



TOBACCO INDUSTRY AND MARKETING BOARD

ANNUAL STATISTICAL REPORT

2018

Our Vision

“To be the icon of excellence in the production and marketing of Zimbabwe flavour tobacco”

Our Mission

We timely mobilize and distribute requisite resources, develop and operate efficient orderly marketing and information systems which satisfy the expectations of all stakeholders

Our Values

Vision

Commitment

Teamwork and Cooperation

Integrity

Customer orientation

Accountability

Tobacco Industry and Marketing Board

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EXECUTIVE SUMMARY

i. Growers

The number of registered growers increased from 98 927 in 2017 to 145 725 in 2018. Of these registered growers, 40 894 were new. Active tobacco growers who delivered tobacco this year also rose by 43% from 97 066 growers who delivered in 2017 to 140 895 growers in 2018. In 2018, the percentage of active growers to registered growers stood at 97% compared to 98% for 2017

ii. Sales

The season completed in 119 days which is 11 days shorter than the number of selling days in the prior year. The 2018 volume (253 million kg) was 33% higher than previous year's and revenue realized rose by 32% to \$737 million. Average price per kg dropped from \$2.95 in 2017 to \$2.92 in 2018.

ii a Auction sales

Tobacco Sales Floor (TSF), Boka Tobacco Floors (BTF), and Premier Tobacco Floor (PTF) were the three auction floors that were licensed to operate in the year 2018. All auction sales were centralized in Harare. The three auction floors jointly sold 36 million kg over a period of 89 working days. Auction sales for 2018 rose by 15% compared to the year 2017. The 2018 average auction price fell to \$2.73/kg, from \$2.84/kg which was attained in 2017. A total of 31 228 growers sold their crop at auction floors. Auction tobacco sales accounted for 14% of 2018 total tobacco sales.

ii b Contract sales

Contracted tobacco production rose to 217 million kg at an average price of \$2.95/kg. The previous season recorded 157 million kg at an average of \$2.98/kg. Contract tobacco sales accounted for 86% of the 2018 total tobacco sales. Thirty contractors were licensed by TIMB for the 2018 season and 109 667 contracted growers successfully delivered their crop.

iii Exports and Imports

iii a Exports

Tobacco exports in 2018 rose to 184.2 million kg from 182.4 million kg achieved in 2017. However, Chinese tobacco market share dropped to 32% from the previous year's 42%. Total 2018 export proceeds amounted to \$914.3 million while \$904.4 million was realised from 2017

exports. The export average price remained at \$4.96/kg for 2017 and 2018. Far East dominated the 2018 exports by 47% followed by Africa (24%) and European Union (13%).

iii b Imports

Tobacco imports increased to 12.2 million kg from 5.8 million kg in 2017. More than 50% of the total 2018 imports came from Zambia.

SECTION 1

1. Grower statistics

1.1 2018 Registered growers

Registered tobacco growers increased from 98 927 in 2017 to a total of 145 725 in 2018. This is an overall increase of 47 % in grower registrations. The highest being communal farmers, constituting 50% of the total number of registered growers.

Table 1.1: Registered growers by grower sector

SECTOR	2016/17	2017/18	% Change
A1	38,103	54,282	42%
A2	7,658	9,641	26%
Communal	46,621	73,378	57%
Small Scale Com	6,545	8,423	29%
Total	98,927	145,725	47%

