22/10/2011

TANZANIA LIVESTOCK MARKETING PR ...

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw

Stop Press 2006/02 - <u>Download</u> a zipfile of this complete report, including a MS Access Database of the complete data - 5 megabytes.

TANZANIA LIVESTOCK MARKETING PROJECT KILIMO/ MDB/ TLMP, Dar es Salaam ADF Credit F/TAN/LVS/92/27 Danagro Adviser Copenhagen ref 352.26 Systems Analyst - Alexander Weir Report February 1995 MIS - Management Information System Improvement

Alex Weir HomePage

INTRODUCTION	
1999	. <u>Misd005.htm</u>
EXECUTIVE	
SUMMARY	<u>Misd010.htm</u>
PHOTOS-9 OFF	<u>Misd011.htm</u>
INTRODUCTION	<u>Misd020.htm</u>
EXISTING SITUATION - THE	
MARKETSMisd030.htm	
EXISTING SITUATION - The MIS System	

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... Misd040.htm AIMS, GOALS AND OBJECTIVES..... Misd050.htm THE MIS ActivityMisd060.htm INFORMATION REPORTING, PRESENTATION AND DISSEMINATION..Misd070.htm Perception of the Product by the Users + My Comment....Misd080.htm PRESENTATION - THE BENCHMARK ANIMAL APPROACH.....Misd090.htm OVERVIEW of the SAMPLING, and DATA RECORDING ACTIVITIES...Misd100.htm SAMPLE SELECTION......Misdl10.htm Sampling - My Comments.....Misd120.htm TNITTIAL DATA RECORDING......Misd130.htm WEIGHING......Misd140.htm GRADING......Misd150.htm GRADING PHOTO EXAMPLES - GRADES 0 THRU 4.....Misd151.htm

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... PRICING.....Misd160.htm THE 2 EXISTING COMPUTER SYSTEMS......Misd170.htm THE MARKER SYSTEM - HOW IT APPEARS TO WORK.....Misd180.htm DATA TRANSLATION OF EXISTING SYSTEM DATA TO NEW SYSTEMS...Misd190.htm The Moshi System.....Misd200.htm The Integrated System......<u>Misd210.htm</u> DATA OUALITY - AN EXAMINATION OF THE TRANSLATED DATA....Misd220.htm thru Misd260.htm THE SEARCH FOR SOUND ALTERNATIVE TECHNIQUES......Misd270.htm thru Misd300.htm ANALYSIS OF THE HISTORICAL DATA.....Misd310.htm Thru Misd390.htm BUYER DATA ANALYSTS......Misd400.htm And Misd410.htm ANALYSIS OF THE HISTORICAL DATA -SUMMARY.....Misd420.htm

22/10/2011 TANZANIA LIVESTOCK MARKETING PR THE BENCHMARK SYSTEM - SOME GRAPHS AND COMMENTS.....Misd430.htm HARDWARE RECOMMENDATIONS......Misd440.htm SUMMARY OF RECOMMENDATIONS......Misd450.htm Addendum to Recommendations......Misd460.htm FURTHER APPENDIX A - RAW DATA FROM 2 PREVIOUS SYSTEMS.....Misd480.htm APPENDIX B - TERMS OF REFERENCE......Misd490.htm APPENDIX C - ACCOUNT OF VISITS AND DISCUSSIONS......Misd500.htm THRU Misd570.htm APPENDIX D - THE CLIPPER SYSTEM.....Misd580.htm APPENDIX E - WORKED EXAMPLE.....Misd590.htm APPENDIX F - THE HELP SCREENS and MANUAL.....Misd600.htm Graphs Follow from here:

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... AVERAGE EDIBLE WEIGHT PER ANIMAL..... Mis8001.htm THROUGH MTS8005.htm B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)..Mis8121.htm THROUGH MIS8135.htm AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG...Mis8021.htm THROUGH MIS8030.htm AVERAGE GRADE PER ANIMAL....Mis8041.htm THROUGH MIS8046.CHT 0% OF TOTAL ANIMALS WHICH ARE GRADE 0 OR GRADE 1...Mis8091.htm thru Mis8094.htm AVERAGE AGE PER ANIMAL....Mis8031.htm thru Mis8034.htm PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS...Mis8051.htm thru Mis8059.htm YARDAGE, NUMBER SOLD, AND RATIO NR SOLD/YARDAGE...Mis8111.htm thru Mis8118.htm SUPPLY REGIONS - MARKET SHARE, WEIGHT CHANGE, GRADE CHANGE....Mis9003.htm thru Mis9033.htm BENCHMARK PRICES..... Mis9201.htm thru Mis9218.htm PRICE PER KG EDIBLE FOR VARIOUS WEIGHT BANDS.....Mis9221.htm thru Mis9226.htm PRICE PER KG CARCASE WEIGHT.....Index.htm thru Mis009.htm PRICE PER KG CARCASE VS YARDAGE....Mis010.htm thru Mis011.htm KG AVERAGE WEIGHT BY LOCATION AND YEAR.....Mis1004.htm thru

22/10/2011 TANZANIA LIVESTOCK MA	ARKETING PR
Mis1205.htm	
AVERAGE AGE BY LOCATION AND YEAR	<u>Mis2004.htm</u> thru
Mis2204.htm	
AVERAGE LIVEWEIGHT BY LOCATION AND Y	YEAR <u>Mis4001.htm</u> thru
Mis4021.htm	
AVERAGE PRICE PER ANIMAL BY LOCATION	I + YEAR <u>Mis4031.htm</u> thru
Mis4033.htm	
AVERAGE PRICE PER KG EDIBLE	<u>Mis4051.htm</u> thru
Mis4053.htm	
AVERAGE GRADE BY LOCATION + YEAR	<u>Mis4071.htm</u> thru
Mis4073.htm	
AVERAGE AGE BY LOCATION + YEAR	<u>Mis4101.htm</u> thru
Mis4103.htm	
YARDAGE	<u>Mis4121.htm</u>
SOLD	<u>Mis4131.htm</u>
VALUE per Market Day	<u>Mis4141.htm</u> thru
Mis4151.htm	
EDIBLE KG PER MARKET DAY	<u>Mis4161.htm</u>
ARUSHA-AVERAGE WEIGHT/STEER	<u>Mis3001.htm</u>
ARUSHA-AVERAGE PRICE/STEER	<u>Mis3002.htm</u>
ARUSHA-AVERAGE PRICE/EDIBLE KG	<u>Mis3003.htm</u>
ARUSHA-AVERAGE GRADE - STEERS	<u>Mis3004.htm</u>
ARUSHA-AVERAGE AGE - STEERS	Mis3005.htm

22/10/2011	TANZANIA LIVESTOCK MARK	ETING PR
ARUSHA-AVERA	AGE SOLD AND YARDED	<u>Mis3006.htm</u>
ARUSHA-AVERA	AGE TOTAL VALUE/MARKET DAY.	<u>Mis3007.htm</u>
MOSHI-AVERAG	GE WEIGHT/STEER	<u>Mis3101.htm</u>
MOSHI-AVERAG	GE PRICE/STEER	<u>Mis3102.htm</u>
MOSHI-AVERAG	GE PRICE/EDIBLE KG	<u>Mis3103.htm</u>
MOSHI-AVERAG	GE GRADE - STEERS	<u>Mis3104.htm</u>
MOSHI-AVERAG	GE AGE – STEERS	<u>Mis3105.htm</u>
MOSHI-AVERAG	GE SOLD AND YARDED	<u>Mis3106.htm</u>
MOSHI-AVERAG	GE TOTAL VALUE/MARKET DAY	<u>Mis3107.htm</u>
DAR-AVERAGE	WEIGHT/STEER	<u>Mis3201.htm</u>
DAR-AVERAGE	PRICE/STEER	<u>Mis3202.htm</u>
DAR-AVERAGE	PRICE/EDIBLE KG	<u>Mis3203.htm</u>
DAR-AVERAGE	GRADE - STEERS	<u>Mis3204.htm</u>
DAR-AVERAGE	AGE - STEERS	<u>Mis3205.htm</u>
Note above d	lata is effectively 1989 th	nru 1994 and data below is
effectively	1990 through 1995 - (prese	ented separately due to
shortcomings	s in Harvard Graphics versi	lon 2.3).
DAR-AVERAGE	WEIGHT/STEER	<u>Mis3301.htm</u>
DAR-AVERAGE	PRICE/STEER	<u>Mis3302.htm</u>
DAR-AVERAGE	PRICE/EDIBLE KG	<u>Mis3303.htm</u>
DAR-AVERAGE	GRADE - STEERS	<u>Mis3304.htm</u>
DAR-AVERAGE	AGE - STEERS	<u>Mis3305.htm</u>

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw

Stop Press 2006/02 - <u>Download</u> a zipfile of this complete report, including a MS Access Database of the complete data - 5 megabytes.

TANZANIA LIVESTOCK MARKETING PROJECT KILIMO/ MDB/ TLMP, Dar es Salaam ADF Credit F/TAN/LVS/92/27 Danagro Adviser Copenhagen ref 352.26 Systems Analyst - Alexander Weir Report February 1995 MIS - Management Information System Improvement

Alex Weir HomePage

INTRODUCTION	
1999	. <u>Misd005.htm</u>
EXECUTIVE	
SUMMARY	<u>Misd010.htm</u>
PHOTOS-9 OFF	<u>Misd011.htm</u>
INTRODUCTION	<u>Misd020.htm</u>
EXISTING SITUATION - THE	
MARKETS <u>Misd030.htm</u>	
EXISTING SITUATION - The MIS System	
<u>Misd040.htm</u>	

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... AIMS, GOALS AND OBJECTIVES..... Misd050.htm THE MIS ActivityMisd060.htm INFORMATION REPORTING, PRESENTATION AND DISSEMINATION..Misd070.htm Perception of the Product by the Users + My Comment....Misd080.htm PRESENTATION - THE BENCHMARK ANIMAL APPROACH.....Misd090.htm OVERVIEW of the SAMPLING, and DATA RECORDING ACTIVITIES..Misd100.htm SAMPLE SELECTION......Misd110.htm Sampling - My Comments.....Misd120.htm TNTTTAL DATA RECORDING......Misd130.htm WEIGHING......Misd140.htm GRADING......Misd150.htm GRADING PHOTO EXAMPLES - GRADES 0 THRU 4.....Misd151.htm PRICING.....Misd160.htm

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... THE 2 EXISTING COMPUTER SYSTEMS.....Misd170.htm THE MARKER SYSTEM - HOW IT APPEARS TO WORK.....Misd180.htm DATA TRANSLATION OF EXISTING SYSTEM DATA TO NEW SYSTEMS...Misd190.htm The Moshi System.....<u>Misd200.htm</u> The Integrated System.....Misd210.htm DATA OUALITY - AN EXAMINATION OF THE TRANSLATED DATA....Misd220.htm thru Misd260.htm THE SEARCH FOR SOUND ALTERNATIVE TECHNIQUES......Misd270.htm thru Misd300.htm ANALYSIS OF THE HISTORICAL DATA.....Misd310.htm Thru Misd390.htm BUYER DATA ANALYSIS......Misd400.htm And Misd410.htm ANALYSIS OF THE HISTORICAL DATA -SUMMARY.....Misd420.htm THE BENCHMARK SYSTEM - SOME GRAPHS AND

22/10/2011	TANZANIA LIVESTOCK MARKETING PR
COMMENTSMiso	<u>1430.htm</u>
HARDWARE	
RECOMMENDATIONS	<u>Misd440.htm</u>
SUMMARY OF	
RECOMMENDATIONS	<u>Misd450.htm</u>
Addendum to	
Recommendations	<u>Misd460.htm</u>
FURTHER	
WORK	<u>Misd470.htm</u>
APPENDIX A - RAW DATA	FROM 2 PREVIOUS
SYSTEMSMis	<u>sd480.htm</u>
APPENDIX B - TERMS OF	
REFERENCE	<u>Misd490.htm</u>
APPENDIX C - ACCOUNT (OF VISITS AND
DISCUSSIONS	. <u>Misd500.htm</u> THRU <u>Misd570.htm</u>
APPENDIX D - THE CLIP	PER
SYSTEM	<u>Misd580.htm</u>
APPENDIX E - WORKED	
EXAMPLE	<u>Misd590.htm</u>
APPENDIX F - THE HELP	SCREENS and
MANUAL	<u>Misd600.htm</u>
Graphs Follow from he	re:
AVERAGE EDIBLE WEIGHT	PER ANIMAL <u>Mis8001.htm</u> THROUGH

22/10/2011

TANZANIA LIVESTOCK MARKETING PR...

MIS8005.htm

B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)..<u>Mis8121.htm</u> THROUGH MIS8135.htm

AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG...Mis8021.htm THROUGH MIS8030.htm AVERAGE GRADE PER ANIMAL....Mis8041.htm THROUGH MIS8046.CHT 0% OF TOTAL ANIMALS WHICH ARE GRADE 0 OR GRADE 1...Mis8091.htm thru Mis8094.htm AVERAGE AGE PER ANIMAL....Mis8031.htm thru Mis8034.htm PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS...Mis8051.htm thru Mis8059.htm YARDAGE, NUMBER SOLD, AND RATIO NR SOLD/YARDAGE...Mis8111.htm thru Mis8118.htm SUPPLY REGIONS - MARKET SHARE, WEIGHT CHANGE, GRADE CHANGE....Mis9003.htm thru Mis9033.htm BENCHMARK PRICES..... Mis9201.htm thru Mis9218.htm PRICE PER KG EDIBLE FOR VARIOUS WEIGHT BANDS.....Mis9221.htm thru Mis9226.htm PRICE PER KG CARCASE WEIGHT.....Index.htm thru Mis009.htm PRICE PER KG CARCASE VS YARDAGE....Mis010.htm thru Mis011.htm KG AVERAGE WEIGHT BY LOCATION AND YEAR.....Mis1004.htm thru Mis1205.htm

TANZANIA LIVESTOCK MARKETING PR... 22/10/2011 AVERAGE AGE BY LOCATION AND YEAR.....Mis2004.htm thru Mis2204.htm AVERAGE LIVEWEIGHT BY LOCATION AND YEAR.....Mis4001.htm thru Mis4021.htm AVERAGE PRICE PER ANIMAL BY LOCATION + YEAR...Mis4031.htm thru Mis4033.htm AVERAGE PRICE PER KG EDIBLE......Mis4051.htm thru Mis4053.htm AVERAGE GRADE BY LOCATION + YEAR......Mis4071.htm thru Mis4073.htm AVERAGE AGE BY LOCATION + YEAR......Mis4101.htm thru Mis4103.htm YARDAGE......Mis4121.htm SOLD.....Mis4131.htm VALUE per Market Day.....Mis4141.htm thru Mis4151.htm EDIBLE KG PER MARKET DAY.....Mis4161.htm ARUSHA-AVERAGE WEIGHT/STEER.....Mis3001.htm ARUSHA-AVERAGE PRICE/STEER......Mis3002.htm ARUSHA-AVERAGE PRICE/EDIBLE KG.....Mis3003.htm ARUSHA-AVERAGE GRADE - STEERS......Mis3004.htm ARUSHA-AVERAGE AGE - STEERS......Mis3005.htm ARUSHA-AVERAGE SOLD AND YARDED.....Mis3006.htm

22	/1	0	17	01	1
22	/ 1	U,	′ ~	LO	

TANZANIA LIVESTOCK MARKETING PR...

ARUSHA-AVERAGE TOTAL VALUE/MARKET DAY	<u>Mis3007.htm</u>
MOSHI-AVERAGE WEIGHT/STEER	. <u>Mis3101.htm</u>
MOSHI-AVERAGE PRICE/STEER	. <u>Mis3102.htm</u>
MOSHI-AVERAGE PRICE/EDIBLE KG	. <u>Mis3103.htm</u>
MOSHI-AVERAGE GRADE - STEERS	. <u>Mis3104.htm</u>
MOSHI-AVERAGE AGE - STEERS	. <u>Mis3105.htm</u>
MOSHI-AVERAGE SOLD AND YARDED	. <u>Mis3106.htm</u>
MOSHI-AVERAGE TOTAL VALUE/MARKET DAY	. <u>Mis3107.htm</u>
DAR-AVERAGE WEIGHT/STEER	<u>lis3201.htm</u>
DAR-AVERAGE PRICE/STEER	<u>lis3202.htm</u>
DAR-AVERAGE PRICE/EDIBLE KG	<u>lis3203.htm</u>
DAR-AVERAGE GRADE - STEERS	<u>lis3204.htm</u>
DAR-AVERAGE AGE - STEERS	<u>lis3205.htm</u>
Note above data is effectively 1989 thru 199	4 and data below is
effectively 1990 through 1995 - (presented s	separately due to
shortcomings in Harvard Graphics version 2.3	3).
DAR-AVERAGE WEIGHT/STEER	<u>lis3301.htm</u>
DAR-AVERAGE PRICE/STEER	<u>lis3302.htm</u>
DAR-AVERAGE PRICE/EDIBLE KG	<u>lis3303.htm</u>
DAR-AVERAGE GRADE - STEERS	<u>lis3304.htm</u>
DAR-AVERAGE AGE - STEERS	<u>lis3305.htm</u>

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis008.htm

TANZANIA LIVESTOCK MARKETING PR ...

