME LEAVES	T0.1
LEMON GRASS	T0.1
LEMON VERBENA (FRESH WEIGHT)	T0.1
MIZUNA	T0.1
RUCOLA (ROCKET)	T0.1
FLUVALINATE	
FLUVALINATE, SUM OF ISOMER CHERRIES	s T*0.05
	1.0.03
CHERRIES	
IMAZAPYR	
	*0.05
Imazapyr Imazapyr Maize	*0.05
Imazapyr Imazapyr Maize Imazethapyr	*0.05
Imazapyr Imazapyr Maize Imazethapyr Imazethapyr	*0.05
Imazapyr Imazapyr Maize Imazethapyr Imazethapyr Maize	
IMAZAPYR IMAZAPYR MAIZE IMAZETHAPYR IMAZETHAPYR MAIZE IMIDACLOPRID	*0.05
IMAZAPYR IMAZAPYR Maize IMAzethapyr Maize IMIDACLOPRID Sum of imidacloprid and metabo	*0.05
IMAZAPYR IMAZAPYR MAIZE IMAZETHAPYR MAIZE MAIZE IMIDACLOPRID SUM OF IMIDACLOPRID AND METABO CONTAINING THE 6-	*0.05 DLITES
IMAZAPYR IMAZAPYR MAIZE IMAZETHAPYR MAIZE MAIZE IMIDACLOPRID SUM OF IMIDACLOPRID AND METABO CONTAINING THE 6- CHLOROPYRIDINYMETHYLENEMOIETY, E	*0.05 DLITES
IMAZAPYR IMAZAPYR MAIZE IMAZETHAPYR MAIZE MAIZE IMIDACLOPRID SUM OF IMIDACLOPRID SUM OF IMIDACLOPRID SUM OF IMIDACLOPRID CONTAINING THE 6- CHLOROPYRIDINYMETHYLENEMOIETY, E AS IMIDACLOPRID	*0.05 DLITES EXPRESSED
IMAZAPYR IMAZAPYR MAIZE IMAZETHAPYR MAIZE MAIZE SUM OF IMIDACLOPRID SUM OF IMIDACLOPRID SUM OF IMIDACLOPRID AND METAB(CONTAINING THE 6- CHLOROPYRIDINYMETHYLENEMOIETY, E AS IMIDACLOPRID BERGAMOT	*0.05 DLITES EXPRESSED T5
IMAZAPYR IMAZAPYR MAIZE IMAZETHAPYR MAIZE MAIZE IMIDACLOPRID SUM OF IMIDACLOPRID SUM OF IMIDACLOPRID AND METABO CONTAINING THE 6- CHLOROPYRIDINYMETHYLENEMOIETY, E AS IMIDACLOPRID BERGAMOT BURNET, SALAD	*0.05 DLITES EXPRESSED T5 T5
IMAZAPYR IMAZAPYR MAIZE IMAZETHAPYR IMAZETHAPYR MAIZE IMIDACLOPRID SUM OF IMIDACLOPRID AND METABO CONTAINING THE 6- CHLOROPYRIDINYMETHYLENEMOIETY, F AS IMIDACLOPRID BERGAMOT BURNET, SALAD CHERVIL	*0.05 DLITES EXPRESSED T5 T5 T5 T5
IMAZAPYR IMAZAPYR MAIZE IMAZETHAPYR IMAZETHAPYR MAIZE MAIZE IMIDACLOPRID SUM OF IMIDACLOPRID AND METABO CONTAINING THE 6- CHLOROPYRIDINYMETHYLENEMOIETY, E AS IMIDACLOPRID BERGAMOT BURNET, SALAD CHERVIL CORIANDER (LEAVES, STEM, ROOTS)	*0.05 DLITES EXPRESSED T5 T5 T5 T5 T5
IMAZAPYR IMAZAPYR MAIZE IMAZETHAPYR MAIZE MAIZE IMIDACLOPRID SUM OF IMIDACLOPRID AND METABO CONTAINING THE 6- CHLOROPYRIDINYMETHYLENEMOIETY, E AS IMIDACLOPRID BERGAMOT BURNET, SALAD CHERVIL CORIANDER (LEAVES, STEM, ROOTS) CORIANDER, SEED	*0.05 DLITES EXPRESSED T5 T5 T5 T5 T5 T5
IMAZAPYR IMAZAPYR MAIZE IMAZETHAPYR MAIZE MAIZE IMIDACLOPRID SUM OF IMIDACLOPRID SUM OF IMIDACLOPRID SUM OF IMIDACLOPRID SUM OF IMIDACLOPRID BERGAMOT BURNET, SALAD CHERVIL CORIANDER (LEAVES, STEM, ROOTS)	*0.05 DLITES EXPRESSED T5 T5 T5 T5 T5

