

Differentiation of broiler markets in the EU Background and developments



Paul van Boekholt General Assembly avec 2014





Giving life to Performance

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Differentiation of broiler markets in the EU



Why?





Hubbard

Why and for Whom are we producing for ...?

What market are we in?

- Who are the Producers?
- Who are the Consumers?

Key issues:

- Consumer Demand
- Meeting Expectations

Differentiation needed?

Differentiation in Market Type based on:

- Population
- Demographics
- Income.



Broiler Meat Consumption General Tendencies

- Live markets
- Whole birds
- Cut Up
- Further Processed
- Value Added
- Functional Foods?

- Immature
- "Traditional"
- Live Cost Oriented

- Mature
- "High Tech"
- Market Oriented



Food expenditure per week (in USD)





Food Expenditure as % of total (2009)





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YOUR CHOICE, OUR COMMITMENT

Consumers' Perception & Behaviour

- Most of the Consumers have no relation to agriculture anymore
- We have to focus on **teenagers** as the future Consumers
- Eating meat every day is less and less a normal habit
- Consumers associate "Natural" with Food Safety, Health, Animal Welfare & Environment
 → Even though this might not always be 100% true, we have to accept this as a reality to deal with
- Animal Welfare Associations try to influence consumer behaviour:

→ Negative: extreme activists, no dialogue (PETA, Wakker Dier, etc.)

➔ Positive: working together with the industry in the development of Welfare Schemes (RSPCA, Dierenbescherming, Tierschutz, ...)

- Consumers often act differently to what they say
- Retailers "translate" consumer demands to producers



How to meet Consumers' Expectations?

- Broiler Meat is still a commodity product
 → Be Realistic and seek Opportunities!
 → Does the EU have to feed the whole world?
- Change from "Production of Agricultural Products" to "Production of Consumer Food Products" based on consumer requirements
- Continued focus on Cost Price

 → If consumers are educated about the Quality (welfare, health, safety) of the product, they should also be educated about the Cost of it!



How to meet EU Consumers' Expectations in a global environment?

Focus on:

- **Quality** of the products in all aspects
- Fresh meat to compete with cheaper 3rd countries

Differentiation:

- Good conventional products
- Development of "Premium" products mainly driven by:
 - ➔ Animal Welfare
 - → Health (low use of antibiotics)
 - → Food Safety & Traceability
 - → Tradition
- Not all schemes to follow the EU Marketing Terms
- Some refer to **Origin** of product (country, region, village)
- Branding is very important, tell the story!



Differentiation of broiler markets in the EU



Differentiated markets in the EU



Segmentation of Broiler Meat Consumption at home





Source: ITAVI-Ubifrance (2011) 14

Special Marketing Terms EU (Directive 2000/13/EC) & France



Comparison of EU Marketing Terms

	Conven- tional	Fed with%	Extensive Indoor (Barn reared)	Free Range	Traditonal Free Range	Total Freedom Free Range
Breed					Slow Growing	Slow Growing
Minimum Age	No limit	No limit	56 days	56 days	81 days	81 days
Feed		≥ 65% cereals ≥ 50% maize		≥ 70% cereals	≥ 70% cereals	≥ 70% cereals
Max. birds/m² Indoor			15	13	12	12
Max. kg/m² Indoor	42 or less	42 or less	25	27.5	25	25
Popholes				4 m/100 m ² surface	4 m/100 m ² surface	4 m/100 m ² surface
Access to range				≥ 50%	at least from 6 wks	All their life
Ranging area/bird				1 m²	2 m ²	unlimited
Max house size					4,800 broilers	4,800 broilers



Evolution of ADG allows for innovation





Differentiated markets in the EU In short

- According to an EFSA report (2010) about 7% of all Broiler Parent Stock in the EU are for the production of a "slow growing" broiler
- France has historically been the basis of this kind of Parent Stock, mainly based on "tradition" and "cuisine":
 - About 35% of the total PS population is a PS for slow(er) growing broilers (Label Rouge, Certifié, premium, export)
- Southern & Eastern Europe have been using slow growing PS for the "traditional" and often "seasonal" backyard markets:
 - Spain, Italy, Greece, Eastern Europe
- North Europe is showing a development of new products or production systems, mainly driven by "animal welfare":
 - UK, NL, Germany, Austria

More recent developments seen because of an increase focus on human health (Food Safety, AMR) & animal welfare ubbard

EU: Backyard

- This traditional market is not based on any official certification
- Products sold directly to consumers (on local markets)
- Local poultry farmers grow broilers in natural settings
- Sometimes also used for dual purpose (females for eggs, males for meat production)





