### Dairy Sub-Sector Revitalization Programme

#### Strategic Role of the Jamaica Hope

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### Key Strategic Objectives

Realignment of value-chain to ensure greater equity to all industry players;

Increasing international competitiveness;

Attracting youth and women

#### Origins and Rationale

- Has genesis in 2005 Cattle Sector Study (<u>www.jlaltd.com</u>) & subsequent Stakeholder Conference/Workshop;
- Study revealed uncertain future of cattle sector;
- Conference/workshop identified strategies for sector revitalization;
- Five-year programme for cattle sector revitalization drafted 2006.

### Overarching Methodology

- Stakeholder-led participatory approach through the agency of independent umbrella NGO
- Close cooperation between:
- Public Sector Catalyst & Enabler
- Private Stakeholder Grants and Equity injection

### Revitalizing the Dairy Sector

- Current international situation accords greater immediacy to redevelopment of dairy sector;
- Estimated five-year cost of dairy subsector revitalization programme – US\$14.7M (excluding rationalized school feeding programme)

### Programme Goal

To increase local milk production to 31 million litres by 2012 and further to 55 million litres by 2017 from current output of 14 million litres

### GOJ Input 2008/2009

- Budgetary support J\$140M
- Leverage for access to grant funding from MFI's (DBJ equity participation fund - \$25M)
  - Loan facility for pasture & herd improvement \$52.5M (DBJ/PC Bank network)
- Grants for Ja. Hope development (\$13M) & farmer training (\$9M)
- Cattle purchases (imports) \$20M
- Institutional support to NGO's \$4M
- Establish 'Virtual Clearing House' \$2M
- Programme coordination JDDB

# Strategic Importance of Jamaica Hope

- Results of JDDB 2004 survey:
- Total No. breeding females 11,000
- Animals of Jamaica Hope derivation 85% of population
- Based upon attrition since 2004, current JH breeding herd is estimated at 7650 of a total dairy breeding herd of 9000 cows.

# Indicative Current Herd Productivity

- Total Milk Yield (2007) 14 million litres
- Mature cows (est.) 7650
- % Cows in milk (est.) 72%
- No. cows milking 5510
- Annual yield 2540 L
- Average daily yield per cow in milk 6.95
- Average yield per cow (all cows) 1830 L

### Comparative Productivity of Jamaica Hope

- Current yield national herd 2540 L
- Farmers herds 1968 (Wellington) 3218 L
- ALCAN Herd 1994 (Holness et al.):

Heifer Lactations: 3062 L (297d.)

Cow lactations: 3588 L (301d.)

- Current productivity levels 21-27% below established herd potential
- Is this genetic or environmental?

# Interventions to Improve Yield and Productivity

- Pasture Improvement Improved pastures increased from 5400 ha to 6400 ha in 5 yrs
- Positive impact on nutrition & fertility
- Herd Expansion from 9,000 cows to: 17850 cows by 2012 29000 cows by 2017
- Augmented by Jersey imports 3000 females over next three years.
- Jamaica Hope genetic improvement

### Justification for Imports

	Milk Produ	Milk Production (L)	
AR	Without Imports	With imports	
08	15.5	15.5	
09	17.5	17.5	
10	18.4	21.7	
)11	20.4	24.5	
12	23.6	30.9	

### Genetic Improvement of Jamaica Hope

- Re-establishment of National Progeny Testing Programme
- Re-establishment of National Milk Recording programme
- Consortium initiated in 2007 including MoA, WINDALCO and SIFL to jump-start progeny testing programme;
- Needed Broad coalition of ALL committed Jamaica Hope Breeders.

### What's in it for the Jamaica Hope Breeder?

- Projected herd expansion will generate demand for >1400 heifers annually to 2012
- Potential income \$9.1 million/yr.
- Export of semen 12000 straws/yr @ US\$20 = J\$17.16 M
- Export of embryos 5500@ US\$200 = J\$79 M

#### Imperatives of Export Market

- Proof of Genetic Value of Animal Using Standardized Tools for Genetic Evaluation
- Reorganized AI system (DIY approach)
- Proficiency in MOET (trained Vets)
- National Herd Recording Scheme
- Broad based National Progeny Testing Programme for Sire Evaluation (Contemporary comparison)
- Disease-Free Status

#### Requirements of Breeders

- Individual animal recording
- Pre-select and make available for inspection/selection by panel, bull-dams for select mating to produce young bulls;
- Contract to rear out young bulls for further evaluation/selection for semen collection and storage;
- Make available a predetermined number of cows for mating to young sires on test.

### Summary

- The Jamaica Hope remains the tropical dairy breed of choice for Jamaica and other developing countries;
- It provides the platform for the revitalization of the dairy sector;
- Pure breeders stand to earn as much as \$100 million per year from sale of cattle genetics;
- A demonstrable commitment is required of breeders if this potential is to be realized;
- The GOJ has kick-started the process;
- Breeders need to take ownership for sustainability.