US\$/kg carcase weight Steers Grade 1 & 2



Mis007 - 1992-94

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis009.htm

US\$/kg carcase weight Steers Grade 1 & 2





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis010.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis011.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis1004.htm







home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis1005.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis1104.htm



22/10/2011



22/10/2011

TANZANIA LIVESTOCK MARKETING PR...

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis1105.htm



mis1104

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis1204.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis1205.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis2004.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis2104.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis2204.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4001.htm



TANZANIA LIVESTOCK MARKETING PR ...

Moshi



22/10/2011 mis2204

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3002.htm



22/10/2011



mis3001

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3003.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3004.htm



D:/cd3wddvd/NoExe/.../meister10.htm



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3005.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3006.htm



D:/cd3wddvd/NoExe/.../meister10.htm

11



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3007.htm

Arusha
22/10/2011

TANZANIA LIVESTOCK MARKETING PR...



22/10/2011

TANZANIA LIVESTOCK MARKETING PR...

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3101.htm



nis3007

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3102.htm







home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3103.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3104.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3105.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3106.htm

Moshi	
Steers only	

22/10/2011

TANZANIA LIVESTOCK MARKETING PR...



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3107.htm



22/10/2011

mis3106

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3201.htm



22/10/2011	TANZANIA LIVESTOCK MARKETING PR	
	Total US\$/market-day	,
mis3107		

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3202.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3203.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3204.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3205.htm

Dar es Salaam Steers only



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3301.htm

Dar es Salaam

TANZANIA LIVESTOCK MARKETING PR ...





22/10/2011 TANZANIA LIVESTOCK MARKETING PR... home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3302.htm



mis3301

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3303.htm







home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3304.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3305.htm



56/333



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4002.htm



22/10/2011



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4011.htm



22/10/2011

mis4002

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4012.htm



🔸 Arusha 🔸 Moshi 💛 Dar

mis4011

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4021.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4031.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4032.htm







home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4033.htm



LIS\$/steer



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4051.htm

Average Price/steer



TANZANIA LIVESTOCK MARKETING PR ...



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4052.htm





mis4051

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4053.htm







home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4071.htm







home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4072.htm



71/333



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4073.htm




home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4101.htm

Average Grade 1992-95 Steers



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4102.htm

TANZANIA LIVESTOCK MARKETING PR ...

Average Age 1989-92 Steers



22/10/2011 mis4101

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4103.htm



🔸 Arusha 🔺 Moshi 🔷 Dar

mis4102

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4121.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4131.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4141.htm



22/10/2011

TANZANIA LIVESTOCK MARKETING PR ...



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4151.htm

Value/market-day 1991-95

LIS\$1.000/market-day

TANZANIA LIVESTOCK MARKETING PR ...



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis4161.htm

Value/market-day

TANZANIA LIVESTOCK MARKETING PR...

1991-95



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis3001.htm



mis4161

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8002.htm





TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8001.CHT THROUGH MIS8005.CHT - AVERAGE EDIBLE WEIGHT PER ANIMAL.

This graph is really a combination of animal liveweight and animal grade or quality, and is a good indication of animal quality variation.

All 3 locations show a strong annual cycle, with a peak of condition in June/July and a low in December/January. This variation is strongest for Arusha and Moshi, being approx 27%; it is only about 15% for Dar. The Dar peak and trough appear to be June and December, with Arusha and Moshi slightly later with July and January.

The pattern for Dar is a slight decline (3%) in both maximum and minimum over the period 1989 through 1994; Moshi has a slight increase per annum in the minimum values (2.5% p.a.) and a pronounced and accelerating increase per annum in the maximum values (5-11% p.a.); Arusha is making the most dramatic average quality increases with a jump of 12% p.a. from 1993 to 1994.

Current values for max and min are: Dar 100 and 85; Moshi 117 and 82; Arusha 127 and 100: Arusha has the highest quality animals, with Moshi second and Dar last.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8003.htm





TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8001.CHT THROUGH MIS8005.CHT - AVERAGE EDIBLE WEIGHT PER ANIMAL.

This graph is really a combination of animal liveweight and animal grade or quality, and is a good indication of animal quality variation.

All 3 locations show a strong annual cycle, with a peak of condition in June/July and a low in December/January. This variation is strongest for Arusha and Moshi, being approx 27%; it is only about 15% for Dar. The Dar peak and trough appear to be June and December, with Arusha and Moshi slightly later with July and January.

The pattern for Dar is a slight decline (3%) in both maximum and minimum over the period 1989 through 1994; Moshi has a slight increase per annum in the minimum values (2.5% p.a.) and a pronounced and accelerating increase per annum in the maximum values (5-11% p.a.); Arusha is making the most dramatic average quality increases with a jump of 12% p.a. from 1993 to 1994.

Current values for max and min are: Dar 100 and 85; Moshi 117 and 82; Arusha 127 and 100: Arusha has the highest quality animals, with Moshi second and Dar last.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8004.htm





TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8001.CHT THROUGH MIS8005.CHT - AVERAGE EDIBLE WEIGHT PER ANIMAL.

This graph is really a combination of animal liveweight and animal grade or quality, and is a good indication of animal quality variation.

All 3 locations show a strong annual cycle, with a peak of condition in June/July and a low in December/January. This variation is strongest for Arusha and Moshi, being approx 27%; it is only about 15% for Dar. The Dar peak and trough appear to be June and December, with Arusha and Moshi slightly later with July and January.

The pattern for Dar is a slight decline (3%) in both maximum and minimum over the period 1989 through 1994; Moshi has a slight increase per annum in the minimum values (2.5% p.a.) and a pronounced and accelerating increase per annum in the maximum values (5-11% p.a.); Arusha is making the most dramatic average quality increases with a jump of 12% p.a. from 1993 to 1994.

Current values for max and min are: Dar 100 and 85; Moshi 117 and 82; Arusha 127 and 100: Arusha has the highest quality animals, with Moshi second and Dar last.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8005.htm

Edible Weight/Animal



TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8001.CHT THROUGH MIS8005.CHT - AVERAGE EDIBLE WEIGHT PER ANIMAL.

This graph is really a combination of animal liveweight and animal grade or quality, and is a good indication of animal quality variation.

All 3 locations show a strong annual cycle, with a peak of condition in June/July and a low in December/January. This variation is strongest for Arusha and Moshi, being approx 27%; it is only about 15% for Dar. The Dar peak and trough appear to be June and December, with Arusha and Moshi slightly later with July and January.

The pattern for Dar is a slight decline (3%) in both maximum and minimum over the period 1989 through 1994; Moshi has a slight increase per annum in the minimum values (2.5% p.a.) and a pronounced and accelerating increase per annum in the maximum values (5-11% p.a.); Arusha is making the most dramatic average quality increases with a jump of 12% p.a. from 1993 to 1994.

Current values for max and min are: Dar 100 and 85; Moshi 117 and 82; Arusha 127 and 100: Arusha has the highest quality animals, with Moshi second and Dar last.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8121.htm





TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8001.CHT THROUGH MIS8005.CHT - AVERAGE EDIBLE WEIGHT PER ANIMAL.

This graph is really a combination of animal liveweight and animal grade or quality, and is a good indication of animal quality variation.

All 3 locations show a strong annual cycle, with a peak of condition in June/July and a low in December/January. This variation is strongest for Arusha and Moshi, being approx 27%; it is only about 15% for Dar. The Dar peak and trough appear to be June and December, with Arusha and Moshi slightly later with July and January.

The pattern for Dar is a slight decline (3%) in both maximum and minimum over the period 1989 through 1994; Moshi has a slight increase per annum in the minimum values (2.5% p.a.) and a pronounced and accelerating increase per annum in the maximum values (5-11% p.a.); Arusha is making the most dramatic average quality increases with a jump of 12% p.a. from 1993 to 1994.

Current values for max and min are: Dar 100 and 85; Moshi 117 and 82; Arusha 127 and 100: Arusha has the highest quality animals, with Moshi second and Dar last.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8022.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8021.CHT THROUGH MIS8030.CHT - AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG.

Dar shows a slow decline in prices from US\$ 1.4/edible kg in 1989 to US\$ 1.25/edible kg in 1994. There is a strong cycle with prices peaking in December and troughing in June. These seasonal cycles used to be +/- 20% but now appear to be +/- 15%. The above edible prices correspond on the graph to US\$ 1/carcase kg in 1989 and to US\$ 0.9/carcase kg in 1994. Note that the 1994 Government-fixed retail price of mixed beef is US\$ 1.4 approximately (depending on exchange rate), giving butchers an average gross margin of 35% on sales.

Arusha shows a strong decline from US\$ 1.5/kg edible in 1992 to US\$ 0.85/kg edible in 1994. There used to be an annual December/June peak and trough but average prices now appear constant throughout the year. Equivalent prices are US\$ 1.1/carcase kg and US\$ 0.7/carcase kg..

Moshi shows a moderate decline from US\$ 1.25/edible kg in 1992 to US\$ 1.0/edible kg in 1994. Like Arusha, previous annual December/June extremes are now flat. The equivalent prices are US\$ 0.95/carcase kg and US\$ 0.75/carcase kg..

Note that for Dar es Salaam the August 1994 peak was due to a severe problem with rail arrivals which caused a shortage of saleable cattle and resultant high prices.

Arusha now appears to be a very attractive market for buyers, in view of high quality and low prices; analysis of prices for the higher grades and weights of animals may however slightly lessen this advantage (see below).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8023.htm





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8021.CHT THROUGH MIS8030.CHT - AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG.

Dar shows a slow decline in prices from US\$ 1.4/edible kg in 1989 to US\$ 1.25/edible kg in 1994. There is a strong cycle with prices peaking in December and troughing in June. These seasonal cycles used to be +/- 20% but now appear to be +/- 15%. The above edible prices correspond on the graph to US\$ 1/carcase kg in 1989 and to US\$ 0.9/carcase kg in 1994. Note that the 1994 Government-fixed retail price of mixed beef is US\$ 1.4 approximately (depending on exchange rate), giving butchers an average gross margin of 35% on sales.

Arusha shows a strong decline from US\$ 1.5/kg edible in 1992 to US\$ 0.85/kg edible in 1994. There used to be an annual December/June peak and trough but average prices now appear constant throughout the year. Equivalent prices are US\$ 1.1/carcase kg and US\$ 0.7/carcase kg.

Moshi shows a moderate decline from US\$ 1.25/edible kg in 1992 to US\$ 1.0/edible kg in 1994. Like Arusha, previous annual December/June extremes are now flat. The equivalent prices are US\$ 0.95/carcase kg and US\$ 0.75/carcase kg..

Note that for Dar es Salaam the August 1994 peak was due to a severe problem with rail arrivals which caused a shortage of saleable cattle and resultant high prices.

Arusha now appears to be a very attractive market for buyers, in view of high quality and low prices; analysis of prices for the higher grades and weights of animals may however slightly lessen this advantage (see below).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8024.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8021.CHT THROUGH MIS8030.CHT - AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG.

Dar shows a slow decline in prices from US\$ 1.4/edible kg in 1989 to US\$ 1.25/edible kg in 1994. There is a strong cycle with prices peaking in December and troughing in June. These seasonal cycles used to be +/- 20% but now appear to be +/- 15%. The above edible prices correspond on the graph to US\$ 1/carcase kg in 1989 and to US\$ 0.9/carcase kg in 1994. Note that the 1994 Government-fixed retail price of mixed beef is US\$ 1.4 approximately (depending on exchange rate), giving butchers an average gross margin of 35% on sales.

Arusha shows a strong decline from US\$ 1.5/kg edible in 1992 to US\$ 0.85/kg edible in 1994. There used to be an annual December/June peak and trough but average prices now appear constant throughout the year. Equivalent prices are US\$ 1.1/carcase kg and US\$ 0.7/carcase kg..

Moshi shows a moderate decline from US\$ 1.25/edible kg in 1992 to US\$ 1.0/edible kg in 1994. Like Arusha, previous annual December/June extremes are now flat. The equivalent prices are US\$ 0.95/carcase kg and US\$ 0.75/carcase kg..

Note that for Dar es Salaam the August 1994 peak was due to a severe problem with rail arrivals which caused a shortage of saleable cattle and resultant high prices.

Arusha now appears to be a very attractive market for buyers, in view of high quality and low prices; analysis of prices for the higher grades and weights of animals may however slightly lessen this advantage (see below).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8025.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8021.CHT THROUGH MIS8030.CHT - AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG.

Dar shows a slow decline in prices from US\$ 1.4/edible kg in 1989 to US\$ 1.25/edible kg in 1994. There is a strong cycle with prices peaking in December and troughing in June. These seasonal cycles used to be +/- 20% but now appear to be +/- 15%. The above edible prices correspond on the graph to US\$ 1/carcase kg in 1989 and to US\$ 0.9/carcase kg in 1994. Note that the 1994 Government-fixed retail price of mixed beef is US\$ 1.4 approximately (depending on exchange rate), giving butchers an average gross margin of 35% on sales.

Arusha shows a strong decline from US\$ 1.5/kg edible in 1992 to US\$ 0.85/kg edible in 1994. There used to be an annual December/June peak and trough but average prices now appear constant throughout the year. Equivalent prices are US\$ 1.1/carcase kg and US\$ 0.7/carcase kg..

Moshi shows a moderate decline from US\$ 1.25/edible kg in 1992 to US\$ 1.0/edible kg in 1994. Like Arusha, previous annual December/June extremes are now flat. The equivalent prices are US\$ 0.95/carcase kg and US\$ 0.75/carcase kg..

Note that for Dar es Salaam the August 1994 peak was due to a severe problem with rail arrivals which caused a shortage of saleable cattle and resultant high prices.

Arusha now appears to be a very attractive market for buyers, in view of high quality and low prices; analysis of prices for the higher grades and weights of animals may however slightly lessen this advantage (see below).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8026.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8021.CHT THROUGH MIS8030.CHT - AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG.

Dar shows a slow decline in prices from US\$ 1.4/edible kg in 1989 to US\$ 1.25/edible kg in 1994. There is a strong cycle with prices peaking in December and troughing in June. These seasonal cycles used to be +/- 20% but now appear to be +/- 15%. The above edible prices correspond on the graph to US\$ 1/carcase kg in 1989 and to US\$ 0.9/carcase kg in 1994. Note that the 1994 Government-fixed retail price of mixed beef is US\$ 1.4 approximately (depending on exchange rate), giving butchers an average gross margin of 35% on sales.

Arusha shows a strong decline from US\$ 1.5/kg edible in 1992 to US\$ 0.85/kg edible in 1994. There used to be an annual December/June peak and trough but average prices now appear constant throughout the year. Equivalent prices are US\$ 1.1/carcase kg and US\$ 0.7/carcase kg..

Moshi shows a moderate decline from US\$ 1.25/edible kg in 1992 to US\$ 1.0/edible kg in 1994. Like Arusha, previous annual December/June extremes are now flat. The equivalent prices are US\$ 0.95/carcase kg and US\$ 0.75/carcase kg..

Note that for Dar es Salaam the August 1994 peak was due to a severe problem with rail arrivals which caused a shortage of saleable cattle and resultant high prices.

Arusha now appears to be a very attractive market for buyers, in view of high quality and low prices; analysis of prices for the higher grades and weights of animals may however slightly lessen this advantage (see below).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8027.htm





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8021.CHT THROUGH MIS8030.CHT - AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG.

Dar shows a slow decline in prices from US\$ 1.4/edible kg in 1989 to US\$ 1.25/edible kg in 1994. There is a strong cycle with prices peaking in December and troughing in June. These seasonal cycles used to be +/- 20% but now appear to be +/- 15%. The above edible prices correspond on the graph to US\$ 1/carcase kg in 1989 and to US\$ 0.9/carcase kg in 1994. Note that the 1994 Government-fixed retail price of mixed beef is US\$ 1.4 approximately (depending on exchange rate), giving butchers an average gross margin of 35% on sales.

