

LIST OF TABLES

Table 1.1 Share of Agriculture and Livestock Sector in GDP	3
Table 1.2 Milk Production System	6
Table 1.3 World Milk Production	8
Table 1.4 Milk production in India by bovine (in million tonnes)	9
Table 1.5 Milk Production in the NER States	10
Table 1.6 Milk production in Assam	11
Table 1.7 Milk production in Morigaon District (in litre)	12
Table 1.8 Milk production by bovine in Morigaon district in 2015-16	12
Table 1.9 District wise annual milk production per sq km of land area in Assam in 2014-15	13
Table 2.1 Sample villages and numbers of sample Dairy Household (DHH) under the study area	34
Table 3.1 Milk Production across the countries	45
Table 3.2 Share of Agriculture & Allied and Livestock Sector GVA	48
Table 3.3 Grazing Land in Assam	57
Table 3.4 Veterinary facilities in Assam	61
Table 3.5 Frozen Semen Bank (FSB) Area covered by Districts	62
Table 3.6 Banking facilities in Morigaon District	63
Table 3.7 In-milk animals in Assam, 19th Livestock Census, 2012	65
Table 3.8 Livestock with milk possibility in Assam 2003 to 2012('000)	66
Table 3.9 Milk Production in Assam, since 2001-02	68
Table 3.10 Milk Production in Morigaon District from 2001-02 to 2015-16	69
Table 3.11 Productivity of cattle of sample households	71
Table 3.12 Production cost of milk in the sample area	73
Table 3.13 Income of survey households from different sources	75
Table 3.14 Revenue of milk shared among sample households	76

Table 3.15 Total Revenue of dairy farming shared	77
Table 3.16 Response on ‘whether high-cost low return create disincentive	80
Table 3.17 Independent Samples Test, Group Statistics	81
Table 3.18 Independent Samples Test	81
Table 3.19 Dwelling houses of the sample area	84
Table 3.20 Availability of cooking fuel among sample households	85
Table 3.21 Sanitary system among sample households	86
Table 3.22 Use of consumer durables among sampled households	87
Table 3.23 Farm level Employment in the milk production	88
Table 3.24 Employment generation through production and marketing	89
Table 3.25 Milk production and level of estimated employment in Morigaon since 2001-02	90
Table 3.26 Milk production and level of estimated employment in Assam since 2002-03	92
Table 4.1 Number and Area of Operational Land Holdings by Size - all Groups in India 2010-11	110
Table 4.2 Number and Area of Operational Land Holdings by Size - all Groups in Assam and Morigaon 2010-11	110
Table 4.3 Milk chilling plants in Assam before 1980	115
Table 4.4 Milk Marketing Channels in India	121
Table 4.5 State-wise number of dairy cooperative union/units involved in procurement, processing and marketing of milk as on December 2014 and milk production	122
Table 4.6 Requirement and Availability Milk in Assam	126
Table 4.7 Milk Marketing Channels in Assam	129
Table 4.8 Producers share on consumer’s rupee by formal milk marketing players of Assam	130
Table 4.9 Milk marketing of SJDUSS	134
Table 4.10 City dwellers' response over SJDUSS milk	137
Table 4.11 Consumers' view upon the quality of SJDUSS milk	137
Table 4.12 Customers' response to pasteurised packaged milk	138
Table 4.13 Centre wise procurement of milk By SJDUSS	149

Table 5.1 Demand and supply of fodder resources in India (in million tonnes)	159
Table 5.2 Feed demand in Assam (in Million Tonnes)	160
Table 5.3 Supply, Demand and Shortfall of Green Fodder, Dry Fodder and concentrate feed in Assam (in milliontonnes)	162
Table 5.4 Feed demand in Morigaon (in tonnes)	164
Table 5.5 Indices of Govt. Wage rate and Milk price	165
Table 5.6 Cattle keeping of sample households	167
Table 5.7 Problem of cattle Insurance	170
Table 5.8 Possibility of employment generation through dairying in Assam	176