GALANGAL, GREATER	T0.05
HERBS	T5
KAFFIR LIME LEAVES	T5
LEMON GRASS	T5
LEMON VERBENA (FRESH WEIGHT)	T5
MIZUNA	T5
ROSE AND DIANTHUS (EDIBLE	T5
FLOWERS)	
RUCOLA (ROCKET)	T5
TURMERIC, ROOT (FRESH)	T0.05

METHOMYL	
SUM OF METHOMYL AND METHYI	_
HYDROXYTHIOACETIMIDATE ('METHOMYL OXIME'),	
EXPRESSED AS METHOMYL	
SEE ALSO THIODICARB	
BERGAMOT	T5
BURNET, SALAD	T5
CHERVIL	T5
CORIANDER (LEAVES, STEM, ROOTS)	T5
CORIANDER, SEED	T5
DILL, SEED	T5
Fennel, seed	T5
FRUITING VEGETABLES, CUCURBITS	T0.2
GALANGAL, GREATER	T*0.02
KAFFIR LIME LEAVES	T5
LEMON GRASS	T5
LEMON VERBENA (DRY LEAVES)	T5
MIZUNA	T5
ROSE AND DIANTHUS (EDIBLE	T5
FLOWERS)	
RUCOLA (ROCKET)	T5
TURMERIC, ROOT	T0.02

METOLACHLOR	
METOLACHLOR	
BERGAMOT	T0.05
BURNET, SALAD	T0.05
CHERVIL	T0.05
CORIANDER (LEAVES, STEM, ROOTS)	T0.05
CORIANDER, SEED	T0.05
DILL, SEED	T0.05
Fennel, seed	T0.05
GALANGAL, GREATER	T0.1
HERBS	T0.05
KAFFIR LIME LEAVES	T0.05
LEMON GRASS	T0.05
LEMON VERBENA (DRY LEAVES)	T0.05
MIZUNA	T0.05
ROSE AND DIANTHUS (EDIBLE	T0.05
FLOWERS)	
RUCOLA (ROCKET)	T0.05
TURMERIC, ROOT	T0.1
PERMETHRIN	
PERMETHRIN, SUM OF ISOMERS	
FRUITING VEGETABLES, CUCURBITS	T0.2

DIDDAGADD		
PIRIMICARB SUM OF PIRIMICARB, DIMETHYL-PIRIMICARB <i>J</i>	AND N	
FORMYL-(METHYLAMINO) ANALOGUE A		
DIMETHYLFORMAMIDO-PIRIMICARB, EXPRES		
PIRIMICARB	0220110	
BERGAMOT	Т3	
BURNET, SALAD	Т3	
CORIANDER (LEAVES, STEM, ROOTS)	Т3	
CORIANDER, SEED	Т3	
DILL, SEED	Т3	
Fennel, seed	Т3	
GALANGAL, GREATER	T1	
HERBS	Т3	
KAFFIR LIME LEAVES	T3	
LEMON GRASS	T3	
LEMON VERBENA (FRESH WEIGHT)	T3	
MIZUNA	T3	
ROSE AND DIANTHUS (EDIBLE	Т3	
FLOWERS)	TT 1	
TURMERIC, ROOT (FRESH)	T1	
PROCYMIDONE		
PROCYMIDONE	_	
BERGAMOT	Т3	
BURNET, SALAD	Т3	
CHERVIL	T2	
CORIANDER (LEAVES, STEM, ROOTS)	Т3	
CORIANDER, SEED	Т3	
DILL, SEED	T3	
FENNEL, BULB	T1	
FENNEL, SEED	T3	
GALANGAL, GREATER	T0.5	
HERBS	T3	
KAFFIR LIME LEAVES	T3	
LEMON GRASS	T3 T2	
LEMON VERBENA (FRESH WEIGHT) MIZUNA	T3 T2	
ROSE AND DIANTHUS (EDIBLE	T2 T3	
FLOWERS)	15	
RUCOLA (ROCKET)	Т2	
TURMERIC, ROOT (FRESH)	T0.5	
	10.0	
Pymetrozine Pymetrozine		
FRUITING VEGETABLES, CUCURBITS	T0.1	
LEAFY VEGETABLES	T0.5	
PEPPERS, SWEET	T*0.02	
CETHOW/DB4		
SETHOXYDIM SUM OF SETHOXYDIM AND METABOLITE	S	
CONTAINING THE 5-(2-	5	
ETHYLTHIOPROPYL)CYCLOHEXENE-3-ONE A	ND 5-	
HYDROXYCYCLOHEXENE-3-ONE MOIETIES AN		
SULFOXIDES AND SULFOXIDES AND SULFO EXPRESSED AS SETHOXYDIM		
BERGAMOT	T0.1	
BURNET, SALAD	T0.1	
CHERVIL	T0.1	
CORIANDER (LEAVES, STEM, ROOTS)	T0.1	
	•	