Arusha shows a strong decline from US\$ 1.5/kg edible in 1992 to US\$ 0.85/kg edible in 1994. There used to be an annual December/June peak and trough but average prices now appear constant throughout the year. Equivalent prices are US\$ 1.1/carcase kg and US\$ 0.7/carcase kg..

Moshi shows a moderate decline from US\$ 1.25/edible kg in 1992 to US\$ 1.0/edible kg in 1994. Like Arusha, previous annual December/June extremes are now flat. The equivalent prices are US\$ 0.95/carcase kg and US\$ 0.75/carcase kg..

Note that for Dar es Salaam the August 1994 peak was due to a severe problem with rail arrivals which caused a shortage of saleable cattle and resultant high prices.

Arusha now appears to be a very attractive market for buyers, in view of high quality and low prices; analysis of prices for the higher grades and weights of animals may however slightly lessen this advantage (see below).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8028.htm





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8021.CHT THROUGH MIS8030.CHT - AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG.

Dar shows a slow decline in prices from US\$ 1.4/edible kg in 1989 to US\$ 1.25/edible kg in 1994. There is a strong cycle with prices peaking in December and troughing in June. These seasonal cycles used to be +/- 20% but now appear to be +/- 15%. The above edible prices correspond on the graph to US\$ 1/carcase kg in 1989 and to US\$ 0.9/carcase kg in 1994. Note that the 1994 Government-fixed retail price of mixed beef is US\$ 1.4 approximately (depending on exchange rate), giving butchers an average gross margin of 35% on sales.

Arusha shows a strong decline from US\$ 1.5/kg edible in 1992 to US\$ 0.85/kg edible in 1994. There used to be an annual December/June peak and trough but average prices now appear constant throughout the year. Equivalent prices are US\$ 1.1/carcase kg and US\$ 0.7/carcase kg..

Moshi shows a moderate decline from US\$ 1.25/edible kg in 1992 to US\$ 1.0/edible kg in 1994. Like Arusha, previous annual December/June extremes are now flat. The equivalent prices are US\$ 0.95/carcase kg and US\$ 0.75/carcase kg..

Note that for Dar es Salaam the August 1994 peak was due to a severe problem with rail arrivals which caused a shortage of saleable cattle and resultant high prices.

Arusha now appears to be a very attractive market for buyers, in view of high quality and low prices; analysis of prices for the higher grades and weights of animals may however slightly lessen this advantage (see below).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8029.htm




TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8021.CHT THROUGH MIS8030.CHT - AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG.

Dar shows a slow decline in prices from US\$ 1.4/edible kg in 1989 to US\$ 1.25/edible kg in 1994. There is a strong cycle with prices peaking in December and troughing in June. These seasonal cycles used to be +/- 20% but now appear to be +/- 15%. The above edible prices correspond on the graph to US\$ 1/carcase kg in 1989 and to US\$ 0.9/carcase kg in 1994. Note that the 1994 Government-fixed retail price of mixed beef is US\$ 1.4 approximately (depending on exchange rate), giving butchers an average gross margin of 35% on sales.

Arusha shows a strong decline from US\$ 1.5/kg edible in 1992 to US\$ 0.85/kg edible in 1994. There used to be an annual December/June peak and trough but average prices now appear constant throughout the year. Equivalent prices are US\$ 1.1/carcase kg and US\$ 0.7/carcase kg..

Moshi shows a moderate decline from US\$ 1.25/edible kg in 1992 to US\$ 1.0/edible kg in 1994. Like Arusha, previous annual December/June extremes are now flat. The equivalent prices are US\$ 0.95/carcase kg and US\$ 0.75/carcase kg..

Note that for Dar es Salaam the August 1994 peak was due to a severe problem with rail arrivals which caused a shortage of saleable cattle and resultant high prices.

Arusha now appears to be a very attractive market for buyers, in view of high quality and low prices; analysis of prices for the higher grades and weights of animals may however slightly lessen this advantage (see below).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8030.htm





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8021.CHT THROUGH MIS8030.CHT - AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG.

Dar shows a slow decline in prices from US\$ 1.4/edible kg in 1989 to US\$ 1.25/edible kg in 1994. There is a strong cycle with prices peaking in December and troughing in June. These seasonal cycles used to be +/- 20% but now appear to be +/- 15%. The above edible prices correspond on the graph to US\$ 1/carcase kg in 1989 and to US\$ 0.9/carcase kg in 1994. Note that the 1994 Government-fixed retail price of mixed beef is US\$ 1.4 approximately (depending on exchange rate), giving butchers an average gross margin of 35% on sales.

Arusha shows a strong decline from US\$ 1.5/kg edible in 1992 to US\$ 0.85/kg edible in 1994. There used to be an annual December/June peak and trough but average prices now appear constant throughout the year. Equivalent prices are US\$ 1.1/carcase kg and US\$ 0.7/carcase kg..

Moshi shows a moderate decline from US\$ 1.25/edible kg in 1992 to US\$ 1.0/edible kg in 1994. Like Arusha, previous annual December/June extremes are now flat. The equivalent prices are US\$ 0.95/carcase kg and US\$ 0.75/carcase kg..

Note that for Dar es Salaam the August 1994 peak was due to a severe problem with rail arrivals which caused a shortage of saleable cattle and resultant high prices.

Arusha now appears to be a very attractive market for buyers, in view of high quality and low prices; analysis of prices for the higher grades and weights of animals may however slightly lessen this advantage (see below).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8041.htm





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8021.CHT THROUGH MIS8030.CHT - AVERAGE PRICE/EDIBLE KG AND AVERAGE PRICE/CARCASE KG.

Dar shows a slow decline in prices from US\$ 1.4/edible kg in 1989 to US\$ 1.25/edible kg in 1994. There is a strong cycle with prices peaking in December and troughing in June. These seasonal cycles used to be +/- 20% but now appear to be +/- 15%. The above edible prices correspond on the graph to US\$ 1/carcase kg in 1989 and to US\$ 0.9/carcase kg in 1994. Note that the 1994 Government-fixed retail price of mixed beef is US\$ 1.4 approximately (depending on exchange rate), giving butchers an average gross margin of 35% on sales.

Arusha shows a strong decline from US\$ 1.5/kg edible in 1992 to US\$ 0.85/kg edible in 1994. There used to be an annual December/June peak and trough but average prices now appear constant throughout the year. Equivalent prices are US\$ 1.1/carcase kg and US\$ 0.7/carcase kg..

Moshi shows a moderate decline from US\$ 1.25/edible kg in 1992 to US\$ 1.0/edible kg in 1994. Like Arusha, previous annual December/June extremes are now flat. The equivalent prices are US\$ 0.95/carcase kg and US\$ 0.75/carcase kg..

Note that for Dar es Salaam the August 1994 peak was due to a severe problem with rail arrivals which caused a shortage of saleable cattle and resultant high prices.

Arusha now appears to be a very attractive market for buyers, in view of high quality and low prices; analysis of prices for the higher grades and weights of animals may however slightly lessen this advantage (see below).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8032.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8031.CHT THROUGH MIS8034.CHT - AVERAGE AGE PER ANIMAL

For Arusha, we see an average age for the period of 9-10 years, with no seasonal cycle or change with time.

For Moshi, we see a move from 8 years average age to 9.5 years average age over the period 1992 - 1994, with no apparent seasonal cycle.

For Dar, we see average age move from 6.5 years in 1989 to 8 years in 1994; in the first few years we seem to see a double cycle each year, with an age peak at June and December. This could in fact be an unloading of older animals in June when the general condition of almost all animals is good, and again an unloading of older animals in December when there is a serious shortage.

Remember however that ageing is a very difficult and subjective process (possibly worse than grading); therefore data between markets is probably not comparable, and even within a market with the passing of time and the changing of ageing personnel or the drifting of standards....

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8033.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8031.CHT THROUGH MIS8034.CHT - AVERAGE AGE PER ANIMAL

For Arusha, we see an average age for the period of 9-10 years, with no seasonal cycle or change with time.

For Moshi, we see a move from 8 years average age to 9.5 years average age over the period 1992 - 1994, with no apparent seasonal cycle.

For Dar, we see average age move from 6.5 years in 1989 to 8 years in 1994; in the first few years we seem to see a double cycle each year, with an age peak at June and December. This could in fact be an unloading of older animals in June when the general condition of almost all animals is good, and again an unloading of older animals in December when there is a serious shortage.

Remember however that ageing is a very difficult and subjective process (possibly worse than grading); therefore data between markets is probably not comparable, and even within a market with the passing of time and the changing of ageing personnel or the drifting of standards....

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8034.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8031.CHT THROUGH MIS8034.CHT - AVERAGE AGE PER ANIMAL

For Arusha, we see an average age for the period of 9-10 years, with no seasonal cycle or change with time.

For Moshi, we see a move from 8 years average age to 9.5 years average age over the period 1992 - 1994, with no apparent seasonal cycle.

For Dar, we see average age move from 6.5 years in 1989 to 8 years in 1994; in the first few years we seem to see a double cycle each year, with an age peak at June and December. This could in fact be an unloading of older animals in June when the general condition of almost all animals is good, and again an unloading of older animals in December when there is a serious shortage.

Remember however that ageing is a very difficult and subjective process (possibly worse than grading); therefore data between markets is probably not comparable, and even within a market with the passing of time and the changing of ageing personnel or the drifting of standards....

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8051.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8031.CHT THROUGH MIS8034.CHT - AVERAGE AGE PER ANIMAL

For Arusha, we see an average age for the period of 9-10 years, with no seasonal cycle or change with time.

For Moshi, we see a move from 8 years average age to 9.5 years average age over the period 1992 - 1994, with no apparent seasonal cycle.

For Dar, we see average age move from 6.5 years in 1989 to 8 years in 1994; in the first few years we seem to see a double cycle each year, with an age peak at June and December. This could in fact be an unloading of older animals in June when the general condition of almost all animals is good, and again an unloading of older animals in December when there is a serious shortage.

Remember however that ageing is a very difficult and subjective process (possibly worse than grading); therefore data between markets is probably not comparable, and even within a market with the passing of time and the changing of ageing personnel or the drifting of standards....

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8042.htm





22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS8041.CHT THROUGH MIS8046.CHT - AVERAGE GRADE PER ANIMAL

This graph is similar in some ways to MIS8001.CHT (which graphed average edible weight/animal). For all 3 sites there are pronounced seasonal fluctuations, with top grade in June and lowest grade in December.

Arusha is the highest quality, with a peak of 1.05 grade average and a trough of 1.75 in December; Moshi is next with 1.6 peak and 2.1 trough; Dar is last with 1.7 peak and 2.1 trough.

Arusha and Dar are steady over the period 1989 - 1994, but Moshi has made a spurt in 1994, breaking out of its normal 1.6 - 2.1 annual cycle to hit a peak of 1.3.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8043.htm





D:/cd3wddvd/NoExe/.../meister10.htm

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS8041.CHT THROUGH MIS8046.CHT - AVERAGE GRADE PER ANIMAL

This graph is similar in some ways to MIS8001.CHT (which graphed average edible weight/animal). For all 3 sites there are pronounced seasonal fluctuations, with top grade in June and lowest grade in December.

Arusha is the highest quality, with a peak of 1.05 grade average and a trough of 1.75 in December; Moshi is next with 1.6 peak and 2.1 trough; Dar is last with 1.7 peak and 2.1 trough.

Arusha and Dar are steady over the period 1989 - 1994, but Moshi has made a spurt in 1994, breaking out of its normal 1.6 - 2.1 annual cycle to hit a peak of 1.3.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8044.htm



D:/cd3wddvd/NoExe/.../meister10.htm

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS8041.CHT THROUGH MIS8046.CHT - AVERAGE GRADE PER ANIMAL

This graph is similar in some ways to MIS8001.CHT (which graphed average edible weight/animal). For all 3 sites there are pronounced seasonal fluctuations, with top grade in June and lowest grade in December.

Arusha is the highest quality, with a peak of 1.05 grade average and a trough of 1.75 in December; Moshi is next with 1.6 peak and 2.1 trough; Dar is last with 1.7 peak and 2.1 trough.

Arusha and Dar are steady over the period 1989 - 1994, but Moshi has made a spurt in 1994, breaking out of its normal 1.6 - 2.1 annual cycle to hit a peak of 1.3.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8045.htm





22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS8041.CHT THROUGH MIS8046.CHT - AVERAGE GRADE PER ANIMAL

This graph is similar in some ways to MIS8001.CHT (which graphed average edible weight/animal). For all 3 sites there are pronounced seasonal fluctuations, with top grade in June and lowest grade in December.

Arusha is the highest quality, with a peak of 1.05 grade average and a trough of 1.75 in December; Moshi is next with 1.6 peak and 2.1 trough; Dar is last with 1.7 peak and 2.1 trough.

Arusha and Dar are steady over the period 1989 - 1994, but Moshi has made a spurt in 1994, breaking out of its normal 1.6 - 2.1 annual cycle to hit a peak of 1.3.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8046.htm





D:/cd3wddvd/NoExe/.../meister10.htm

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS8041.CHT THROUGH MIS8046.CHT - AVERAGE GRADE PER ANIMAL

This graph is similar in some ways to MIS8001.CHT (which graphed average edible weight/animal). For all 3 sites there are pronounced seasonal fluctuations, with top grade in June and lowest grade in December.

Arusha is the highest quality, with a peak of 1.05 grade average and a trough of 1.75 in December; Moshi is next with 1.6 peak and 2.1 trough; Dar is last with 1.7 peak and 2.1 trough.

Arusha and Dar are steady over the period 1989 - 1994, but Moshi has made a spurt in 1994, breaking out of its normal 1.6 - 2.1 annual cycle to hit a peak of 1.3.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8091.htm





22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS8041.CHT THROUGH MIS8046.CHT - AVERAGE GRADE PER ANIMAL

This graph is similar in some ways to MIS8001.CHT (which graphed average edible weight/animal). For all 3 sites there are pronounced seasonal fluctuations, with top grade in June and lowest grade in December.

Arusha is the highest quality, with a peak of 1.05 grade average and a trough of 1.75 in December; Moshi is next with 1.6 peak and 2.1 trough; Dar is last with 1.7 peak and 2.1 trough.

Arusha and Dar are steady over the period 1989 - 1994, but Moshi has made a spurt in 1994, breaking out of its normal 1.6 - 2.1 annual cycle to hit a peak of 1.3.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8052.htm





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8051.CHT THROUGH MIS8059.CHT - PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS.

These graphs show a fairly constant distribution of sexes with the years: Arusha 65:30:5, Moshi 60:30:10, Dar 60:20:20 (steers:cows:bulls).

Regarding seasonal variations, in general the proportions of cows and bulls peaks in December and troughs in July: Arusha with an average of 30% cows peaks at 37% in December and troughs at 15% in July; Moshi exactly the same; but Dar has no discernable pattern on cows. For bulls, Arusha with an average of 5% bulls peaks at 10% in December and troughs with 3% in July; Moshi with an average of 10% peaks at 20% in December and troughs with 5% in July; Dar with an average of 20% bulls peaks with 30% in December and troughs with 15% in July;

Once again, it looks like the cows and bulls are pulled out of the bag for the high prices prevalent at December.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8053.htm

TANZANIA LIVESTOCK MARKETING PR ...



GRAPHS MIS8051.CHT THROUGH MIS8059.CHT - PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS.

These graphs show a fairly constant distribution of sexes with the years: Arusha 65:30:5, Moshi 60:30:10, Dar 60:20:20 (steers:cows:bulls).

TANZANIA LIVESTOCK MARKETING PR...

Regarding seasonal variations, in general the proportions of cows and bulls peaks in December and troughs in July: Arusha with an average of 30% cows peaks at 37% in December and troughs at 15% in July; Moshi exactly the same; but Dar has no discernable pattern on cows. For bulls, Arusha with an average of 5% bulls peaks at 10% in December and troughs with 3% in July; Moshi with an average of 10% peaks at 20% in December and troughs with 5% in July; Dar with an average of 20% bulls peaks with 30% in December and troughs with 15% in July;

Once again, it looks like the cows and bulls are pulled out of the bag for the high prices prevalent at December.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8054.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8051.CHT THROUGH MIS8059.CHT - PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS.

These graphs show a fairly constant distribution of sexes with the years: Arusha 65:30:5, Moshi 60:30:10, Dar 60:20:20 (steers:cows:bulls).