EU: "OAC" (Controlled Origin)

- This market is very limited
- One very good example is the "Poulet de Bresse" from France, using a special breed (blue feet) and specified production area (Bresse)





EU: Organic

- This market falls under a separate EU regulation, but rules differ a lot between countries or certifications
- It is a relative small market
- No real growth
- Production in France: 7 000 T/year





France: Label Rouge



- Started in 1961
- 1965: Other products can have « Label Rouge » certification
- 1967: Synalaf (French Federation for Poultry Labeling)
- 2011: There are 200 different « Label Rouge » poultry products in France
- Production in France: 150 000T per year





France: Certifié



- CQC is a French certification
- The first « certified » broiler was introduced by Duc in 1991
- Production in France: 75 000 T per year





EU: Free Range



81-day FR is similar to Label Rouge in France
Mainly used in the UK (56-day and 81-day)

Total Freedom Free Range is hardly seen





UK: RSPCA Freedom Food (Indoor)



- Introduced by the RSPCA in the UK
- In 1996, creation of the RSCPA welfare standards
- Specifications:
 - the welfare of a breed is assessed according to the RSPCA Broiler Welfare Assessment Protocol. The Hubbard JA757 is the benchmark used in these trials
 - Can be used for Indoor, Free Range & Organic
 - Indoor with enriched environment

RSCPA:		
Freedom Food Indoor		
Breed	Slow growing	
Max. Stocking density	< 15 birds / m²	
Max. density	30 kg/m²	
Max. Farm size	No limit	
Max. barn size	No limit	
Max. pen size	30,000	
Min. Age	No limit	
Light	20 lux min & natural light	



Germany: Tierschutzlabel 2-step ("Stufe") concept



- Developed in 2011 by the German Animal Welfare Association "Tierschutzbund" for broilers and pigs
- 2-Step concept: "Basic" (1 star) and "Premium" (2 star)

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Breed	Slow growing ≤ 45 g/d ADG	Slow growing ≤ 45 g/d ADG	
Max. stocking density	15 birds/m ²	10 birds/m ²	
Max. density	25 kg/m ²	21 kg/m²	
Max. Farm size	2x30,000	16,000	
Max. barn size	30,000	16,000	
Max. pen size	30,000	4,800	
Min. Age	No limit	56 days	
Light	Daylight is advised 8h dark in 1 period	Daylight is advised 8h dark in 1 period	
Ranging area	Wintergarden (min.20% + 3m wide)	Wintergarden + Free Range (≥1/3 of life; 4 m²/bird)	
Additional Material	1 bale of straw/2,000 Min. 15 m perches/1,000 Pecking stones	1 bale of straw/2,000 Min. 15 m perches/1,000 Pecking stones	

NL: Dierenbescherming "Beter Leven" concept



- Introduced in 2007 by the Dutch Animal Welfare Association "Dierenbescherming" for different products (calves, pigs, meat cattle, rabbits, poultry)
- 3-star concept:



56-day indoor + wintergarden



56-day Free Range





NL: Dierenbescherming "Beter Leven" 1-star concept



Based on the EU regulation for Extensive Indoor & some additional requirements.

The wintergarden is the most typical additional requirement of this concept





NL: Dierenbescherming "Beter Leven" 1-star concept



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Differentiation of broiler markets in the EU



More recent developments Netherlands



Increased pressure on retailers



- During the last 2-3 years an extreme animal welfare group called "Wakker Dier" (Awoken Animal) has increased the pressure on Dutch retailers asking consumers to stop buying broiler meat:
 - using a very strong media campaign
 - focusing on chicken meat
 - against individual supermarkets and food producers
 - against the production of standard chickens called "Plofkip" (exploding chicken)
 - to move to at least the 1-star chicken
- The campaign won a media award
- Plofkip" was chosen as the most popular word in 2012









AH-KLANTEN OPGELET

Deze verpakking bevat plofkip.



"ONBEGRIJPELIJK dat supermarkten als Albert Heijn en Jumbo nog steeds PLOFKIP verkopen."





Plofkip Albert Heijn

Plofkip Jumbo

De plofkip heeft vaak ziektes die met antibiotica worden bestreden

Marno Wolters, dierenarts:

Ik ben nu bijna veertig jaar dierenarts, en maak me al vele jaren zorgen over de leefonstandigheden van de dieren in de pluimvee-industrie. Met name de plofkip is een schrijnend voorbeeld van dieren die in hun welzijn worden aangetast om tot hoge productie te komen. Toch is deze plofkip nog abijd het meest gebuden dier in Nederland.