CORIANDER, SEED	T0.1
DILL, SEED	T0.1
Fennel, seed	T0.1
HERBS	T0.1
KAFFIR LIME LEAVES	T0.1
LEMON GRASS	T0.1
LEMON VERBENA (FRESH WEIGHT)	T0.1
MIZUNA	T0.1
ROSE AND DIANTHUS (EDIBLE	T0.1
FLOWERS)	
RUCOLA (ROCKET)	T0.1
TURMERIC, ROOT	T1

SPINOSAD	
SUM OF SPINOSYN A AND SPINOSYN D	
BERGAMOT	T5
BURNET, SALAD	T5
CHERVIL	T5
CORIANDER (LEAVES, STEM, ROOTS)	T5
CORIANDER, SEED	T5
DILL, SEED	T5
Fennel, seed	T5
GALANGAL, GREATER	T*0.01
HERBS	T5
KAFFIR LIME LEAVES	T5
LEMON GRASS	T5
LEMON VERBENA (DRY LEAVES)	T5
MIZUNA	T5
RUCOLA (ROCKET)	T5
TURMERIC, ROOT	T*0.01
TRIADIMENOL	
TRIADIMENOL	
SEE ALSO TRIADIMEFON	

SEE ALSO I RIADIMEFON	
Томато	T0.2
TRIFLURALIN	
TRIFLURALIN	
Bergamot	T*0.05
BURNET, SALAD	T*0.05
CORIANDER (LEAVES, STEM, ROOTS)	T*0.05
CORIANDER, SEED	T*0.05
DILL, SEED	T*0.05
Fennel, bulb	T0.5
Fennel, seed	T*0.05
GALANGAL, GREATER	T0.5
HERBS	T*0.05
KAFFIR LIME LEAVES	T*0.05
LEMON GRASS	T*0.05
LEMON VERBENA (FRESH WEIGHT)	T*0.05
Mizuna	T*0.05
ROSE AND DIANTHUS (EDIBLE	T*0.05
FLOWERS)	
TURMERIC, ROOT (FRESH)	T0.5
VEGETABLES [EXCEPT AS	*0.05
OTHERWISE LISTED UNDER THIS	
CHEMICAL]	

Explanatory Note: These are new MRLs for the existing chemicals but for foods that are not currently listed.

[2.2] omitting from columns 1 and 2 respectively of Schedule 1, in relation to each chemical (shown in bold type), the food and the maximum residue limit for that food -

Pymetrozine	
Pymetrozine	
MELONS [EXCEPT WATERMELON]	T0.02
PUMPKINS	T0.02
WATERMELON	T0.02
TRIFLURALIN	
TRIFLURALIN	
VEGETABLES [EXCEPT CARROT]	*0.05

Explanatory Note: Permission for a residue of the specified chemical in these foods is being repealed.

[2.3]	omitting from column 2 of Schedule 1 the maximum residue limit in relation to each
chemica	al (shown in bold type), substituting the maximum residue -

Cyfluthrin
CYFLUTHRIN, SUM OF ISOMERS
AVOCADO 0.1
FIPRONIL
SUM OF FIPRONIL, THE SULPHENYL METABOLITE (5-
AMINO-1-[2,6-DICHLORO-4-
(TRIFLUOROMETHYL)PHENYL]-4-
[(TRIFLUOROMETHYL) SULPHENYL]-1H-PYRAZOLE-
3-CARBONITRILE),
THE SULPHONYL METABOLITE (5-AMINO-1-[2,6-
DICHLORO-4-(TRIFLUOROMETHYL)PHENYL]-4-
[(TRIFLUOROMETHYL)SULPHONYL]-1H-PYRAZOLE-3-
CARBONITRILE), AND THE TRIFLUOROMETHYL
METABOLITE (5-AMINO-4-TRIFLUOROMETHYL-1-[2,6-
DICHLORO-4-(TRIFLUOROMETHYL)PHENYL]-1H-
PYRAZOLE-3-CARBONITRILE)
STONE FRUITS T*0.01
FLUAZIFOP-BUTYL
Fluazifop-butyl
RHUBARB *0.02
METHOMYL
SUM OF METHOMYL AND METHYL
HYDROXYTHIOACETIMIDATE ('METHOMYL OXIME'),
HYDROXYTHIOACETIMIDATE ('METHOMYL OXIME'), EXPRESSED AS METHOMYL
HYDROXYTHIOACETIMIDATE ('METHOMYL OXIME'), EXPRESSED AS METHOMYL SEE ALSO THIODICARB
HYDROXYTHIOACETIMIDATE ('METHOMYL OXIME'), EXPRESSED AS METHOMYL
HYDROXYTHIOACETIMIDATE ('METHOMYL OXIME'), EXPRESSED AS METHOMYL SEE ALSO THIODICARB
HYDROXYTHIOACETIMIDATE ('METHOMYL OXIME'), EXPRESSED AS METHOMYL SEE ALSO THIODICARB HERBS T5
HYDROXYTHIOACETIMIDATE ('METHOMYL OXIME'), EXPRESSED AS METHOMYL SEE ALSO THIODICARB HERBS T5 TEBUFENOZIDE