Regarding seasonal variations, in general the proportions of cows and bulls peaks in December and troughs in July: Arusha with an average of 30% cows peaks at 37% in December and troughs at 15% in July; Moshi exactly the same; but Dar has no discernable pattern on cows. For bulls, Arusha with an average of 5% bulls peaks at 10% in December and troughs with 3% in July; Moshi with an average of 10% peaks at 20% in December and troughs with 5% in July; Dar with an average of 20% bulls peaks with 30% in December and troughs with 15% in July;

Once again, it looks like the cows and bulls are pulled out of the bag for the high prices prevalent at December.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8055.htm





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8051.CHT THROUGH MIS8059.CHT - PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS.

These graphs show a fairly constant distribution of sexes with the years: Arusha 65:30:5, Moshi 60:30:10, Dar 60:20:20 (steers:cows:bulls).

Regarding seasonal variations, in general the proportions of cows and bulls peaks in December and troughs in July: Arusha with an average of 30% cows peaks at 37% in December and troughs at 15% in July; Moshi exactly the same; but Dar has no discernable pattern on cows. For bulls, Arusha with an average of 5% bulls peaks at 10% in December and troughs with 3% in July; Moshi with an average of 10% peaks at 20% in December and troughs with 5% in July; Dar with an average of 20% bulls peaks with 30% in December and troughs with 15% in July;

Once again, it looks like the cows and bulls are pulled out of the bag for the high prices prevalent at December.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8056.htm





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8051.CHT THROUGH MIS8059.CHT - PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS.

These graphs show a fairly constant distribution of sexes with the years: Arusha 65:30:5, Moshi 60:30:10, Dar 60:20:20 (steers:cows:bulls).

Regarding seasonal variations, in general the proportions of cows and bulls peaks in December and troughs in July: Arusha with an average of 30% cows peaks at 37% in December and troughs at 15% in July; Moshi exactly the same; but Dar has no discernable pattern on cows. For bulls, Arusha with an average of 5% bulls peaks at 10% in December and troughs with 3% in July; Moshi with an average of 10% peaks at 20% in December and troughs with 5% in July; Dar with an average of 20% bulls peaks with 30% in December and troughs with 15% in July;

Once again, it looks like the cows and bulls are pulled out of the bag for the high prices prevalent at December.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8057.htm
TANZANIA LIVESTOCK MARKETING PR...





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8051.CHT THROUGH MIS8059.CHT - PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS.

These graphs show a fairly constant distribution of sexes with the years: Arusha 65:30:5, Moshi 60:30:10, Dar 60:20:20 (steers:cows:bulls).

Regarding seasonal variations, in general the proportions of cows and bulls peaks in December and troughs in July: Arusha with an average of 30% cows peaks at 37% in December and troughs at 15% in July; Moshi exactly the same; but Dar has no discernable pattern on cows. For bulls, Arusha with an average of 5% bulls peaks at 10% in December and troughs with 3% in July; Moshi with an average of 10% peaks at 20% in December and troughs with 5% in July; Dar with an average of 20% bulls peaks with 30% in December and troughs with 15% in July;

Once again, it looks like the cows and bulls are pulled out of the bag for the high prices prevalent at December.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8058.htm

TANZANIA LIVESTOCK MARKETING PR...





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8051.CHT THROUGH MIS8059.CHT - PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS.

These graphs show a fairly constant distribution of sexes with the years: Arusha 65:30:5, Moshi 60:30:10, Dar 60:20:20 (steers:cows:bulls).

Regarding seasonal variations, in general the proportions of cows and bulls peaks in December and troughs in July: Arusha with an average of 30% cows peaks at 37% in December and troughs at 15% in July; Moshi exactly the same; but Dar has no discernable pattern on cows. For bulls, Arusha with an average of 5% bulls peaks at 10% in December and troughs with 3% in July; Moshi with an average of 10% peaks at 20% in December and troughs with 5% in July; Dar with an average of 20% bulls peaks with 30% in December and troughs with 15% in July;

Once again, it looks like the cows and bulls are pulled out of the bag for the high prices prevalent at December.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8059.htm

TANZANIA LIVESTOCK MARKETING PR...





TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8051.CHT THROUGH MIS8059.CHT - PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS.

These graphs show a fairly constant distribution of sexes with the years: Arusha 65:30:5, Moshi 60:30:10, Dar 60:20:20 (steers:cows:bulls).

Regarding seasonal variations, in general the proportions of cows and bulls peaks in December and troughs in July: Arusha with an average of 30% cows peaks at 37% in December and troughs at 15% in July; Moshi exactly the same; but Dar has no discernable pattern on cows. For bulls, Arusha with an average of 5% bulls peaks at 10% in December and troughs with 3% in July; Moshi with an average of 10% peaks at 20% in December and troughs with 5% in July; Dar with an average of 20% bulls peaks with 30% in December and troughs with 15% in July;

Once again, it looks like the cows and bulls are pulled out of the bag for the high prices prevalent at December.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8111.htm

TANZANIA LIVESTOCK MARKETING PR...





D:/cd3wddvd/NoExe/.../meister10.htm

TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8051.CHT THROUGH MIS8059.CHT - PERCENTAGES OF ANIMALS WHICH ARE STEERS, COWS AND BULLS.

These graphs show a fairly constant distribution of sexes with the years: Arusha 65:30:5, Moshi 60:30:10, Dar 60:20:20 (steers:cows:bulls).

Regarding seasonal variations, in general the proportions of cows and bulls peaks in December and troughs in July: Arusha with an average of 30% cows peaks at 37% in December and troughs at 15% in July; Moshi exactly the same; but Dar has no discernable pattern on cows. For bulls, Arusha with an average of 5% bulls peaks at 10% in December and troughs with 3% in July; Moshi with an average of 10% peaks at 20% in December and troughs with 5% in July; Dar with an average of 20% bulls peaks with 30% in December and troughs with 15% in July;

Once again, it looks like the cows and bulls are pulled out of the bag for the high prices prevalent at December.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8092.htm



D:/cd3wddvd/NoExe/.../meister10.htm

TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8091.CHT THROUGH MIS8094.CHT - 0% OF TOTAL ANIMALS WHICH ARE GRADE 0 OR GRADE 1

This is very much like the last graph MIS8041.CHT - it looks for the annual grade cycle and the variation with years.

For all 3 sites, the annual cycle is strong, with highest proportion of good grades in June and lowest in December. Arusha is top of course, with a cycle of 30% to 70% top grades, and in 1994 the situation improved to 43% to 72%; Moshi is next with 10% to 36% normal pattern and 8% to 50% in 1994; Dar is last with a regular 20% to 40% cycle.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8093.htm

TANZANIA LIVESTOCK MARKETING PR ...

Grade 0 + Grade 1 as Fraction of Total



D:/cd3wddvd/NoExe/.../meister10.htm

TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8091.CHT THROUGH MIS8094.CHT - 0% OF TOTAL ANIMALS WHICH ARE GRADE 0 OR GRADE 1

This is very much like the last graph MIS8041.CHT - it looks for the annual grade cycle and the variation with years.

For all 3 sites, the annual cycle is strong, with highest proportion of good grades in June and lowest in December. Arusha is top of course, with a cycle of 30% to 70% top grades, and in 1994 the situation improved to 43% to 72%; Moshi is next with 10% to 36% normal pattern and 8% to 50% in 1994; Dar is last with a regular 20% to 40% cycle.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8094.htm

TANZANIA LIVESTOCK MARKETING PR ...

Grade 0 + Grade 1 as Fraction of Total



TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8091.CHT THROUGH MIS8094.CHT - 0% OF TOTAL ANIMALS WHICH ARE GRADE 0 OR GRADE 1

This is very much like the last graph MIS8041.CHT - it looks for the annual grade cycle and the variation with years.

For all 3 sites, the annual cycle is strong, with highest proportion of good grades in June and lowest in December. Arusha is top of course, with a cycle of 30% to 70% top grades, and in 1994 the situation improved to 43% to 72%; Moshi is next with 10% to 36% normal pattern and 8% to 50% in 1994; Dar is last with a regular 20% to 40% cycle.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8031.htm



TANZANIA LIVESTOCK MARKETING PR ...



TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8091.CHT THROUGH MIS8094.CHT - 0% OF TOTAL ANIMALS WHICH ARE GRADE 0 OR GRADE 1

This is very much like the last graph MIS8041.CHT - it looks for the annual grade cycle and the variation with years.

For all 3 sites, the annual cycle is strong, with highest proportion of good grades in June and lowest in December. Arusha is top of course, with a cycle of 30% to 70% top grades, and in 1994 the situation improved to 43% to 72%; Moshi is next with 10% to 36% normal pattern and 8% to 50% in 1994; Dar is last with a regular 20% to 40% cycle.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8112.htm

TANZANIA LIVESTOCK MARKETING PR ...

Yardage & Sold



TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8111.CHT THROUGH MIS8118.CHT - YARDAGE, NUMBER SOLD, AND RATIO NR SOLD/YARDAGE.

These graphs unfortunately only cover Arusha and Moshi; for Dar the information will be available from the processed output sheets from the Symphony system (for gross yardage from the rail station) and from the daily data sheets in the office at Pugu (for numbers sold).

An interesting pattern emerges: both Arusha and Moshi have peaks in yardage and in sold in June, with a 'trough with an upwards blip' at December - i.e. there is a downward trend towards December with a minipeak at the bottom of that trough for Christmas itself.

For example, Arusha has a peak average yardage of 1600 per market-day in June, with a trough of 300 on either side of Christmas and an actual Christmas blip of 800 animals; similarly, Moshi has a peak yardage of approx 1000 per market-day, with a double-minimum of 300 around Christmas and a Christmas blip of 600.

For NUMBER SOLD, Arusha is 950/100/480 and Moshi is 700/150/400.

Looking at the ratio of number sold to yardage, Arusha in general has an average of sold/yarded of 50% (in the range 40% to 70%), while Moshi has an average of sold/yarded of 70% (in the range 60% to 80%). Arusha has risen appreciably since 1991, when average sold/yarded was 35%; whereas Moshi has dropped since 1992, when average sold/yarded was 90%.

Looking at the trend lines, we see that for yardage, figures are remarkably constant over the years - Arusha has risen just slightly from an average 1000 animals per market day in 1991 to 1050 in 1994; Moshi has remained constant at 600 animals per market day.

TANZANIA LIVESTOCK MARKETING PR...

Also looking at trend lines, for number sold, we see that Arusha on average has risen from 350 animals sold per market-day in 1991 to 550 animals sold per market day in 1994; Moshi meanwhile has supposedly dropped from 550 in 1991 to 400 animals sold per market-day in 1994, according to the market records.

As background information, I am reliably informed that Arusha and Moshi are effectively twin markets. Lower grades not sold at Arusha on the Friday are then trekked to Moshi for sale the following Tuesday.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8113.htm

TANZANIA LIVESTOCK MARKETING PR ...

Yardage & Sold



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8111.CHT THROUGH MIS8118.CHT - YARDAGE, NUMBER SOLD, AND RATIO NR SOLD/YARDAGE.

These graphs unfortunately only cover Arusha and Moshi; for Dar the information will be available from the processed output sheets from the Symphony system (for gross yardage from the rail station) and from the daily data sheets in the office at Pugu (for numbers sold).

An interesting pattern emerges: both Arusha and Moshi have peaks in yardage and in sold in June, with a 'trough with an upwards blip' at December - i.e. there is a downward trend towards December with a minipeak at the bottom of that trough for Christmas itself.

For example, Arusha has a peak average yardage of 1600 per market-day in June, with a trough of 300 on either side of Christmas and an actual Christmas blip of 800 animals; similarly, Moshi has a peak yardage of approx 1000 per market-day, with a double-minimum of 300 around Christmas and a Christmas blip of 600.

For NUMBER SOLD, Arusha is 950/100/480 and Moshi is 700/150/400.

Looking at the ratio of number sold to yardage, Arusha in general has an average of sold/yarded of 50% (in the range 40% to 70%), while Moshi has an average of sold/yarded of 70% (in the range 60% to 80%). Arusha has risen appreciably since 1991, when average sold/yarded was 35%; whereas Moshi has dropped since 1992, when average sold/yarded was 90%.

Looking at the trend lines, we see that for yardage, figures are remarkably constant over the years - Arusha has risen just slightly from an average 1000 animals per market day in 1991 to 1050 in 1994; Moshi has remained constant at 600 animals per market day.

TANZANIA LIVESTOCK MARKETING PR...

Also looking at trend lines, for number sold, we see that Arusha on average has risen from 350 animals sold per market-day in 1991 to 550 animals sold per market day in 1994; Moshi meanwhile has supposedly dropped from 550 in 1991 to 400 animals sold per market-day in 1994, according to the market records.

As background information, I am reliably informed that Arusha and Moshi are effectively twin markets. Lower grades not sold at Arusha on the Friday are then trekked to Moshi for sale the following Tuesday.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8114.htm

TANZANIA LIVESTOCK MARKETING PR ...

Yardage & Sold



TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8111.CHT THROUGH MIS8118.CHT - YARDAGE, NUMBER SOLD, AND RATIO NR SOLD/YARDAGE.

These graphs unfortunately only cover Arusha and Moshi; for Dar the information will be available from the processed output sheets from the Symphony system (for gross yardage from the rail station) and from the daily data sheets in the office at Pugu (for numbers sold).

An interesting pattern emerges: both Arusha and Moshi have peaks in yardage and in sold in June, with a 'trough with an upwards blip' at December - i.e. there is a downward trend towards December with a minipeak at the bottom of that trough for Christmas itself.

For example, Arusha has a peak average yardage of 1600 per market-day in June, with a trough of 300 on either side of Christmas and an actual Christmas blip of 800 animals; similarly, Moshi has a peak yardage of approx 1000 per market-day, with a double-minimum of 300 around Christmas and a Christmas blip of 600.

For NUMBER SOLD, Arusha is 950/100/480 and Moshi is 700/150/400.

Looking at the ratio of number sold to yardage, Arusha in general has an average of sold/yarded of 50% (in the range 40% to 70%), while Moshi has an average of sold/yarded of 70% (in the range 60% to 80%). Arusha has risen appreciably since 1991, when average sold/yarded was 35%; whereas Moshi has dropped since 1992, when average sold/yarded was 90%.

Looking at the trend lines, we see that for yardage, figures are remarkably constant over the years - Arusha has risen just slightly from an average 1000 animals per market day in 1991 to 1050 in 1994; Moshi has remained constant at 600 animals per market day.

TANZANIA LIVESTOCK MARKETING PR...

Also looking at trend lines, for number sold, we see that Arusha on average has risen from 350 animals sold per market-day in 1991 to 550 animals sold per market day in 1994; Moshi meanwhile has supposedly dropped from 550 in 1991 to 400 animals sold per market-day in 1994, according to the market records.

As background information, I am reliably informed that Arusha and Moshi are effectively twin markets. Lower grades not sold at Arusha on the Friday are then trekked to Moshi for sale the following Tuesday.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8115.htm

TANZANIA LIVESTOCK MARKETING PR ...

Yardage & Sold



TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8111.CHT THROUGH MIS8118.CHT - YARDAGE, NUMBER SOLD, AND RATIO NR SOLD/YARDAGE.

These graphs unfortunately only cover Arusha and Moshi; for Dar the information will be available from the processed output sheets from the Symphony system (for gross yardage from the rail station) and from the daily data sheets in the office at Pugu (for numbers sold).

An interesting pattern emerges: both Arusha and Moshi have peaks in yardage and in sold in June, with a 'trough with an upwards blip' at December - i.e. there is a downward trend towards December with a minipeak at the bottom of that trough for Christmas itself.

For example, Arusha has a peak average yardage of 1600 per market-day in June, with a trough of 300 on either side of Christmas and an actual Christmas blip of 800 animals; similarly, Moshi has a peak yardage of approx 1000 per market-day, with a double-minimum of 300 around Christmas and a Christmas blip of 600.

For NUMBER SOLD, Arusha is 950/100/480 and Moshi is 700/150/400.

Looking at the ratio of number sold to yardage, Arusha in general has an average of sold/yarded of 50% (in the range 40% to 70%), while Moshi has an average of sold/yarded of 70% (in the range 60% to 80%). Arusha has risen appreciably since 1991, when average sold/yarded was 35%; whereas Moshi has dropped since 1992, when average sold/yarded was 90%.

Looking at the trend lines, we see that for yardage, figures are remarkably constant over the years - Arusha has risen just slightly from an average 1000 animals per market day in 1991 to 1050 in 1994; Moshi has remained constant at 600 animals per market day.

TANZANIA LIVESTOCK MARKETING PR...

