



**MALAYSIAN FEEDMILLERS ASSOCIATION**

**c/o GOLD COIN FEEDMILLS (M) SDN BHD**

**Jalan Parang, Pelabuhan Utara, 42000 Pelabuhan Klang,**

**Selangor Darul Ehsan, Malaysia.**

**Tel: 03-3176 6180 Fax: 03-3176 6842**

# **CORN & ANIMAL FEED & CORN INDUSTRY IN MALAYSIA**



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## **A. MALAYSIAN FEEDMILLERS ASSOCIATION**

- ◆ **The Malaysian Feedmillers Association (MFA) is a non-profit organisation which has been the representative body of the feed industry since its inception on 28 April 1970**
- ◆ **Membership consists of a balance of small and large companies engaged in the business of feed manufacturing**
- ◆ **MFA is mainly funded by the annual subscription fee paid by members**
- ◆ **The business of MFA is controlled and managed by office bearers and ordinary committee members, consisting of professionals, entrepreneurs, senior and distinguished leaders from the industry**
- ◆ **MFA provides a platform for members to meet on a regular basis to exchange ideas and discuss about industry trends and issues**
- ◆ **MFA plays an active role in addressing common industry issues relating to raw material supply, feed/food safety, quality standards, federal/state legislation and regulation, as well as engaging with key stakeholders to enhance the growth and competitiveness of the feed and livestock industries**



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## B. MFA OFFICE BEARERS & COMMITTEE MEMBERS – 15 MEMBER FEEDMILLS

1.	Dindings Soya & Multifeed Sdn Bhd	President	Mr Kong Pak Cheong
2.	FFM Bhd	Secretary	Dr Ong Choo Teik
3.	Gold Coin Feedmills (M) Sdn Bhd	Treasurer	Mr Tan Kok Kuang
4.	Sinmah Multifeed (M) Sdn Bhd	Auditor	Dr Hew Voon Fong
5.	Ayamas Integrated Poultry Industry Sdn Bhd	Auditor	Mr Sim Poi Kung
6.	Leong Hup Feedmill Sdn Bhd	Com Member	Mr Lim Yong Ping
7.	PK Agro-Industrial Products (M) Sdn Bhd	Com Member	Mr Yong Kim Loon
8.	PTS GoldKist Industries Sdn Bhd	Com Member	Dr Khaw Eng Sun
9.	DBE Poultry Sdn Bhd	Member	Dato Alex Ding Seng Huat
10.	KL Supreme Feedmill Sdn Bhd	Member	Ms Stephy Tan Hui Sean
11.	Liang Teik Trading Co Sdn Bhd	Member	Mr Michael Chuah Kim Lee
12.	MFM Feedmill Sdn Bhd	Member	Mr Kong Pak Cheong
13.	Ni-On Marketing System Sdn Bhd	Member	Mr Khor Yu Beng
14.	PW Nutrifeed Sdn Bhd	Member	Ms Foo Siew Foon
15.	Sykt Ang Hock Stockfeeds Mfg Sdn Bhd	Member	Mr Eric Boo Chye Heng
	Technical Advisor		Dr Chew Tee Tee



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## **C. MALAYSIA POULTRY & SWINE PRODUCTION**

- |                        |          |                                 |
|------------------------|----------|---------------------------------|
| <b>1. Broiler</b>      | <b>~</b> | <b>830,000,000 birds/year</b>   |
| <b>2. Poultry meat</b> | <b>~</b> | <b>1,600,000 MT/year</b>        |
| <b>3. Eggs</b>         | <b>~</b> | <b>12,000,000,000 eggs/year</b> |
| <b>4. Pork</b>         | <b>~</b> | <b>180,000 MT/year</b>          |



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## D. MALAYSIA COMPOUND FEED & LIVESTOCK MARKET

1. Total Feed Production ~ 6,000,000 MT/year
2. Total Revenue > RM9b/year
3. Feed Ingredients: Cereal Grains, Protein Meals (Vegetable Protein, Animal Protein), Fats & Oils, Minerals & Vitamins, Feed Additives, Miscellaneous Raw Materials (Roots & Tubers)
4. Imported Feed Ingredients ~ 85%
5. Local Feed Ingredients ~ 15% eg. Rice Bran, CPO, PKC/PKE
6. MFA members contribute ~ 55% of total feed production in Malaysia – mainly broiler feed Non-MFA members & Home-Mixers (mainly swine & layer farms) make up the rest
7. Many MFA members are also Integrators – generally own breeder flocks, hatcheries, feedmills & processing plants
8. Utilisation of good quality ingredients, free from adulteration & toxicity, in the formulation of high performance feeds – essential to realise the full genetic potential of today's modern poultry e.g. over the past 50 years, broiler growth rates doubled & FCRs halved (from >3 to 1.6) – mostly due to improvements in genetics, besides advancements in nutrition, disease control (biosecurity, vaccination, medication) & housing..... **& never given added hormones or steroids!!!**
9. 