Explanatory note: These are changes in the level of the MRL for existing chemicals in an existing food.

A SUMMARY OF THE REQUESTED MRLS FOR EACH CHEMICAL AND AN OUTLINE OF THE INFORMATION SUPPORTING THE REQUESTED CHANGES TO THE *FOOD STANDARDS CODE*.

The Full Evaluation Reports for individual chemicals are available upon request from the relevant Project Manager at ANZFA.

NOTES ON TERMS USED IN THE TABLE

ADI – Acceptable Daily Intake - The ADI is the daily intake of an agricultural or veterinary chemical, which, during the consumer's entire lifetime, appears to be without appreciable risk to the health of the consumer. This is based on all the known facts at the time of the evaluation of the chemical. The ADI is expressed in milligrams of the chemical per kilogram of body weight.

ARfD – Acute Reference Dose - The ARfD is the estimate of the amount of a substance in food, expressed on a body weight basis, that can be ingested over a short period of time, usually during one meal or one day, without appreciable health risk to the consumer, on the basis of all the known facts at the time of evaluation. ANZFA has used ARfDs set by the TGA and Joint FAO/WHO Meeting on Pesticide Residues, the consumption data from the 1995 NNS and the MRL when the STMR is not available to calculate the NESTIS.

LOQ - Limit of Quantification - The LOQ is the lowest concentration of an agricultural or veterinary chemical residue that can be identified and quantitatively measured in a specified food, agricultural commodity or animal feed with an acceptable degree of certainty by a regulatory method of analysis.

NEDI - National Estimated Dietary Intake - The NEDI represents a more realistic estimate of dietary exposure and is the preferred calculation. It may incorporate more refined food consumption data including that for specific sub-groups of the population. The NEDI calculation may take into account such factors as the proportion of the crop or commodity treated; residues in edible portions; the effects of processing and cooking on residue levels; and may use median residue levels from supervised trials other than the MRL to represent pesticide residue levels. In most cases the NEDI is still an overestimation because the above data is often not available and in these cases the MRL is used.

NESTI - National Estimated Short Term Intake - The NESTI is used to estimate acute dietary exposure. Acute (short term) dietary exposure assessments are undertaken when an acute reference dose (ARfD) has been determined for a chemical. Acute dietary exposures are normally only estimated based on consumption of raw unprocessed commodities (fruit and vegetables) but may include consideration of meat, offal, cereal, milk or dairy product consumption on a case-by-case basis.

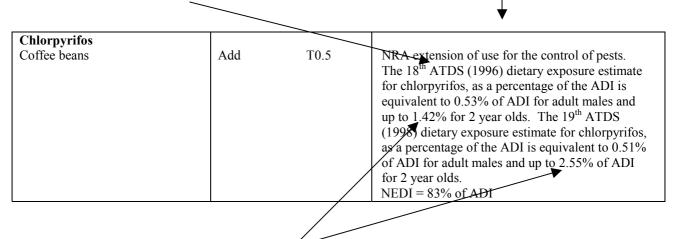
The NESTI calculation incorporates the large portion (97.5 percentile) food consumption data and can take into account such factors as the highest residue on a composite sample of an edible portion; the supervised trials median residue (STMR), representing typical residue in an edible portion resulting from the maximum permitted pesticide use pattern; processing factors which affect changes from the raw commodity to the consumed food and the variability factor.

The following are examples of entries and the proposed MRLs listed are not part of this application.

