# EVALUATION OF AZOLLA PLANT AS AN ALTERNATIVE STOCKFEED SOURCE

# DATE: 13<sup>TH</sup> DECEMBER 2007 PREPARED FOR: GOULBURN BROKEN CATCHMENT AUTHORITY



Report compiled by:

Daniel Huggins Maxi Cow Consulting 14 O'Hagan Place Bacchus Marsh Ph: 0448 805 334 Fx. 5367 2186

# TABLE OF CONTENTS

# PAGE #

Title	1
Executive Summary	3
Background	4
Test Performed	4
Laboratory Results	6
-Nutritional Analysis	6
-Chemical Residue Testing	7
-Mycotoxin Screening	7
Physical Appearance and Shelf Life	8
Foreign Materials	8
Storage and Handling	10
-Hopper storage on site	11
-Bunker storage on farm	11
-Mixing Azolla Feed on farm	12
Cost of Azolla Feed in the market place	13
Appendix 1: Nutritive Results	
Appendix 2: Nutritive Specifications	
Appendix 3: Chemical Residue & Mycotoxin	
Screen Results	
Appendix 4: Maximum Residue Limits Table	
Appendix 5: Restricted Animal material statement	

# EVALUATION OF AZOLLA PLANT AS AN ALTERNATIVE STOCKFEED

### EXECUTIVE SUMMARY

- Azolla Plant rated against alternative stockfeed options. In terms of nutritive value, Azolla contained 9MJME, 18% Crude Protein, 46% NDF, allowing the plant to fall into the "forage category" of feedstuffs and therefore comparable to silage and hay samples. The products dry matter content is a negative attribute.
- Azolla Plant tested clear for Organophosphates and Organochlorides
- Azolla Plant tested clear of Mycotoxin activity as a fresh sample and 1 week old.
- Shelf life of Azolla is largely dependent upon ambient temperature at storage, the level of free water present during storage, the presence of Azolla compost and finally, the presence of fresh water shrimp. If the plant is free of shrimp and compost, it requires a 2 day shelf life during summer months and extends to a possible 7 day shelf life thereafter.
- Azolla Feed contains Aquatic fresh water shrimp that reside in the floating plant structure. "Australia currently has an inclusive ban on the feeding to all ruminants of all meals, including meat and bone meal derived from all vertebrates, including fish and birds". Under the current Australian Ruminant Feed Ban, while Azolla Feed contains traces of Aquatic life, Azolla Feed cannot be fed to Ruminants of any class.
- On the basis of this finding, it is suggested that composting and fertilizer avenue streams be investigated. Does the product serve as an ideal media for the Mushroom Industry?????

# BACK GROUND

Azolla (*Azolla filiculoides*), locally known as duck weed, is a small aquatic plant/fern which grows in abundance throughout the lower reaches of the Broken Creek system.

The harvest and subsequent removal of Azolla from the catchment is the current method employed to clear the waterways of the flourishing plant population. With tonnages harvested in excess of 20 cubic meters per hour, a considerable amount of the plant is removed from the system on an annual basis. This has promted the urgent investigation to assess the nutritive value of Azolla and possible clearance of the product as a stockfeed alternative, thus removing the issues and cost associated with treatment of such a waste stream.

## **TEST PERFORMED**

In order to assess the viability of Azolla for use as an alternative feed source, several "standard" tests were performed. Two specific 'types' of Azolla were tested, classified purely upon colour of plant material, both commonly harvested from the Broken creek. Azolla 'Pink' and Azolla 'Green' (figure 1 & 2 respectively).



Figure 1: Azolla Pink



Figure 2: Azolla Green

The standard tests performed were:

- Standard nutritive analysis including values for Dry Matter(DM), Energy (Metabolisable Energy, MJME), Crude Protein (%), Fibre (Neutral Detergent Fibre NDF), Sugars and a host of minerals
- Chemical testing of the samples was undertaken to determine the levels of Organophosphates and Organochlorides present.
- Mycotoxins in feeds (moulds, toxins, spores, fungi) have a negative impact on a variety of animal health issues. A mixed sample of the two Azolla types was therefore screened for Mycotoxin levels.

In situations were Azolla plant density is high, mature Azolla plants will begin to decompose, resulting in a third sample, known as "Azolla compost" (figure 3). This sample was also sent away for Mycotoxin screening.



Figure 3: Azolla Compost

The original Azolla 'Green' and 'Pink' samples were then monitored for seven days to assay the expected shelf life of the product. A final Mycotoxin sample was sent for testing to investigate if extending shelf life had a promoting effect on Mycotoxin activity.

### LABORATORY RESULTS

### Nutritional Analysis

Nutritive analysis was contracted through George Weston Foods services, where standard testing for all common feedstuffs and by- product or alternative stock feeds are tested. On a dry matter basis the particular's that affect the sale ability of such an alternative feed are listed in table one. (Full reports shown in appendix 1). An Explanation of abbreviations is also shown in appendix 2.

Product	DM%	CP%	MJME	NDF%	Fat%	Starch%	Sugar%	Ca	Р	Κ
A.Green	5.3	19	9.2	46.2	4.8	2.7	0.3	1.4	0.03	1.68
A. Pink	6.15	17.8	8.8	46.4	5.0	5.5	0.3	1.6	0.18	1.81

Table one: Nutritive results for Azolla samples

The results above show the two Azolla samples testing similar in terms of all major nutritive specifications and therefore will be referred to from this point onwards as simply just 'Azolla Feed'.

Without going into the specific nutritive requirements of cattle, the energy, protein and fibre levels of Azolla do rate against other common stockfeeds. Table two compares Azolla Feed to common feedstuffs.

Product name	Dry Matter DM%	Metabolisable Energy MJME	Crude Protein CP%	Neutral Detergent Fibre NDF%
Azolla Feed	5.7	9.0	18.4	46
Quality Pasture	15	11.0	22	39
Summer Pasture	20	10.5	17	44
Lucerne Hay	88	10.0	23	44
Wheat Grain	90	12.7	12	12
Canola Meal	90	12.0	38	20

Table two: Comparison of Azolla Feed to common stockfeeds

From the above, perhaps the largest problem that marketing of Azolla Feed has to deal with, is the products low dry matter content. Cartage of 6% dry matter product is expensive. (94% water! Stockfeeds are purchased based on the dry matter content)

### Chemical Residue Testing

Azolla samples were tested for an array of Organo Phosphates and Chlorides (posted in appendix 3). As at the time of sampling, all tests were clear and well within the permissible levels for domestic stockfeed requirements. These Chemical residue results can be compared to the Maximum Residue Limits in food and animal feedstuffs MRL table in Appendix 4.

It should be noted, that Organo chemical testing, provides a "true" test for the water quality within the Broken Catchment itself and therefore plant sample analysis is directly dependent upon good water quality.

### Mycotoxin screening

Fresh Azolla Feed samples, 1 week old Azolla Feed and surprisingly Azolla compost samples were clear of mycotoxin activity, primarily, Aflatoxins.

All samples tested lower levels than 0.1ppb, when positive results test from 5 to 20ppb. At these levels, the samples tested were clear and free of contamination from Aflatoxins (Also sited in appendix 3)

# Physical Appearance and Shelf Life

Azolla, being an aquatic plant, appeared to be palatable with negligible odour. The plant itself comprises of leaf and root matter and therefore physically, a soft plant that could be fed to ruminant stock.

Composting Azolla, as the name suggests, was far less palatable, with a notable odur and certainly less attractive to the eye (particularly if expected to purchase the feed). The shelf life of the product was therefore determined by the inclusion level of the composted product.

Collection and storage of the plant in bulk will also alter its expected shelf life. If Azolla is harvested and held in tip bins and allowed to sit in water, this will stimulate immediate breakdown. Clean Azolla feed samples appear to have an approximate shelf life of seven days, by which time it is highly recommended that the product be fed.

It should be noted that the observation of shelf life was conducted between the 1<sup>st</sup> October 2007 and 10<sup>th</sup> October 2007, well before the on set of summer and subsequent heat (Ambient temperature approx. 20 degrees) and fly infestation. It is recommended that there will be a reduction in the expected shelf life over summer months. Fly populations may find the higher protein content of moist Azolla Feed an ideal environment for larvae.

Cold, fresh Azolla Feed is the preferable stage to be fed; therefore it is recommended that the product be consumed within two to four days post delivery to farm.

### Foreign materials

The harvesting of Azolla has some negative implications for the shelf life and salability of Azolla Feed.



Figure 4: Mechanical harvesting of Azolla Feed

The fact that Azolla plant floats on the waters surface makes it an easier task to harvest however, floating foreign materials such as timber, sticks, Bark and other floating objects (rubbish) are common and were present within the 15kg sample provided for this study. (Figure 5)

Aquatic stream life is perhaps the largest major implication found throughout the whole investigation. Fresh water shrimp appear to thrive or reside within the root system of the plant and are therefore harvested and become part of the Azolla sample itself (figure6).



Figure 5: Foreign materials harvested



Figure 6: Fresh water shrimp

Fresh water shrimp pose a two fold problem:

Firstly, in terms of product Shelf life, decomposing shrimp will increase plant decomposition, reduce palatability to stock and provide media for Mycotoxin growth, not mention a meat feed source for the fly populations during summer heat. This would further restrict the feeding of Azolla feed to daily use during summer months to ensure it is fed prior to rotting.

Secondly, and more importantly, Animal Health Australia outlines the law on Restricted Animal Material (RAM) and the current Australian Ruminant Feed Ban which is an "inclusive ban on the feeding to all ruminants of all meals, including meat and bone meal derived from all vertebrates, including fish and birds". This legislation extends to ruminants of all classes. (Appendix 5)

Therefore, while fresh water shrimp are present in the sample, Azolla Feed cannot under current law be allowed to be fed to Ruminant stock.

## STORAGE AND HANDLING OF AZOLLA FEED

If the laws were amended in the coming period, and you could commence feeding Azolla, the suggestion for Azolla feed is to store the product in overhead "hopper" storage that allows excess water to drain from the product from time of harvest, until pick up and subsequent cartage. The suggestion has many positives improving logistics.

- Firstly, you no longer require expensive trailers or trucks to be left on site. One truck could be used to clear all Azolla harvest sites for a majority of the year, except for periods of peak growth. This will ensure that there is a 'full load' of product daily, making it a more attractive proposition as a stockfeed.
- Secondly, simply draining the product will enhance Azolla Feed quality, making it as dry as possible and limiting the time sitting in water, detrimental to product shelf life.
- Finally, cartage of a drier product attracts less attention from Vicroads officers chasing trucks that leak effluent on road ways.



Figure 7: Large scale hopper storage facility

These photos depict an extensive overhead hopper structure used by the citrus squeeze industry. Obviously, you would not need 60 tonne hoppers like this, but it shows you the type of structure discussed. You will see a smaller version used by SPC in Shepparton.

On farm storage of Azolla Feed, will vary from direct feeding to paddock for dry stock, through to delivery to specialized on farm mixing areas such as the one shown in figure 8. Here, concrete floored bunkers are used to hold wet stockfeeds (citrus pulp and brewers grains) with minimal loss, further enhancing product shelf life and environmentally friendly (From a public perspective). There are a number of dairy farms scattered along the broken catchment with mixing facilities similar to this.



Figure 8: Desirable on farm storage concrete bunkers

Once delivered to farm, dairy farms with bunker storage systems then also have machinery like the mixing wagon depicted in figure 9, whereby a multiple number of ingredients, including Azolla Feed could be mixed and fed to stock on feed pads.



Figure 9: On farm mixer wagon to blend Azolla Feed with other ration ingredients

Feeding cows a mixed ration of a multiple ingredient list (figure 10), potentially containing Azolla Feed. If Azolla Feed can be mixed and complemented with concentrates and other forages, it could be fed with minimal detection by stock. In this circumstance, up to 3kg dry matter could be fed or up to 15% of intake for the average Goulburn Valley cow. (Producing 6000 Litres on 19kgDMI)



Figure 10: Cows eating a total mixed ration

### COSTING OF AZOLLA FEED IN THE MARKET PLACE.

The biggest implication that Azolla Feed has as an attractive stockfeed option, is the issue of Dry Matter. All stockfeed products are negotiated in terms of the feeds cost on a dry matter basis. For example, wheat is purchased as an energy source and it is approx 90% dry and still contains 10% water or moisture. If the product was purchased for \$350/tonne delivered, this would equate to \$350/0.9=\$388/TDM. Wheat contains 12.7MJME per kg DM, so the unit cost per MJME of energy is therefore: \$388/10/12.7=3 cents per unit energy. Table 3 compares Azolla Feed to other products on an energy basis.

FEED	\$/WetTonne	D M %	\$/Dry Tonne	MJME	COST/MJME
WHEAT	\$390	90	\$433	12.7	3.4
MOLASSES	\$240	80	\$300	13	2.3
LUCERNE	\$400	87	\$459	10	4.6
CITRUS PULP	\$47	18	\$261	12.5	2.1
AZOLLA FEED	\$12	6	\$200	9	2.2

Table 3: Costing of Azolla Feed on an energy basis.

In the current climate, Azolla Feed in the local energy market would trade at a maximum of \$12 per wet tonne. This estimate is based on good, clean samples with low free water content.

It should be noted that these feed prices are current "Inflated drought" prices for other commodities and therefore in normal season's the price that could be paid for Azolla Feed would be much less, possibly requiring freight subsidy to accept the product.

Appendix 1



1 Braidwood Street Enfield NSW 2136

....

	Sampled	Recvd	Printed		
		03/10/2007	5/10/07		
	7813-002	AZOLA PINK			
ľ					
	المربعة المربع المربعة المربعة المربعة المربعة المربعة				
المستعمر				A CONTRACTOR OF THE OWNER	
	x				
5					
	•	1			
	•	1	-		
¥ 121					
		1 N	;		
-	A	·	<i>من</i> ر		•
		<b>B</b> .	al and		
1.1					
<b></b> \	19		NC TO TO		
	R. C.			and the	
	1. 14		X		<i></i>
ra /			ATA		
		1			
-3	Z	1		,	
5			<u>v</u>		
			1	·• .	
			7		
7.	)				
	/			`	
				~	
-				, i	
¥					
				· .	1
102a-	•				
				ينى مەربىم	
5 <b>5</b> .					

Sample Descrip	Ref No		
7813-002 AZOLA PINK	11648360		
Analysi	s Results		
Components	As Fed	DM	
9/ Doubletter	6.15	5	
% Dry Watter	2.15	464	١
% Neutral Detergent Fiber	2.00	40.4	$\langle \cdot \rangle$
	1.09	17.0	/
	22.00	22	
	27.20	21.2	
% Crude Fat	0.31	0.0	
% Ash	1.12	18.15	
Lignin % NDF	22.50	22.5	
NDICP % CP	49.80	49.8	
% Calcium	0.10	1.59	
% Phosphorus	0.01	0.18	
% Magnesium	0.02	0.39	
% Potassium	0.11	1.81	
% Sulfur	0.01	0.12	
% Chloride Ion	0.03	0.52	
DCAD (meq/ kg DM)			
% Acid Detergent Fiber	2.39	38.9	
% ADICP	0.30	4.8	
% NDICP	0.55	8.9	
% Lignin	0.64	10.4	
% NFC	1.32	21.5	
% NSC			
% TDN	2.95	48	
NEL, (MJ/kg)	0.28	4.56	
NEM, (MJ/kg)	0.23	3.68	
NEG, (MJ/kg)	0.09	1.42	
Relative Feed Value	118.00	118	
ME, (MJ/kg)	0.54	8.8	7
% Moisture	93.85		-
% Available Protein	0.80	13	
% Adjusted Crude Protein	0.86	14	
Degradable Protein % CP	26.00	26	
% Starch	0.34	5.5	
% Water Soluble Carbs.	0.02	(0.3)	>
% Lvsine	0.05	0.74	
% Methionine	0.01	0.24	
NDED 24br % of NDE	1 75	1 75	
% IVTD 24hr			

Page 1

Appendix 1

Sample Description 7813-001 AZOLA GREEN



1 Braidwood Street Enfield NSW 2136

Sampled Recycl Printed IST CO	Analysis	Results
03/10/2007 5/10/07	Components	As Fed
03/10/2007] 5/10/07 7813-001 AZOLA GREEN	Components % Dry Matter % Neutral Detergent Fiber % Crude Protein Soluble Protein % CP ADICP % CP % Crude Fat % Ash Lignin % NDF NDICP % CP % Calcium % Phosphorus % Magnesium % Potassium % Sulfur	As Fed 5.30 2.45 1.01 12.00 25.50 0.25 0.96 24.20 51.30 0.07 0.00 0.02 0.09 0.01
	% Chloride Ion DCAD (meq/ kg <sub>3</sub> DM) % Acid Detergent Fiber % ADICP % NDICP % Lignin % NFC % NSC % TDN NEL, (MJ/kg) NEM, (MJ/kg)	0.01 0.04 1.92 0.26 0.52 0.59 1.14 2.49 0.24 0.24 0.19 0.07
	Relative Feed Value ME, (MJ/kg) % Moisture % Available Protein % Adjusted Crude Protein Degradable Protein % CP % Starch % Water Soluble Carbs. % Lysine % Methionine	122.00 0.49 94.70 0.75 0.81 22.00 0.14 0.02 0.04 0.01
	NDFD 24hr % of NDF % IVTD 24hr	1.75

Page 1

а: -

> Ref No 11648350

> > DM

46.2 19 12 25.5 4.8 18.15 24.2 51.3 1.4 0.03 0.45 1.68 0.15 0.75

> 36.3 4.9 9.8 11.2 21.6

47 4.52 3.60 1.34 1<u>22</u> 9.2

14.2 15.2 2.7 0.3 0.79 0.25

1.75

7

-

WESTON TECHNOLOGIES

# Appendix

GEORGE WESTON **TECHNOLOGIES** A Unit of George Weston Foods Limited A.B.N. 45 008 429 632 1 Braidwood Street Enfield N.S.W. 2136 Australia P.O. Box 1 Enfield NSW 2136 Phone : 61-2-9764 8222



Report Number : 19561

### Analytical Report

Maxi Cow Consulting Customer: Address: 14 O'Hagan Place Issue Date: 16/10/2007 Bacchus Marsh VIC 3340 Order No: Australia Date Received: 03/10/2007 Daniel Huggins Attention: 03 5367 2187 Fax: Phone: Project Number: E07/007813 E07/007813-001 E07/007813-002 Sample Number 2 **Client Reference** Azola Green Azola Pink Description 4460 Sulphur (DM) 3730 (LTM188) mg/kg mg/kg

17.8

mg/kg

Authorised By :

Zinc (DM)

(LTM188)

10,6

mg/kg

bugas Sutherland

Douglas Sutherland Chemist - Chemistry Laboratory

Sample(s) tested as received. Result(s) reported only apply to sample(s) as listed. Laboratory is not responsible for sampling.