Also looking at trend lines, for number sold, we see that Arusha on average has risen from 350 animals sold per market-day in 1991 to 550 animals sold per market day in 1994; Moshi meanwhile has supposedly dropped from 550 in 1991 to 400 animals sold per market-day in 1994, according to the market records.

As background information, I am reliably informed that Arusha and Moshi are effectively twin markets. Lower grades not sold at Arusha on the Friday are then trekked to Moshi for sale the following Tuesday.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8116.htm

TANZANIA LIVESTOCK MARKETING PR ...

Yardage & Sold



TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8111.CHT THROUGH MIS8118.CHT - YARDAGE, NUMBER SOLD, AND RATIO NR SOLD/YARDAGE.

These graphs unfortunately only cover Arusha and Moshi; for Dar the information will be available from the processed output sheets from the Symphony system (for gross yardage from the rail station) and from the daily data sheets in the office at Pugu (for numbers sold).

An interesting pattern emerges: both Arusha and Moshi have peaks in yardage and in sold in June, with a 'trough with an upwards blip' at December - i.e. there is a downward trend towards December with a minipeak at the bottom of that trough for Christmas itself.

For example, Arusha has a peak average yardage of 1600 per market-day in June, with a trough of 300 on either side of Christmas and an actual Christmas blip of 800 animals; similarly, Moshi has a peak yardage of approx 1000 per market-day, with a double-minimum of 300 around Christmas and a Christmas blip of 600.

For NUMBER SOLD, Arusha is 950/100/480 and Moshi is 700/150/400.

Looking at the ratio of number sold to yardage, Arusha in general has an average of sold/yarded of 50% (in the range 40% to 70%), while Moshi has an average of sold/yarded of 70% (in the range 60% to 80%). Arusha has risen appreciably since 1991, when average sold/yarded was 35%; whereas Moshi has dropped since 1992, when average sold/yarded was 90%.

Looking at the trend lines, we see that for yardage, figures are remarkably constant over the years - Arusha has risen just slightly from an average 1000 animals per market day in 1991 to 1050 in 1994; Moshi has remained constant at 600 animals per market day.

TANZANIA LIVESTOCK MARKETING PR...

Also looking at trend lines, for number sold, we see that Arusha on average has risen from 350 animals sold per market-day in 1991 to 550 animals sold per market day in 1994; Moshi meanwhile has supposedly dropped from 550 in 1991 to 400 animals sold per market-day in 1994, according to the market records.

As background information, I am reliably informed that Arusha and Moshi are effectively twin markets. Lower grades not sold at Arusha on the Friday are then trekked to Moshi for sale the following Tuesday.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8117.htm

TANZANIA LIVESTOCK MARKETING PR ...

Yardage & Sold



TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8111.CHT THROUGH MIS8118.CHT - YARDAGE, NUMBER SOLD, AND RATIO NR SOLD/YARDAGE.

These graphs unfortunately only cover Arusha and Moshi; for Dar the information will be available from the processed output sheets from the Symphony system (for gross yardage from the rail station) and from the daily data sheets in the office at Pugu (for numbers sold).

An interesting pattern emerges: both Arusha and Moshi have peaks in yardage and in sold in June, with a 'trough with an upwards blip' at December - i.e. there is a downward trend towards December with a minipeak at the bottom of that trough for Christmas itself.

For example, Arusha has a peak average yardage of 1600 per market-day in June, with a trough of 300 on either side of Christmas and an actual Christmas blip of 800 animals; similarly, Moshi has a peak yardage of approx 1000 per market-day, with a double-minimum of 300 around Christmas and a Christmas blip of 600.

For NUMBER SOLD, Arusha is 950/100/480 and Moshi is 700/150/400.

Looking at the ratio of number sold to yardage, Arusha in general has an average of sold/yarded of 50% (in the range 40% to 70%), while Moshi has an average of sold/yarded of 70% (in the range 60% to 80%). Arusha has risen appreciably since 1991, when average sold/yarded was 35%; whereas Moshi has dropped since 1992, when average sold/yarded was 90%.

Looking at the trend lines, we see that for yardage, figures are remarkably constant over the years - Arusha has risen just slightly from an average 1000 animals per market day in 1991 to 1050 in 1994; Moshi has remained constant at 600 animals per market day.

TANZANIA LIVESTOCK MARKETING PR...

Also looking at trend lines, for number sold, we see that Arusha on average has risen from 350 animals sold per market-day in 1991 to 550 animals sold per market day in 1994; Moshi meanwhile has supposedly dropped from 550 in 1991 to 400 animals sold per market-day in 1994, according to the market records.

As background information, I am reliably informed that Arusha and Moshi are effectively twin markets. Lower grades not sold at Arusha on the Friday are then trekked to Moshi for sale the following Tuesday.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8118.htm

TANZANIA LIVESTOCK MARKETING PR ...

Yardage & Sold



D:/cd3wddvd/NoExe/.../meister10.htm

TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8111.CHT THROUGH MIS8118.CHT - YARDAGE, NUMBER SOLD, AND RATIO NR SOLD/YARDAGE.

These graphs unfortunately only cover Arusha and Moshi; for Dar the information will be available from the processed output sheets from the Symphony system (for gross yardage from the rail station) and from the daily data sheets in the office at Pugu (for numbers sold).

An interesting pattern emerges: both Arusha and Moshi have peaks in yardage and in sold in June, with a 'trough with an upwards blip' at December - i.e. there is a downward trend towards December with a minipeak at the bottom of that trough for Christmas itself.

For example, Arusha has a peak average yardage of 1600 per market-day in June, with a trough of 300 on either side of Christmas and an actual Christmas blip of 800 animals; similarly, Moshi has a peak yardage of approx 1000 per market-day, with a double-minimum of 300 around Christmas and a Christmas blip of 600.

For NUMBER SOLD, Arusha is 950/100/480 and Moshi is 700/150/400.

Looking at the ratio of number sold to yardage, Arusha in general has an average of sold/yarded of 50% (in the range 40% to 70%), while Moshi has an average of sold/yarded of 70% (in the range 60% to 80%). Arusha has risen appreciably since 1991, when average sold/yarded was 35%; whereas Moshi has dropped since 1992, when average sold/yarded was 90%.

Looking at the trend lines, we see that for yardage, figures are remarkably constant over the years - Arusha has risen just slightly from an average 1000 animals per market day in 1991 to 1050 in 1994; Moshi has remained constant at 600 animals per market day.
TANZANIA LIVESTOCK MARKETING PR...

Also looking at trend lines, for number sold, we see that Arusha on average has risen from 350 animals sold per market-day in 1991 to 550 animals sold per market day in 1994; Moshi meanwhile has supposedly dropped from 550 in 1991 to 400 animals sold per market-day in 1994, according to the market records.

As background information, I am reliably informed that Arusha and Moshi are effectively twin markets. Lower grades not sold at Arusha on the Friday are then trekked to Moshi for sale the following Tuesday.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9003.htm

TANZANIA LIVESTOCK MARKETING PR ...

Yardage & Sold



TANZANIA LIVESTOCK MARKETING PR ...

GRAPHS MIS8111.CHT THROUGH MIS8118.CHT - YARDAGE, NUMBER SOLD, AND RATIO NR SOLD/YARDAGE.

These graphs unfortunately only cover Arusha and Moshi; for Dar the information will be available from the processed output sheets from the Symphony system (for gross yardage from the rail station) and from the daily data sheets in the office at Pugu (for numbers sold).

An interesting pattern emerges: both Arusha and Moshi have peaks in yardage and in sold in June, with a 'trough with an upwards blip' at December - i.e. there is a downward trend towards December with a minipeak at the bottom of that trough for Christmas itself.

For example, Arusha has a peak average yardage of 1600 per market-day in June, with a trough of 300 on either side of Christmas and an actual Christmas blip of 800 animals; similarly, Moshi has a peak yardage of approx 1000 per market-day, with a double-minimum of 300 around Christmas and a Christmas blip of 600.

For NUMBER SOLD, Arusha is 950/100/480 and Moshi is 700/150/400.

Looking at the ratio of number sold to yardage, Arusha in general has an average of sold/yarded of 50% (in the range 40% to 70%), while Moshi has an average of sold/yarded of 70% (in the range 60% to 80%). Arusha has risen appreciably since 1991, when average sold/yarded was 35%; whereas Moshi has dropped since 1992, when average sold/yarded was 90%.

Looking at the trend lines, we see that for yardage, figures are remarkably constant over the years - Arusha has risen just slightly from an average 1000 animals per market day in 1991 to 1050 in 1994; Moshi has remained constant at 600 animals per market day.

TANZANIA LIVESTOCK MARKETING PR...

Also looking at trend lines, for number sold, we see that Arusha on average has risen from 350 animals sold per market-day in 1991 to 550 animals sold per market day in 1994; Moshi meanwhile has supposedly dropped from 550 in 1991 to 400 animals sold per market-day in 1994, according to the market records.

As background information, I am reliably informed that Arusha and Moshi are effectively twin markets. Lower grades not sold at Arusha on the Friday are then trekked to Moshi for sale the following Tuesday.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8122.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8123.htm

B Factors



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8124.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8125.htm



D:/cd3wddvd/NoExe/.../meister10.htm

TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8126.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8127.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8128.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8129.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8130.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8131.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8132.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8133.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8134.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8135.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis8021.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPHS MIS8121.CHT THROUGH MIS8135.CHT - B FACTORS (SLOPE OF LOG-LOG GRAPH PRICE VS. EDIBLE WEIGHT)

It is my theory that this graph explains the behaviour of producers and traders for the graph MIS8001.cht above: The Graphs show that for Dar es Salaam, for all 3 sexes, the B values remain pretty constant over time at a value for B of 1.0. This in effect means that there is no price premium for better quality animals. Compare this with the graphs for Moshi and especially for Arusha: both were at 1.0 in 1992, but Moshi is now in 1994 at 1.6 for steers, 1.2 for cows and 1.5 for bulls; Arusha is now in 1994 at 1.7 for steers and bulls, and at 1.5 for cows. These are significant incentives to producers and traders to produce higher quality animals. For example, a B factor of 1.7 means that if an animal is fattened so as to have 10% more edible meat on its frame, then it will fetch a 17% higher price.

It is of interest that Moshi figures for 1991 appear to indicate that the factor for steers was then 1.3 (as compared with 1.0 for Moshi for 1992). This may imply that the pattern for these 2 northern markets is traditionally one of producing premiums for better quality cattle, and that 1992 saw a temporary fall-off in that situation...

These average edible weight per animal graphs plus the B factor graphs between them really encapsulate the most exciting findings of the MIS Project - that given a market which awards premiums for higher quality cattle, then producers and traders will rise to the occasion. This is truly a triumph for market forces. What remains to be done is to examine what are the factors which produce this quality market (we assume the informal exports to Kenya), examine how the producers and traders provide these quality animals (e.g. feedlots?), and consider whether it is desirable and/or possible that this experience be transferred to Dar or to other markets.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9004.htm



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPH MIS9003.CHT - ARUSHA - SUPPLY REGIONS - MARKET SHARE.

These graphs shows that, pre-June 93, Meatu supplied 20% of the animals to Arusha, Mbulu 18%, Shinyanga 13% etc.; post-June 1993, Meatu jumped to 53% of the market, and all others fell back, except Kondoa, which registered a gain from 8% to 10% of the market. Of these falls in market share, Shinyanga, Iramba and Singida fared the worst, with the biggest drops.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9005.htm
Arusha - Supply Regions Edible Weight Change



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPH MIS9004.CHT - ARUSHA - SUPPLY REGIONS - AVERAGE EDIBLE WEIGHT.

As we know, average edible weight is a good measure of animal quality, being a combination of liveweight and grade information (the only drawback is that a big shift in the percentage of cows in a population also affects the average edible weight, even without any real change in animal quality).

This graph shows that after June 1993, there were significant gains in animal quality for animals coming from Meatu, Iramba, Kondoa, Igunga, and Karatu; there was a static situation for animals from Shinyanga, Hanang, Singida and Maswa (but Hanang already had a very high animal quality).

Kondoa stands out as not only registering a very high percentage gain in animal quality, but also in getting to top value for animal quality. Combine this with the gain in market share in MIS9003.cht as above, and we have a very interesting situation in Kondoa. I very strongly recommend that the cattle production business in Kondoa is investigated as possibly being a model for other regions (as is of course Meatu).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9013.htm

Arusha - Supply Regions Grade Change



D:/cd3wddvd/NoExe/.../meister10.htm

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPH MIS9005.CHT - ARUSHA - SUPPLY REGIONS - AVERAGE GRADE.

This is really effectively just another way of presenting the information which is present in MIS9004.cht as above. It says the same, but is a cruder measure in some ways.

Note that for these 3 graphs, the accuracy of the market share information may be suspect, since it is based on sampling accuracy (or luck), but that the average edible weight information should be treated as quite accurate.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9014.htm

Moshi - Supply Regions Market Share



D:/cd3wddvd/NoExe/.../meister10.htm

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPH MIS9013.CHT - MOSHI - SUPPLY REGIONS - MARKET SHARE.

The information for Moshi is not so exciting as for Arusha above, since (as we know) the animal quality gains for Moshi are not quite so outstanding. Also of course Moshi is very much a second market to Arusha, and mainly deals in the lower quality animals which were unsold at Arusha on the previous week.

This graph shows that Kiteto's market share fell from 26% to 18%, Mbulu from 24% to 18%, and Kondoa from 13% to 10%; Singida rose from 7% to 10%, Babati from 4% to 11%, and Hanang from 2% to 4%.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9015.htm

Moshi - Supply Regions Edible Weight Change



D:/cd3wddvd/NoExe/.../meister10.htm

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPH MIS9014.CHT - MOSHI - SUPPLY REGIONS - AVERAGE EDIBLE WEIGHT.

This graph shows data similar to that of MIS9004.CHT: that after June 1993, there were significant gains in animal quality for animals coming from Kondoa and Iramba; there was a static situation for animals from Shinyanga, Hanang, and Singida (but Hanang already had a very high animal quality).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9023.htm



Moshi - Supply Regions Grade Change



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPH MIS9015.CHT - MOSHI - SUPPLY REGIONS - AVERAGE GRADE.

This is really effectively just another way of presenting the information which is present in MIS9014.cht as above. It says the same, but is a cruder measure in some ways.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9024.htm



TANZANIA LIVESTOCK MARKETING PR...

GRAPH MIS9023.CHT - DAR - SUPPLY REGIONS - MARKET SHARE.

The information for Dar is the least exciting, since (as we know) there were effectively zero animal quality gains for Dar.

This graph shows that Shinyanga gained from 27% to 34% of the market, and Dodoma gained from 17% to 21% of the market; Tabora fell from 20% to 13%, and Singida from 17% to 12%.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9025.htm



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPH MIS9024.CHT - DAR - SUPPLY REGIONS - AVERAGE EDIBLE WEIGHT.

This graph shows that only Mbeya (a fairly minor player by market share) gained in animal quality terms (from 93 kg to 104 kg); the other supply regions were either static or falling in animal quality terms.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9031.htm



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPH MIS9025.CHT - DAR - SUPPLY REGIONS - AVERAGE GRADE.

This is really effectively just another way of presenting the information which is present in MIS9024.cht as above. It says the same, but is a cruder measure in some ways.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9032.htm

Arusha - Sex Distribution Pre- and Post-June 1993

% of Population pre-93/06



D:/cd3wddvd/NoExe/.../meister10.htm

TANZANIA LIVESTOCK MARKETING PR...

GRAPH MIS9031.CHT through MIS9033.CHT - SUPPLY REGIONS - SEX DISTRIBUTION.

These graphs show the sex distributions coming from the various regions to the 3 major markets, both before and after June 1993. There is nothing very startling about the information, but like all other information, it may reveal something useful to the cattle specialists on the TLMP Team.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9033.htm

Moshi - Sex Distribution Pre- and Post-June 1993

% of Population pre-93/06



TANZANIA LIVESTOCK MARKETING PR...

GRAPH MIS9031.CHT through MIS9033.CHT - SUPPLY REGIONS - SEX DISTRIBUTION.

These graphs show the sex distributions coming from the various regions to the 3 major markets, both before and after June 1993. There is nothing very startling about the information, but like all other information, it may reveal something useful to the cattle specialists on the TLMP Team.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9201.htm

TANZANIA LIVESTOCK MARKETING PR ...

Dar - Sex Distribution Pre- and Post-June 1993

% of Population pre-93/06



TANZANIA LIVESTOCK MARKETING PR...

GRAPH MIS9031.CHT through MIS9033.CHT - SUPPLY REGIONS - SEX DISTRIBUTION.