		/	Whether the proposed MRL is being added or deleted.
Name of the Chemical ((in bold)			The 'T' means the MRL is / temporary and under review.
Food for the prop is to a	osed MRL		The '*' means that the MRL is at the limit of quantification and detectable residues should not occur.
Fipronil Berries and other small fruits [except grapes and strawberry]	Delete	T*0.01	The NRA has extended the trial permit for this chemical to control Western Flower Thrip in
Berries and other small fruits [except wine grapes] Strawberry	Add	T*0.01	strawberry. An MRL for fipronil on strawberry is required to accommodate the use as a bait for fruit fly. This use is not expected to result in residues and so the MRL is proposed at the LOQ.
	Delete	T0.5	NESTI = <1% of ARfD for berries NEDI = 60% of ADI
The NESTH is an assessment of the acute dietary exposure which is compared to the acute reference dose (ARfD). More information is in the glossary on the NESTI and the ARfD. To be acceptable to ANZFA, the NESTI must be less than 100% of the ARfD because the ARfD is considered the 'safe' level.			
The NEDI is an assessment which is compared to the a More information is in the NEDI and the ADI. To be a the NEDI must be less than the ADI is considered the '	cceptable d glossary on acceptable t 100% of th	aily intake the to ANZFA,	(ADI). more information on this term is in the glossary

Information about the use of the chemical is provided so consumers can see the reason why the residues may occur in food.

Data from the Australian Total Diet Survey (ATDS) is provided when available because it provides an indication of the typical exposure to chemicals in table ready foods. The ATDS results are more realistic because the NEDI and NESTI calculations are theoretical calculations that conservatively overestimate exposure.



Small variations may be noted in the exposure assessment between different ATDSs. These variations are minor and typically result because of the different range of foods in the individual surveys.

SUMMARY OF REQUESTED MRLS FOR APPLICATION A451

Glossary:

1.	ADI	Acceptable Daily Intake.

- 2. **ARfD** Acute Reference Dose.
- 3. **ATDS** Australian Total Diet Survey.
- 4. **LOQ** Limit of Quantification.
- 5. **NEDI** National Estimated Daily Intake.
- 6. **NESTI** National Estimated Short Term Intake.
- 7. * MRL set at or about the limit of quantification.
- 8. **T** Temporary MRL.

Chemical	MRL		Information
Food	(mg/kg)		
Cyfluthrin		0/	
Avocado	Delete Substitute	T0.05 0.1	This chemical is used to control of fruit spotting bug in avocado. NEDI = 67% of the ADI
Cypermethrin Broad bean (dry) (Fava bean (dry))	Add	0.05	This chemical is used to control insects in broad beans NEDI = 9% of ADI
Dithiocarbamates (mancozeb, methan metiram, propineb, thiram, zineb and ziram) Litchi	Add	Τ5	The NRA has granted a permit for mancozeb to control fungi on litchis. Litchis were not recorded as being consumed in the 1995 NNS and the consumption figure for rambutan was used as an estimate for the consumption of litchis. In the 19 th (1998) ATDS the estimated dietary exposure to thiram (the dithiocarbamate with the lowest ADI) was at 63% of the ADI. This MRL is for the use of the dithiocarbamate, mancozeb which has a higher ADI than thiram. Given the consumption of litchi, the results from the 1998 ATDS, the fact that the trial permit is for the chemical mancozeb, the additional exposure to dithiocarbamates from litchi would not result in an unacceptable risk to public health. NEDI = 82% of the ADI.
Emamectin			
Bergamot	Add	T0.05	The NRA has issued a trial permit to
Chervil	Add	T0.05	control Diamond Back moths on herbs
Coriander (leaves, stems, roots)	Add	T0.05	and leafy vegetables.
Coriander seed	Add	T0.05	
Dill, seed	Add	T0.05	
Fennel, seed	Add	T0.05	
Herbs	Add	T0.05	
Kaffir lime leaves	Add	T0.05	
Lemon grass	Add	T0.05	
Lemon verbena (fresh weight)	Add	T0.05	
Mizuna	Add	T0.05	
Rucola (rocket)	Add	T0.05	
Burnet, Salad	Add	T0.05	NEDI = 3% of the ADI.