Page 2 of 2

Appendix 1



GEORGE WESTON TECHNOLOGIES A Unit of Ceorge Weston Foods Limited A.B.N. 45 008 429 632 1 Braidwood Street Enfield N.S.W. 2136 Australia P.O. Box 1 Enfield NSW 2136 Phone : 61 ~ 2-9764 8222





Customer: Address:	Maxi Cow Consulting 14 O'Hagan Place Bacchus Marsh VIC 3340 Australia	Report Number : 19561 Issue Date: 16/10/2007 Order No :	
Attention: Fax: Phone:	Daniel Huggins 03 5367 2187		
Project Number:	E07/007813		
Sample Number	E07/007813-001	E07/007813-002	
Client Reference	1	2	
Description	Azola Green	Azola Pink	
NIRD1	see attached	see attached	
Cadmium (DM)	< 0.5 (LOQ)	< 0.5 (LOQ)	
(LTM188)	mg/kg	mg/kg	
Calcium (DM)	6050	4340	
(LTM188)	mg/kg	mg/kg	
Copper (DM)	11.4	9.66	
(LTM188)	mg/kg	mg/kg	
Iron (DM)	7870	8200	
(LTM188)	mg/kg	mg/kg	
Magnesium (DM)	3360	3330	
(LTM188)	mg/kg	mg/kg	
Manganese (DM)	769	634	
(LTM188)	mg/kg	mg/kg	
Molybdenum (DM)	3.37	1.54	
(LTM188)	mg/kg	mg/kg	
Phosphorus (DM)	1290 <sup>-</sup>	. 1700	
(LTM188)	mg/kg	mg/kg	
Potassium (DM)	31100	33100	
(LTM188)	mg/kg	mg/kg	
Sodium (DM)	10300	10500	
(LTM188)	mg/kg	ma/ka	

Authorised By :

Douglas Sutherland

Douglas Sutherland Chemist - Chemistry Laboratory

Sample(s) tested as received. Result(s) reported only apply to sample(s) as listed. Laboratory is not responsible for sampling.

.

#### INDICATORS OF FEED QUALITY

The balance of the indicators listed below will determine the quality of feed for dairying. If analysis shows values outside the normal ranges it might be advisable to supplement. Note that indicators apply to the whole diet consumed.

#### CRUDE PROTEIN (CP) (%DM)

A minimum of 15 % is required to maintain milk production in lactating cows. Growth can be achieved with 10-14 % CP, with better results at the high end of the range.

Maintenance requirement is about 7 % CP, so values lower than 7 % will cause a CP deficiency. Note that maize silage normality has a low CP %, barely enough to provide maintenance requirement, so it should be regarded predominantly as an energy supplement.

#### SOLUBLE SUGARS AND STARCH (% DM)

SSS supplies the rumen microbes with energy for their synthetic activities. The normal range for pasture is 10-15 %. If SSS is less than 10 % rumen microbial fermentation is likely to be reduced with negative effects on digestion. Maize silage should be in the range 30-40 % SSS. The normal range for Pasture silage is 2-7 % SSS.

#### FIBRE (Acid detergent [ADF] and neutral detergent [NDF] fibres) (% DM)

ADF and NDF are both measures of difficult-to-digest plant cell wall carbohydrates. Generally the lower the fibre the better, but not below 20 % ADF or 30 % NDF, because some fibre is needed to stimulate ruman activity. Normal ranges are:

	ADF	NDF
Good quality	20-35	30-45
Average quality	35-50	45-70
Poor quality	>50	>70

#### FAT (CRUDE FAT [Lipid])(% DM)

The normal range in pasture based dies is 2.5-4.5 %. Too much fat (>7 %) can interfere with fibre digestion and cause diarrhoea.

#### ELEMENTS (% DM)

The following concentrations of major elements should meet animal requirements. Lower values are likely to limit animal performance.

Na	0.12	Ca	0.44
K*	0.58	P	0.32
Mg	0.19	5	0.18

\*K concentrations >5 % are undesirable and would reduce Mg availability, leading to a need to supplement with Mg.

#### IN VITRO ORGANIC MATTER DIGESTIBILITY (OMD) (% DM)

OMD estimates the total putpients apparently digested by the animal. It is measured in the laboratory (in vitro) and calibrated against animal measurements (in vivo). Normal ranges are:

Poor quality	<55
Average quality	55-70
Sood quality	>70

NB Instrument calibration is based on actual feeding trials of a sample feed source. Maize silage cannot be used as a sole feed source; as such we are unable to provide a result for In vitro organic matter Digestibility.

#### METABOLISABLE ENERGY (ME) (MJ/kg DM)

ME is a measure of the energy that is available to the animal for maintenance, growth and milk and wool production. ME is calculated using a wellestablished equation. Normal ranges are:

Poor quality		<8
Average quality	•	8-10
Good quality		10-12
Excellent quality		>12

#### SILAGES (Additional quality indicators)

Silage is a fermentation prodult and the chemical composition will reflect this. Some RFC is converted to organic acids (especially lactic) that preserve the silage and some protein is degraded to ammonia. The following indicators are used, in addition to those given above to assess silage quality

pH. Well fermented pasture and maize silages made in a pit or stack should have a pH <4.5 and legume based silages should be <5. Wrapped sitages are usually of a higher DM % and their pH should be <5. Values higher than these indicate a poor primary fermentation or subsequent spoilage.

Ammonia (NH3-N) (1% total N). NH3-N concentration reflects the degree to which dietary protein has been degraded during silage fermentation. NH3-N should be less than 5 % for malze stages and < 10 % for pasture silages. Values higher than these indicate excessive wastage and probably loss of quality.

Lactic acid (% DM). A high lactic acid content is desirable: >6-8 % for wet silages (>65 % moisture) and > 3-4 % for wilted silages (<55 %

moisture). Lower values indicate poor quality. <u>Volatile fatty acids</u> (% DM). Acetic acid should be <2 %, propionic acid <1 % and butyric acid <0.1 %. If concentrations are higher than these values poor fermentation or spoilage is indicated.

### Information kindly supplied by FeedTECH, AgResearch Nutrition & Behaviour



### **ANALYSIS REPORT**

Maxi Cow Consulting 14 O'Hagan Place BACCHUS MARSH VIC 3340

TECT

ATTENTION FAX NUMBER

Daniel Huggins 03 5367 2186

Pocult

PURCHASE ORDER PROJECT NUMBER J0710-0040

DATE RECEIVED 03 October 2007 OUR SAMPLE NUMBER YOUR REFERENCE SAMPLE TYPE

S2007-07876 Azolla Green Plant

1231	Kesut
Aflatoxin - HPLC (TP/055)	
Aflatoxin B1 (ppb)	<1.0
Aflatoxin B2 (ppb)	<1.0
Aflatoxin G1 (ppb)	<1.0
Aflatoxin G2 (ppb)	<1.0
Total Aflatoxin (ppb)	<1.0
Organochlorine Extended Screen (TP/057)	全部的主要者的指导主要是国际组织社会社会组织
Aldrin (mg/kg)	<0.0050
Alpha BHC (mg/kg)	<0.0050
alpha Endosulphan (mg/kg)	<0.010
Beta BHC (mg/kg)	<0.0050
beta Endosulphan (mg/kg)	<0.010
Captan (mg/kg)	<0.10
Cis Chlordane (mg/kg)	<0.0050
Delta BHC (mg/kg)	<0.005
Dicofol (mg/kg)	<0.02
Dieldrin (mg/kg)	<0.0050
Endosulphan Sulphate (mg/kg)	<0.010
Endrin (mg/kg)	<0.005
HCB (mg/kg)	<0.0050
Heptachlor (mg/kg)	<0.0050
Heptachlor Epoxide (mg/kg)	<0.0050
Lindane (mg/kg)	<0.0050
op DDE (mg/kg)	<0.010
op DDT (mg/kg)	<0.010
Oxychlordane (mg/kg)	<0.0050
pp DDD (mg/kg)	<0.010
pp DDE (mg/kg)	<0.010
pp DDT (mg/kg)	<0.010
Procymidone (mg/kg)	<0.10
Total BHC (mg/kg)	<0.0050
Total Chlordane (mg/kg)	<0.0050
Total DDT (mg/kg)	<0.010
Total Endosulphan (mg/kg)	<0.010
Trans Chlordane (mg/kg)	0.00500> ער פריסטידידים אל ער אין אינים אין אינידיאנער אייניאנעראייניאנעראייניאנער איניעראינער איניערערא געראייאנעראייני
Organophosphate Extended (TP/092)	
Acephate (mg/kg)	<0.10
Azinphos methyl (mg/kg)	<0.05
Bromophos ethyl (mg/kg)	<0.10
Carbfenthion (mg/kg)	<0.10
Chlorfenvinphos (mg/kg)	<0.050

Report Number: 13509 Issued: 10 Oct 2007

Page 1 of 7

3,



## **ANALYSIS REPORT**

Maxi Cow Consulting		ATTENTION	Daniel Huggins
14 O'Hagan Place		FAX NUMBER	03 5367 2186
BACCHUS MARSH VIC 3340			
Azolla	Green	PROJECT NUMBER	10710-0040
Chlorpyrifes (malka)		TROOLOT ROMDER	<0.10
Chlorpyrios (mg/kg)			<0.10
Demeton-s-methyl (mg/kg)		,	<0.10
Diazinon (mg/kg)			<0.10
Dichlorfenthion (ma/ka)			<0.000
Dichloryos (mg/kg)			<0.10
Dimethoate (mg/kg)			<0.10
Disulfuton (mg/kg)			<0.000
Edifenchos (mg/kg)			<0.020
FPN (mg/kg)			<0.10
Ethion (mg/kg)			<0.10
Ethoprophos (mg/kg)			
Etrimfos (mg/kg)			<0.0000
Fenaminhos (mg/kg)			<0.10
Fenitrothion (mg/kg)			<0.10
Fenthion (mg/kg)			<0.10
Isofennhos (ma/ka)			<0.10
Malathion (mg/kg)			<0.10
Methacrifos (mg/kg)			<0.10
Methamidiphos (mg/kg)			<0.10
Methidathion (mg/kg)			<0.10
Mevinphos (ma/ka)			<0.010
Monocrotophos (ma/ka)			<0.10
Omethoate (mg/kg)			<0.050
Parathion (mg/kg)			<0.10
Parathion methyl (mg/kg)			<0.10
Phenchlorphos (ma/ka)			<0.10
Phenthoate (mg/kg)			<0.10
Phorate (mg/kg)			<0.020
Phosalone (mg/kg)			<0.10
Phosmet (mg/kg)			<0.05
Phosphamidon (mg/kg)			<0.10
Pirimiphos ethyl (ma/ka)			<0.10
Pirimiphos methyl (mg/kg)			<0.10
Profenophos (ma/ka)			<0.10
Prothiophos (mg/kg)			<0.10
- Pyrazophos (mg/kg)			<0.1
Terbufos (ma/ka)			<0.0050
Thiometon (ma/ka)			<0.010
Tolclofos methyl (ma/ka)			<0.020
Triazophos (mg/kg)			<0.1
Trichlorfon (Dep) (ma/ka)			<0.010
Vamidothion (mg/kg)			<0.10

Report Number: 13509 Issued: 10 Oct 2007

---

Agrifood Technology Pty Ltd ABN 52 085 032 104 260 Princes Highway, PO Box 728, Werribee Victoria 3030 Freecal! 1800 801 312 Telephone 03 9742 0555 Facsimile 03 9742 4228 www.agrifood.com.au

.



### ANALYSIS REPORT

Maxi Cow Consulting 14 O'Hagan Place BACCHUS MARSH VIC 3340 A20//g Green ATTENTION FAX NUMBER Daniel Huggins 03 5367 2186

PURCHASE ORDER PROJECT NUMBER J0710-0040

Note All samples are analysed on an as received basis. This report is not to be reproduced except in full. TP refers to the technical procedure used to conduct the analysis.

Final Report

Report Number: 13509

our

Doreen Fernandez Manager Laboratory Operations 10 October 2007

Report Number: 13509 Issued: 10 Oct 2007

Page 3 of 7



### ANALYSIS REPORT

03 October 2007

S2007-07877

Azolla Pink Plant

DATE RECEIVED

SAMPLE TYPE

YOUR REFERENCE

OUR SAMPLE NUMBER

Organochlorine Extended Screen (TP/057)

Maxi Cow Consulting 14 O'Hagan Place BACCHUS MARSH VIC 3340

Aflatoxin - HPLC (TP/055)

Aflatoxin B1 (ppb)

Aflatoxin B2 (ppb)

Aflatoxin G1 (ppb)

Aflatoxin G2 (ppb)

Aldrin (mg/kg)

Total Aflatoxin (ppb)

Alpha BHC (mg/kg)

alpha Endosulphan (mg/kg)

Chlorfenvinphos (mg/kg)

Chlorpyrifos (mg/kg)

TEST

ATTENTION FAX NUMBER **Daniel Huggins** 03 5367 2186

Result

<1.0

<1.0

<1.0

<1.0

<1.0

< 0.0050

< 0.0050

< 0.010

<0.0050 <0.010

< 0.0050

< 0.005

< 0.0050

< 0.010

< 0.005

< 0.0050 < 0.0050

< 0.0050

< 0.0050

< 0.010

< 0.010

< 0.010

< 0.010

< 0.010

< 0.0050

< 0.0050

< 0.010

< 0.010

<0.0050

< 0.10

< 0.05

< 0.10

< 0.10

< 0.10

< 0.050

< 0.10

< 0.0050

< 0.02

< 0.10

PURCHASE ORDER PROJECT NUMBER J0710-0040

AP3

Beta BHC (mg/kg)
beta Endosulphan (mg/kg)
Captan (mg/kg)
Cis Chlordane (mg/kg)
Delta BHC (mg/kg)
Dicofol (mg/kg)
Dieldrin (mg/kg)
Endosulphan Sulphate (mg/kg)
Endrin (mg/kg)
HCB (mg/kg)
Heptachlor (mg/kg)
Heptachlor Epoxide (mg/kg)
Lindane (mg/kg)
op DDE (mg/kg)
op DDT (mg/kg)
Oxychlordane (mg/kg)
pp DDD (mg/kg)
pp DDE (mg/kg)
pp DDT (mg/kg)
Procymidone (mg/kg)
Total BHC (mg/kg)
Total Chlordane (mg/kg)

T Total DDT (mg/kg) Total Endosulphan (mg/kg) Trans Chlordane (mg/kg) Organophosphate Extended (TP/092) Acephate (mg/kg) Azinphos methyl (mg/kg) Bromophos ethyl (mg/kg) Carbfenthion (mg/kg)

Report Number: 13509 Issued: 10 Oct 2007

Agrifood Technology Pty Ltd ABN 52 085 032 104

Page 4 of 7

260 Princes Highway, PO Box 728, Werribee Victoria 3030 Freecall 1800 801 312 Telephone 03 9742 0555 Facsimile 03 9742 4228 www.agrifood.com.au



## **ANALYSIS REPORT**

Maxi Co 14 O'Ha	ow Consulting		ATTENTION FAX NUMBER	Daniel Huggins 03 5367 2186
BACCH	IUS MARSH VIC 3340 A20/6	pink.	PURCHASE ORDER PROJECT NUMBER	J0710-0040
<u></u>	Chlorpyrifos methyl (ma/ka)			<0.10
	Demeton-s-methyl (mg/kg)			<0.10
	Diazinon (mg/kg)			<0.050
	Dichlorfenthion (mg/kg)			<0.10
	Dichlorvos (mg/kg)			<0.10
	Dimethoate (mg/kg)			<0.050
	Disulfuton (mg/kg)			<0.020
e en	Edifenphos (ma/ka)			<0.10
	EPN (mg/kg)			<0.10
la an	Ethion (ma/ka)			<0.10
	Ethoprophos (ma/ka)			<0.0050
	Etrimfos (ma/ka)			<0.10
	Fenamiphos (mg/kg)			<0.10
	Fenitrothion (mg/kg)			<0.10
	Fenthion (ma/ka)			<0.10
	Isofenphos (mg/kg)			<0.10
	Malathion (mg/kg)			<0.10
	Methacrifos (mg/kg)			<0.10
	Methamidiphos (mg/kg)			<0.10
	Methidathion (mg/kg)			<0.010
•	Mevinphos (ma/ka)			<0.10
	Monocrotophos (mg/kg)			<0.10
	Omethoate (mg/kg)			<0.050
	Parathion (mg/kg)			<0.10
	Parathion methyl (mo/kg)			<0.10
	Phenchlorphos (ma/ka)			<0.10
	Phenthoate (mg/kg)			<0.10
	Phorate (mg/kg)			<0.020
	Phosalone (mg/kg)			<0.10
	Phosmet (mg/kg)			<0.05
	Phosphamidon (mg/kg)			<0.10
	Pirimiphos ethyl (mg/kg)	,		<0.10
	Pirimiphos methyl (mg/kg)			<0.10
	Profenonhos (ma/ka)			<0.10
	Prothiophos (mg/kg)			<0.10
	Pyrazophos (mg/kg)			<0.1
	Terbufos (mg/kg)			<0.0050
	Thiometon (mg/kg)			<0.010
	Tolclofos methyl (mg/kg)			<0.020
	Triazonhos (mg/kg)			<0.1
	Trichlorfon (Den) (ma/ka)			<0.1
	Vamidothion (ma/ka)			<0.10
	varnootnon (ng/kg)			-0.10

Report Number: 13509 Issued: 10 Oct 2007

Page 5 of 7

Agrifood Technology Pty Ltd ABN 52 085 032 104

260 Princes Highway, PO Box 728, Werribee Victoria 3030 Freecall 1800 801 312 Telephone 03 9742 0555 Facsimile 03 9742 4228 www.agrifood.com.au



### **ANALYSIS REPORT**

Maxi Cow Consulting 14 O'Hagan Place BACCHUS MARSH VIC 3340 ATTENTION FAX NUMBER Daniel Huggins 03 5367 2186

Azolla Pink.