Broiler Feed	~	2,700,000 MT/year
Layer Feed	~	1,600,000 MT/year
Swine Feed	~	1,500,000 MT/year
Total	~	5,800,000 MT/year



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## **E. MALAYSIA CORN POSITION**

- 1. Corn-Soybean Meal based diet formulation for Poultry & Swine – most plentiful & lowest cost sources**
- 2. Inclusion levels in Poultry & Swine feeds**
  - Corn 40-60% Energy source**
  - Soybean Meal 20-30% Protein source**
- 3. Corn Consumption / Imports ~ 3,000,000 MT/year**
- 4. Malaysia Feed Industry relies on 100% imported corn – primarily from Argentina & Brazil, and relatively little from USA, Thailand, Myanmar, Pakistan, Indonesia**
- 5. Prices for Corn & Soybean Meal are based on CBOT futures prices (see CBOT Corn Futures Price Graph)**



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## **F. CORN QUALITY**

- 1. Feeds produced by MFA members comply with Laws of Malaysia & ethical standards**
- 2. All imported feed ingredients must have individual import permit approved & issued by JPV, and subject to inspection by MAQIS at point of entry**
- 3. Use of the highest quality raw materials is the key factor in producing high-performance diets**
- 4. Imported Corn reference grade - US Yellow Corn Grade #2 or better (see USDA Corn Grading Mat)**
- 5. Moisture is one of the most important criteria of corn quality – desirable corn moisture content 13.5% +/- 0.2% or below as high moisture levels (& high temperatures) encourage mould growth & production of mycotoxins, which can depress dry matter intake & animal performance**



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## G. CORN IMPORTATION 2015

### CORN IMPORTATION 2015

Month	PGSB	FFM	Cargill	Consortium	Min T/HSC/GC	LDC	Other	Indian	Total
Jan-15	-	65,000.00	-	135,000.00	11,000.00	66,000.00	42,036.00	15,000.00	334,036.00
Feb-15	63,670.00	62,000.00	61,000.00	160,150.00	-	-	-	15,000.00	361,820.00
Mar-15	67,000.00	10,000.00	-	69,408.00	-	-	-	15,000.00	161,408.00
Apr-15	24,650.00	47,250.00	-	46,500.00	-	40,000.00	-	15,000.00	173,400.00
May-15	-	10,000.00	-	133,300.00	-	20,000.00	-	15,000.00	178,300.00
Jun-15	30,000.00	70,000.00	40,000.00	-	-	22,000.00	-	5,000.00	167,000.00
Jul-15	17,266.00	-	-	52,000.00	-	20,000.00	10,000.00	5,000.00	104,266.00
Aug-15	51,500.00	45,000.00	64,500.00	109,000.00	10,000.00	35,000.00	-	5,000.00	320,000.00
Sep-15	58,800.00	66,000.00	-	147,000.00	-	-	16,000.00	-	287,800.00
Oct-15	68,047.00	-	70,500.00	28,930.00	18,000.00	61,000.00	-	-	246,477.00
Nov-15	58,305.00	65,251.00	128,250.00	150,259.00	15,000.00	88,636.00	-	-	505,701.00
Dec-15	66,000.00	-	89,111.00	132,486.00	-	66,000.00	46,000.00	-	399,597.00
Total 2015	505,238.00	440,501.00	453,361.00	1,164,033.00	54,000.00	418,636.00	114,036.00	90,000.00	3,239,805.00
Ranking	#2	#4	#3	#1		#5			



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## H. CORN IMPORTATION 2016 (Estimate)