Fipronil			
Bergamot	Add	T0.1	This chemical is used to control diamond
Chervil	Add	T0.1	back moths in herbs and vegetables.
Coriander (leaves, stems, roots)	Add	T0.1	Fipronil has an acute reference dose of
Coriander seed	Add	T0.1	0.003 mg/kg bw. Acute intake figures
Dill, seed	Add	T0.1	for herbs and spices were 2% and 3%
Fennel seed	Add	T0.1	respectively. As there were no
Herbs	Add	T0.1	consumption figures available for the
Kaffir lime leaves	Add	T0.1	leafy vegetables rucola, chervil and
Lemon grass	Add	T0.1	mizuna, consumption figures for the
Lemon verbena (fresh weight)	Add	T0.1	leafy vegetables water cress and alfalfa
Mizuna	Add	T0.1	sprout were used to estimate the acute
Rucola (rocket)	Add	T0.1	intake of fipronil. The acute intake using
Burnet, Salad	Add	T0.1	watercress and alfalfa sprout
Buillet, Salad	Auu	10.1	consumption figures was calculated as 8
			and 3% respectively. Therefore, it is
			concluded that the acute dietary exposure
			does not represent an unacceptable risk
Stone fruits	Delete	T0.5	to public health and safety.
Stone Ituits	Substitute	T*0.01	Fipronil is used as a bait spray to control carpophilus beetle in stone fruit. There
	Substitute	1*0.01	is no direct contact of the chemical with
			the fruit. As this is a reduction to the
			LOQ, no residues should be detected.
			The acute dietary exposure for stone fruit
			was calculated as less than 5% of the
			ARfD.
Fluazifop-butyl			NEDI = of 27 % of ADI.
Rhubarb	Delete	T0.05	This chemical is used to control grass
Kildbarb	Substitute	*0.02	weeds in rhubarb. As this MRL is at the
	Substitute	0.02	LOQ, no residues should be detected.
			NEDI = 69% of the ADI
Fluvalinate			
Cherries	Add	T*0.05	The NRA has issued an off-label (minor
			use) permit to control thrips in cherries.
			As this MRL is at the LOQ, no residues
			should be detected.
			NEDI = 12% of the ADI
Imazapyr			
Maize	Add	*0.05	This chemical is used to control
			broadleaf weeds and grasses in maize
			crops. As this MRL is at the LOQ, no
			residues should be detected.
			NEDI = less than 1% of ADI
Imazethapyr	Ī		
Maize	Add	*0.05	This chemical is used to control
			broadleaf weeds and grasses in maize
			broudrear weeds and grasses in maize
			crops. As this MRL is at the LOQ, no
			0

Imidacloprid			
Bergamot	Add	T5	The NRA has issued a trial permit to
Chervil	Add	T5	control whitefly and thrips in herbs and
Coriander (leaves, stems, roots)	Add	T5	leafy vegetables.
Coriander, seed	Add	T5	ioury regeneres.
Dill, seed	Add	T5	
Fennel, bulb	Add	T0.1	
Fennel, seed	Add	T5	
Galangal, Greater	Add	T0.05	
Herbs	Add	T0.05	
Kaffir lime leaves	Add	T5	
	Add	T5	
Lemon grass Lemon verbena (fresh weight)	Add	T5 T5	
Mizuna	Add	T5	
		T5 T5	
Rose and Dianthus (edible flowers)	Add		
Rucola (rocket)	Add	T5	NEDI = 10/1000
Burnet, Salad	Add	T5	NEDI = 1% of the ADI
Turmeric, root (fresh)	Add	T0.05	
Methomyl	L L A	т <i>с</i>	The NDA has issued a trial a small to
Bergamot	Add	T5	The NRA has issued a trial permit to
Chervil	Add	T5	increase the MRL to control insects in
Coriander (leaves, stems, roots)	Add	T5	vegetables and herbs.
Coriander, seed	Add	T5	
Dill, seed	Add	T5	
Fennel, seed	Add	T5	
Fruiting vegetables, Cucurbits	Add	T0.2	
Galangal, Greater	Add	T*0.02	
Herbs	Delete	T1	
	Substitute	T5	
Kaffir lime leaves	Add	Т5	
Lemon grass	Add	Т5	
Lemon verbena (dry leaves)	Add	Т5	
Mizuna	Add	T5	
Rose and Dianthus (edible flowers)	Add	Т5	
Rucola (rocket)	Add	T5	
Burnet, Salad	Add	T5	
Turmeric, root	Add	T*0.02	NEDI = 70% of the ADI.
Metolachlor			
Bergamot	Add	T0.05	The NRA has issued a trial permit for
Chervil	Add	T0.05	this chemical to control annual grasses
Coriander (leaves, stems, roots)	Add	T0.05	and some broadleaved weeds in herbs
Coriander, seed	Add	T0.05	and leafy vegetables.
Dill, seed	Add	T0.05	, , , , , , , , , , , , , , , , , , , ,
Fennel, seed	Add	T0.05	
Galangal, Greater	Add	T0.1	
Herbs	Add	T0.05	
Kaffir lime leaves	Add	T0.05	
Lemon grass	Add	T0.05	
Lemon verbena (dry leaves)	Add	T0.05	
Mizuna	Add	T0.05	
Rose and Dianthus (edible flowers)	Add	T0.05	
Rucola (rocket)	Add	T0.05	
Burnet, Salad	Add	T0.05	
Turmeric, root	Add	T0.03	NEDI = 1% of ADI.
	Auu	10.1	