Zo'n plofkip leeft met tienduizenden andere kuikens in een grote hal, met een leefruimte die per dier niet groter is dan één A4'ije. Hier staan ze hun leven lang, terwijl de ondergrond door hun ontdasting steeds verder verwuit. Ze kunnen niet naar buiten en de kans op in fecties is hoog. In deze ongezonde leefongewing moet het kuiken ook nog extreem snel groeien. Het slachtgewicht van 2,2 kilo wordt berekt in dechts zer weken: bina 4 keer zo snel als 60 jaar geleden.

Door deze snelle groei en de slechte leefomstandigheden, lijden de dieren vaak aan pijnlijke aandoeningen en ziektes. De groei van poten, skelet, hart en longen blijven achter bij de groei van de borstspier (de filet). Een groot deel van deze kip-

Dis. Marno Wolters

dierenarts

pen heeft ontstekingen aan de poten of borst. Vele kunnen niet meer normaal lopen en een deel is zelfs ernstig kreupel. Jaarlijks halen miljoenen plofkippen de slachtleeftijd van 6 weken niet.

Bij veel gezondheidsproblemen worden antibiotica ingezet. Uit recent onderzoek van Wageningen Universiteit en Research over de periode 2011 en 2012, bijkt dat plotkippen gemiddeld 26 dagdoseringen antibiotica per der per jaar krijgen. Die antibiotica zijn veel minder nodig als de kip langzamer groeit onder betere leeformstandigheden. Voor de kippen die gehouden worden volgens het 1 ster Beter Leven kenmerk van de Dierenbescherming, zien de ciffers in dit onderzoek er dan ook heel anders uit. Zij groeien langzamer en krijgen maar liefst 85% minder antibiotica toegediend. Als dierenarts moet ik constateren dat we met elkaar een vorm van dierhoudenj hebben gecreëerd, die veel te eenzijdig gericht is op de productie van goedkoop kippenvlees. Dit systeem wordt nu mede met ambiotica overeind gehouden. Maar antibiotica zijn bedoeld als medicijn, om mensen en dieren beter te maken. Niet om de gevolgen van een verkeerd systeem te maskeren.

De goedkope plofkip wordt zo massaal gehouden om aan de eisen van de supermarkten te voldoen. Want kipfilet is vaak in de aanbieding, soms voor een prijs per kilo die lager is dan voor druiven of luxe katterwoer. Voor een slachtrijpe plofkip, ontvangt de boer maar €1,90: de prijs van een kopje koffie op een terras. Voor dit bedrag moet hij het dier haar hebje leven voeden en huisveten. Er zijn wel

> alternatieven, maar die kosten ook wat meer. Dat vinden supermarkten niet aantrekkelijk; zij zetten hun leveranciers juist vaak onder druk om nog goedkoper te produceren.

Albert Heijn en Jumbo zijn grote verkopers van plofkip. Een mooie

strik op de verpakking wekt de indruk van kwalteit waarbij de kip een goed leven heeft gehad. Of er wordt een sticker op geplakt, met 'laagste prijs'. Zo lang supermarkten de schappen vol blijven leggen met goedkope plofkip en blijven stunten met prijzen, houden zij dit systeem in stand.

Als dierenarts vind ik het onbegrijpelijk dat supermarkten als Albert Heijn en Jumbo deze plotkip nog steeds verkopen. Ik doe hierbij een oproep om zo snel mogelijk te stoppen met de verkoop van glotkip en om te schakelen naar kip met een ster van het Beter Leven kermerk. Dan krijgt het meest gehouden dier van Nederland eindelijk echt een beter leven.



Meer weten? wakkerdier.nl

Antibiotica ziin veel minder nodig

als de kip langzamer groeit onder

betere leefomstandigheden



Video 31-07-2013





Differentiation of broiler markets in the EU



Netherlands Chicken of Tomorrow



NL: Chicken of Tomorrow

Stakeholders:

- All retailers organised in an association called "CBL"
- Dutch Poultry Board
- Processing plants 0
- **Dutch Farmers associations** A (NOP & NVP)

Agreement for:



- all fresh broiler meat sold in the supermarkets latest by 2020
 - \rightarrow Who reacts first?
- Focus on People, Profit, Planet
- Use of slower growing breed with max 50 g/d ADG
- No requirements to adjust current broiler houses 0
- Slightly lower density & enriched environment in the broiler house