PURCHASE ORDER PROJECT NUMBER J0710-0040

Note All samples are analysed on an as received basis. This report is not to be reproduced except in full. TP refers to the technical procedure used to conduct the analysis.

Final Report

Report Number: 13509

een

Doreen Fernandez Manager Laboratory Operations

10 October 2007

Report Number: 13509 Issued: 10 Oct 2007

Agrifood Technology Pty Ltd ABN 52 085 032 104

260 Princes Highway, PO Box 728, Werribee Victoria 3030 Freecall 1800 801 312 Telephone 03 9742 0555 Facsimile 03 9742 4228 www.agrifood.com.au Page 6 of 7



### ANALYSIS REPORT

Maxi Cow Consulting 14 O'Hagan Place BACCHUS MARSH VIC 3340 ATTENTION FAX NUMBER Daniel Huggins 03 5367 2186

PURCHASE ORDER PROJECT NUMBER J0710-0040

DATE RECEIVE OUR SAMPLE NUMBE YOUR REFERENC SAMPLE TYP	D 03 October 2007 R S2007-07878 E Azolla Compost F Plant
TEST	Result
Aflatoxin - HPLC (TP/055)	
Aflatoxin B1 (ppb)	<1.0
Aflatoxin B2 (ppb)	<1.0
Aflatoxin G1 (ppb)	<1.0
Aflatoxin G2 (ppb)	<1.0
Total Aflatoxin (ppb)	<1.0

All samples are analysed on an as received basis. This report is not to be reproduced except in full. TP refers to the technical procedure used to conduct the analysis.

Final Report

Note

Report Number: 13509

reer Telesent

Doreen Fernandez Manager Laboratory Operations

10 October 2007

Report Number: 13509

Page 7 of 7



	ANALY	SIS REPORT	
Maxi Cow C 14 O'Hagan	Consulting Place	ATTENTION FAX NUMBER	Daniel Huggins 03 5367 2186
BACCHUS	MARSH VIC 3340	PURCHASE ORDER PROJECT NUMBER	J0710-0084
	DATE RECEIVED OUR SAMPLE NUMBER YOUR REFERENCE SAMPLE TYPE	11 October 2007 S2007-08044 1 wk old Azolla Plant	
TEST			Result
Aflatox	in = HPLC (TP/055)		na na seu de la constante de la Foto de la constante de la const
Afla	atoxin B1 (ppb)		<1.0
Afla	atoxin B2 (ppb)		<1.0
Alla	atoxin G2 (npb)		<1.0
Tota	al Aflatoxin (ppb)		<1.0
lote All sar This re	nples are analysed on an as rece eport is not to be reproduced exc	ived basis. ept in full.	

**Final Report** 

Report Number: 13551

een everete

Doreen Fernandez Manager Laboratory Operations

19 October 2007

Report Number: 13551 Issued: 19 Oct 2007

Page 1 of 1

Agrifood Technology Pty Ltd ABN 52 085 032 104

260 Princes Highway, PO Box 728, Werribee Victoria 3030 Freecall 1800 801 312 Telephone 03 9742 0555 Facsimile 03 9742 4228 www.agrifood.com.au

Hpperdix 4.



Australian Government Australian Pesticides and Veterinary Medicines Authority

### **MRL Standard**

Maximum residue limits in food and animal feedstuffs

December 2007

### Table 4

# Maximum residue limits for pesticides in animal feed commodities

Residues of substances may occur in animal feed commodities for which the following maximum residue limits (MRLs) or extraneous residue limits (ERLs) apply. Residues of a substance may arise from approved uses of that or another substance, or from extraneous contamination. Entries in Table 4 are normally expressed on a dry weight basis.

Feed commodities that are also primary human food commodities have not been included in this table and the MRLs for these commodities will also apply as MRLs when they are used as animal feed commodities. Examples of such commodities are the cereal grains, pulses, oil seeds and any other food commodity that is used as a substantial animal feed commodity. The entries in this table should be read in conjunction with the relevant entries in Table 1 when considering the MRLs (or ERLs) applied to animal feed commodities.

Ph: +61 2 6210 4820

Fax: +61 2 6210 4840

Нрц

	Ta	abi	e	4
--	----	-----	---	---

Compound	Animal Feed Commodity	MRL (mg/kg)
AL 0541	Soya bean fodder	*0.01
Aldrin and Dieldrin		
Autin and Dicioni	Primary feed commodities	E0.01
	-	
	Forage of cereal grains (green)	3
	Mixed pastures (leguminous/grasses)	200
AS 0081	Straw and fodder of cereal grains (dry)	0.2
Atrazine		
Auazine	Primary feed commodities	T40
	Rape seed forage	10
	Rape seed straw or fodder	0.5
Azimsulfuron		
	Rice fodder (fresh weight)	*0.05
AS 0649	Rice straw and fodder, dry	*0.05
Azoxystrobin		
	Almond hulls	5
	Barley forage	10
AS 0640	Barley straw and fodder, dry	3
AL 0061	Bean fodder	T10
AL 1030	Bean forage (green)	T10
AB 0269	Grape pomace, dry	15 T40
AL 0072	Pea hay of Pea todder (dry) Beaput fodder	110
AL 0091	Peanut hulle	25
AL 0528	Pea vines (green)	тт10
	Tomato pomace (dry)	10
	Wheat forage	10
AS 0654	Wheat straw and fodder, dry	3
Benomyl see Carbendazim		
Bensulfuron-methyl		
AS 0649	Rice straw and fodder, dry	*0.05
Bentazone		
Demazone	Rice forage (fresh weight)	*0.03
AS 0649	Rice straw and fodder, dry	*0.03
Benzofenan		
Benzolenap	Rice forage (green)	*0.02
	Rice straw and fodder (dry)	*0.02
BHC (other than a isomer I inda	nel	
bito (outer than y isomer, cinua	Primary feed commodities	E0.02
Diference	· · · · · · · · · · · · · · · · · · ·	
Direnazate	Almond Hulls	Т5
AB 0226	Apple pomace. dry	3
Rifonthrin		
	Alfalfa fodder II ucemel	0.1
AL 1021	Alfalfa forace (creen)	0.1
	Canola fodder (drv)	*0.01
	Canola forage (green)	1
AL 1031	Clover hay or fodder	*0.05
	Clover forage (green)	*0.05
	Faba bean fodder (dry)	0.02
	Faba bean forage (green)	1
	Field pea fodder (dry)	0.01
	2	
	2	

Ph: +61 2 6210 4820

Fax: +61 2 6210 4840

Hpy

Та	ble	4
----	-----	---

Compound	Animal Feed Commodity	MRL (mg/kg)
	Field pea forage (green)	1
	Forage (green) of cereal grains	0.2
· · · · ·	Lupin fodder (dry)	0.02
AL 0545	Lupin forage	1
	Navy beans fodder	1
	Navy beans torage (green)	0 T*0 04
AL 0072	Pea hay or Pea fodder (dry)	1-0.01
AL 0528	Pear vines (green)	11 E
10.0004	Pear pointace, dry	*0.04
AS 0081	Surarcapo fodder	*0.07
	Wheet straw and fodder, dou	*0.02
A3 0004	Wheat Staw and Toddor, dry	0.01
Bitertanol		
AL 1030	Bean forage (green)	50
AL 0061	Bean fodder	50
Boscalid		
AB 0269	Grape pomace, dry	25
Buprofezin		_
AB 0001	Citrus pulp, dry	5
AB 0269	Grape pomace, dry	5
Butafenacil		±2.04
AC 0091	Forage of cereal grains (dry)[except rice]	*0.01
		-
Butroxydim AL 0157	Legume animal feeds	*0.01
Captan		
	Almond hulls	T60
AB 0226	Apple pomace, dry	10
AB 0269	Grape pomace, dry	10
Carbaryl		
AF 0080	Forage of cereal grains	T100
AS 0081	Straw and fodder (dry) of cereal grains	T100
Carbandazim		
Al 0157	Legume animal feeds	25
Carbosulfan see Carbofuran		
Carboiuran	Drimony food commodition	2
	Primary reed commodities	2
Carfentrazone-ethyl		
	Cereal grain forage and fodder	*0.05
	Pastures	*0.05
Chlordane		
	Primary feed commodities	E0.01
Chlorfenapyr		
AB 0226	Apple pomace, dry	3
	, e F	_
Chiormequat		TOC
AS 0640	Darley lorage (green)	120
A3 0040	Darley straw and todder (dry)	110
	wheat forage (green)	25

APY

_			
Ta	hi	0	
	1.7		_

Compound	Animal Feed Commodity	MRL (mg/kg)
AS 0654	Wheat straw and fodder, dry	15
Chlorothalonil		
	Pulses, forage and fodder	T100
Chlorpyrifos		
AM 0691	Cotton fodder, dry	30
AL 1270	Peanut forage (green)	0.05 T10
,	Peanut hay	T2
Chlorsulfuron		
	Primary feed commodities	10
Clodinafop acid		*0 4
AS 0654	wheat straw and todder, dry	<b>*</b> 0.1
Clodinafop-propargyl	Wheat straw and fodder, dry	*A 4
	Wilcar Shaw and IOUUEL, ULY	0.1
Clofentezine	Almond hulls	T5
01		
Ciomazone	Rice forage (green)	*0.01
AS 0649	Rice Straw and fodder (dry)	*0.01
Clopyralid		
	Canola fodder	10
	Canola forage	25
	Porage of dereal grains Pasture	25 100
AS 0081	Straw and fodder (dry) of cereal grains	10
Cloquintocet-mexyl		
- <b>-</b>	Cereal forage (fresh weight)	*0.1
AS 0081	Straw and fodder (dry) of cereal grains [except rice	e] *0.1
Clothianidin		
	Cotton seed by-products	T*0.01
Cyanazine		** **
AS 0004	wheat straw and fodder, dry	*0.01
Cyfluthrin		
	Canola forage (green)	1
	Chick-nea forage (green)	2 5
	Faba bean forage (green)	5
	Field pea forage (green)	5
AF 0081	Forage of cereal grains	5
	Grass pastures (green)	2
AL 05/5	Legume pastures (except vetch) (green)	3
AL 0545	Lupin, forage (green)	2
AE 0651	Navy bean forage (green) and fodder	1
	Straw and fodder (dni) of cereal aming	0.5
AS 0081	or an one rouger (ary) or benear grains	J
AS 0081		
AS 0081 Cyhalofop-butyl	Rice forage (green)	*0.1

Ph: +61 2 6210 4820

4

Та	ıble	4
----	------	---

MRL (mglkg)
1
1
1
1
2
2
· 15
10
10
10
5
10
3
20
0.2
10
3
E0.05
5
5
5
5
7
0.1
0.1
0.1
to 4
°U.1
2
1
*0.1
*0.05
T*0.05
*0.1
*0.05
T50
F
0 0 0
U.Z
20

:-----

Арц

_	•		
La	ıb	le	4

Compound	Animal Feed Commodity	MRL (mg/kg)
Dimethoate		1
AL 0545		20
Diphenylamine	Apple pomace, wet	20
Diquat AL 0157	Legume animal feeds	100
Dithiocarbamates (mancozeb, metham, metiram, propineb, thiram, zineb and ziram)		
AL 1029	Primary feed commodities Vetch	50 T0.5
Diuron		_
AL 0157	Legume animal feeds	2
	Primary reed commodities	50
	(except legame animal leeds)	50
Emamectin	Fodder and forage of sweet corn	0.05
Endocriftan	·	
AB 0226	Apple pomace, dry	1
	Cereal forage (green)	0.3
	Citrus pulp and pomace, dry	2
	Forage of pulse crops (green)	0.3
	Forage of oilseed crops	0.3
AS 0081	Straw and fodder (dry) of cereal grains	0.4
	Straw and fodder (drv) of oilseeds	*0.1
	Straw and fodder (dry) of pulse crops	0.3
Endrin		
	Primary feed commodities	E0.03
Epoxiconazole		
	Barley forage, green	5
AS 0640	Barley straw and fodder, dry	7
	Wheat forage, green	5
AS 0654	Wheat straw and fodder, dry	7
Ethametsulfuron methyl		
	Lupin fodder (dry)	*0.02
AL 0545	Lupin, forage [fresh weight]	*0.02
Ethephon		10
Ethion	Primary feed commodities	10
AM 0691	Cotton fodder, dry	20
Ethoxysulfuron		
AM 0659	Sugar cane fodder [fresh weight]	T*0.01
Etoxazole		
	Apple pomoco, day	n
AB 0220	Apple pomace, dry	Z T2
	Grape pomace, dry	12
renamipnos	Primary feed commodities	1
Fenhexamid		
	Grape pomace (wet weight basis)	50
Fenitrothion I		
	Alfalfa fodder () ucerne)	Τĸ
AL 1021	Alfalfa forane (green) [Luceme]	тя
	a mana lorage (green) [Edeenie]	ιψ.
	6	