Permethrin			
Fruiting vegetables, Cucurbits	Add	T0.2	The NRA has issued an emergency permit to for this chemical to control insects in cucurbits. NEDI = 15% of ADI.
Pirimicarb			
Bergamot	Add	Т3	The NRA has issued a trial permit for
Coriander (leaves, stems, roots)	Add	T3	this chemical to control aphids in herbs
Coriander seed	Add	T3	and leafy vegetables.
Dill, seed	Add	T3	
Fennel, seed	Add	Т3	
Galangal, Greater	Add	T1	
Herbs	Add	T3	
Kaffir lime leaves	Add	T3	
Lemon grass	Add	T3	
Lemon verbena (fresh weight)	Add	T3	
Mizuna	Add	T3	
Rose and Dianthus (edible flowers)	Add	T3	
Burnet, Salad	Add	T3	NEDI = 83% of the ADI.
Turmeric, root (fresh)	Add	T1	
Procymidone			
Bergamot	Add	Т3	The NRA has issued a trial permit for
Chervil	Add	T2	this chemical to control fungi in herbs
Coriander (leaves, stems, roots)	Add	T3	and leafy vegetables.
Coriander, seed	Add	T3	
Dill, seed	Add	T3	
Fennel, bulb	Add	T1	
Fennel, seed	Add	T3	
Galangal, Greater	Add	T0.5	
Herbs	Add	T3	
Kaffir lime leaves	Add	Т3	
Lemon grass	Add	Т3	
Lemon verbena (fresh weight)	Add	T3	
Mizuna	Add	T2	
Rose and Dianthus (edible flowers)	Add	Т3	
Rucola (rocket)	Add	Τ2	
Burnet, Salad	Add	Т3	
Turmeric, root (fresh)	Add	T0.5	NEDI = 20% of the ADI.
Pymetrozine			
Melons, except Watermelon	Delete	T0.02	The NRA has issued a trial permit for
Pumpkins	Delete	T0.02	this chemical to control aphids in
Watermelon	Delete	T0.02	capsicum, cucurbits and melons.
Fruiting vegetables, Cucurbits	Add	T0.1	
Leafy vegetables	Add	T0.5	
Peppers, Sweet	Add	T*0.02	NEDI = 5% of the ADI.

Sethoxydim			
Bergamot	Add	T0.1	The NRA has issued a trial permit for
Chervil	Add	T0.1	this chemical to control various weeds in
Coriander (leaves, stem, roots)	Add	T0.1	herbs and leafy vegetables.
Coriander, seed	Add	T0.1	, ,
Dill, seed	Add	T0.1	
Fennel, seed	Add	T0.1	
Herbs	Add	T0.1	
Kaffir lime leaves	Add	T0.1	
Lemon grass	Add	T0.1	
Lemon verbena [fresh weight]	Add	T0.1	
Mizuna	Add	T0.1	
Rose and Dianthus (edible flowers)	Add	T0.1	
Rucola (rocket)	Add	T0.1	
Burnet, Salad	Add	T0.1	
Turmeric, root	Add	T1	NEDI = 23% of the ADI.
Spinosad			
Bergamot	Add	Т5	The NRA has issued a trial permit for
Chervil	Add	Т5	this chemical to control Diamond Back
Coriander (leaves, stems, roots)	Add	T5	moth in herbs and leafy vegetables.
Coriander, seed	Add	Т5	, ,
Dill, seed	Add	Т5	
Fennel, seed	Add	Т5	
Galangal, Greater	Add	T*0.01	
Herbs	Add	Т5	
Kaffir lime leaves	Add	Т5	
Lemon grass	Add	Т5	
Lemon verbena (dry leaves)	Add	Т5	
Mizuna	Add	Т5	
Rucola (rocket)	Add	Т5	
Burnet, Salad	Add	T5	
Turmeric, root	Add	T*0.01	NEDI = 11% of the ADI.
Tebufenozide			
Custard apple	Delete	T0.2	The NRA has extended a trial permit to
	Substitute	T0.3	control insects in custard apple.
			NEDI = 10% of ADI
Triadimenol			The NRA has issued a trial permit for
Tomato	Add	T0.2	this chemical to control fungi in tomato.
			NEDI = 2% of the ADI

Trifluralin			
Bergamot	Add	T*0.05	The NRA has issued a trial permit for
Coriander (leaves, stems, roots)	Add	T*0.05	this chemical to control weeds in herbs
Coriander, seed	Add	T*0.05	and leafy vegetables.
Dill, seed	Add	T*0.05	
Fennel, bulb	Add	T0.5	
Fennel, seed	Add	T*0.05	
Galangal, Greater	Add	T0.5	
Herbs	Add	T*0.05	
Kaffir lime leaves	Add	T*0.05	
Lemon grass	Add	T*0.05	
Lemon verbena (fresh weight)	Add	T*0.05	
Mizuna	Add	T*0.05	
Rose and Dianthus (edible flowers)	Add	T*0.05	
Burnet, Salad	Add	T*0.05	
Turmeric, root (fresh)	Add	T0.5	
Vegetables [except carrot]	Delete	*0.05	
Vegetables [except as otherwise listed	Add	*0.05	
under this chemical]			NEDI = 7% of the ADI

STATEMENT OF REASONS

APPLICATION A451 – MAXIMUM RESIDUE LIMITS

FOR RECOMMENDING A VARIATION TO THE FOOD STANDARDS CODE

On 6 September and 8 October 2001, ANZFA received an application from the National Registration Authority for Agricultural and Veterinary Chemicals (NRA) seeking to amend Standards A14 and 1.4.2 for the *Food Standards Code*. The proposed amendments would align the Maximum Residue Limits (MRLs) for agricultural and veterinary chemicals in the *Food Standards Code* with the MRLs in the NRA MRL Standard.