Mth	PGSB	FFM	Cargill	Consortium	Min T/HSC/GC	LDC	Other	Indian	Total
Jan-16	76,700	65,981	133,614	130,888			20,500		
Feb-16		65,310		108,880		60,000			234,190
Mar-16	68,477	18,050	105,577	68,143		30,000			290,247
Apr-16		67,300		31,000		23,000			121,300
May-16	42,000		17,000	38,000	7,450			10,000	114,450
Jun-16	42,150		61,600	24,000	9,378		10,000	10,000	157,128
Jul-16	33,000			130,000		22,000		10,000	195,000
Aug-16	96,750	65,500	72,000	83,000		52,000	3,900	10,000	383,150
Sep-16	50,000	50,600	180,422	81,750		67,600	20,000	15,000	465,372
Oct-16	65,000	68,000		104,000				15,000	252,000
Nov-16	66,980	62,500	103,776	61,750	22,000	56,000		15,000	388,006
Dec-16		60,000		58,784	23,000	50,000	92,000	15,000	298,784
Total 2016	541,057	523,241	673,989	920,195	61,828	360,600	146,400	100,000	3,327,310



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## I. CBOT CORN FUTURES PRICE GRAPH

Published on TradingView.com, June 22, 2017 11:20 EST

CBOT:ZCN2017, D 363'6 ▼ -5'6 (-1.56%) O: 368'6 H: 369'2 L: 363'0 C: 363'6





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## J. USDA CORN GRADING MAT

**USDA** United States Department of Agriculture  
Grain Inspection, Packers  
and Stockyards Administration  
[www.gipsa.usda.gov](http://www.gipsa.usda.gov)

### Corn Grading Mat

Grades and Grade Requirements

Technical Services Division  
10353 North Ambassador Drive  
Kansas City, MO 64153-1394  
(816) 891-0499



Blue Eye Mold Damage



Purple Plumule (not damage)



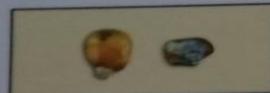
Surface Mold (blight)



Cob Rot Damage



Surface Mold (More than Slight)

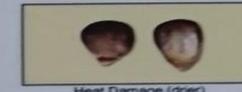


Mold Damage

Grade	Minimum Limits of -		Maximum Limits of -	
	Test Weight per Bushel (pounds)	Heat-Damaged kernels (percent)	Damaged kernels total (percent)	Broken Corn and Foreign Material (percent)
U.S. No. 1	56.0	0.1	3.0	2.0
U.S. No. 2	54.0	0.2	5.0	3.0
U.S. No. 3	52.0	0.5	7.0	4.0
U.S. No. 4	49.0	1.0	10.0	5.0
U.S. No. 5	46.0	3.0	15.0	7.0



Not Damage (Dirt)



Heat Damage (drier)



Heat Damage (yellow corn)



Germ Damage



Sprout Damage



Insect Damage



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## K. TYPES OF CORN



South American Corn



US Corn



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## L. ANALYSIS OF CORN

**Table 1: Nutrient Result**

Specification	14% +/-0.5	7% min	3% min	1% min	2.5% max	15% min
Corn Type	Moisture	Protein	Fat	Ash	Fibre	Xanthophyll
US	14.79	7.68	3.2	1.2	1.95	13.87
BRAZIL	12.82	7.55	3.32	3.57	1.72	10.37
ARGENTINE	14.53	7.36	3.68	1.26	2.07	16.52
FRANCE	14.08	6.9	1.08	3.45	1.38	12.28



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**Table 2: Mycotoxin Result**

Specification	20ppb max	25ppb max	20ppm max	100ppb max	10ppm max	200ppb max
Corn Type	Aflatoxin	Ochratoxin	Fumonisin	T-2 Toxin	DON	Zearalenone
US	4.02	2.63	0.52	26	0.79	92.21
BRAZIL	0.66	2.02	0	2.3	0.18	6.04
ARGENTINE	1.44	3.53	0.49	7.72	0.8	60.24
FRANCE	1.8	0.1	0.97	9.23	1.05	115.87



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**Table 3: Microbiology Result**

<b>Specification</b>	<b>100,000 max</b>	<b>100,000 max</b>	<b>100,000 max</b>
<b>Corn Type</b>	<b>SPC</b>	<b>Yeast counts</b>	<b>Mold counts</b>
<b>US</b>	<b>40,000</b>	<b>100</b>	<b>126,000</b>
<b>BRAZIL</b>	<b>70,500</b>	<b>0</b>	<b>69,000</b>
<b>ARGENTINE</b>	<b>137,000</b>	<b>0</b>	<b>181,000</b>
<b>FRANCE</b>	<b>13,850</b>	<b>0</b>	<b>2,850</b>



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**THANK YOU**