HPY

Table	e 4
-------	-----

AL       0157       Legume animal feeds (except alfalfa fodder am forage)         AS       0161       Straw, fodder (dry) and hay of cereal grains and other grass-like plants         Fenoxaprop-ethyl       Cereal forage (fresh weight)         AL       0524       Chick-pea fodder         AS       0081       Straw and fodder, dry         AS       0081       Straw and fodder (dry) of cereal grains except rice         Fenvalerate       AL       1020         AL       1020       Alfalfa forage (green)         Primary feed commodities (except alfalfa forage (green) and alfalfa forder         AL       0697       Peanut forage and fodder         AS       0649       Rice straw and fodder, dry         AS       0651       Sorghum straw and fodder, dry         AS       0651       Sorghum straw and fodder, dry         Flampr	T10 T10 T10 T10 T10 0.5 0.5 T1 0.5
AL       0157       Legume animal feeds (except alfalfa fodder aniforage)         AS       0161       Straw, fodder (dry) and hay of cereal grains and other grass-like plants         Fenoxaprop-ethyl       Cereal forage (fresh weight)         AL       0524       Chick-pea forage (green)         AS       0081       Straw and fodder, dry         AS       0081       Straw and fodder (dry) of cereal grains except rice         Fervalerate       AL       1020         AL       1020       Alfalfa fodder         AL       1020       Alfalfa fordge (green)         Primary feed commodities (except alfalfa forage (green)       Primary feed commodities (except alfalfa forage (green) and alfalfa fordder]         Fipronil       Pastures (mixed grasses/leguminous)[fresh we 0.02       Peanut forage and fodder         AS       0649       Rice straw and fodder, dry         AS       0651       Sorghum forage (green)         Rape (canola) forage (green)       Rape (canola) forage (green)         AM       0659       Sugar cane fodder         AS       0649       Rice straw and fodder, dry         AS       0651       Sorghum forage (green) (fresh weight]         AS       0654       Wheat straw and fodder, dry         Triticale straw and fodder, dry	1 T10 T10 *0.01 0.5 0.5 T1 0.5
AS 0161 Straw, fodder (dry) and hay of cereal grains and other grass-like plants Feiroxaprop-ethyl Cereal forage (fresh weight) AL 0524 Chick-pea fodder Chick-pea forage (green) AS 0649 Rice straw and fodder, dry AS 0081 Straw and fodder (dry) of cereal grains except rice Fervalerate AL 1020 Alfalfa forage (green) Primary feed commodities (except alfalfa forage (green) and alfalfa fodder) Fipronil Pastures (mixed grasses/leguminous)[fresh wei 0.02 AL 0697 Peanut forage and fodder, dry AS 0649 Rice straw and fodder, dry AE 0651 Sorghum forage (green)[fresh weight] AS 0651 Sorghum forage (green) (fresh weight] Fiamprop-methyl Fiamprop-methyl Fiamprop-methyl Fiamprop-methyl Fiamprop-methyl Fiamprop-methyl AS 0654 Wheat straw and fodder, dry Triticale straw and fodder, dry Triticale straw and fodder, dry Triticale straw and fodder, dry Canola forage (green) (fresh weight] AS 0654 AS 0081 Straw and fodder of cereal grains [fresh weight] AS 0654 AS 0081 Forage of cereal grains [fresh weight] AS 0654 AF 0655 AS 0081 Forage of cereal grains [fresh weight] AS 0654 AF 0655 AS 0081 Forage of cereal grains [fresh weight] AS 0654 AF 0655 AS 0645 Maize forage AF 0655 AS 0645 AF 0645 AF 0651 Sorghum forage (green) AF 0651 Sorghum taray and fodder AF 0655 AS 0645 AF 0651 Sorghum taray and fodder AF 0655 AS 0645 AF 0655 AS 0655 A	*0.01 0.5 0.5 T1 0.5
AS 0161 grains and other grass-like plants Fenoxaprop-ethyl AL 0524 Chick-pea forage (fresh weight) AL 0524 Chick-pea forage (green) AS 0649 Rice straw and fodder, dry AS 0081 Straw and fodder (dry) of cereal grains except rice Fenvalerate AL 1020 Alfalfa forage (green) Primary feed commodities (except alfalfa forage (green) and alfalfa fodder] Fipronil Pastures (mixed grasses/leguminous)[fresh we 0.02 AL 0697 Peanut forage and fodder AS 0649 Rice straw and fodder AS 0649 Rice straw and fodder AL 0697 Peanut forage and fodder AS 0649 Rice straw and fodder AS 0649 Rice straw and fodder, dry AF 0651 Sorghum straw and fodder, dry AK 0659 Sugar cane fodder Sunflower forage (green) (fresh weight] AS 0654 Wheat straw and fodder, dry Triticale straw and fodder, dry AS 0654 Straw and fodder, dry AS 0654 Straw and fodder, dry AS 0654 Sugar cane forage (green) (fresh weight) AS 0654 Sugar cane forage (fresh weight) AS 0654 Straw and fodder, dry Triticale straw and fodder, dry Florasula AF 0081 Forage of cereal grains [fresh weight] AS 0654 Maize forage AS 0645 Maize forage A 5 0645 Maize forage A 5 0651 Sorghum straw and fodder, dry	*0.01 0.5 0.5 T1 0.5
Fenoxaprop-ethyl       Cereal forage (fresh weight)         AL       0524         AS       0649         AS       0081         Straw and fodder (dry) of cereal grains except rice         Fenoxalerate         AL       1020         AL       1020         AL       1021         AL       1020         AL       1021         AL       1064r         Fipronil       Pastures (mixed grasses/leguminous)[fresh weight]         Figenola       Paenut forage and fodder         Rape (canola) forage (green))       Rape (canola) straw and fodder, dry         AS       0649       Rice straw and fodder, dry         AS       0651       Sorghum straw and fodder, dry         AS       0659       Sugar cane fodder         Sunflower forage (green) (fresh weight]       Sorasos         AS	*0.01 0.5 0.5 T1 0.5
AL       0524       Cereal forage (fresh weight) Chick-pea forage (green)         AS       0649       Rice straw and fodder, dry         AS       0081       Straw and fodder (dry) of cereal grains except rice         Fervalerate         AL       1020       Alfalfa fodder         AL       1021       Alfalfa forage (green) Primary feed commodities (except alfalfa forage (green) and alfalfa fodder)]         Fipronil         Pastures (mixed grasses/leguminous)[fresh we 0.02         AL       0697       Peanut forage and fodder Rape (canola) forage (green) Rape (canola) forage (green) Rape (canola) straw and fodder, dry         AS       0649       Rice straw and fodder, dry         AS       0651       Sorghum forage (green) Rape (green) [fresh weight]         AS       0659       Sugar cane fodder Sunflower forage (green) (fresh weight]         Afroage of cereal grains [fresh weight]         Straw and fodder, dry Triticale straw and fodder, dry         Florasula         AF 0081         Canola forage (fresh weight]         AS 0645         Maize fodder         Straw and fodder, dry         Triticale straw and fodder, dry         Triticale str	*0.01 0.5 0.5 T1 0.5
AL       0524       Chick-pea forage (green)         AS       0649       Rice straw and fodder, dry         AS       0081       Straw and fodder (dry) of cereal grains except rice         Fenvalerate         AL       1020       Alfalfa forage (green)         Primary feed commodities (except alfalfa forage (green) and alfalfa forage (green)         Fipronil       Pastures (mixed grasses/leguminous)[fresh we         0.02       AL         AL       0697         Peanut forage and fodder         Rape (canola) forage (green)         Rape (canola) straw and fodder, dry         AF       0651         Sorghum forage (green) (fresh weight]         AS       0654         Sugar cane fodder	0.5 0.5 T1 0.5
Chick-pea forage (green) AS 0649 Rice straw and fodder, dry AS 0081 Straw and fodder (dry) of cereal grains except rice Fenvalerate AL 1020 Alfalfa fodder AL 1021 Alfalfa forage (green) Primary feed commodities (except alfalfa forage (green) and alfalfa fodder]] Fipronil 0.02 AL 0697 Peanut forage and fodder Rape (canola) forage (green) Rape (canola) straw and fodder AS 0649 Rice straw and fodder, dry AS 0651 Sorghum forage (green) (fresh weight] AS 0651 Sorghum straw and fodder, dry AM 0659 Sugar cane fodder Sunflower forage (green) (fresh weight) Fiamprop-m-methyl see Flamprop-methyl Flamprop-methyl AS 0654 Wheat straw and fodder, dry Florasula AF 0081 Forage of cereal grains (fresh weight] AS 0081 Straw and fodder of cereal grains (fresh weight] AS 0081 Porage (green) AS 0645 Maize forage AS 0645 Maize forage AS 0645 Pea vines (green) AS 0651 Sorghum forage (green) Flamprop-methyl Straw and fodder of cereal grains (fresh weight] AS 0654 Wheat straw and fodder, dry Triticale straw and fodder, dry Florasula AF 0081 Forage of cereal grains (fresh weight] AS 0081 Straw and fodder AS 0645 Maize forage AF 0645 Maize forage AF 0645 Maize forage A 0528 Pea vines (green) AF 0551 Sorghum forage (green) AS 0651 Sorghum straw and fodder, dry	0.5 T1 0.5
AS 0649 Rice straw and fodder, dry AS 0081 Straw and fodder (dry) of cereal grains except rice Fenvalerate AL 1020 Alfalfa fordger AL 1021 Alfalfa forage (green) Primary feed commodities (except alfalfa forage (green) and alfalfa fodder] Fipronil Pastures (mixed grasses/leguminous)[fresh we 0.02 AL 0697 Peanut forage and fodder Rape (canola) forage (green) Rape (canola) forage (green) Rape (canola) straw and fodder AS 0649 Rice straw and fodder, dry AF 0651 Sorghum straw and fodder, dry AM 0659 Sugar cane fodder Sunflower forage (green) (fresh weight] see Flamprop-m-methyl see Flamprop-methyl Flamprop-methyl AS 0654 Wheat straw and fodder, dry Triticale straw and fodder, dry Florasula AF 0081 Forage of cereal grains [fresh weight] AS 0081 Straw and fodder of cereal grains (dry) Fludioxonil Canola forage (fresh weight) Canola forage (fresh weight) Canola forage (fresh weight) Canola straw and fodder AS 0645 Maize forage AL 0528 Pea vines (green) AS 0651 Sorghum forage (green)	T1 0.5
AS 0081 Straw and fodder (dry) of cereal grains except rice Fervalerate AL 1020 Alfalfa fodder AL 1021 Alfalfa forage (green) Primary feed commodities (except alfalfa forage (green) and alfalfa fodder)] Fipronil Pastures (mixed grasses/leguminous)[fresh we 0.02 AL 0697 Peanut forage and fodder AS 0649 Rice straw and fodder, dry AF 0651 Sorghum forage (green)[fresh weight] AS 0651 Sorghum straw and fodder, dry AM 0659 Sugar cane fodder Flamprop-methyl See Flamprop-methyl Flamprop-methyl Flamprop-methyl Flamprop-methyl Canola forage of cereal grains [fresh weight] AS 0081 Forage of cereal grains [fresh weight] AS 0081 Straw and fodder, dry Florasula AF 0081 Forage of cereal grains [fresh weight] AS 0081 Straw and fodder AS 0645 Maize forage AL 0528 Pea vines (green) AS 0651 Sorghum straw and fodder AS 0645 Maize forage AL 0528 Pea vines (green) AS 0651 Sorghum forage (green) AS 0651 Sorghum forage (green) AS 0651 Sorghum straw and fodder, dry Florasula AF 0085 Straw and fodder AS 0645 Maize forage AL 0528 Pea vines (green) AS 0651 Sorghum straw and forage (green)	0.5
Fenvalerate       AL 1020       Alfalfa fodder         AL 1020       Alfalfa forage (green)       Primary feed commodities (except alfalfa forage (green) and alfalfa fodder)]         Fipronil       Pastures (mixed grasses/leguminous)[fresh we         0.02       Peanut forage and fodder         AL 0697       Peanut forage and fodder         AL 0697       Peanut forage and fodder         AL 0697       Peanut forage (green)         Rape (canola) forage (green)       Rape (canola) straw and fodder         AS 0649       Rice straw and fodder, dry         AS 0651       Sorghum straw and fodder, dry         AM 0659       Sugar cane fodder         Sunflower forage (green) (fresh weight]       Suffower forage (green) (fresh weight)         AS 0654       Wheat straw and fodder, dry         Flamprop-methyl       Forage of cereal grains [fresh weight]         AS 0054       Wheat straw and fodder, dry         Florasula       Forage of cereal grains [fresh weight]         AS 0081       Straw and fodder         AS 0081       Straw and fodder         AS 0081       Straw and fodder         AF 0081       Forage of cereal grains [fresh weight]         AS 0645       Maize forage         AF 0645       Maize forage         AF 064	0.0
AL 1020 AL 1020 AL 1021 Alfalfa forage (green) Primary feed commodities (except alfalfa forage (green) and alfalfa fodder)] Fipronil Pastures (mixed grasses/leguminous)[fresh we 0.02 AL 0697 Peanut forage and fodder Rape (canola) forage (green) Rape (canola) straw and fodder AS 0649 AF 0651 Sorghum forage (green)[fresh weight] AS 0651 Sorghum straw and fodder, dry AM 0659 Sugar cane fodder Sunflower forage (green) (fresh weight) Flamprop- <i>m</i> -methyl see Flamprop-methyl AS 0654 Wheat straw and fodder, dry Triticale straw and fodder, dry Florasula AF 0081 AF 0081 AF 0081 AF 0081 Straw and fodder (cereal grains [fresh weight] AS 0654 Maize forage (fresh weight) Canola forage (fresh weight) Canola forage (fresh weight) Canola straw and fodder AF 0645 Maize forage AL 0528 Pea vines (green) AS 0651 Sorghum forage (green) AS 0651 Sorghum straw and fodder, dry	
AL 1021 Alfalfa forage (green) Primary feed commodities (except alfalfa forage (green) and alfalfa fodder)] Fipronil Pastures (mixed grasses/leguminous)[fresh we 0.02 AL 0697 Peanut forage and fodder Rape (canola) straw and fodder AS 0649 Rice straw and fodder, dry AF 0651 Sorghum forage (green)[fresh weight] AS 0651 Sorghum straw and fodder, dry AM 0659 Sugar cane fodder Sunflower forage (green) (fresh weight) see Flamprop-methyl Flamprop-methyl AS 0654 Wheat straw and fodder, dry Triticale straw and fodder, dry Florasula AF 0081 Forage of cereal grains [fresh weight] AS 0645 Maize fodder AS 0645 Maize fodder AS 0645 Maize forage AL 0528 Pea vines (green) AS 0651 Sorghum straw and fodder, dry Fludioxonil Canola forage (green) AS 0645 Maize forage AL 0528 Pea vines (green) AS 0651 Sorghum straw and fodder, dry	2
Primary feed commodities (except alfalfa forage (green) and alfalfa fodder)]         Fipronil       Pastures (mixed grasses/leguminous)[fresh we 0.02         AL 0697       Peanut forage and fodder         AL 0697       Peanut forage and fodder         Rape (canola) forage (green)       Rape (canola) straw and fodder         AS 0649       Rice straw and fodder, dry         AF 0651       Sorghum forage (green)[fresh weight]         AS 0651       Sorghum straw and fodder, dry         AM 0659       Sugar cane fodder         Sunflower forage (green) (fresh weight)       Sunflower forage (green) (fresh weight)         Flamprop-methyl       See Flamprop-methyl         Flamprop-methyl       Forage of cereal grains [fresh weight]         AS 0081       Forage of cereal grains [fresh weight]         AS 0081       Straw and fodder         AF 0081       Canola forage (fresh weight)         Canola forage (fresh weight)       Canola straw and fodder         AF 0645       Maize fodder         AF 0645       Maize forage         AL 0528       Pea vines (green)         AF 0651       Sorghum forage (green)         AS 0651       Sorghum forage (green)	2
(green) and alfalfa fodder)]         Fipronil         0.02         AL 0697       Peanut forage and fodder         Rape (canola) forage (green)         Rape (canola) straw and fodder         AS 0649       Rice straw and fodder, dry         AF 0651       Sorghum forage (green)[fresh weight]         AS 0651       Sorghum straw and fodder, dry         AM 0659       Sugar cane fodder         Sugar cane fodder       Sunflower forage (green) (fresh weight)         Flamprop-m-methyl       Sugar cane fodder, dry         Flamprop-methyl       Flamprop-methyl         Flamprop-methyl       Forage of cereal grains [fresh weight]         AS 0654       Wheat straw and fodder, dry         Florasula       Forage of cereal grains [fresh weight]         AS 0081       Straw and fodder of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight)         Canola forage (fresh weight)       Canola straw and fodder         AF 0645       Maize forage         AF 0645       Maize forage         AF 0645       Maize forage         AF 0645       Pea vines (green)         AF 0645       Maize forage         AF 0645       Sorghum forage (green)         AF 0651       Sorghum	•
Fipronil       Pastures (mixed grasses/leguminous)[fresh we         0.02       AL 0697       Peanut forage and fodder         AL 0697       Peanut forage and fodder         Rape (canola) forage (green)       Rape (canola) straw and fodder, dry         AS 0649       Rice straw and fodder, dry         AF 0651       Sorghum forage (green)[fresh weight]         AS 0651       Sorghum straw and fodder, dry         AM 0659       Sugar cane fodder         Sumflower forage (green) (fresh weight)         Flamprop-m-methyl         see Flamprop-methyl         Flamprop-methyl         AS 0654       Wheat straw and fodder, dry         Triticale straw and fodder, dry         Triticale straw and fodder, dry         Triticale straw and fodder, dry         Florasula         AF 0081       Forage of cereal grains [fresh weight]         AS 0081       Straw and fodder of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight)         Canola forage (fresh weight)       Canola straw and fodder         AF 0645       Maize fodder         AF 0645       Maize forage         AL 0528       Pea vines (green)         AF 0651       Sorghum forage (green)         AF 0651       Sorghum forage	10
0.02         AL       0697         Peanut forage and fodder         Rape (canola) forage (green)         Rape (canola) straw and fodder         AS       0649         AS       0651         Sorghum forage (green)[fresh weight]         AS       0651         Sorghum straw and fodder, dry         AM       0659         Sugar cane fodder         Sumflower forage (green) (fresh weight)         Flamprop-m-methyl         see Flamprop-methyl         Flamprop-methyl         AS       0654         Wheat straw and fodder, dry         Triticale straw and fodder, dry         Florasula         AF       0081         Forage of cereal grains [fresh weight]         AS       0081         Straw and fodder         Canola forage (fresh weight)         Canola straw and fodder         AF       0645         Maize forage         AL       0528         Pea vines (green)         AF       0651	ahti
AL       0697       Peanut forage and fodder         Rape (canola) forage (green)       Rape (canola) straw and fodder         AS       0649       Rice straw and fodder, dry         AF       0651       Sorghum forage (green)[fresh weight]         AS       0651       Sorghum straw and fodder, dry         AM       0659       Sugar cane fodder         Sunflower forage (green) (fresh weight)       Sunflower forage (green) (fresh weight)         Flamprop-m-methyl       See Flamprop-methyl         Flamprop-methyl       Yeas straw and fodder, dry         AS       0654       Wheat straw and fodder, dry         Florasula       Forage of cereal grains [fresh weight]         AS       0081       Forage of cereal grains [fresh weight]         AS       0081       Straw and fodder of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight)         Canola straw and fodder       Canola straw and fodder         AF       0645       Maize forage         AL       0528       Pea vines (green)         AF       0651       Sorghum forage (green)         AS       0651       Sorghum straw and fodder, dry	yny
Rape (canola) forage (green) Rape (canola) straw and fodderAS 0649Rice straw and fodder, dryAF 0651Sorghum forage (green)[fresh weight]AS 0651Sorghum straw and fodder, dryAM 0659Sugar cane fodder Sunflower forage (green) (fresh weight)Flamprop-m-methyl see Flamprop-methylFlamprop-methylAS 0654Wheat straw and fodder, dry Triticale straw and fodder, dryFlorasula AS 0081AF 0081 AS 0081Forage of cereal grains [fresh weight] Straw and fodder of cereal grains (dry)FludioxonilCanola forage (fresh weight) Canola straw and fodder As 0645AS 0645Maize forage Al 0528AL 0528Pea vines (green) As 0651AS 0651Sorghum forage (green) As 0651	0.01
AS 0649       Rape (canola) straw and fodder         AF 0651       Sorghum forage (green)[fresh weight]         AS 0651       Sorghum straw and fodder, dry         AM 0659       Sugar cane fodder         Sugar cane fodder       Sunflower forage (green) (fresh weight)         Flamprop-m-methyl       See Flamprop-methyl         Flamprop-methyl       Wheat straw and fodder, dry         AS 0654       Wheat straw and fodder, dry         Florasula       Forage of cereal grains [fresh weight]         AS 0081       Forage of cereal grains (fresh weight]         AS 0855       Maize forage (fresh weight)         Canola forage (fresh weight)       Canola straw and fodder         AF 0645       Maize forage         AF 0645       Maize forage         AF 0645       Maize forage         AF 0651       Sorghum forage (green)         AS 0645       Maize forage         AL 0528       Pea vines (green)         AF 0651       Sorghum forage (green)	*0.01
AS 0649       Rice straw and fodder, dry         AF 0651       Sorghum forage (green)[fresh weight]         AS 0651       Sorghum straw and fodder, dry         AM 0659       Sugar cane fodder         Sunflower forage (green) (fresh weight)       Sunflower forage (green) (fresh weight)         Flamprop-m-methyl       Sunflower forage (green) (fresh weight)         Flamprop-m-methyl       Wheat straw and fodder, dry         AS 0654       Wheat straw and fodder, dry         Florasula       Forage of cereal grains [fresh weight]         AS 0081       Forage of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight)         Canola forage (fresh weight)       Canola straw and fodder         AF 0645       Maize fodder         AF 0645       Maize forage         AL 0528       Pea vines (green)         AF 0651       Sorghum forage (green)	*0.01
AF 0651       Sorghum forage (green)[fresh weight]         AS 0651       Sorghum straw and fodder, dry         AM 0659       Sugar cane fodder         Sunflower forage (green) (fresh weight)       Sunflower forage (green) (fresh weight)         Flamprop-m-methyl       See Flamprop-methyl         Flamprop-methyl       Wheat straw and fodder, dry         Triticale straw and fodder, dry       Triticale straw and fodder, dry         Florasula       Forage of cereal grains [fresh weight]         AS 0081       Forage of cereal grains [fresh weight]         AS 0081       Straw and fodder of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight)         Canola straw and fodder       Canola straw and fodder         AF 0645       Maize fodder         AF 0645       Maize forage         AL 0528       Pea vines (green)         AF 0651       Sorghum forage (green)         AS 0651       Sorghum straw and fodder, dry	0.005
AS 0651 Sorghum straw and fodder, dry AM 0659 Sugar cane fodder Sunflower forage (green) (fresh weight) Flamprop-m-methyl see Flamprop-methyl Flamprop-methyl AS 0654 Wheat straw and fodder, dry Triticale straw and fodder, dry Florasula AF 0081 Forage of cereal grains [fresh weight] AS 0081 Straw and fodder of cereal grains (dry) Fludioxonil Canola forage (fresh weight) Canola straw and fodder AF 0645 Maize fodder AF 0645 Maize forage AL 0528 Pea vines (green) AS 0651 Sorghum forage (green) AS 0651 Sorghum straw and fodder, dry	0.02
AM 0659       Sugar cane fodder Sunflower forage (green) (fresh weight)         Flamprop-m-methyl see Flamprop-methyl       Flamprop-methyl         Flamprop-methyl       Wheat straw and fodder, dry Triticale straw and fodder, dry         Florasula AF 0081       Forage of cereal grains [fresh weight] Straw and fodder of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight) Canola straw and fodder         AS 0645       Maize fodder         AF 0455       Maize forage         AL 0528       Pea vines (green) Sorghum forage (green)         AS 0651       Sorghum straw and fodder, dry	*0.01
Flamprop-m-methyl         see Flamprop-methyl         Flamprop-methyl         AS 0654       Wheat straw and fodder, dry Triticale straw and fodder, dry         Florasula         AF 0081       Forage of cereal grains [fresh weight] Straw and fodder of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight) Canola straw and fodder         AS 0645       Maize fodder         AF 0645       Maize forage         AL 0528       Pea vines (green)         AF 0651       Sorghum forage (green)         AS 0651       Sorghum straw and fodder, dry	0.01
Flamprop-m-methyl         see Flamprop-methyl         AS 0654       Wheat straw and fodder, dry Triticale straw and fodder, dry         Florasula         AF 0081       Forage of cereal grains [fresh weight]         AS 0081       Straw and fodder of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight) Canola straw and fodder         AS 0645       Maize fodder         AF 0645       Maize forage         AL 0528       Pea vines (green)         AF 0651       Sorghum forage (green)         AS 0651       Sorghum straw and fodder, dry	*0.01
Flamprop-methyl       AS 0654       Wheat straw and fodder, dry Triticale straw and fodder, dry         Florasula       Forage of cereal grains [fresh weight] AS 0081       Forage of cereal grains [fresh weight] Straw and fodder of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight) Canola straw and fodder         AS 0645       Maize fodder         AF 0645       Maize forage         AL 0528       Pea vines (green)         AF 0651       Sorghum forage (green)         AS 0651       Sorghum straw and fodder, dry	
AS 0654 Wheat straw and fodder, dry Triticale straw and fodder, dry Florasula AF 0081 Forage of cereal grains [fresh weight] AS 0081 Straw and fodder of cereal grains (dry) Fludioxonil Canola forage (fresh weight) Canola straw and fodder AS 0645 Maize fodder AF 0645 Maize forage AL 0528 Pea vines (green) AF 0651 Sorghum forage (green) AS 0651 Sorghum straw and fodder, dry	
Florasula       Forage of cereal grains [fresh weight]         AF       0081       Forage of cereal grains [fresh weight]         AS       0081       Straw and fodder of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight) Canola straw and fodder         AS       0645       Maize fodder         AF       0645       Pea vines (green)         AF       0651       Sorghum forage (green)         AS       0651       Sorghum straw and fodder, dry	0.1
Florasula       Forage of cereal grains [fresh weight]         AF 0081       Forage of cereal grains [fresh weight]         AS 0081       Straw and fodder of cereal grains (dry)         Fludioxonil       Canola forage (fresh weight)         Canola straw and fodder       Canola straw and fodder         AS 0645       Maize fodder         AF 0645       Maize forage         AL 0528       Pea vines (green)         AF 0651       Sorghum forage (green)         AS 0651       Sorghum straw and fodder, dry	0.1
AF0081Forage of cereal grains [fresh weight]AS0081Straw and fodder of cereal grains (dry)FludioxonilCanola forage (fresh weight) Canola straw and fodderAS0645Maize fodderAF0645Maize forageAL0528Pea vines (green)AF0651Sorghum forage (green)AS0651Sorghum straw and fodder, dry	
AS 0081 Straw and fodder of cereal grains (dry) Fludioxonil Canola forage (fresh weight) Canola straw and fodder AS 0645 Maize fodder AF 0645 Maize forage AL 0528 Pea vines (green) AF 0651 Sorghum forage (green) AS 0651 Sorghum straw and fodder, dry	*0.05
Fludioxonil       Canola forage (fresh weight) Canola straw and fodder         AS 0645       Maize fodder         AF 0645       Maize forage         AL 0528       Pea vines (green)         AF 0651       Sorghum forage (green)         AS 0651       Sorghum straw and fodder, dry	*0.05
Canola forage (fresh weight) Canola straw and fodderAS 0645Maize fodderAF 0645Maize forageAL 0528Pea vines (green)AF 0651Sorghum forage (green)AS 0651Sorghum straw and fodder, dry	
Canola straw and fodderAS 0645Maize fodderAF 0645Maize forageAL 0528Pea vines (green)AF 0651Sorghum forage (green)AS 0651Sorghum straw and fodder, dry	*0.01
AS0645Maize fodderAF0645Maize forageAL0528Pea vines (green)AF0651Sorghum forage (green)AS0651Sorghum straw and fodder, dry	*0.02
AF0645Maize forageAL0528Pea vines (green)AF0651Sorghum forage (green)AS0651Sorghum straw and fodder, dry	*0.02
AL0528Pea vines (green)AF0651Sorghum forage (green)AS0651Sorghum straw and fodder, dry	*0.02
AF 0651 Sorghum forage (green) AS 0651 Sorghum straw and fodder, dry	T4
AS 0651 Sorghum straw and fodder, dry	T*0.02
	T*0.02
Suntiower forage and fodder	1*0.02
Sweet com forage and fodder	^0.02
Flumetsulam	<b>to</b> 4
AS 0640 Barley forage [Fresh weight]	°0.1
barrey straw and todder, dry	0.05
Leyume pasture Maizo formas (green) and feddor	0.00
AF 0647 Oat forage [Freeh weight]	15
AS 0647 Oat straw and folder dry	15 *0.05 *0.1
Peanut forace (green) and fodder	15 *0.05 *0.1
Pulse forage and fodder	15 *0.05 *0.1 0.05 *0.05