These graphs show the sex distributions coming from the various regions to the 3 major markets, both before and after June 1993. There is nothing very startling about the information, but like all other information, it may reveal something useful to the cattle specialists on the TLMP Team.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9202.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

- mis9204 to mis9207 - for the lowest steer benchmark - 160 kg grade 4 - show that Dar is rather

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9203.htm

Benchmark Prices



D:/cd3wddvd/NoExe/.../meister10.htm

TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

- mis9204 to mis9207 - for the lowest steer benchmark - 160 kg grade 4 - show that Dar is rather

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9204.htm





TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

- mis9204 to mis9207 - for the lowest steer benchmark - 160 kg grade 4 - show that Dar is rather

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9205.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

- mis9204 to mis9207 - for the lowest steer benchmark - 160 kg grade 4 - show that Dar is rather

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9206.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

- mis9204 to mis9207 - for the lowest steer benchmark - 160 kg grade 4 - show that Dar is rather
higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9207.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9211.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9212.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9213.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9214.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9215.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9216.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9217.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9218.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9221.htm

Benchmark Prices



TANZANIA LIVESTOCK MARKETING PR...

The graphs MIS9201.CHT through MIS9207.CHT inclusive and MIS9211.cht through MIS9218.cht inclusive show average benchmark prices corresponding to real data for the 3 markets 1989 through 1994. For each sex and market, the shape will be the same over the same period, but the values will be higher or lower depending on the weight and grade used. These graphs are composed in the following way:

- for each market day, the data points for each sex are analysed to get a best fit straight line on graph of the log(price obtained) vs. log(animal edible weight). This is done using mathematical formulae and also discounting up to 33% data points which are outside the envelope of +/- 2.5 standard deviations (to discount stray or erroneous measurements).

- if for this market-day and each of the 3 sexes, the value of the slope of this best fit straight line is between 0.5 and 3.0, then the slope value (B) and the y intercept value (K) are used in a formula to calculate the price for the 7 benchmark weights and grades which I chose from averaging historical data.

- thus for every market day there may be 0, 7, 14 or 21 values of benchmark prices corresponding to the 21 benchmark weights and grades.

- each of the graphs above chooses only 2 of these 21 benchmark prices and shows them for 2 or all 3 of the 3 major markets.

The graphs themselves show what we are getting used to seeing:

- mis9201 to mis9003 - for the top steer benchmark - 350 kg grade 0 - show that prices between the 3 markets are in general very close to each other.

higher than Moshi which in turn is higher than Arusha. Note that when comparing Arusha in particular with the real data points it appears that the theoretical curve fit understates the prices at low weights and grades for high B values. I recognise as a legitimate weakness of the log-log approach, but am totally convinced that the benefits of the approach easily outweigh this weakness, which only shows at this kind of benchmark.

- mis9211 to 9214 - for steer 275 kg grade 1 - show that Dar and Moshi are pretty much on par, but with a Dar bulge upwards in August 1994 due to the rail disruption mentioned above; Moshi is generally a bit above Arusha, but with a significant bulge upwards during the period December 1993 through May 1994 (reason unknown).

- mis9215 through mis9218 - for steer 240 kg grade 2 - shows similar behaviour to the 275 kg graphs above, but with Dar prices spacing out above Moshi and Arusha numbers.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9222.htm

Price/Kg Edible Edible Weight > 120 kg



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS9221.CHT THROUGH MIS9226.CHT INCLUSIVE

These graphs compare the average price per edible kg for the 3 major markets, but subselected according to high and low quality animals. These graphs show the following:

- that the average price per edible kg for Dar is very much independent of the animal quality band examined

- that the average price per edible kg for Arusha and Moshi is much higher for better animal qualities. This is the B factor being higher than 1.0, i.e. a non-linear relationship between price and edible weight, which encourages producers to supply higher quality animals to market.

The following table summarises the current (1994) values from these graphs:

	Arusha	Moshi	Dar
>140kg edible wt	US\$ 1.0/kg edible	US\$ 1.1/kg edible	US\$ 1.25/kg edib
>120 kg edible wt	US\$ 1.0/kg edible	US\$ 1.0/kg edible	US\$ 1.2/kg edib
<120 kg edible wt	US\$ 0.7/kg edible	US\$ 0.9/kg edible	US\$ 1.2/kg edib
<80 kg edible wt	US\$ 0.6/kg edible	US\$ 0.8/kg edible	US\$ 1.1/kg edib

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9223.htm

TANZANIA LIVESTOCK MARKETING PR ...

Price/Kg Edible Edible Weight <= 120 kg



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS9221.CHT THROUGH MIS9226.CHT INCLUSIVE

These graphs compare the average price per edible kg for the 3 major markets, but subselected according to high and low quality animals. These graphs show the following:

- that the average price per edible kg for Dar is very much independent of the animal quality band examined

- that the average price per edible kg for Arusha and Moshi is much higher for better animal qualities. This is the B factor being higher than 1.0, i.e. a non-linear relationship between price and edible weight, which encourages producers to supply higher quality animals to market.

The following table summarises the current (1994) values from these graphs:

	Arusha	Moshi	Dar
>140kg edible wt	US\$ 1.0/kg edible	US\$ 1.1/kg edible	US\$ 1.25/kg edib
>120 kg edible wt	US\$ 1.0/kg edible	US\$ 1.0/kg edible	US\$ 1.2/kg edib
<120 kg edible wt	US\$ 0.7/kg edible	US\$ 0.9/kg edible	US\$ 1.2/kg edib
<80 kg edible wt	US\$ 0.6/kg edible	US\$ 0.8/kg edible	US\$ 1.1/kg edib

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9224.htm

TANZANIA LIVESTOCK MARKETING PR ...

Price/Kg Edible Edible Weight >= 140 kg


22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS9221.CHT THROUGH MIS9226.CHT INCLUSIVE

These graphs compare the average price per edible kg for the 3 major markets, but subselected according to high and low quality animals. These graphs show the following:

- that the average price per edible kg for Dar is very much independent of the animal quality band examined

- that the average price per edible kg for Arusha and Moshi is much higher for better animal qualities. This is the B factor being higher than 1.0, i.e. a non-linear relationship between price and edible weight, which encourages producers to supply higher quality animals to market.

The following table summarises the current (1994) values from these graphs:

	Arusha	Moshi	Dar	
>140kg edible wt	US\$ 1.0/kg edible	US\$ 1.1/kg edible	US\$ 1.25/kg edib	
>120 kg edible wt	US\$ 1.0/kg edible	US\$ 1.0/kg edible	US\$ 1.2/kg edib	
<120 kg edible wt	US\$ 0.7/kg edible	US\$ 0.9/kg edible	US\$ 1.2/kg edib	
<80 kg edible wt	US\$ 0.6/kg edible	US\$ 0.8/kg edible	US\$ 1.1/kg edib	

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9225.htm

TANZANIA LIVESTOCK MARKETING PR ...

Price/Kg Edible Edible Weight >= 140 kg



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS9221.CHT THROUGH MIS9226.CHT INCLUSIVE

These graphs compare the average price per edible kg for the 3 major markets, but subselected according to high and low quality animals. These graphs show the following:

- that the average price per edible kg for Dar is very much independent of the animal quality band examined

- that the average price per edible kg for Arusha and Moshi is much higher for better animal qualities. This is the B factor being higher than 1.0, i.e. a non-linear relationship between price and edible weight, which encourages producers to supply higher quality animals to market.

The following table summarises the current (1994) values from these graphs:

	Arusha	Moshi	Dar	
>140kg edible wt	US\$ 1.0/kg edible	S\$ 1.0/kg edible US\$ 1.1/kg edible		
>120 kg edible wt	US\$ 1.0/kg edible	US\$ 1.0/kg edible	US\$ 1.2/kg edib	
<120 kg edible wt	US\$ 0.7/kg edible	US\$ 0.9/kg edible	US\$ 1.2/kg edib	
<80 kg edible wt	US\$ 0.6/kg edible	US\$ 0.8/kg edible	US\$ 1.1/kg edib	

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis9226.htm

TANZANIA LIVESTOCK MARKETING PR ...

Price/Kg Edible Edible Weight >= 140 kg



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS9221.CHT THROUGH MIS9226.CHT INCLUSIVE

These graphs compare the average price per edible kg for the 3 major markets, but subselected according to high and low quality animals. These graphs show the following:

- that the average price per edible kg for Dar is very much independent of the animal quality band examined

- that the average price per edible kg for Arusha and Moshi is much higher for better animal qualities. This is the B factor being higher than 1.0, i.e. a non-linear relationship between price and edible weight, which encourages producers to supply higher quality animals to market.

The following table summarises the current (1994) values from these graphs:

	Arusha	Moshi	Dar	
>140kg edible wt	US\$ 1.0/kg edible	US\$ 1.1/kg edible	US\$ 1.25/kg edib	
>120 kg edible wt	US\$ 1.0/kg edible	US\$ 1.0/kg edible	US\$ 1.2/kg edib	
<120 kg edible wt	US\$ 0.7/kg edible	US\$ 0.9/kg edible	US\$ 1.2/kg edib	
<80 kg edible wt	US\$ 0.6/kg edible	US\$ 0.8/kg edible	US\$ 1.1/kg edib	

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Mis007.htm

TANZANIA LIVESTOCK MARKETING PR ...

Price/Kg Edible Edible Weight <= 80 kg



22/10/2011 TANZANIA LIVESTOCK MARKETING PR... GRAPHS MIS9221.CHT THROUGH MIS9226.CHT INCLUSIVE

These graphs compare the average price per edible kg for the 3 major markets, but subselected according to high and low quality animals. These graphs show the following:

- that the average price per edible kg for Dar is very much independent of the animal quality band examined

- that the average price per edible kg for Arusha and Moshi is much higher for better animal qualities. This is the B factor being higher than 1.0, i.e. a non-linear relationship between price and edible weight, which encourages producers to supply higher quality animals to market.

The following table summarises the current (1994) values from these graphs:

	Arusha	Moshi	Dar	
>140kg edible wt	US\$ 1.0/kg edible	US\$ 1.1/kg edible	US\$ 1.25/kg edib	
>120 kg edible wt	US\$ 1.0/kg edible	US\$ 1.0/kg edible	US\$ 1.2/kg edib	
<120 kg edible wt	US\$ 0.7/kg edible	US\$ 0.9/kg edible	US\$ 1.2/kg edib	
<80 kg edible wt	US\$ 0.6/kg edible	US\$ 0.8/kg edible	US\$ 1.1/kg edib	

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd010.htm

TANZANIA LIVESTOCK MARKETING PR... CATTLE MARKET PRICE AVERAGING AND FORECASTING - TANZANIA 1994

MARKETING INFORMATION SYSTEM (MIS)

INTRODUCTION 1999

This report with graphs was done by me 1994 and 1995.

I am reissuing it because:

- it is a good report, with interesting methodology
- because of internal politics it was never released or even fully utilised at the time

The whole job was in several parts:

- investigating existing data collection and analysis methods and recommending better ones
- writing a computer system for data input, data processing, and reporting
- analysing historical data (1989 thru 1994) which had never been fully analysed before

So I enclose here the Data Collection and Analysis methods and the analysis of historical data; I exclude the computer system at this point in time. Anyone who wants dbase tables of the historical data or an Access database (only 882k when winzipped (TM), 7 megabytes when unzipped) of the historical data just email me on alexweir@usa.net and I can email the stuff to you. Also the Harvard Graphics .cht data files can be supplied for anyone who wants them. I am also always interested in rewriting the data input, processing and reporting system in some modern programming language like VB.

I think this report and the related data and program as above should or may be relevant to:

TANZANIA LIVESTOCK MARKETING PR ...

- Tanzanian and Donor organisations working in this field in Tanzania
- Organisations , public and private, working in the field of cattle markets and cattle market Management Information Systems or Marketing Information Systems. This may be relevant to 1st world programs and well as 3rd world programs
- Universities and agricultural colleges

The complete system can be run from your hard disc using any browser, and it is also intranet and internetready - just drop all the .htm , .gif and .jpg files into one directory and double click on INDEX.HTM to start up the system.

The report comprises 160 graphs (100 with explanation and 60 largely self-explanatory), about 10 photos, and approximately 56 pages of text. Total 231 .htm files @ 2.4k bytes average, plus 160 .gif files for the Harvard Graphics graphs @ 14k average, plus 14 .jpg files for the photos @ 100k average size. Total size is 4.1 megabytes (approx 3 floppy discs) or 3.6 megabytes when zipped using WinZip (TM). Takes about 15 minutes to upload or download using dialup email at 33k baud.

Since my original report in 1994/95 had no Acknowledgements let me do a quick one here:

Dominic Massawe, Sophia, Kadigi and the others at TLMP for their help and cooperation during and after my work there September 1994. Percy Robb, Frank Skov, Verner Jensen, Jan Stryffert, Ole Jepsen and others at Danagro in Copenhagen. All the people we interviewed and who helped otherwise during the Project. Percy Robb I am particularly grateful to towards the end of my initial 7 weeks onsite work by suggesting that the phenomenon we were seeing were more related to cattle liveweight than to cattle grade as such - that led to the log-log relationship between price and edible weight which forms a large (but not complete) part of this report. Jim Airey and Martin Doran without whose initial work and without whose massive data collection

TANZANIA LIVESTOCK MARKETING PR...

effort this report could not have existed. UNFAO and UNDP Dar es Salaam for employing Jim and Martin.

Speaking of which, one does not have to accept that log log methodology in order to gain something or even a lot from this report and from the data contained. That 5 years data itself is worth a goldmine even without my interpretation - it is open to re-interpretation by anyone and everyone.

And by the way we never ever compared the weights data with the rainfalls for those years - that could even produce results which will enable forecasts to be made based on recent rainfall figures.

Weighing was regarded (correctly I think) in this report as a onerous, labour-intensive and problematic activity - now that digital cameras are commonplace and almost affordable, I am sure that they could be used along with PC's for weighing - one shot sideview with 2 metre sticks fastened at 90 degrees held just in front of the animal like a cross; then one shot from the rear with a single metre stick held horizontally again just in front of the animal. Bring up on the computer screen in a suitable software package enables precise measurement of body length, body height and body maximum width. Experimentally-derived formulae enable immediate calculation of liveweight, carcase weight and edible weight to within a few kilogrammes plus or minus - i.e. the system not only calculates liveweight but also automatically grades the animal (based on the body maximum width).

Apologies for not checking through the report and rewriting parts or the whole - there just isnt enough interest guaranteeable in this kind of stuff to justify that. I did rework the colours and backgrounds to the graphs to make them nicer to look at, and I did reinclude some graphs (the 60 without comment) from earlier drafts which seem very relevant. Also the photos of grades and grading and some photos from Moshi cattle market are included.

Anyone who wants more info, data or just to discuss anything related to the Project, please email me on <u>alexweir@usa.net</u> If you are viewing on internet or an intranet, and you want the report for your hard disc, D:/cd3wddvd/NoExe/.../meister10.htm 298/333

TANZANIA LIVESTOCK MARKETING PR...

then email me and I can email you the zip file at 3.6 megabytes.

EXECUTIVE SUMMARY 1999 - I dont think I summarised too well in 1994 what this report is about, so I do it again here - In Tanzania there is very little or no auctioning of cattle - all or most sales are done through private deals. Because of that someone (probably correctly) thought that there would be scope for an information system which gave sellers and buyers and idea of what prices would be like at the various markets for the various weights and grades of cattle. Up till 1994 this market weight, grade, sex and price sampling would typically sample 35 cattle per market day. This report works out a way to reduce that to about 6 - 8 cattle, and with increased accuracy. Since the sampling 1989 thru 1994 was REPRESENTATIVE, then this report also collates and graphs lots of interesting and useful data regarding patterns and trends for the 3 major markets - Dar es Salaam, Arusha and Moshi. One of the really interesting things we found was that Arusha awards financial incentive to better grade heavier cattle, but Dar treats all cattle alike in terms of US\$/edible kilogram.

Alex Weir, December 1999 2 Pepper Close Hatfield Harare Zimbabwe Africa Tel 00 263 4 571 062 alexweir@usa.net Note that Don Farris and Greg Sullivan were connected with University Texas A & M Programs on Beef Cattle appraisal in Tanzania in the past, and still have some interest in that area. I enclose their email addresses:

<u>Greg Sullivan - advmktsys.aol.com</u>

Professor Don Farris, Texas A & M - defarris@alpha1.net

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd020.htm

EXECUTIVE SUMMARY

The existing situation regarding the operation of the MIS project in the TLMP was surveyed and reviewed. The MIS was in fact found to be two quite separate projects with similar sampling, data collection and data presentation techniques, but with quite different data input, data storage and data processing methods.