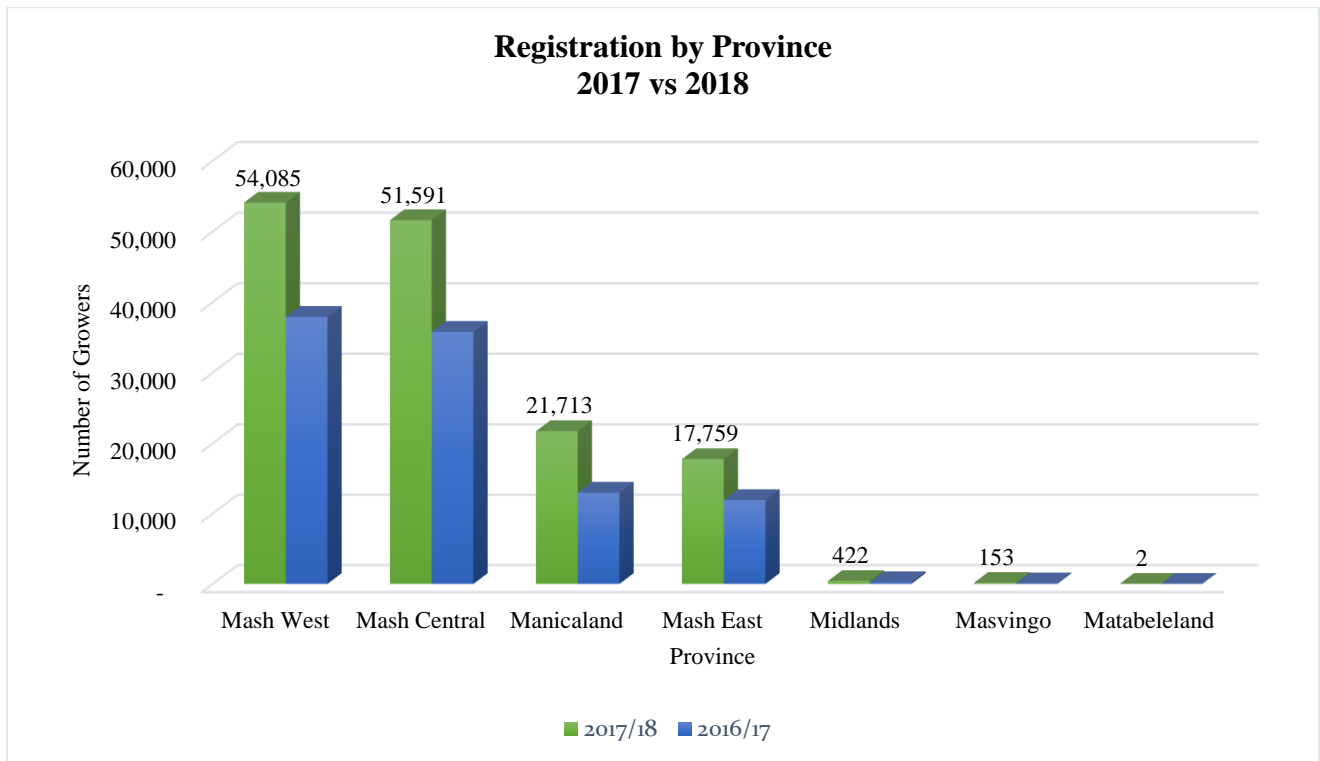


Figure 1.1: Grower registrations by province

Mashonaland West recorded the highest number of grower registrations, maintaining a share of 37% from the total registered growers. Mashonaland Central, Manicaland and Mashonaland East provinces had 35%, 15% and 12% share respectively.

Active growers who delivered tobacco at various selling points were 140,895. In 2017 season, a total of 97,066 growers successfully sold their tobacco. About 31,228 growers (22%) sold their tobacco through auction floors while the remaining 109,667 growers sold through contract.