7

Ph: +61 2 6210 4820

Fax: +61 2 6210 4840

Ap4

	Table 4	
Compound	Animal Feed Commodity	MRL (mgikg)
AF 0650	Rye forage (green) [Fresh weight]	*0.1
AS 0650	Rye straw and fodder, dry	0.05
	Triticale forage [Fresh weight]	*0.1
	Triticale straw and fodder, dry	0.05
	Wheat forage [Fresh weight]	*0.1
AS 0654	Wheat straw and fodder, dry	0.05
Flumioxazin		*0.05
•	Forage of cereal grains (iresh weight)	-0.05
	Forage of oil seeds [fresh weight]	~0.05
	Forage and fodder of pulses	*0.1
45 0081	Oil seed straw and fodder Straw and fodder (dn)) of cereal grains	*0.1
	Such and Isodisi (ary) of coreal grains	0.00
Fluquinconazole	Barley forage	2
AS 0640	Barley straw and fodder dry	0.5
	Canola forage	0.5
	Canola straw and fodder, dry	*0.01
	Pome fruit nomace dry	3
	Wheat forage	2
AS 0654	Wheat straw and fodder dry	05
	mou, oran and folder, asy	0.0
Fluroxypyr		
AF 0161	Forage of cereal grains and other grass-like plants	: 100
	Mixed Pastures (leguminous/grasses)	700
	Primary feed commodities fother than straw and	
	fodder (drv) and hav of cereal grains and other	
	grass-like plants, and sugar cane fodder	
	and forage]	25
AS 0161	Straw and fodder (dry) and hay of cereal grains an	d
	other grass-like plants	100
AM 0659	Sugar cane fodder	100
AV 0659	Sugar cane forage	100
Flutriafol		
AF 0081	Forage of cereal grains	2
AL 0528	Pea vines (green) [fresh weight]	0.1
AS 0081	Straw and fodder (dry) of cereal grains	2
Furathiocarb see Carbofuran		
Glufosinate-ammonium		
	Canola forage	5
	Canola meal	0.2
	Canola straw and fodder (dry)	3
	Cotton meal and hulls	5
AS 0162	Hay or fodder (dry) of grasses	5
	Mixed pasture (legume/grasses)	15
Glyphosate		
AV 0691	Cotton forage	100
	Primary feed commodities [other than rape seed	
	forage, rape seed straw and fodder (dry),	
	cotton forage, soya bean hulls and soya bean	
	aspirated grain fractions]	150
	Rape seed forage	50
	Rape seed straw and fodder (dry)	1
	Soya bean aspirated grain fractions	50
	Soya bean hulls	10
DM 0659	Sugar cane Molasses	T5

8

Ph: +61 2 6210 4820

ar estal

ina at

7

Ap4

Tabl	е	4
------	---	---

Compound	Animal Feed Commodity	MRL (mg/kg)
Halosulfuron-methyl		
AF 0654	Maize forage	2
AS 0654	Maize fodder	2
AF 0651	Sorghum forage [Fresh weight]	*0.05
AS 0651	Sorghum fodder	0.1
AV 0659	Sugar cane forage	*0.05
Haloxyfop		
Al 1021	Alfalfa forage (green) [Lucerne]	5
AL 0061	Bean fodder	0.5
AL 1030	Bean forage (green)	5
	Canola forage	10
	Canola fodder	0.5
	Chick-pea forage	10
AL 0524	Chick-pea fodder	0.5
	Linola fodder	0.5
	Linola forage	10
	Linseed fodder	0.5
	Linseed forage	10
AL 0545	Lupin forage	10
	Lupin fodder	0.5
	Pasture (green)	3
AL 1270	Peanut forage (green)	3
AL 0697	Peanut fodder	5
AL 0528	Pea vines (green)	5
	Pea fodder	0.5
AL 1029	Vetch	3
HCB		50.04
	Primary feed commodities	E0.01
Heptachlor	Primary feed commodities	E0.02
imazamox	·	
	Adzuki bean forage and fodder [fresh weight]	T*0.05
	Faba bean forage and fodder [fresh weight]	T*0.05
AL 0157	Legume animal feeds lexcept faba bean forage	
	and fodder, nearlyt forage (green); nea vines	
	(green): sova bean forage (green)]	1
AL 1270	Peanut forage (green) [Fresh weight]	*0.05
AL 0528	Pea vines (green) [Fresh weight]	*0.05
	Rape seed fodder	*0.05
	Rape seed forage [fresh weight]	*0.05
AL 1265	Soya bean forage (green) [Fresh weight]	*0.05
Imazanic (formerly known	as (mazamoth)	
inazapie (ioimeny kiioim	Canola fodder (dn)	*0.05
	Canola louder (dry)	*0.05
	Caroal stubble (fresh weight)	0.00
	Cerear studdle (iresi weight)	0.5 *0.05
A1 0607	Porage of cereal grains [fresh weight]	*0.05
AL 0097	Peanul Iodder	*0.1
AL 1270	Peanut forage (green)	-0.1
AS 0604	wheat straw and fodder, dry	^0.05
Imazapyr	Canola fodder (drv)	*0.05
	Capola forage (green)	*0.05
	Forage of cereal grains (freeh weight)	0.00
AF 0645	Maize forade (dreen)(fresh weight)	10.2 *0.05
	Maize lorage (green/incent weight) Priman/feed commodities (other than maize	0.00
	fodder (dp) maize forage (green) [freeh weight]	
	iouuer (ary), maize iorage (green/mesh weight),	