Comparison of standards: conventional, Chicken of Tomorrow, 1-star

	Conventional (average)	Chicken of Tomorrow	56d + Beter Leven Wintergarden
Breed	Fast Growing	Slower Growing	Slow Growing
ADG (g/d)	Actual (60-65 g/d)	<u>Max.</u> 50 g/d	About 42 g/d
Killing Age (d)	No limit	No limit	<u>Min.</u> 56 days
Age in practice (d)	35-42	45-47	56
Max. Density (kg/m2)	42	38	25
# broilers/m2 in practice	21	19	12
Extra material	No	Bales of straw + grain	Bales of straw + grain
Use of windows	No	No	Yes
Day/night-rythm	Min. 6h dark (of which 4h in 1 period)	<u>Min.</u> 6h dark	 * Natural daylight (min. 20 lux); * <u>Min.</u> 8h dark in 1 period
Access to range	No	No	Wintergarden
Use of antibiotics in practice	Average 17.6 animal day doses per year (in 2013)	Max. 17.0 animal day doses per year	Average 3.9 animal day doses per year (2012)
Stunning method	Electrical + 2-phase C0 ₂ method	Electrical + 2-phase C0 ₂ method	2-phase C0 ₂ method

Differentiation of broiler markets in the EU



Genetics to be adapted to the differentiated markets



Genetics to be adapted to the differentiated markets

- The existing and newly developed "premium" products are covering a wide range of:
 - age at slaughter
 - growth rate levels
 - housing systems
 - husbandry practices
 - environment
 - etc.
- It is impossible to use the same (fast growing) genetics for these alternative markets with differentiated growth without any negative effects
- Unlike many other inputs (feed, housing, climate, health control, etc.) genetics <u>cannot</u> be "twisted" halfway through and needs to fit the requirements from the beginning!

This needs a different approach and a different mindset!





Genetics to be adapted to the differentiated markets

2 categories of <u>PS Females</u>: Mini







Genetics to be adapted to the differentiated markets

3 categories of <u>PS Males</u>:

Slow Growth (= Label Rouge PS Males)



Intermediate Growth



Conventional Growth



Influence of the different parameters on Quality and Image of Broilers

Parameter	Quality	Image	Remarks
Genetics	+++	+++	Adapted genetics through differentiated growth
Feed	+	++	% Cereals, GMO, antibiotics, animal by-products, local sources
Age	+++	++	Never enough for the consumer: when they talk, not when they buy
Housing	+	++	Density, additional material used, natural light, wintergarden
Range area	+	+++	More important for the image than for taste or welfare Risk of diseases
Processing	++	+	Product Quality, presentation, broken bones
Consumer Information	+	+++	Product information, education
Tracability	+	+++	Security
Branding/ Marketing	+	+++	Tell a positive story, there is something to say!

Slow(er) Growing Broilers Better Quality through Differentiated Growth

- Better heart-lung ratio vs. liveweight
- Better bone mineralisation
- Better development of the immune system

- Very robust and resistant against external stress factors (temperature, feed and disease challenges)
- $\checkmark\,$ Good liveability and good solid bone structure and legs
- $\checkmark\,$ Good welfare for the animals and for the farmers
 - No need to restrict the breeder females and the broilers
 - Ease of management
- $\checkmark\,$ Good uniformity within a flock and between flocks
- $\checkmark\,$ Hardly any need to use antibiotics



Taste Eating Quality and Flavour

Taste in chickens is mainly influenced to the length of the growing period and the feed/raw materials used; maize has a strong contribution to good taste







Hubbard

To be continued...







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Are Slow(er) Growing Broilers Sustainable?

- Sustainability models often include three major components: 0
 - Environment
 - Social
 - Economics

These are intrinsically linked and are critical when evaluating agricultural production systems, particularly with farm animal welfare

- Undoubtedly there is a very positive effect on the **Social element**. But there is a negative impact on **environment** and **economics** using slower growing broilers in combination with extensive housing systems
- However:
 - on **Parent Stock** level there is a positive effect (less feed per chick produced)
 - On Broiler level it depends on the actual breed used, but the negative impact is partly compensated by the better liveability, lower condemnation rate and little/no use of antibiotics
- There is probably much more to gain by:
 - using more local raw materials (less transport)
 - using the whole carcass/all parts for local consumers in the EU \rightarrow develop new products for it and educate consumers. The technology is available...

reducing food wastage... (23% edible food is thrown away in the EU) ubhar 50 OUR CHOICE OUR COMMITMENT

Hubbard JA57 PS females mated with conventional PS males





Hubbard JA57 PS females Alfa-alfa feeding station





Hubbard JA87 PS females mated with conventional PS males



