

AGSC 201

Poultry Lecture

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Poultry Species

Poultry designates species of birds domesticated to grow and reproduce in captivity:

Chickens, turkeys, geese, ducks, quail, pheasant, guinea fowl, pigeons, etc...

Some Avian Species



Poultry Species

- Render products of economical values
- Meat, eggs, feathers, pet food, and fertilizers
- Some species used as models for scientific research
- Mainly for human consumption

Poultry Meat

Country	Production mt x 1000	Kg / per Capita
Comoros	0.6	1
Yemen	80	4
N. Africa	570	7-10
Egypt	540	8
S. Arabia & Kuwait	500	22
Lebanon	75	22
Av. A. Countries		10
Canada	950	31
France	1,100	19
USA	14,220	50
Av. Dev. Countries		27

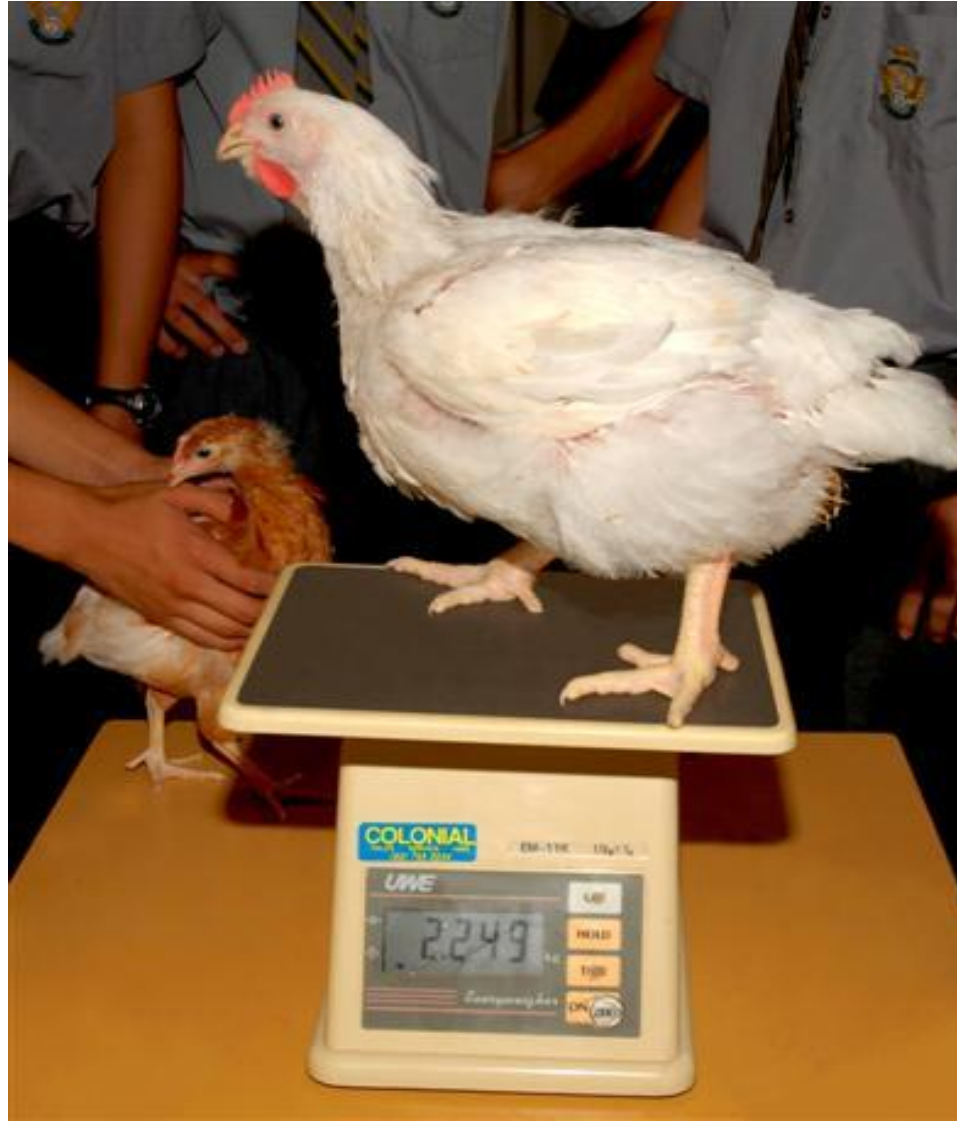
Poultry Eggs

Country	Production mt	Egg/per Capita
Comoros	820	19
Yemen	31,110	28
N. Africa	450	117
Egypt	200,000	50
S. Arabia	138	114
Lebanon	42	200
Av. A. Countries		90
Canada	363,000	200
France	1,050,000	295
USA	5,100,000	300
Av. Dev. Countries		237

Poultry Production

- Broiler: Young meat-type chicken of either sex, raised up to 7 weeks with a market weight of 2 kg/bird
- Pullet: Young female chicken raised from 1 day of age till onset of EP (18 wks)
- Layer: A sexually mature pullet which is in the egg laying stage
- Poultry offal: By-product resulting from processing of live birds.

Cobb Broiler Male at 38 Days of Age



ISA Brown Pullet at 38 Days of AGE



Commercial ISA Brown Layer



Poultry Production

- Feed Conversion for:
- Broiler: Amount of feed in kg consumed to produce 1 kg of weight gain
- Layer: Amount of feed consumed to produce 1 dozen of eggs or 1 kg of eggs

History of the Poultry Industry

- Started: Backyard Mid 30's in USA
- Developed: Early 40's
- Advancements in the fields of breeding, nutrition, diseases, and managements etc...
- Integrated system

Year	Market age (wk)	FC (feed/gain)	FC (feed/doz)
1940	16	4	3.2
1960	8	3	2.5
Actual	5 - 6	1.8	1.6

Poultry Industry in Lebanon

- Started late 50's
- Peaked in 1974. Satisfied market demands and surplus (50%) exported to Arab world
- Production curtailed during war period
- Export market lost (mainly broilers)
- Industry developed in Arab countries

Poultry Industry in Lebanon

- Reasons for decline:
- Destruction of poultry premises and facilities
- Devaluation of LL
- Increase risk factors for investors (Security?)
- Deterioration of quality of imported ingredients
- Disease problems, dwindling supply of vaccines and drugs, power shortage
- Absence of personnel skilled in the field

Present Status

- Incomplete resurgence of the industry as compared to pre-war times
- Production is still below market demand
- Consumer awareness (eggs and meat)
- Production ↓ with Avian flu rumors and post July 2006 war.
- ↑ Biosecurity measures in poultry farms

Normal Poultry Population (million)

	North	South/ Nabatieh	Mount Lebanon	Bekaa	Total
Broilers	20	8.5	15	10.5	54
Laying hens	0.56	0.27	0.48	1.62	2.930
Parent stock*	0.25	0.06	0.10	0.15	0.560
Turkey	-	-	0.02	-	0.020
Water Fowls	-	-	0.025	-	0.025
Japanese quail	-	0.35	-	-	0.350
Ostrich	-	-	-	0.0012	0.0012
Local	?	?	?	?	1.5

* Includes 93000 Egg layer breeders

Recommendations

- Globalization and trade!!!
- ↑ Production, consumption, and food security.
World wide (1:6 Vs 1:8 people)
- Official protection for the sector
- Adoption of a self satisfaction plan
- Restoration of essential services: Laboratory for feed analysis, disease diagnosis, and vaccine production facilities
- Comprehensive extension plan to cover all farm locations
- Continuous cooperation among all concerned