Ph: +61 2 6210 4820

لاريب

Apy

Table 4

canala fodder (dry), canola forage (green), forage of cereal grains [fresh weight] and wheat straw and fodder, (dry)       15         AS 0654       Wheat straw and fodder, (dry)       0.00         AS 0645       Maize fodare (dry)       0.00         AF 0645       Maize fodare (dry)       0.00         AF 0645       Maize fodare (dry)       0.00         AF 0645       Maize fodare (dry)       2         AL 0661       Bean fodder       T10         Brassica forage (green)       T10       Brassica forage (repen)         AB 0001       Citrus pulp, dry       10         Coton seed hulis       0.00       0.00         Coton seed hulis       0.00       0.00         Coton seed hulis       0.00       0.00         AB 0220       Apple pomace, dry       2         AB 0001       Citrus pulp, dry       10         Coton seed hulis       0.00       0.00         Coton seed neal and forage       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0559       Sugar cane fodder       110         Lusene fodder       110       0.00         AB 0226       Apple pomace, dry       20         Coton seed meal and hulis       0.00<	Compound	Animal Feed Commodity	MRL (mg/kg)
AS 0654 Wheat straw and fodder, (dry) 70.00 Imazentapyor AS 0645 Maize forder (dry) 70.00 Imazentapyor AS 0645 Maize forder (dry) 70.00 AF 0645 Maize forder (dry) 710 Beastica forder errops (kele, rape, turnips and sweet) 1 Carola fodder and forage 10 Cation seed huits 70.00 Cation seed mail 0.00 Lucerne fodder and forage 1 AS 0081 Citrus pulp, dry 10 Cation seed final forage 1 AS 0081 Straw and fodder (dry) of cereal grains 0.7 AF 0646 Maize forage (dry) of cereal grains 0.7 AB 0226 Cation seed meal and huits 70.00 AB 0226 Cation seed meal and huits 70.00 Cation seed neal and huits 70.00 AB 0226 Cation seed neal and huits 70.00 Cation seed forage 110 Linseed forage 110 Safflower seed forader (dry) 3 AL 0157 Legume animal feeds 100 Linseed forage 110 Safflower seed forage 110 Safflower seed forage 110 Carola forage 110 AS 0654 Wheat, straw and fodder (dry) 1 AL 1270 Affalfa forage (green) [Lucene] 20 AL 1265 Soya bean huits and aspirated grain fractions 2 Soya bean huits aspirated grain fractions 2 Soya bean huits aspirated grain fractions 2 Soya bean huits and fodder (dry) 1 AL 1270 Affalfa forage (green) [Lucene] 20 AL 1265 Soya bean forage		canola fodder (dry), canola forage (green),	
AS 0654 Wheat straw and fodder, (dry) 10,000 Imazethapyr AS 0645 Maize fodder (dry) 0,000 Primary animal feed commodities 0,000 Cotton seed nuls 0,000 Primary and fodder (and forage 1 Rape seed [canola] fodder and forage 1 AS 0081 Straw and fodder, dry 20 Cotton seed meal and hulls 0,000 AB 0269 Grape pomace, dry 20 Cotton seed meal and hulls 0,000 Saflower seed forage 1,000 Saflower		forage of cereal grains [fresh weight] and	
AS 0654       Wheat straw and fodder, dry       '0.05         Imazethapyr       AS 0645       Maize fordge (green)[fresh weight]       '0.06         AF 0645       Maize fordge (green)[fresh weight]       '0.06         Imidacloprid       AB 0226       Apple pomace, dry       2         AL 0061       Bean fordge (green)       T10         AL 0061       Bean fordge (green)       T10         AB 0226       Apple pomace, dry       2         AB 0001       Certral and sweet com fodder and forage]       10         Cotton seed hulls       '0.07         Cotton seed neal       0.00         Cotton seed meal       0.00         Lupin fodder and forage       1         Lupin fodder and forage       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0659       Sugar cane fodder, dry       20         Cotton seed meal and hulls       '0.00       20         AB 0226       Apple pomace, dry       20         Cotton seed meal and hulls       '0.01       3         AB 0226       Grape pomace, dry       20         Cotton seed meal and hulls       '0.02       10         Sorga bean hulls and spirated grain fractions       2		wheat straw and fodder, (dry)]	15
Image thapyr       AS 0645       Maize fordge (dry)       0.00         AF 0645       Maize forage (green)[fresh weight]       0.00         Imidacloprid       Primary animal feed commodities       0.1         Imidacloprid       AE 00256       Apple pomace, dry       2         AL 0061       Bean forage (green)       T10         Brassics forage corps (kale, rape, turnips and swede)       1         Canola fodder       T0.5         Cereal and sweet com fodder and forage]       10         AB 0001       Citrus pulp, dry       10         Cotton seed hulis       *0.00         Cotton seed hulis       *0.00         Cotton seed meal       0.00         Cotton seed meal       0.00         Cotton seed meal       0.00         Cotton seed meal       0.00         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AB 0226       Cotton seed meal and hulis       *0.00         AB 0226       Cotton seed roage       10         Linseed forage       10       Linseed forage       10         Linseed forage       10       Linseed forage       10         Linseed forage       100       Safliower seed folder       100	AS 0654	Wheat straw and fodder, dry	*0.05
AS 0645 Maize fodder (dry) 00.00 AF 0645 Maize forage (green)[tresh weight] 00.00 Primary animal feed commodities 00.11 Imidacloprid AB 0226 Apple pomace, dry 2 AL 0061 Bean forage (green) T10 Brassica forage crops (kale, rape, turnips and sweede) 1 Canola fodder T05 Cereal and sweet com fodder and forage] 10 Cotton seed nulls 00.00 Cotton seed neal 10.00 Cotton seed neal 10.00 Cotton seed neal and hulls 00.00 Cotton seed fodder, dry 20 Cotton seed fodder and forage 1 Lupin fodder and forage 1 Lupin fodder and forage 1 AS 0081 Straw and fodder (dry) of cereal grains 0.7 AM 0659 Sugar cane fodder, dry 20 Cotton seed fodder T10 Safflower seed fodder T10 Safflower seed forage T10 Safflower seed forage T10 Safflower seed forage T10 Soya bean hulls 00.00 AS 0654 Wheat, straw and fodder (dry) 1 AL 1021 Afalfa forage (green) [Lucerne] 20 Canola forage 1 Canola straw and fodder (dry) 1 AL 1270 Peanut forage (green) 20 Canola straw and fodder (dry) 1 AL 1270 Peanut forage (green) 20 Canola straw and fodder (dry) 1 AL 1270 Peanut forage (green) 20 Chick pea forage (green) 20 Chick pea forage (green) 20 Chick pea forage (green) 5 Soxaflutole AL 0254 Chick-pea fodder 0.03 Forage (green) cereal grains 72 AS 0081 Straw and fodder (dry) of cereal grains 72 AS 0081 Straw and fodder (dry) of cereal grains 72 AS 0081 Straw and fodder (dry) of cereal grains 72 AS 0081 Straw and fodder (dry) of cereal grains 72 AS 0081 Straw and fodder (dry) of cereal grains 72 AS 0081 Straw and fodder (dry) of cereal grains 72 AS 0081 Straw and fodder (dry) of cereal grains 72 AS 0081 Straw and fodder (dry) of cereal grains 72 AS 0081 Straw and fodder (dry) of cereal grains 72 AS 0081 Straw and fodder (dry) of cereal grains 72	Imazethapyr		
AF       0645       Maize forage (green)[fresh weight]       *0.00         Imidacloprid       Primary animal feed commodities       *0.1         AB       0226       Apple pomace, dry       2         AL       0061       Bean forage (green)       T10         Brassica forage corpos (kale, rape, turnips and swede)       1       Canola fodder       T0.5         Cereal and sweet com fodder and forage]       10       Cotton seed hulls       *0.01         AB       0001       Citrus pulp, dry       10       Cotton seed hulls       *0.02         Cotton seed nucl       0.00       Cotton seed nucl       0.00       Cotton seed hulls       *0.01         AS       0081       Straw and fodder (dry) of cereal grains       0.7       AM       0659       Sugar cane fodder, dry       20         AB       0226       Apple pomace, dry       20       Cotton seed meal and hulls       *0.02         AB       02269       Grape pomace, dry       20       Cotton seed forage       110         Linseed forage       T10       Sora bean hulls and aspirated grain fractions       2       Sora bean hulls and aspirated grain fractions       2         AD       0269       Grape pomace, dry       10       Sora bean hulls and aspirated grain fractions	AS 0645	Maize fodder (dry)	*0.05
Primary animal feed commodities       *0.1         AB 0226       Apple pomace, dry       2         AL 0061       Bean forage (green)       T10         AL 1030       Bean forage (green)       T10         Brassica forage crops (kale, rape, turnips and sweet)       1         Canola fodder       T0.3         AB 0001       Citrus pulp, dry       10         Catoon seed nulls       *0.02         Cotton seed hulls       *0.02         Cotton seed nulls       *0.02         Cotton seed nulls       *0.02         Cotton seed nulls       *0.02         Cotton seed nulls       *0.02         Cotton seed meal       0.02         Lupin fodder and forage       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0559       Sugar cane fodder, dry       20         Indoxacarb       T10       Linseed forage       10         AB 0226       Cotton seed meal and hulls       *0.02         AB 0259       Grape pomace, dry       20         AB 0259       Grape pomace, dry       10         Safflower seed forage       T10       Safflower seed forage       100         Soya bean hulls and aspirated grain fractions <td>AF 0645</td> <td>Maize forage (green)[fresh weight]</td> <td>*0.05</td>	AF 0645	Maize forage (green)[fresh weight]	*0.05
Imidacloprid       Apple pomace, dry       2         AL 0061       Bean fordder       T10         AL 1030       Bean fordge (green)       T10         AL 1030       Bean fordge (green)       T00         Bean fordge crops (kale, rape, turnips and sweede)       1         Canola fodder       Canola fodder         Carola fodder       000         Catton seed hulls       "000"         Cotton seed hulls       "000"         AS 0081       Straw and fodder and forage       1         Rappe seed [Canola] fodder and forage       1       Rappe seed [Canola] fodder and hulls       "000"         AB 0226       Apple pomace, dry       20       Cotton seed meal and hulls       "000"         AB 0229       Grape pomace, dry       3       AL 0157       Legume animal feeds       10         Linseed forage       T10       Safflower seed fodder       T10         Safflower seed forage<		Primary animal feed commodities	*0.1
AB 0226       Apple pomace, dry       2         AL 0061       Bean forage (green)       T10         AL 1030       Bean forage (green)       T10         Brassica forage crops (kale, rape, turnips and sweede)       1         Canola fodder       Canola fodder         Canola fodder       10         Carcial and sweet com fodder and forage]       10         Citrus pulp, dry       10         Cotton seed hulls       0.00         Cuton seed hulls       0.00         Luceme fodder and forage       1         Lupin fodder and forage       1         Rappe seed [canola] fodder and forage       1         RAB 0226       Apple pomace, dry       20         AM 0659       Sugar cane fodder, dry       20         Cotton seed meal and hulls       0.00         Indoxacarb       70         AB 0226       Apple pomace, dry       3         AL 0157       Legume animal feeds       10         Linseed forage       T10       Safflower seed forage       T10         Safflower seed forage       T10       Safflower seed forage       110         Linseed forage (green) [Lucerne]       20       0.02       0.02         Soya bean hulls and aspirated grai	Imidacioprid		
AL       0061       Bean fodder       T10         AL       1030       Bean fodder       T10         Bean fodder       T0.5       T0.5         Carola fodder       T0.5       Cereal and sweet com fodder and forage]       10         AB       0001       Citrus pulp, dry       10         Cotton seed meal       0.00       Cotton seed meal       0.00         Luceme fodder and forage       1       1       Lucin fodder and forage       1         AS       0081       Straw and fodder (dry) of cereal grains       0.7         AM       0659       Sugar cane fodder, dry       20         Indoxacarb       Apple pomace, dry       20       Cotton seed meal and hulls       0.00         AB       0226       Apple pomace, dry       20       Cotton seed forage       110         Linseed fodder       T10       Safflower seed foder       T10       Safflower seed foder       T10         Sufflower seed forage       T10       Safflower seed foder       T10       Safflower seed foder       T10         Sufflower seed foder       T10       Safflower seed foder       T10       Safflower seed forage       10         Linseed forage       1       Canola forage       10 <td< td=""><td>AB 0226</td><td>Apple pomace, dry</td><td>2</td></td<>	AB 0226	Apple pomace, dry	2
AL       1030       Bean forage (green)       T10         Brassica forage crops (kale, rape, turnips and swede)       1         Canola fordder       T0.5         Cereal and sweet com fodder and forage]       10         Citrus pulp, dry       10         Cotton seed hulls       *0.00         Cotton seed neal       0.00         Lucerne fodder and forage       10         Pastures       1         Rape seed [canola] fodder and forage       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0659       Sugar cane fodder, dry       20         Cotton seed meal and hulls       *0.00         AB 0226       Apple pomace, dry       20         Cotton seed forage       T10         Linseed forage       T10         Safflower seed forage       T10         Safflower seed forage       T10         Safflower seed forder       T10         Safflower seed forage       T10	AL 0061	Bean fodder	T10
Brassica forage crops (kale, rape, turnips and swede)       1         Canola fodder       T0.5         Cereal and sweet com fodder and forage]       10         Citrus pulp, dry       10         Cotton seed hulls       0.00         Cotton seed hulls       0.00         Cotton seed hulls       0.00         Lucerne fodder and forage       1         Lupin fodder and forage       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0659       Sugar cane fodder, dry       20         Cotton seed meal and hulls       0.00         AB 0226       Apple pornace, dry       20         Cotton seed forage       10         Linseed forage       110         Safflower seed forder       110         Safflower seed forage       10         Sora bean nulls and aspirated grain fractions       2         Sora bean nulls and aspirated grain fractions       2         Sora bean neal       0.00         Tornato pornace, dry       10         Canola forage       1 </td <td>AL 1030</td> <td>Bean forage (green)</td> <td>T10</td>	AL 1030	Bean forage (green)	T10
Canola fodder       T0.5         AB 0001       Citrus pulp, dry       10         Cotton seed hulls       0.02         Cotton seed hulls       0.02         Lucerne fodder and forage       1         Lupin fodder and forage       1         AB 0001       Pastures       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0659       Sugar cane fodder, dry       20         Indoxacarb       AB 0226       Apple pomace, dry       20         AB 0226       Apple pomace, dry       3       3         AL 0157       Legume animal feeds       10       10         Linseed forage       T10       Safflower seed forage       T10         Soya bean hulls and aspirated grain fractions       2       2         Codosulfuron methyl       Wheat forage (green) [Lucerne]       0.02         Canola forage       1       Canola forage (green)       20         Canola forage (green)       20       Canola forage (green)       20         Canola forage (green)       20       Canola forage       10         Soya bean meal       0.02       0.02       Canola forage       10         Luperotione       Canola forage (green)		Brassica forage crops (kale, rape, turnips and s	wede) 1
AB 0001       Cereal and sweet com fodder and forage]       10         Citrus pulp, dry       10         Cotton seed hulls       0.00         Luceme fodder and forage       1         Luceme fodder and forage       10         Pastures       1         Rape seed [canola] fodder and forage       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0659       Sugar cane fodder, dry       20         Cotton seed meal and hulls       "0.00         AB 0226       Apple pomace, dry       20         Cotton seed meal and hulls       "0.00         AB 0259       Grape pomace, dry       3         AL 0157       Legume animal feeds       10         Linseed forage       T10       Safflower seed forage       T10         Safflower seed forage       T10       Safflower seed forage       10         Iodosulfuron methyl       Wheat forage (fresh weight)       "0.00       0.00         KAS 0654       Wheat, straw and fodder (dry)       11         AL 1021       Afalfa forage (green) [Lucerne]       20         Canola straw and fodder (dry)       1       1         AL 1021       Afalfa forage (green)       20		Canola fodder	T0.5
AB 0001       Citrus pulp, dry       10         Cotton seed hulls       *0.00         Cotton seed meal       0.00         Luceme fodder and forage       1         Lupin fodder and forage       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0659       Sugar cane fodder, dry       20         Indoxacarb       AB 0226       Apple pomace, dry       20         AB 0269       Grape pomace, dry       3         AL 0157       Legume animal feeds       10         Linseed forage       110       Safflower seed fodder       110         Soya bean hulls and aspirated grain fractions       2       2         Iodosulfuron methyl       Wheat forage (fresh weight)       *0.00         AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola straw and fodder (dry)       1       2         AL 1270       Peanut forage (green)       20         AL 1270       Peanut forage (green)       20         AL 1226       Soya bean forage (green)       20         AL 1226       Soya bean forage (green)       5         soxaflutole       1       Canola straw and fodder (dry)       1         AL 1226       Soya		Cereal and sweet corn fodder and forage]	10
Cotton seed hulls       *0.03         Cotton seed meal       0.03         Cotton seed meal       0.03         Luceme fodder and forage       1         Lupin fodder and forage       1         Lupin fodder and forage       1         Rape seed [canola] fodder and forage       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0659       Sugar cane fodder, dry       20         Indoxacarb       AB       0.226       Apple pomace, dry       20         AB 0269       Grape pomace, dry       3       0.03         AB 0269       Grape pomace, dry       3         Safflower seed forage       110       Linseed fodder       110         Linseed fodder       110       Safflower seed forage       100         Soya bean hulls and aspirated grain fractions       2       2         Soya bean meal       0.00       Soya bean meal       0.00         Soya bean meal       0.00       Soya bean meal       0.00         Soya bean meal       0.00       Conton actaw and fodder, dry       10         Iodosulfuron methyl       *0.00       Canola straw and fodder, dry       10         Locosulfuron methyl       Canola straw and fodder (dry)<	AB 0001	Citrus pulp, dry	10
Cotton seed meal       0.02         Luceme fodder and forage       1         Lupin fodder and forage       1         Rape seed [canola] fodder and forage       1         Rape seed [canola] fodder and forage       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0659       Sugar cane fodder, dry       2         Indoxacarb		Cotton seed hulls	*0.02
Luceme fodder and forage       1         Lupin fodder and forage       10         Pastures       1         Rape seed [canola] fodder and forage       1         AS 0081       Straw and fodder (dry) of cereal grains       0.7         AM 0659       Sugar cane fodder, dry       20         Indoxacarb		Cotton seed meal	0.02
Lupin fodder and forage     10       Pastures     1       Rape seed [canola] fodder and forage     1       AS 0081     Straw and fodder (dry) of cereal grains     0.7       AM 0659     Sugar cane fodder, dry     2       Indoxacarb     4     20.00       AB 0226     Apple pomace, dry     20.00       AB 0269     Grape pomace, dry     3       AL 0157     Legume animal feeds     10       Linseed forage     T10     Safflower seed forage     T10       Soya bean hulls and aspirated grain fractions     2     Soya bean meal     0.00       Soya bean meal     0.01     0.01     Soya bean meal     0.02       Indoxsuffuron methyl     Wheat forage (fresh weight)     *0.02     *0.02       Iprodione     Incarla forage     1     *0.02       AL 1021     Alfalfa forage (green) [Lucerne]     20       Canola forage     1     Canola forage     1       AL 1021     Alfalfa forage (green) [Lucerne]     20     20       Chick pea forage (green)     20     20     20       Sosaflutole     1     20     20     20       AL 1270     Peanut forage (green)     20     20       AL 1265     Soya bean forage (green)     20     20		Lucerne fodder and forage	1
AS 0081Pastures1Rape seed [canola] fodder and forage1AM 0659Sugar cane fodder, dry2IndoxacarbAB 0226Apple pomace, dry20AB 0226Cotton seed meal and hulls*0.00AB 0269Grape pomace, dry3AL 0157Legume animal feeds10Linseed forageT10Safflower seed forageT10Soya bean hulls and aspirated grain fractions2Soya bean meal0.02AS 0654Wheat, straw and fodder, dry*0.03IprodioneAL1021AL 1021Alfalfa forage (green) [Lucerne]20Canola straw and fodder (dry)1AL 1270Peanut forage (green)20AL 1255Soya bean forage (green)20Canola straw and fodder (dry)1AL 0524Chick-pea fodder0.03Forage (green)20Chick pea forage (fresh weight)*0.04Modes9Suga cane fodder1Canola straw and fodder (dry)1AL 1021Alfalfa forage (green)20Chick-pea forage (green)5soxaflutole1AL 0524Chick-pea forage (fresh weight)0.3Forage (green) of careal grainsT2AS 0081Straw and fodder (dry) of cereal grains72AS 0081Straw and fodder (dry) of cereal grains70.06AM 0659Sugar cane fodder*0.07Chick pea forage (fresh weight)0.3Forage (green) of cereal		Lupin fodder and forage	10