There was found to be a potential wealth of data available, scanning the period 1989 through 1994. This information however was fragmented and (as above) stored in 2 different systems. In relation to the information available, insufficient analysis and reporting had been done (at least as regards the reports made available to me in Moshi, at MDB and at TLMP).

The physical processes of sampling, initial data recording, and secondary data recording was observed at the 3 major markets plus 2 other markets. The various information presentation formats were reviewed.

At the markets visited, both buyers and sellers were interviewed for their opinion of the MIS. Most were indifferent and some were dismissive, stating that the MIS was inaccurate, not timely, and irrelevant.

The 2 computer systems were both examined with regards to data input, data processing, data storage and information presentation.

The fragmented data from both systems was collected together and translated into one single dbase-format database; this was then examined for data quality. The findings pinpointed weaknesses in sampling - the systems were attempting to produce accurate numbers for 15 Grade-Sex Combinations (GSC's) with net sample sizes which were large in terms of the data collection work involved, but which were small in relation to the need without any proper data smoothing technique; to complicate matters, the systems were using

TANZANIA LIVESTOCK MARKETING PR...

population-representative sampling techniques, with a resulting lack of data for many of the 15 GSC's on most market-days.

In order to get more accurate pricing, and to open the possibility for smaller net sample sizes, I recommended that sampling was changed from a population-representative basis to a sex-weight-grade representative basis; the downside of this of course is losing possibly important information on population trends from this point onwards. I feel that the wealth of information unearthed in the 5 year analysis conducted in this report may compensate for this impending loss of population trend information (or may enable specialised focused searches to continue).

This composited data was also examined for seasonal fluctuations and for time trends during the period 1989-1994 in animal weight, animal quality, grade, price, unit price, sex, age, origin, buyer, yardage and number sold. These trends were graphed using Harvard Graphics, and the graphs are presented with this Report. The trends should be of significant use for the overall TLMP Project Team and for any other relevant parties. Of particular interest was the fact that certain producers and traders supplying the Arusha and Moshi markets have over the period 1993 - 1994 greatly increased animal quality in response to market forces and price incentive.

The composited data was also examined to determine whether there were useable practical relationships between price, weight, sex and grade on individual market-days (i.e. a potential for data smoothing). There was found to be a strong exponential relationship between price and edible weight for each sex on each market-day, regardless of grade; this strong relationship was suspected to extend across the sexes to all data points, but the sampling was such that this was difficult to confirm.

From this exponential relationship, a methodology (log-log best-fit - LLBF) was developed for data processing, D:/cd3wddvd/NoExe/.../meister10.htm 301/333

TANZANIA LIVESTOCK MARKETING PR...

which effects data smoothing in a pragmatic way, without making any assumptions that buying or selling behaviour on the current market-day is necessarily influenced by the behaviour last week or last month; this LLBF technique takes into account the non-linear price vs weight relationships, and puts emphasis on live and edible weights (and thus animal quality), with grade taking a smaller (but still important) role than it has up till now.

Because of the non-linear price vs. weight relationships which were observed to occur in practice, I recommended that the presentation format be changed radically from a price per kilo basis to a price per benchmark animal basis; 21 benchmark sex-weight-grade combinations were proposed, based on average values for the 3 markets for the period 1989-1994. I estimate that this type of presentation should also be more understandable and more accepted by our major target group - the buyers and sellers at the 3 major markets.

In addition to the work as above on sampling, data processing and information presentation, it was found that the existing physical systems had weaknesses in initial and secondary data recording, and that both computer systems had weaknesses in data input and in data storage.

Practical and detailed recommendations were made to improve initial and secondary data recording; a computer program was written in Clipper (a 4GL programming language) to improve data input, data storage, data processing (using the LLBF Technique), and data presentation (using the Benchmark Animal Information Presentation Technique).

Recommendations were also made as to which computer hardware and software should be procured for the Project.

Seminars on the findings were conducted for the TLMP staff and training of the Dar TLMP MIS Staff was effected.

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd012.htm





TANZANIA LIVESTOCK MARKETING PR...

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd013.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd014.htm





home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd015.htm Sophia and Alex Weir at Moshi Cattle Market September 1994



TANZANIA LIVESTOCK MARKETING PR ...



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd016.htm Percy Robb, Moshi 1994



TANZANIA LIVESTOCK MARKETING PR...



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd017.htm Alex Weir near Arusha 1994



TANZANIA LIVESTOCK MARKETING PR...



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd018.htm The Dar Info Release Sheet

	1	A CREWN	Real State		COLUMN ST
A Designed Prints		a sector land at			
-					
War i Ist	1-1.	2 8 4 1	6		(Int)
-	The las	-hm-all			1
- Shill I	T.R.	1	17.		W TA
ket situated on the l	Central Rait	- 7km from Tanza	nia - Zambia P	al	1
a Salaam Internatio	anal Airport,	20km from Kurasi	H Port, Dar es	Salaam.	
PARTY JUST 1	PICE L	IVERTOCK KAREET IN	CONTRACTOR .	CATTLE	ana
RECORDED SALES		Marian .		-	-
DER DELIVERSIES	1,151			THE IL	
C21157 A	ATTATES .	IT.VEIGIT IV. FRICE	FRICE, IS		
ITLL	117	154 57,834	1H		1 Same
STITLE	217	217 43,214	211	101	
				1 P. V	21-
ITL	4,440	255 52,19	110	a man il	The state of the s
CDN STITTE	404	203 42, 65	119	THE	
manna	minim	453 30,911		TAN	-
CLADE 7	5,651	232 43,154	168	MER	1. 200
CON	1,115	253 (0, 1)	701		Salt-
**********	3,125	117 41, 121	181	And the second second	- KATT
CEADE 3	1,428	111 17,515	163		
CON	116	179 13,187	180	Ferings -	formal a
ETZER	818	215 17,651	160		Ab. To
CTAINS (311	218 15,119	161	Taxan and the second	THE OWNER
CTV	62 J1	127 11,675	109	THE I	Tit
STERN	279	120 15, 718	161		1
TOTAL	13, 350	213 11.453	321	1	
COV	3,642	248 45,228	115		1 -
STEER.	8,332	250 41,612 257 50,817	205	and the second second	t to
		************	********	Saul -	1 Kar
NAME AND ADDRESS OF	RE FRICES			CONTRACTOR OF STREET	ALC: NO. OF THE OWNER.
	51 32973 Prone:	51 32373 Prone: 2155172519	51 32073 Phone 21551/25191 P.O. Box 9182 wet stuated on the Central Rat- 7km from Tarac is Solarm finemational Arabits of the term for the term is Solarm finemation all Arabits of the term for the term is Solarm finemation all Arabits of the term for the term is Solarm finemation all Arabits of the term for the term is Solarm finemation all Arabits of the term for the term is Solarm finemation all Arabits of the term for the term is Solarm finemation all Arabits of the term for the term is Solarm finemation all Arabits of the term for the term is Solarm finemation all Arabits of the term for the term is Solarm finemation all Arabits of the term for the term fore	51 32073 Phone 2151/25101 P.O. Box 0162 Dar es Galax set stuated on the Central Rat- Two from fancaria - Zamble R solaran formational Angel Control for Carlos - Zamble R solaran formational Angel Control for Carlos - Zamble R solaran formational Angel Control for Carlos - Zamble R RETE TOTAL 114 RETES 107 ELIVER 107 ELIVER FOR CARLES I IFFERMILES INF HELIVERIES 11,153 INF HELIVERIES 11,153 INF HELIVERIES 11,153 INF HELIVERIES 11,153 INF HELIVERIES 11,154 INF HELIVERIES 11,155 INF HELIVER 11,155 INF HELIVERIES 11,155 INF HELIVERIES 11,155 INF HELIVERIES 11,155 INF HELIVER 11,155 INF HELI	51 32979 Phone: 21551725191 P.O. Dor: 9162 Dar: es Galaxm Set intuition: 100 Central Rai:

.....

TANZANIA LIVESTOCK MARKETING PR ... 500 450 100 600 800 500 600 603 800 1,200 1205

300

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd019.htm

Liverenipte prices 1932/14 is fats/htt

fait e

	15km from Dar es	Salaam International Airport, 20km from Kurasini Port, Dar es Salaam.	_
	CITLE CILLES	NAMES OF A LITERICE MARTINESSALESS CAMER CAMER CAMER CAMER	
	Lan-	IN SELITURE U. M.	
	Car and the	7101 1 4.41 257 54,116 118	
	EE I	HILL 511 255 52,177 217 117 117 117 117 117 117 117 117	
	and the second	ULLE 1 1,421 247 44,331 190 ITL 1,421 247 44,331 190 TC 1,421 131 700 40,039 701	
1000	主張でう語	TILE 1,145 237 41,223 141	
		CEADE J 1, 428 223 37,516 149 ETLL (51 215 37,257 155 ETLL (51 17,517 155)	
141		CC 111 111 117 22,741 114 STED 113 115 17,414 114	
		CLUST 4 377 216 15,115 161 HTLL 61 227 31,675 169	
	12、二個	CON 31 180 11,500 115 STELL 279 220 35,778 163	
		10711 11,259 243 48,655 201	
	Contraction of the local division of the loc	1111 1,514 215 14,122 215 1111 1,515 215 41,122 215 1111 1,515 215 41,122 215	
	La caracteria		
		STEAR ROME IN V.OFFALL R.OFFALL BELLIS LEDS	
		600 450 300 600 800 300 800 600 450 800 1,200 350	
Tab 343	Liverenişti prizes ITTL/14 is fabs/hps	Industry Inter Concerning Lange Location	
120 1 388 1 289 1		in both for alling \$1	
250 L 249 L		t fub failais fai failia f.f. frints D. fai failia f.f.	

TANZANIA LIVESTOCK MARKETING PR ...



home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd020.htm



TANZANIA LIVESTOCK MARKETING PR..

Pugu Market situated on the Central Rail:- 7km from Tanzania - Zambia Rail 15km from Dar es Salaam International Airport, 20km from Kurasini Port, Dar es Salaam.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd030.htm

INTRODUCTION

Tanzania has a cattle population of approximately 13 million (for a human population of 27 million). It has potential to be a cattle exporter for the Region.

Annual cattle offtake is estimated to be about 9% per annum, i.e. 1.2 million slaughters per year. Of this 1.2 million, approx 140,000 per year are sold in Dar es Salaam, 30,000 per year in Arusha, and 20,000 per year in Moshi. These 3 markets therefore account for 16% of total offtake/consumption and 1.5% of total herd size/year.

Most cattle production is extensive, relying on natural rainfed grasslands in the semi-arid and arid interior of the country. Cattle are trekked to the markets in Arusha and Moshi, and are mainly trekked to railheads and then railed to Dar es Salaam from locations such as Dodoma. There is a small dairy sector, which provides only a small proportion of the demand for milk, the majority of which is satisfied by imports of powdered

22/10/2011 milk. TANZANIA LIVESTOCK MARKETING PR...

Beef consumption in Tanzania is moderate to low by international standards, being approximately 7.1 kg per person per year (20 grams per person per day).

Cattle prices at these 3 terminal markets varies between market and by season and other factors, but can be taken as a 1994 average of approximately US\$ 100.00 per animal. Thus we total turnover of the 3 major markets is about US\$ 20 million per annum. The other markets trade at lower prices, so we can estimate the total Tanzanian wholesale beef business to be in the region of US\$ 80 million per annum, 1.3 million animals per year, 130,000 tonnes of edible beef per year, 170,000 tonnes of carcase beef per year.

It is reckoned that approximately 115,000 head (11,500 tonnes) per year are unofficially exported, mostly to Kenya. For comparison of export markets, Europe imports approximately 85,000 tonnes of corned beef p.a., the Middle East 40,000 tonnes of corned beef p.a., and the Middle East 250,000 tonnes of live or unprocessed beef p.a..

Over the years since Independence in 1964, and especially since 1974 when Tanganyika Packers corned beef operation was nationalised, the industry has gone downhill in terms of exports, infrastructure, animal disease, animal quality and revenue. Animal health (or lack of it) is potentially a great obstacle to the exports of live animals and of beef to Regional and International markets.

The retail price of beef is in theory a Government Controlled Price, presently for Dar es Salaam in the region of US\$ 1.4/kg for mixed beef and US\$ 2.4 / kg for fillet; wholesale cattle prices are not controlled, and although very variable, are in the region of US\$ 1.00 per kg of edible tissue (meat plus fat), although they vary by market and by season (see graphs and comment in this Report).

The TLMP is a Project worth approximately US\$ 10 million over 5 years. It has inputs in the areas of railway D:/cd3wddvd/NoExe/.../meister10.htm 314/333

TANZANIA LIVESTOCK MARKETING PR...

cattle wagons, slaughter facilities, improvements of cattle markets and other infrastructure, and the cattle pricing (MIS) system.

An existing MIS has been active since 1989, and the recent departure of 2 UNFAO experts who were running operations in Dar and in Moshi/Arusha has made 1994/1995 a useful point at which to review the existing operations and to consider making changes and improvements.

The MIS has 2 dimensions - to assist in the workings of the free market system by providing information on which producers, traders, buyers and sellers can base their decisions and behaviour; and also to assist Ministry of Agriculture and other interested parties by providing information regarding trends in the cattle business.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd040.htm

EXISTING SITUATION

The MARKETS

Cattle Markets in Tanzania do not use the auction system - they operate using a system of private deals, where sellers turn up with their cattle and stand around while buyers and potential buyers move from seller to seller, negotiating and making deals.

This, especially in the absence of a good Market Information System, will probably lead to a greater variability in price than would be the case with an auction system.

Note also that with an auction system, it is relatively easy for any observer to quickly build a picture of prices and values; with a private-deal system, however, there is much less transparency, and thus some kind of

TANZANIA LIVESTOCK MARKETING PR ...

Market Information System is much more necessary.

Much of the selling in Arusha and Moshi is done by the Masai; much of the buying in all 3 markets is done by Islamics, Arabs and/or Somalis. Everything is done using cash, in Tanzanian Shillings as far as can be determined; sometimes deals are done on a credit basis, when buyer and seller are known to each other, and cattle are handed over today on a promise of cash in 7 days time or less.

There is a reasonable level of provision of food, drink and other goods at all 3 markets, especially at Themi. This is done by private traders, who as far as I could determine were not levied for being at the market.

All of the markets had no electricity or human sanitation. All had primitive slaughter slabs which were used from time to time. All 3 had a single weighing scales (spring balance type) with cattle crushes, and some cattle pens. Dar had a fence around the market area, but neither Themi nor Weruweru had any fence.

There is a distinct lack of infrastructure at markets regarding drinking water and fodder for cattle; therefore there is distinct pressure on sellers to sell their cattle if possible on the same or next day as the cattle arrive at the market. This arrival can also of course come at the end of a gruelling trek or a gruelling rail trip with little or no water or food in either case.

Another infrastructural consideration is that there is little or zero provision within Tanzania for the cold storage or frozen storage of beef - i.e. most beef is sold within a short time period of being slaughtered.

Furthermore, there are few or no urban feedlots for the fattening or holding of cattle before slaughter.

Thus there are few factors to cushion supply and demand for beef.

The overall result of these factors is that, especially in a large urban market such as Dar, there can be a high

TANZANIA LIVESTOCK MARKETING PR...

variability in the wholesale price of cattle from day to day, depending on the arrivals situation.

For the record, the Dar Pugu market depends almost totally on arrivals by rail, and operates effectively 7 days a week; the Themi Arusha market operates only on Fridays, and the Weruweru Moshi market operates only on Tuesdays. Approximate volumes are 400/day (2800 per week) for Dar, 350 /week for Moshi and 600/week for Arusha, but seasonal variations are sizeable. See graphs later for information.

All 3 markets are at the moment run by the Ministry of Agriculture. There is a levy of approximately US\$ 1.00 per animal sold (regardless of sex, weight, or grade), or a movement fee of approximately US\$ 0.15 per head for animals which are unsold. Because of this situation, there is some temptation for the number sold to be understated by the records (see more discussion below); however, because the tax or fee is independent of animal price, weight or grade, then at least there is no temptation to distort declaration of those values. This sales levy amounts on average to about 1% of animal value (with an average animal value of US\$ 100-00).

The ledger record-keeping system at the 3 markets vary slightly, with Dar having the best system. See the appendix on market visits for details.

The slaughter fee at Government or private abattoirs is in the region of US\$ 1-00 per animal, or about US\$ 0.01 per kg of edible meat.