This Application (A451) is a routine Application from the NRA, to update the *Food Standards Code* to reflect the current registration status of agricultural and veterinary use in Australia.

The Agreement between the Commonwealth of Australia and the Government of New Zealand to Establish a System for the Development of Joint Food Standards, excluded MRLs for agricultural and veterinary chemicals in food from the joint food standards setting system. Australia and New Zealand separately and independently develop MRLs for agricultural and veterinary chemicals in food.

ANZFA has completed a Final Assessment (Inquiry - s.17) of the Application, and prepared draft variations to Standard A14 of Volume 1 and Standard 1.4.2 of Volume 2 of the *Food Standards Code*.

ANZFA recommends progressing the Application for the following reasons:

- The dietary exposure assessments indicate that the residues associated with the MRLs do not represent an unacceptable risk to public health and safety. The NRA has already registered the chemical products in this Application and the rejection of the MRLs would result in legally treated food not being able to be legally sold. Therefore, the requested changes will benefit all stakeholders by maintaining public health and safety while permitting the legal sale of food treated with agricultural and veterinary chemicals to control pests and diseases and improve agricultural productivity.
- The NRA have assessed appropriate toxicology, residue, animal transfer, processing and metabolism studies, in accordance with the *Guidelines for Registering Agricultural and Veterinary Chemicals, the Agricultural and Veterinary Requirements Series, 1997*, to support the use of chemicals on commodities as outlined in this application.
- The Therapeutic Goods Administration (TGA) of the Commonwealth Department of Health and Ageing has undertaken an appropriate toxicological assessment of the chemical products and has established relevant acceptable daily intakes and where applicable, acute reference doses.
- None of ANZFA's section 10 objectives of food regulatory measures are compromised by the proposed changes.

• ANZFA has undertaken a regulation impact assessment process, which also fulfils the requirement in New Zealand for an assessment of compliance costs. That process concluded that the amendment to the *Food Standards Code* is necessary, cost effective and of benefit to both producers and consumers.

A SUMMARY OF THE REQUESTED MRLS

Please see Attachment 2 of the Final Assessment Report.

WORLD TRADE ORGANIZATION (WTO) NOTIFICATION

As a member of the WTO, Australia is obligated to notify WTO member nations where proposed mandatory regulatory measures are inconsistent with any existing or imminent international standards and the proposed measure may have a significant effect on trade.

MRLs prescribed in the *Food Standards Code* constitute a mandatory requirement applying to all food products of a particular class whether produced domestically or imported. Food products exceeding their relevant MRL set out in the *Food Standards Code* cannot legally be supplied in Australia.

In administrative terms and consistent with international practice, MRLs assist in regulating the use of agricultural and veterinary chemical products. MRLs indicate whether agricultural and veterinary chemical products have been used in accordance with the registered conditions of use. Additionally, MRLs assist in ensuring that residues are no higher than is necessary for effective control of pests and diseases. MRLs are also used as standards for the international trade in food.

This Application contains variations to MRLs that are included in the relevant Codex standard. MRLs in this application also relate to chemicals used in the production of heavily traded agricultural commodities that may indirectly have a significant effect on trade of derivative food products between WTO members.

ANZFA has made a WTO notification at Initial/Draft Assessment. No WTO Members have made submissions on this Application.

DRAFT VARIATION TO VOLUMES 1 AND 2 OF THE FOOD STANDARDS CODE

Please see Attachment 1 of the Final Assessment Report.

ATTACHMENT 4

SUMMARY OF PUBLIC SUBMISSIONS RECEIVED AT DRAFT ASSESSMENT

Submitter	Comments raised
Department of	The Department supported the Application
Agriculture Fisheries and	
Forestry - Australia	
Commonwealth	The Department supported the application and had some
Department of Health	concerns about the effect of adopting MRLs that are lower than
and Ageing	Codex Alimentarius Commission MRLs.
Food Technology	The Technical Sub-committee of the Association accepted this
Association	Application without further comment
National Council of	The Council was unable to supply a submission due to their
Women of Australia	offices being closed.