AS 0081 AM 0659Rape seed [canola] fodder and forage Straw and fodder (dry) of cereal grains0.7AM 0659Sugar cane fodder, dry2IndoxacarbAB 0226Apple pornace, dry Cotton seed meal and hulls20AB 0269Grape pornace, dry Crape pornace, dry3AL 0157Legume animal feeds10Linseed fodderT10Safflower seed fodderT10Safflower seed fodderT10Safflower seed fodderT10Safflower seed forageT10Soya bean meal0.02Tomato pornace, dry10NotestardWheat, straw and fodder, dry*0.03IprodioneCanola forage1AL 1021Alfaffa forage (green) [Lucerne]20Canola forage1Canola forage (green)20AL 1270Peanut forage (green)20AL 1265Soya bean forage (green)20SoxaflutoleImage (green)20AL 0524Chick-pea fodder0.03Chick pea forage (fresh weight)0.3Forage (green)0.5soxaflutoleImage (green)1AL 0524Chick-pea fodder0.05AM 0659Sugar cane fodder*0.07AS 0081Straw and fodder (dry) of cereal grainsT2AS 0081Straw and fodder (dry) of cereal grainsT0.06AM 0659Sugar cane fodder*0.07Cresoxim-methylAb0.26AB 0226Apple pomace, dry0.5.indaneP		Pastures	1
AS 0081 Straw and fodder (dry) of cereal grains 0,7 AM 0659 Sugar cane fodder, dry 2 Indoxacarb AB 0226 Apple pomace, dry 20 Cotton seed meal and hulls *0.00 AB 0269 Grape pomace, dry 3 AL 0157 Legume animal feeds 10 Linseed forage T10 Safflower seed fodder T10 Safflower seed fodder T10 Safflower seed fodder 0.00 Soya bean hulls and aspirated grain fractions 2 Soya bean meal 0.00 Tomato pomace, dry 10 Neat forage (fresh weight) *0.00 AS 0654 Wheat, straw and fodder, dry *0.00 Canola forage 1 AL 1021 Alfalfa forage (green) [Lucerne] 20 Canola forage 1 AL 1021 Alfalfa forage (green) 20 Canola forage (green) 20 Soya bean forage (green) 20 Canola forage (green) 20 Canola forage (green) 5 Isoxaflutole AL 1252 Soya bean forage (green) 5 Isoxaflutole AL 0524 Chick-pea fodder (dry) 0.3 Forage (green) 0.03 Forage (green) 0.03 Forage (green) 0.03 Forage (green) 0.04 Chick-pea fodder (dry) 0.3 Forage (green) 0.05 Sugar cane fodder *0.01 Chick-pea fodder (dry) 0.3 Forage (green) 0.03 Forage (green) 0.03 Forage (green) 0.05 Sugar cane fodder *0.01 Chick-pea fodder *0.02 Chick pea forage (fresh weight) 0.3 Forage (green) 0.5 Lindane Primary feed commodities E0.1		Rape seed [canola] fodder and forage	1
AM 0659       Sugar cane fodder, dry       2         Indoxacarb       Apple pomace, dry       20,000,000,000,000,000,000,000,000,000,	AS 0081	Straw and fodder (dry) of cereal grains	0.7
AB0226Apple pomace, dry20AB0226Cotton seed meal and hulls*0.00AB0269Grape pomace, dry3AL0157Legume animal feeds10Linseed forageT10Safflower seed forageT10Safflower seed forageT10Soya bean hulls and aspirated grain fractions2Soya bean hulls and aspirated grain fractions2Soya bean meal0.00Tomato pomace, dry10Iodosulfuron methyl*0.00MAL1021AL1021AL1021AL1021AL1270Peanut forage (green)Lucerne]AL1265Soya bean forage (green)20AL1265Soya bean forage (green)20AL10524Chick-pea fodder0.02Chick pea forage (fresh weight)0.3Forage (green) of cereal grainsT2AS0081Straw and fodder (dry) of cereal grainsAS0081Straw and fodder (dry) of cereal grainsAS0026Apple pomace, dry0.5.indanePrimary feed commoditiesE0.1	AM 0659	Sugar cane fodder, dry	2
AB 0226       Apple pomace, dry       20         Cotton seed meal and hulls       *0.00         Cotton seed meal and hulls       *0.01         AB 0269       Grape pomace, dry       3         AL 0157       Legume animal feeds       10         Linseed fodder       T10         Linseed forage       T10         Safflower seed fodder       T10         Safflower seed forage       T10         Soya bean hulls and aspirated grain fractions       2         Soya bean neal       0.02         Tomato pomace, dry       10         Iodosulfuron methyl       Wheat forage (fresh weight)       *0.02         Prodione       Vheat, straw and fodder, dry       *0.02         AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola forage       1       Canola forage (green)       20         AL 1270       Peanut forage (green)       20       20         AL 1265       Soya bean forage (green)       5       5         soxafilutole       AL       0.03       Forage (green)       5         AL 0524       Chick-pea fodder       0.03       Chick pea forage (fresh weight)       0.3         Forage (green)       S ugar cane fodder       *0.04 </td <td>indoxacarb</td> <td></td> <td></td>	indoxacarb		
AB       0269       Grape pomace, dry       3         AL       0157       Legume animal feeds       10         Linseed fodder       T10       Linseed fodder       T10         Linseed forage       T10       Safflower seed fodder       T10         Safflower seed forage       T10       Safflower seed forage       T10         Soya bean hulls and aspirated grain fractions       2       Soya bean meal       0.02         Voltosulfuron methyl       Wheat forage (fresh weight)       *0.04         AS       0654       Wheat, straw and fodder, dry       *0.05         Iprodione       AL       1021       Alfalfa forage (green) [Lucerne]       20         Canola forage       1       Canola forage (green)       1         AL       1270       Peanut forage (green)       20         AL       1265       Soya bean forage (green)       5         isoxaflutole       I       20       Chick-pea fodder       0.02         AL       0524       Chick-pea fodder       0.03       5         isoxaflutole       I       AL       226       0.03       7         AS       0081       Straw and fodder (dry) of cereal grains       T2         AS <td< td=""><td>AB 0226</td><td>Apple pomace, dry</td><td>20</td></td<>	AB 0226	Apple pomace, dry	20
AB 0269       Grape pomace, dry       3         AL 0157       Legume animal feeds       10         Linseed fodder       T10         Linseed forage       T10         Safflower seed forage       T10         Safflower seed forage       T10         Soya bean hulls and aspirated grain fractions       2         Soya bean meal       0.02         Tormato pomace, dry       10         Nodosulfuron methyl       *0.02         Wheat forage (fresh weight)       *0.03         AS 0654       Wheat, straw and fodder, dry       *0.03         Prodione       Incanola straw and fodder (dry)       1         AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola straw and fodder (dry)       1       1         AL 1270       Peanut forage (green)       20         AL 1265       Soya bean forage (green)       20         Sasaflutole       Incarola straw and fodder (dry)       1         AL 0524       Chick-pea fodder       0.03         Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.06         AM 0659       Sugar cane fodder       0.03         Kresoxim-methyl       <		Cotton seed meal and hulls	*0.05
AL 0157       Legume animal feeds       10         Linseed fodder       T10         Linseed forage       T10         Safflower seed forage       T10         Safflower seed forage       T10         Soya bean hulls and aspirated grain fractions       2         Soya bean neal       0.02         Tomato pornace, dry       10         Nodosulfuron methyl       Wheat forage (fresh weight)       *0.06         Nodosulfuron methyl       Wheat, straw and fodder, dry       *0.02         Prodione       Canola forage (green) [Lucerne]       20         AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola straw and fodder (dry)       1       Canola straw and fodder (dry)       1         AL 1021       Alfalfa forage (green)       20       20         AL 1021       Alfalfa forage (green)       20       20         AL 1052       Soya bean forage (green)       20       3         AL 1055       Soya bean forage (green)       20       3         Soxaflutole       Incanola straw and fodder (dry)       1         AL 0524       Chick-pea fodder       0.03       3         Forage (green) of cereal grains       T2       3         AS 0081	AB 0269	Grape pomace, dry	3
Linseed forage T10 Linseed forage T10 Safflower seed forage T10 Soya bean hulls and aspirated grain fractions 2 Soya bean meal 0.02 Tornato pomace, dry 10 Neat forage (fresh weight) *0.03 AS 0654 Wheat, straw and fodder, dry *0.03 Neat forage (green) [Lucerne] 20 Canola forage 1 AL 1021 Alfalfa forage (green) [Lucerne] 20 Canola forage 1 AL 1270 Peanut forage (green) 20 AL 1265 Soya bean forage (green) 5 Isoxaflutole AL 0524 Chick-pea fodder 0.03 Forage (green) of cereal grains T2 AS 0081 Straw and fodder (dry) of cereal grains T0.05 AM 0659 Sugar cane fodder *0.07 AB 0226 Apple pomace, dry 0.5 Jindane Primary feed commodities E0.1	AL 0157	Legume animal feeds	10
Linseed forage T10 Safflower seed fodder T10 Safflower seed forage T10 Soya bean hulls and aspirated grain fractions 2 Soya bean meal 0.00 Tomato pomace, dry 10 Nodosulfuron methyl Wheat forage (fresh weight) *0.09 Meat forage (fresh weight) *0.09 Prodione AL 1021 Alfalfa forage (green) [Lucerne] 20 Canola forage 1 Canola forage (green) [Lucerne] 20 Canola forage 1 Canola straw and fodder (dry) 1 AL 1270 Peanut forage (green) 20 AL 1265 Soya bean forage (green) 5 soxaflutole AL 0524 Chick-pea fodder 0.03 Chick pea forage (fresh weight) 0.3 Forage (green) of cereal grains T2 AS 0081 Straw and fodder (dry) of cereal grains T0.05 AM 0659 Sugar cane fodder *0.07 Cresoxim-methyl AB 0226 Apple pomace, dry 0.5		Linseed fodder	T10
Safflower seed fodder       T10         Safflower seed forage       T10         Soya bean hulls and aspirated grain fractions       2         Soya bean meal       0.02         Tornato pornace, dry       10         Iodosulfuron methyl       *0.02         AS 0654       Wheat forage (fresh weight)       *0.02         Iprodione       *0.02         AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola forage       1         Canola straw and fodder (dry)       1         AL 1270       Peanut forage (green)       20         AL 1265       Soya bean forage (green)       20         Sovabean forage (green)       20       20         AL 1270       Peanut forage (green)       20         AL 1265       Soya bean forage (green)       20         Soxafilutole       T       20         AL 0524       Chick-pea fodder       0.03         Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.02         AM 0659       Sugar cane fodder       *0.07         AB 0226       Apple pomace, dry       0.5         .indane       Primary feed commodities       E0.1 <td></td> <td>Linseed forage</td> <td>T10</td>		Linseed forage	T10
Safflower seed forage       T10         Soya bean hulls and aspirated grain fractions       2         Soya bean meal       0.02         Tomato pomace, dry       10         Iodosulfuron methyl       *0.02         AS 0654       Wheat forage (fresh weight)       *0.02         Iprodione       *0.02         AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola forage       1         Canola forage (green)       20         Canola forage (green)       20         AL 1270       Peanut forage (green)       20         AL 1265       Soya bean forage (green)       20         Soxaflutole       Chick-pea fodder       0.03         AL 0524       Chick-pea fodder       0.03         Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.06         AM 0659       Sugar cane fodder       *0.07         Kresoxim-methyl       A.5       Agple pomace, dry       0.5         .indane       Primary feed commodities       E0.1		Safflower seed fodder	T10
Soya bean hulls and aspirated grain fractions       2         Soya bean meal       0.02         Tomato pomace, dry       10         Indosulfuron methyl       Wheat forage (fresh weight)       *0.02         AS 0654       Wheat, straw and fodder, dry       *0.02         Iprodione       Image: Canola forage (green) [Lucerne]       20         AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola forage       1       Canola straw and fodder (dry)       1         AL 1270       Peanut forage (green)       20       20         AL 1265       Soya bean forage (green)       20       20         Soxaflutole       Chick-pea fodder       0.03       1         AL 0524       Chick-pea fodder       0.03       10.02         AS 0081       Straw and fodder (dry) of cereal grains       T2         AS 0081       Straw and fodder       *0.03         Forage (green) of cereal grains       T0.02         AB 0226       Apple pomace, dry       0.5         .indane       Primary feed commodities       E0.1		Safflower seed forage	T10
Soya bean meal       0.02         Tomato pornace, dry       10         Iodosulfuron methyl       *0.02         AS 0654       Wheat forage (fresh weight)       *0.02         AS 0654       Wheat, straw and fodder, dry       *0.02         Iprodione       20       Canola forage       1         AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola forage       1       Canola forage       1         AL 1270       Peanut forage (green)       20       20         AL 1265       Soya bean forage (green)       20       20         AL 1265       Soya bean forage (green)       20       3         Soxaflutole       7       Chick-pea fodder       0.02         AL 0524       Chick-pea fodder       0.03       7         AS 0081       Straw and fodder (dry) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.02         AB 0226       Apple pomace, dry       0.5         .indane       Primary feed commodities       E0.1		Soya bean hulls and aspirated grain fractions	2
Iomato pomace, dry       10         Iomato pomace, dry       10         Iodosulfuron methyl       Wheat forage (fresh weight)       *0.05         AS 0654       Wheat, straw and fodder, dry       *0.05         Iprodione       Iomato pomace (green) [Lucerne]       20         AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola forage       1       Canola straw and fodder (dry)       1         AL 1270       Peanut forage (green)       20       20         AL 1265       Soya bean forage (green)       20       5         soxaflutole       Chick-pea fodder       0.03       6         AL 0524       Chick-pea fodder       0.03       70.05         AS 0081       Straw and fodder (dry) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.05         AM 0659       Sugar cane fodder       0.03         Kresoxim-methyl       A5       0.5         .indane       Primary feed commodities       E0.1		Soya bean meal	0.02
Inclosulfuron methyl       Wheat forage (fresh weight)       *0.05         AS 0654       Wheat, straw and fodder, dry       *0.05         Iprodione       Alfalfa forage (green) [Lucerne]       20         Canola forage       1         Canola forage       1         Canola straw and fodder (dry)       1         AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola straw and fodder (dry)       1         AL 1270       Peanut forage (green)       20         AL 1265       Soya bean forage (green)       20         AL 1265       Soya bean forage (green)       5         Isoxaflutole       Image: Green of cereal grains       T2         AL 0524       Chick-pea fodder       0.03         Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.05         AM 0659       Sugar cane fodder       *0.07         Kresoxim-methyl       A.5       Apple pomace, dry       0.5         .indane       Primary feed commodities       E0.1		l omato pomace, dry	10
AS 0654 Wheat, straw and fodder, dry *0.05 prodione AL 1021 Alfalfa forage (green) [Lucerne] 20 Canola forage 1 Canola straw and fodder (dry) 1 AL 1270 Peanut forage (green) 20 AL 1265 Soya bean forage (green) 5 soxaflutole AL 0524 Chick-pea fodder 0.03 Forage (green) of cereal grains T2 AS 0081 Straw and fodder (dry) of cereal grains T0.05 AM 0659 Sugar cane fodder *0.07 (resoxim-methyl AB 0226 Apple pomace, dry 0.5 .indane	odosulfuron methyl	Wheat forage (freeb weight)	*0.05
AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola forage       1         Canola forage       1         Canola straw and fodder (dry)       1         AL 1270       Peanut forage (green)       20         AL 1265       Soya bean forage (green)       20         Soxaflutole        0.03         AL 0524       Chick-pea fodder       0.03         Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.05         AM 0659       Sugar cane fodder       0.03         Forage (green) of cereal grains       T0.05         AM 0659       Sugar cane fodder       0.05         AB 0226       Apple pomace, dry       0.5         .indane       Primary feed commodities       E0.1	AS 0654	Wheat, straw and fodder, dry	*0.05
AL 1021       Alfalfa forage (green) [Lucerne]       20         Canola forage       1         Canola straw and fodder (dry)       1         AL 1270       Peanut forage (green)       20         AL 1265       Soya bean forage (green)       20         soxaflutole       5         AL 0524       Chick-pea fodder Chick pea forage (fresh weight)       0.3         Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.05         AM 0659       Sugar cane fodder       0.03         Kresoxim-methyl       0.5	nrodione	· · · ·	
AL 1011       Finally bidge (grown) [Edechto]       20         Canola forage       1         Canola straw and fodder (dry)       1         AL 1270       Peanut forage (green)       20         AL 1265       Soya bean forage (green)       5         Isoxaflutole       Chick-pea fodder       0.03         AL 0524       Chick-pea fodder       0.03         Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.05         AM 0659       Sugar cane fodder       *0.01         Kresoxim-methyl       0.5       Lindane         Primary feed commodities       E0.1	AL 1021	Alfalfa forage (green) [Lucerne]	20
AL 1270       Canola straw and fodder (dry)       1         AL 1265       Soya bean forage (green)       20         AL 1265       Soya bean forage (green)       5         Isoxaflutole       AL 0524       Chick-pea fodder Chick pea forage (fresh weight)       0.3         AS 0081       Straw and fodder (dry) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.05         AM 0659       Sugar cane fodder       *0.01         Kresoxim-methyl       0.5       Lindane         Primary feed commodities       E0.1		Canola forage	20
AL 1270       Peanut forage (green)       20         AL 1265       Soya bean forage (green)       5         Isoxafiutole       AL 0524       Chick-pea fodder       0.03         AL 0524       Chick pea forage (fresh weight)       0.3         Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.05         AM 0659       Sugar cane fodder       *0.01         Kresoxim-methyl       0.5       Lindane         Primary feed commodities       E0.1		Canola straw and fodder (drv)	1
AL 1265       Soya bean forage (green)       5         Isoxaflutole       AL 0524       Chick-pea fodder       0.03         AL 0524       Chick pea forage (fresh weight)       0.3         Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.05         AM 0659       Sugar cane fodder       *0.01         Kresoxim-methyl       0.5         Lindane       Primary feed commodities       E0.1	AL 1270	Peanut forage (green)	20
Isoxaflutole     AL 0524     Chick-pea fodder Chick pea forage (fresh weight)     0.0 0.3 Forage (green) of cereal grains       AS 0081     Straw and fodder (dry) of cereal grains     T0.0 T0.05       AM 0659     Sugar cane fodder     *0.0 *0.0       Kresoxim-methyl AB 0226     Apple pomace, dry     0.5       Lindane     Primary feed commodities     E0.1	AL 1265	Soya bean forage (green)	5
AL     0524     Chick-pea fodder     0.03       Chick pea forage (fresh weight)     0.3       Forage (green) of cereal grains     T2       AS     0081     Straw and fodder (dry) of cereal grains     T0.05       AM     0659     Sugar cane fodder     *0.01       Kresoxim-methyl     AB     0226     Apple pomace, dry     0.5       .indane     Primary feed commodities     E0.1	soxaflutole		
AS 0081       0.3         Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.05         AM 0659       Sugar cane fodder       *0.01         Kresoxim-methyl       0.5         Lindane       Primary feed commodities       E0.1	AL 0524	Chick-pea fodder	0.03
AS 0081       Forage (green) of cereal grains       T2         AS 0081       Straw and fodder (dry) of cereal grains       T0.05         AM 0659       Sugar cane fodder       *0.01         Kresoxim-methyl       AB 0226       Apple pomace, dry       0.5         Lindane       Primary feed commodities       E0.1		Chick pea forage (fresh weight)	0.3
AS 0081 Straw and fodder (dry) of cereal grains T0.05 AM 0659 Sugar cane fodder *0.01 Kresoxim-methyl AB 0226 Apple pomace, dry 0.5 Lindane Primary feed commodities E0.1		Forage (green) of cereal grains	т2
AM 0659     Sugar cane fodder     *0.01       Kresoxim-methyl     AB 0226     Apple pomace, dry     0.5       Lindane     Primary feed commodities     E0.1	AS 0081	Straw and fodder (drv) of cereal grains	T0 05
Kresoxim-methyl     Apple pomace, dry     0.5       AB 0226     Apple pomace, dry     0.5       Lindane     Primary feed commodities     E0.1	AM 0659	Sugar cane fodder	*0.01
AB 0226 Apple pomace, dry 0.5 _indane Primary feed commodities E0.1	Kresoxim-methyl		
Lindane Primary feed commodities E0.1	AB 0226	Apple pomace, dry	0.5
Primary feed commodities E0.1	_indane		
		Primary feed commodities	E0.1
		10	