It must be emphasised that pricing of wholesale live cattle is a complex business, far removed from the much simpler business of crop pricing for most crops, where there may be a few grades and qualities - for cattle there are 3 sexes (steers, cows and bulls), 5 grades in the current Tanzanian system, and a range of liveweights from probably 160 kg through 350 kg.. The previous 2 systems produced average prices per kg liveweight for each of the 3 sexes and each of the 5 grades, i.e. for 15 Grade-Sex Combinations (GSC's).

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd050.htm

TANZANIA LIVESTOCK MARKETING PR...

EXISTING SITUATION - The MIS System

The MIS was in fact found to be two quite separate projects (each with a different UNFAO expert attached) with similar sampling, data collection and data presentation techniques, but with quite different data input and data processing methods.

People.

One of these projects had run in Dar es Salaam for the Dar Pugu market, with the supervisor being Jim Airey; the other had run in Moshi for the Moshi Weruweru market and the Arusha Themi market, with the supervisor being Martin Doran. Airey was active 1989 through August 1994, and Doran was active approx 1992 through December 1993. Both had statistical backgrounds, and both were working for UNFAO, with their immediate supervisor being based in Dar es Salaam. Airey operated from the Marketing Development Bureau in Dar, whereas Doran operated from the RDD offices in Moshi. To complicate matters, the Tanzanian counterpart to Airey, James Bokella, left for long-term study in the UK 7 days after I arrived on the Project (he has been replaced by Mr Kadigi). The Moshi and Arusha counterparts, Mr Swai, Mr David Kilimba, and Mr Ali Semajaila, are still on the Project.

Documentation.

There was little documentation on the computer systems, and also little documentation on the sampling, data collection, data input, data processing, and

data presentation. There were some sections of other documents which produced numbers and statistics from the MIS programs, e.g. as regards trends in yardage, sales, grade and price with seasonal and year-to-

TANZANIA LIVESTOCK MARKETING PR...

year changes, but the last of these had been done in 1992 (These are listed and reviewed in the appendix of visits and discussions). There was a 4 page xeroxed users' manual for the Dar es Salaam computer system, which covered the practicalities of operation only. No documentation has ever yet been found on the 'Marker' system which was used to smooth data for the Dar computer system.

Raw Data

The original data recording sheets were as far as can be determined all available for use - the Dar data (and some data for Korogwe) at the Dar MDB Office, and the Arusha and Moshi data at the Moshi RDD Office.

The processed weekly and monthly reports were also all available at the same locations.

Raw data existed for Dar for the period 1989 - 1994, with some gaps, and for Moshi and Arusha for the period 1992 - 1994, again with some gaps. Sometimes the gaps were due to rains when it was physically impossible to get to the market sites using motorbike.

Computer Data

The computer files with the computer raw data and the computer processed data were found in the Dar MDB Office and the Moshi RDD Office on computer hard discs and on computer floppy discs. These were relatively complete for the Moshi and Arusha data, but with a few gaps for the Dar data. The gaps in the Dar

TANZANIA LIVESTOCK MARKETING PR...

data may be due to the theft of a notebook computer in 1993 from the MDB Office, for which insufficient or no backup discs existed. If it is required now or in the future, and if it is considered necessary and economic, then the missing data could be reinput from the raw paper records. This applies also to some gaps in the Moshi and Arusha data.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd060.htm

AIMS, GOALS AND OBJECTIVES OF THE MIS AND OF THE MIS IMPROVEMENT PROGRAM

AIMS

To improve the management information system which provides information to cattle buyers, cattle sellers, researchers, and the Ministry of Agriculture; the objective of this information provision is to help create a cattle business in Tanzania with higher turnover and higher profitability; and also to help provide the consumer with more better quality beef at a lower price; also if possible to encourage a live cattle or fresh, frozen, canned or otherwise preserved beef export business.

GOALS

1. To maximise information usefulness in terms of accuracy, timeliness

and relevance.

2. To minimise the amount of field and desk work required to

TANZANIA LIVESTOCK MARKETING PR...

produce this accurate, timely and relevant information.

3. To present information in a format or formats most useful to

buyers, sellers and researchers.

4. To enable the production of this information by privatised

organisations.

OBJECTIVES of Current MIS Study

1. To present historical information for the 3 major cattle markets in ways to show time trends and seasonal fluctuations in price, grade, weight, age, sex distribution, etc.. To analyse these trends and fluctuations so as to advise export and domestic buyers and domestic sellers as to how to improve their business; to find good production trends and to learn from smart producers with a viewpoint of educating other non-improving producers; to find bad trends and to try to counter these.

2. To examine the 2 existing computer processing systems and if necessary to create a 3rd new computer system to supplant the existing 2 systems. If so, to port over or translate the information in the 2 existing systems to enable future historical analysis of a combination of pre-October 94 and post-October 94 data.

3. To examine the methodologies used so far by the 2 systems to analyse the data. If these appear

TANZANIA LIVESTOCK MARKETING PR ...

inadequate, to examine the data and to come up with a new methodology which is superior to the previous and which appears capable of handling present and future types of data; the prime aim of the methodology should be to produce sufficiently accurate information with the minimum of sample size; it will probably utilise averaging or best-fit techniques, and may have provision to identify and discard bad data points.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd070.htm

THE MIS Activity

In brief, the activity consists of the following interrelated components:

- sample selection

- initial recording, covering weighing, grading, sexing, aging, numbering, and logging location of origin; also yardage and number sold for the market-day in question

- secondary recording, covering pricing and the logging of buyer ID
 - data input to the computer system
 - data processing within the computer system
 - information reporting from the computer system, presentation, and dissemination

All these areas of activity were examined, and substantial room for improvement was found in all the areas.

TANZANIA LIVESTOCK MARKETING PR...

Each of the above 6 areas is covered in the following sections, detailing present practices, and including for most of the 6 detailed recommendations for improvement. I do not present them in activity sequence, choosing to cover information presentation and dissemination first, since that is the Final Product or Service of the MIS activity; any recommendation to modify this Product or Service may impact back on the other production activities.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd080.htm

INFORMATION REPORTING, PRESENTATION AND DISSEMINATION

The Product - present practice.

The whole exercise at the moment is oriented towards producing average prices per liveweight kilo for each of 15 cattle grade-sex combinations (GSC's) (Bulls, Steers and Cows, grades 0-4 inclusive). This is done on a weekly and again on a monthly basis. Additionally, the system produces an estimate of the number of animals, average weight and average price for each grade and sex of animal.

The weekly information for Dar es Salaam (only) is put out on national radio in Swahili (this is charged for rate not known to me); it is also given to several English language newspapers, of which only the Daily News (the Government newspaper) publishes the information. No file of newspaper cuttings or radio transcripts is kept by either MDB or TLMP at the moment. About 30 copies of the weekly report are disseminated.

The weekly information for Moshi and Arusha markets is express-mailed to MDB Dar es Salaam by the Moshi RDD Office; it is filed there.

The monthly report for Dar es Salaam (only) is mounted with a small line map of Tanzania; a small table of current exchange rates of Tanzania Shilling against US Dollar, Zambian, Malawian, Mozambiquan, Ugandan

TANZANIA LIVESTOCK MARKETING PR...

and Kenyan currencies; a small rolling 12 month line graph of average price for all grades and sexes in Tanzanian Shillings; a colour photograph heading of the Dar es Salaam Pugu Market, and a colour representation of the 5 grades in the grading system used in Tanzania. This montage is colour photocopied about 20 times at a cost of US\$ 2.40 per copy, and those 20 reports are airmailed to mainly Middle-Eastern dealers and Middle-Eastern Tanzanian High Commissions, with the intention of stimulating export sales of live animals by sea or air.

An Annual Report for Dar (only) gives a 12 month summary with numbers sold each month by grade and by sex (but NOT by grade-sex combination), with average weights by grade and by sex (but NOT by grade-sex combination), and with average price per liveweight kg (in current non-inflation-adjusted Tanzanian Shillings per kg) by grade and sex (but NOT by grade-sex combination).

There are Information Blackboards at each of the 3 major markets on which price information can be displayed, but none of these are used.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd090.htm

Perception of the Product by the Users.

I held several interviews at each of the markets visited. Most of the users or potential users were indifferent to or dismissive of the MIS program. Typical reasons for not using the MIS were:

- the prices are out of date by the time they are issued
- the prices are inaccurate (usually the prices are too low)

One buyer commented 'It is a complete waste of time'.
TANZANIA LIVESTOCK MARKETING PR ...

In general, buyers and sellers were much more concerned about the very erratic rail situation (at Dar), and about the lack of water and fodder for their cattle.

My Comment on the Product

- users are indifferent or hostile
- numbers are considered as inaccurate or are just badly presented

- information should be displayed at the markets themselves, where the majority of the potential users are

- information should be input, processed and displayed within hours of

collection; this obviously would involve data input and reporting atthe market

the markets themselves

- present information displays have too many numbers - for 99% of users the figures for numbers, average weight and average price are of no interest and should be dispensed with.

- graphical information display should be considered in addition to tabular

- Arusha and Moshi markets are being ignored, and there is little or no analysis between different markets

- there is too little market analysis over time D:/cd3wddvd/NoExe/.../meister10.htm TANZANIA LIVESTOCK MARKETING PR ...

- information display for average price of representative animals with a benchmark sex, weight and grade should be considered, instead of the present system of price/kg; this is more understandable to non-statistical or non-mathematical people.

- for export market reports, tabular and/or graphical information should be presented in the target currency or in US Dollars, NOT in Tanzanian Shillings; this is particularly important for price variations with time, where the Tanzanian inflation rate makes information meaningless

We should be trying to get over the following indices for any and every market-day:

- one absolute number which indicates whether prices are high or low
 - an indication of premiums (if any) for higher grades and discounts for lower grades
- an indication of whether the variation with sex is normal or abnormal
- an indication of yardage and number sold
- an indication of the variability of deals within that market-day

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd100.htm

PRESENTATION - THE BENCHMARK ANIMAL APPROACH D:/cd3wddvd/NoExe/.../meister10.htm 1. The historical data 1990 - 1994 was processed in terms of average weight for each grade-sex combination, and the following benchmarks are proposed:

Steer Grade 0 - 350 kg

Steer Grade 0 - 310 kg

- Steer Grade 1 275 kg
- Steer Grade 2 240 kg
- Steer Grade 3 230 kg
- Steer Grade 4 220 kg
- Steer Grade 4 160 kg
- Bull Grade 0 350 kg
- Bull Grade 0 310 kg
- Bull Grade 1 275 kg
- Bull Grade 2 240 kg

D:/cd3wddvd/NoExe/.../meister10.htm

22/10/2011 Bull Grade 3 - 230 kg	
Bull Grade 4 - 220 kg	
Bull Grade 4 - 160 kg	
Cow Grade 0 - 275 kg	
Cow Grade 0 - 230 kg	
Cow Grade 1 - 220 kg	
Cow Grade 2 - 200 kg	
Cow Grade 3 - 190 kg	
Cow Grade 4 - 180 kg	
Cow Grade 4 - 160 kg	

TANZANIA LIVESTOCK MARKETING PR...

Note that the above weights may be considered low for Arusha, high for Dar, and about right for Moshi; the intention in choosing is however of course so that inter-market comparison can be carried out, as well as intra-market and inter-market comparison over time...

TANZANIA LIVESTOCK MARKETING PR...

Note that 7 data points are chosen for each sex - an average weight for each grade (from our data 1989-94) plus 2 extremes at high and low weights.

Note that for concise reporting presentation, the average prices for Steer Grade 1 275 kg, Bull Grade 1 275 kg and Cow Grade 2 200 kg should probably be quoted, again based on average frequency for the 3 major markets on a historical basis 1990 - 1994.

2. Note that the intention is that a WEEKLY report should quote for

all 3 major markets.

Numbers will probably be quoted to the nearest 100 Tsh for a domestic report, and to the nearest US\$ 0.10 for export reports, but this may be modified to the nearest 1000 Tsh and nearest US\$ 1.00.

Whether TLMP attempts to monitor Dar 5,6, or 7 days a week is debateable, and depends largely on findings of sample sizes required for reasonable accuracy and also of course on stability of behaviour, especially on the apparent price relationships between steers, bulls and cows over time (this is analysed and commented on below); also on yardage fluctuations and demand fluctuations.

3. Note that as the TLMP Market Information System starts to be accepted and even referred to by buyers and sellers, then that in itself should be a stabilising influence on price behaviour (within the framework of a possibly unstable rail supply situation prevailing at Dar es Salaam).

22/10/2011 TANZANIA LIVESTOCK MARKETING PR... home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd110.htm

OVERVIEW of the SAMPLING, INITIAL AND SECONDARY DATA RECORDING ACTIVITIES

The objective of the above 3 activities is to record sex, weight, grade and price for a sufficient sample size of cattle. The weighing in particular is a labour-intensive operation (which may involve as much as 3 minutes per animal with up to 5 people being required). The conventional way of doing this is to use a combination of Market Organiser and Seller's manpower to organise and perform the weighing, which takes place usually before the trading starts. This technique also requires that the weighed animals are marked with a Temporary Recognition Number (TRN) so that after sale the buyer can be approached to find the price which he paid for that particular animal.

An alternative technique which should be very strongly considered is to encourage self-weighing - where the buyer and/or the seller weigh the animal themselves and declare the weight and price to the recorder; the recorder can then quickly also note the sex and grade. This technique eliminates the labour requirement for the weighing staff and also eliminates the TRN application.

It may be necessary to go through an interim phase of course in order to produce accurate and useable Market Price Information; once the buyers and sellers are persuaded that the data processing system is producing reliable and useful information, they should have a strong interest in contributing towards that system, by conducting self-weighing.

Note that most but not all of the 3 following sections on Sampling, Initial Recording and Secondary Recording would be nullified if this self-weighing concept is implemented. I very strongly recommend that the self-weighing concept is explored.

home.cd3wd.ar.cn.de.en.es.fr.id.it.ph.po.ru.sw Misd120.htm

D:/cd3wddvd/NoExe/.../meister10.htm

22/10/2011 SAMPLE SELECTION

TANZANIA LIVESTOCK MARKETING PR...

Present Practice

The rule up till now at the 3 major markets is that the data collectors must try to ensure that the sample is representative of the total population in terms of grade and sex.

Beyond that, approximately 6% of the population is sampled at Arusha, 8% at Moshi, and 3% at Dar. At Moshi and Arusha, actually 6% and 8% of each market-day is sampled, whereas for Dar (where there are up to 7 market-days per week), then usually only 2 market-days per week are actually sampled; the sample for those 2 market days is thus approximately 10%. For Dar, the rules are actually quite loose, and so long as approximately 100 animals are sampled per week, regardless of the numbers per day or the number of days, then the requirements are regarded as met. Note that these 6%, 8% and 3% samples referred to above are equivalent to 50, 30 and 40 animals respectively per market-day.

The sampling procedure at all 3 sites is that a group of cattle is identified, and then 20% of those cattle are taken for weighing etc etc.. At Dar, in theory at least, the group of cattle are physically driven through a crush and literally 1 in 5 is stopped and weighed etc.; the intention of this very work-intensive method is that a random 20% sample is obtained.

Note that the numbers above refer to NET sample - animals for which both initial and secondary data is available - i.e. weight AND price - for a percentage of animals weighed the price cannot for various reasons be obtained (more below).

The table below (9.2.95-1) shows average gross and net sample sizes for the 3 major markets for the period 1989 - 1994. It appears that 60% is a reasonable conversion factor in practice for gross to net sample. It appears also that 100 animals per market-day is a reasonable maximum gross sample for a once-per-week

D:/cd3wddvd/NoExe/.../meister10.htm

TANZANIA LIVESTOCK MARKETING PR...

market, and 70 animals per market-day is a reasonable maximum gross sample size for an every-day-perweek market (based on there being only a single weighing scale at the market).

	Weight > 0	Wt&price>0	Market-days	Avg Net Sample	%net/gross sample
Arusha 94	2632	1668	25	67	63%
Arusha 93	3731	1751	35	51	47%
Arusha All	9483	4863	97	50	51%
Moshi 94	1795	1051	22	48	59%
Moshi 93	2535	1260	32	39	50%
Moshi All	8001	3676	118	31	46%
Dar 94	5361	3551	80	44	66%
Dar 93	937	650	21	31	69%
Dar All	17376	10344	282	37	60%

TANZANIA LIVESTOCK MARKETING PR...

Table: Net Samples Sizes and Net/Gross Sample Size Conversion Ratios by Market and Time.