Ph: +61 2 6210 4820

Ap 4

Table 4

Compound	Animal Feed Commodity	MRL (mg/kg)
Mefenpyr-diethyl		
AS 0081	Cereal forage (fresh weight) Straw and fodder (dry) of cereal grains	*0.1 *0.1
Moniquat		
mepiquat	Cotton and man and bulls	2
	Cotton seed mear and huis	2
Mesosulfuron-methyl	Wheat forage [fresh weight]	*0 02
AS 0654	Wheat straw and fodder, dry	*0.02
Metalaxyl		
	Barley forage (green)	*0.1
AS 0640	Barley straw and fodder, dry Wheat forage (green)	*0.05 *0.1
AS 0654	Wheat straw and fodder, dry	*0.05
Methamidophos	Lupin forego (dp.)	0.5
AL 0040 AL 0697	∟upin, torage (dry) Peanut fodder	0.5 10
AL 1270	Peanut forage (green)	10
Methomyl see also Thiodicarb		
	Plantago ovata fodder	5
	Plantago ovata forage	5
Methoxychlor		
	Primary feed commodities	E1
Metolachior		<b>.</b>
45 0645	Cotton fodder Meize fedder	0.1
A5 0045 AF 0645	Maize forage	0.1 *0.02
71 0040	Primary feed commodities	5
AF 0651	Sorghum forage (green)	0.2
AS 0651	Sorghum straw and fodder, dry	0.2
Metosulam		
AF 0161	Forage of cereal grains and other grass-	*0.1
	like plants	
AL 0545	Lupin, forage	*0.1
AS 0161	Straw, fodder (dry) and hay of cereal	*0.1
	grains and other grass-like plants	
Metribuzin		0.0
<b>.</b>	Primary leed commodities	0.2
Metsulfuron-methyl	Objekt and forders from the second with the	<b>*0.0</b> 5
AL 0524	Chick-pea forage [fresh weight]	*0.05
AF 0161	Forage of cereal grains and other grass-like	0.00
	plants [pasture]	1
	Linseed fodder and straw	T*0.02
	Linseed forage [fresh weight]	T0.1
AS 0161	Straw and fodder (dry) and hay of cereal grains an other grass-like plants	d 1
Omethoate	<b>v</b> ,	-
AL 0157	Legume animal feeds [Fresh weight]	20
AL 0545	Lupin, forage	0.5
AS 0161	Straw, fodder (dry) and hay of	20
	cereal grains and other grass-like	
	piants	

Ph: +61 2 6210 4820

**13)**299 oli

1

Ap 4

ſ	a	b	le	4
	~	~		

Compound	Animal Feed Commodity	MRL (mg/kg)
AM 0165	Miscellaneous fodder and forage	20
	crops [Fresh weight]	
Oxydemeton-methyl		
AV 0691	Cotton forage	1
AL 0545	Lupin, forage	*0.01
Paraguat		
	Primary feed commodities	500
Parathion-methyl		
AL 1023	Clover	<b>T</b> 5
AL 1031	Clover hay or fodder	T25
AM 0691	Cotton fodder, dry	T10
	Cruciferous forage crops	T5
AL 0157	Legume animal feeds	T25
Pendimethalin		
AL 1020	Alfalfa fodder [lucerne]	*0.1
	Forage and fodder of pulses	0.1
	Rape seed fodder and forage	*0.05
Permethrin		
AL 0528	Pea vines (green)	15
Phosphorous acid		
AL 1023	Clover	100
AM 0353	Pineapple fodder	100
Picloram		
AM 0659	Sugarcane fodder, dry	50
AV 0659	Sugarcane forage, dry	50
Picolinafen		
AL 1023	Clover	2
	Field pea forage (green)	0.5
	Forage of cereal grains (green)	0.5
AL 0545	Lupin forage	2
	Lupin straw (dry)	*0.02
AL 0072	Pea hay or pea fodder (dry)	0.05
AS 0081	Straw and fodder (dry) of cereal grains	*0.02
Pinoxaden		
	Barley forage (green)	3
AS 0640	Barley straw and fodder, dry	1
	Wheat forage (green)	3
AS 0654	Wheat straw and fodder, dry	1
Pirimicarb		
	Almond Hulls	2
AM0691	Cotton fodder (dry)	20
	Primary feed commodities	20
Procymidone		
	Canola forage	T5
	Canola fodder, dry	T5
	Lentil forage	5
41 0517	Lentil straw and fodder, dry	5
AL 0545	Lupin forage	0.1
<sup>o</sup> rofenofos		
	Cotton meal and hulls	1
		•

Ph: +61 2 6210 4820

Table	4
-------	---

Compound	Animal Feed Commodity	MRL (mg/kg)
Prohexadione-calcium		
AB 0226	Apple pomace (dry)	0.1
Prometryn		
AL 0524	Chick-pea fodder	0.5
	Chick-pea forage (green)	0.5
AS 0162	Hay or fodder (dry) of grasses	50
Propachior		
AS 0645	Maize fodder	1
AF 0645	Maize forage	5
AF 0651	Sorghum forage (green)	15
AS 0651	Sorghum straw and fodder, (dry)	5
Propaquizafop		
	Cotton fodder	*0.05
AL 0157	Legume animal feeds (except legume pastures,	
	peanut forage(green) and fodder)	*0.1
	Legume pastures (green)	5
AL 0697	Peanut fodder	*0.05
AL 1270	Peanut forage	2
Propiconazole		10
	Almond hulls	10
A.Q. 0050	Cane tops (fresh weight)	0.05
AS 0650	Forage and fodder (dry) of perennial ryegrass	10
40,0004	Forage of cereal grains (green)	10
AS 0081	Straw and fodder (dry) of cereal grains	5
Prothioconazole		
	Barley forage (fresh weight)	T*0.05
AS 0640	Barley straw and fodder, dry	T*0.05
	Wheat forage (fresh weight)	T*0.05
AS 0654	Wheat straw and fodder	T*0.05
Pymetrozine	Cotton seed meet and built	*0.02
Pyraclostrobin	Cotton seed mean and huits	0.02
AB 0269	Grane nomace, dry	10
10 0200	Chape poindee, dry	10
Pyrasulfotole		
AS 0081	Fodder and straw of cereal grains	T*0.02
AF 0081	Forage of cereal grains	T0.5
Duraflufan		
	Straw and fodder (dn)) of cereal grains	10
	Graw and fodder (dry) of cereal grains	1.0
Pyridate	<b></b>	
	Chick-pea forage (green)	*0.2
AL 1270	Peanut forage (green)	*0.2
Pyrimethanil		
AB 0269	Grape pomace, dry	40
	Pome fruit pomace, dry	0.3
Pyriproxyfen		
AB 0001	Citrus pulp, dry	2
	Cotton seed meal and hulls	*0.02
Pyrithiobac sodium		
AM 0691	Cotton fodder, dn/	0.2
AV 0691	Cotton forage	0.2
	ootton totago	0.2
	13	

Ph: +61 2 6210 4820

Hp 4

Table 4

Compound Animal Feed Commodity		MRL (mg/kg)	
Quinoxyfen		E	
AB 0269	Grape pomace, dry	5	
Quizalofop-ethyl			
	Canola forage and fodder	5	
AL 1023	Clover	2	
	field peas lupins faba beans mund beans		
	navy beans, lentils, vetch and green beans	10	
	Medic pastures	10	
AL 1270	Peanut forage (green)	0.5	
Quizalofop-p-tefuryl			
	Canola forage and fodder	5	
AL 1023	Clover	2	
	Forage and fodder of soybeans, chickpeas,		
	field peas, lupings, faba beans, mung beans	40	
	navy beans and green beans Medic pastures	10	
AL 1270	Peanut forage (green)	0.5	
S-metolachior (see Metolachior)			
Sethoxydim			
AL 0457	Barley Forage [fresh weight]	*0.1	
AL 0157	fodder and peanut forage (green)	15	
AL 0697	Peanut fodder	10	
AL 1270	Peanut forage (green)	10	
	Rape seed fodder and forage	10	
	Wheat forage (green)[fresh weight]	*0.1	
AS 0654	Wheat straw and fodder, dry	*0.1	
Simazine			
AL 0524	Chick-pea fodder	0.5	
	Chick-pea forage (green)	0.5	
	Faba bean fodder	0.1	
	Faba bean forage (green)	3	
	Rape seed forage	5	
	Rape seed slide of 100081	I	
Spinosad			
AB 0226	Apple pomace, dry	1	
AB 0001	Citrus puip, dry	1	
AB 0260	Cottonseed by-products	1	
AB 0203 AL 0157	l equine animal feeds	4	
AF 0651	Sorahum forage (green)	0.5	
AS 0651	Sorghum straw and fodder, dry	0.5	
	Sweet com, fodder and forage (dry)	1	
Spiroxamine	C12222	40	
AD 0203	Grape pomace	10	
Sulfosulfuron			
AS 0654	I fillcale straw and fodder, dry	0.1	
AG 0004	wheat straw and fodder, dry	U.1	

Ph: +61 2 6210 4820

. .

Ap 4

_	•		
1 a	b	e	4

Compound	Animal Feed Commodity	MRL (mg/kg)
Tebuconazole		-0
	Primary feed commodities	50
Tebufenozide		
AB 0269	Grapes pomace, dry	10
• • •	Pome fruit pomace, dry	10
Tepraloxydim		-
· · · · · · · · · · · · · · · · · · ·	Canola forage and fodder	3
AL 0157	Legume animal feeds	3
Terbufos		
AL 0697	Peanut fodder	*0.05
AS 0081	Straw and fodder (dry) of cereal grains	*0.05
AF 0081	Forage of cereal grains	*0.05
Terbutryn		
AS 0161	Straw, fodder (dry) and hay of cereal grains	
	and other grass-like plants	30
	Pastures (mixed grasses/leguminous)	75
	Field pea forage and fodder	30
Tetraconazole		
AB 0269	Grape pomace, dry	2
Thisalaprid		
AB 0226	Apple pomace, dry	3
	, where how not of 1	-
AB 0001	Citrue pulp, der	7
AB UUUT	Catton good bulls	7
49.0645	Moizo foddor	0.5
AS 0045 AE 0645	Maize forege	0.5
	Sorabum forego (groop)	0.5
AS 0651	Sorghum straw and fodder, dry	0.5
Th 16		
AS 0081	Straw and fodder (dn/) of cereal grains	5
	or and rouger (ary) or corear grains	Ŭ
Thiodicarb see also Methomyl	Drimon, food commodition forcest maize:	
	Phinary leed commodules (except maize,	20
AS 0845	Solghulli, Sullioweij Moizo faddar	50
AS 0045		50
	Serahum fornac	50 TEO
AF 0001	Sorghum totage	150
A3 0031	Supflower forage	*0.05
	Sumower lorage	0.05
Tralkoxydim		*0.00
	Primary reed commodities	°0.02
Triadimefon		
	Primary feed commodities	10
Triadimenol		
AF 0081	Forage of cereal grains	0.5
AS 0651	Sorghum straw and fodder, dry	10
Triasulfuron		
	Primary feed commodities	5
Tribenuron-methyl		
	Primary feed commodities (Fresh weight)	*0.05
,		0.00
	Sprahum straw and foddor (da)	*0.4
	Sorghum snaw and rodder (dry)	°U.1

Ph: +61 2 6210 4820

į,

Fax: +61 2 6210 4840

Hp 4

<b>.</b>	1. 1		4
ιa	D	е	4

Compound	mpound Animal Feed Commodity	
Trifloxystrobin		
AB 0269	Grape pomace (dry)	3
	Pome fruit pomace, dry	15
Trifloxysulfuron sodium		
AM 0659	Sugar cane fodder (fresh weight)	*0.02
AV 0659	Sugar cane forage (fresh weight)	*0.02
Triflumuron		
AF 0081	Forage of cereal grains	0.2
AS 0081	Straw and fodder (dry) of cereal grains	*0.05
Trinexapac-ethy		
AS 0162	Hay or fodder (dry) of grasses	3
AM 0659	Sugar cane fodder	1
AV 0659	Sugar cane forage	1
Triticonazole		
AF 0081	Forage of cereal grains	0.1
AS 0081	Straw and fodder (dry) of cereal grains	*0.05

Ph: +61 2 6210 4820

16

TBALI

inant Feed Ban Gofe to Se fap" 5 Transmissible Spongiform Encephalopathy (TSE) Freedom a Surance program.

Animal Health Australia | Programs and Projects | Animal Disease Surveillance Program | TSE Freedom Assurance Program |

# AUSTRALIAN RUMINANT FEED BAN

Australia has an inclusive ban on the feeding to all ruminants of all meals, including meat and bone meal (MBM) derived from all vertebrates, including fish and birds. The current ban was established by statutory laws in each of Australia's jurisdictions and enforced by official inspections and audits, which also take into account quality assurance schemes that operate within Australia's ruminant livestock industries. This acts as a fail-safe control measure to rule out the possibility that feeding will amplify the BSE agent in the unlikely event that it is introduced to Australia.

A voluntary ban on the feeding of ruminant material to ruminants was adopted in Australia in 1996 to minimise the risk of recycling the BSE agent if it were introduced. This was a preliminary step towards laws to prohibit the feeding of ruminant material to ruminants. These laws were enacted in all of Australia's jurisdictions in 1997. In 1999, the prohibition was extended to the feeding of specified mammalian materials to ruminants. In March 2001, agricultural ministers agreed to introduce uniform legislation in all States and Territories to extend this prohibition to include a ban on the feeding of meals containing 'only porcine, equine, or macropod materials; blood and blood products; inspected meat products (that have been cooked and offered for human food and further heat processed into animal food); poultry (offal and feather) meals; and fish meals'. Following on from this decision all States and Territories have adopted in their respective legislation the term 'restricted animal material' (RAM) to describe animal meals that cannot be fed to ruminants, being any meal derived from animal origin including fish and birds.

#### **Definition of RAM**

Restricted Animal Material (RAM) is any material taken from a vertebrate animal other than tallow, gelatin, milk products or oils extracted from poultry and fish. It includes rendered products such as blood meal, meat meal, meat and bone meal, fish meal, poultry meal, feather meal, and compounded feeds made from these products.

#### Tallow is defined as:

"any product (not limiting to but including products known as tallow, yellow grease and acid oil), containing rendered fats and oils from any animal, or used cooking oil filtered or otherwise treated to remove visible particulate matter, and which complies with a specification of 2% maximum M+I (moisture plus insoluble impurities) as measured by American Oil Chemists' Society (AOCS) official methods[1]"

To ensure Australia has effective feed ban control measures, it was agreed at the March 2001 meeting of the Agricultural and Resource Management Council of Australia and New Zealand that audits be undertaken by all jurisdictions to verify compliance with feed ban legislation by all parties from manufacture to end-use. Prior to these jurisdictional audits, four national audits of the ruminant feed ban were conducted in Australia (see Audit Results section).

http://www.animalhealthaustralia.com.au/aahc/programs/adsp/tsefap/tse\_feedban.cfm