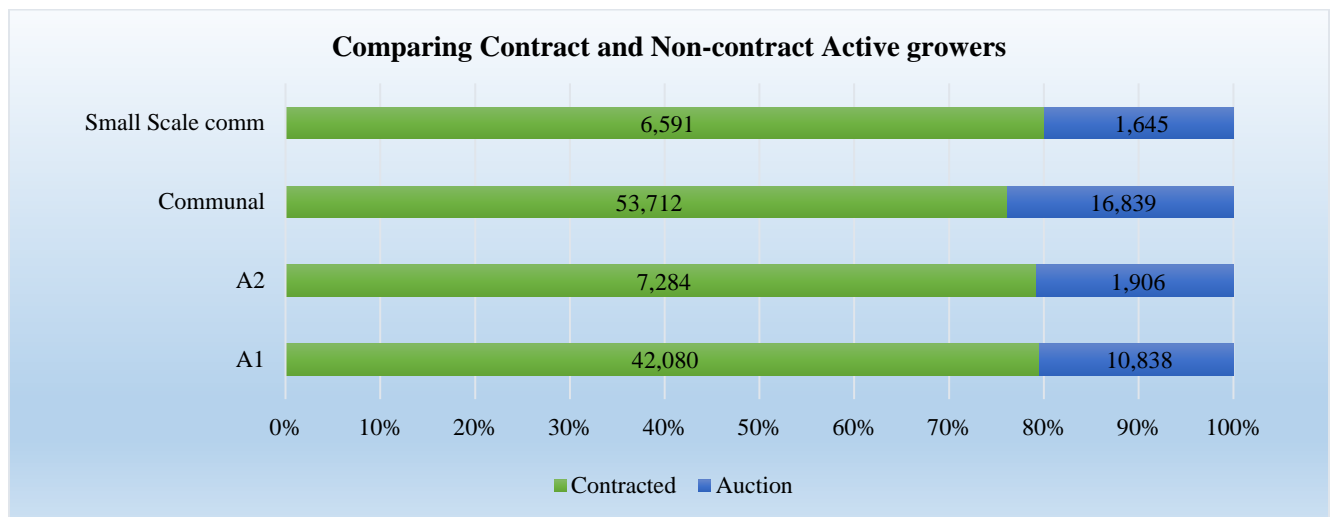


Figure 1.2: Contract and non-contracted active growers

SECTION 2

2.0 Marketing

2.1 Auction summary

Tobacco Sales Floor (TSF), Boka Tobacco Floors (BTF), and Premier Tobacco Floor (PTF) were the three auction floors that were licensed to operate in the year 2018. Thirty seven (37) “A” class buyers were licensed to buy tobacco on the auction floors. A total of 36 million kilograms of tobacco was sold through the auction floors and this accounted for 14 % of total production. Seasonal auction average price was \$2.73/kg compared to \$2.84/kg in 2017. The highest price paid on auction floors has remained \$4.99/kg for the past 6 years. The graph below shows auction market share trend. Auction system traded 89 days compared to 86 days in 2017 marketing season.

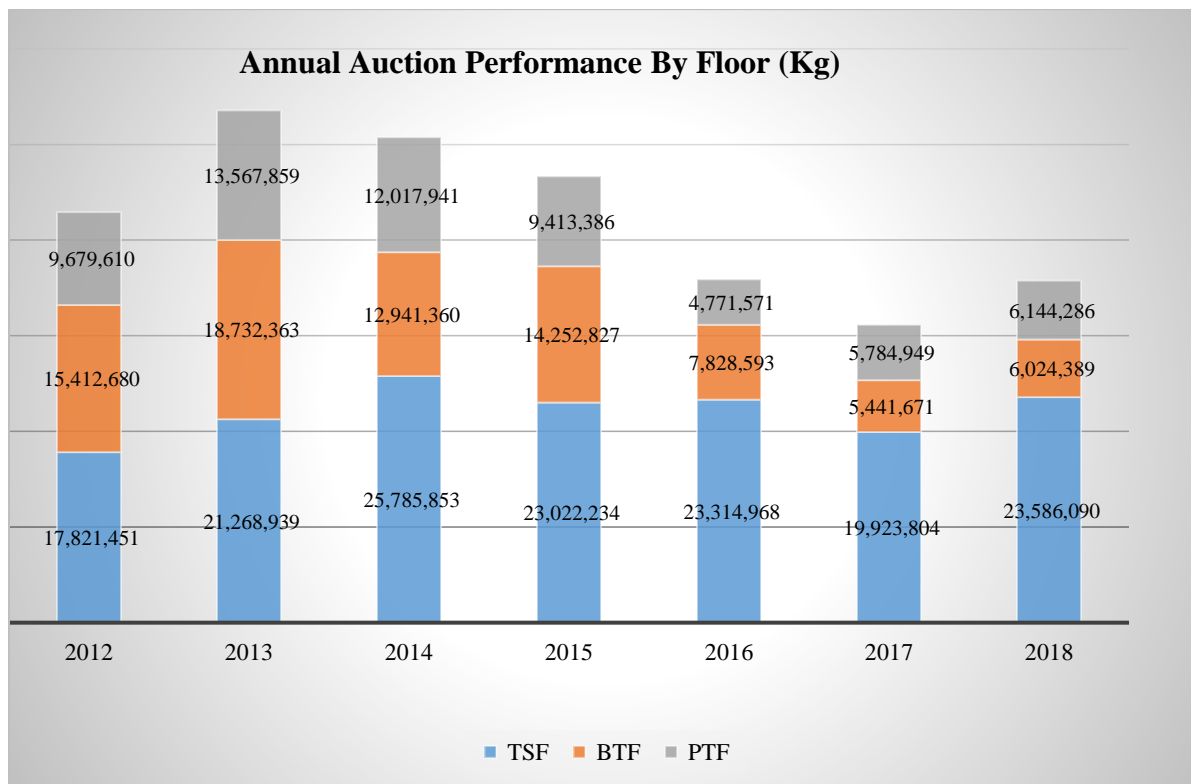


Figure 2.1: Auction floors performance

2.2 Contract purchases

The thirty merchants who were licensed to contract collectively purchased a total of 217 million kilograms. This contributed 86% to the total national production, a 38% increase from last year's production. The 2018 seasonal average contract price at \$2.95/kg was 3 cents lower than 2017 price. The highest price achieved at contract sales recorded was \$6.25/kg.

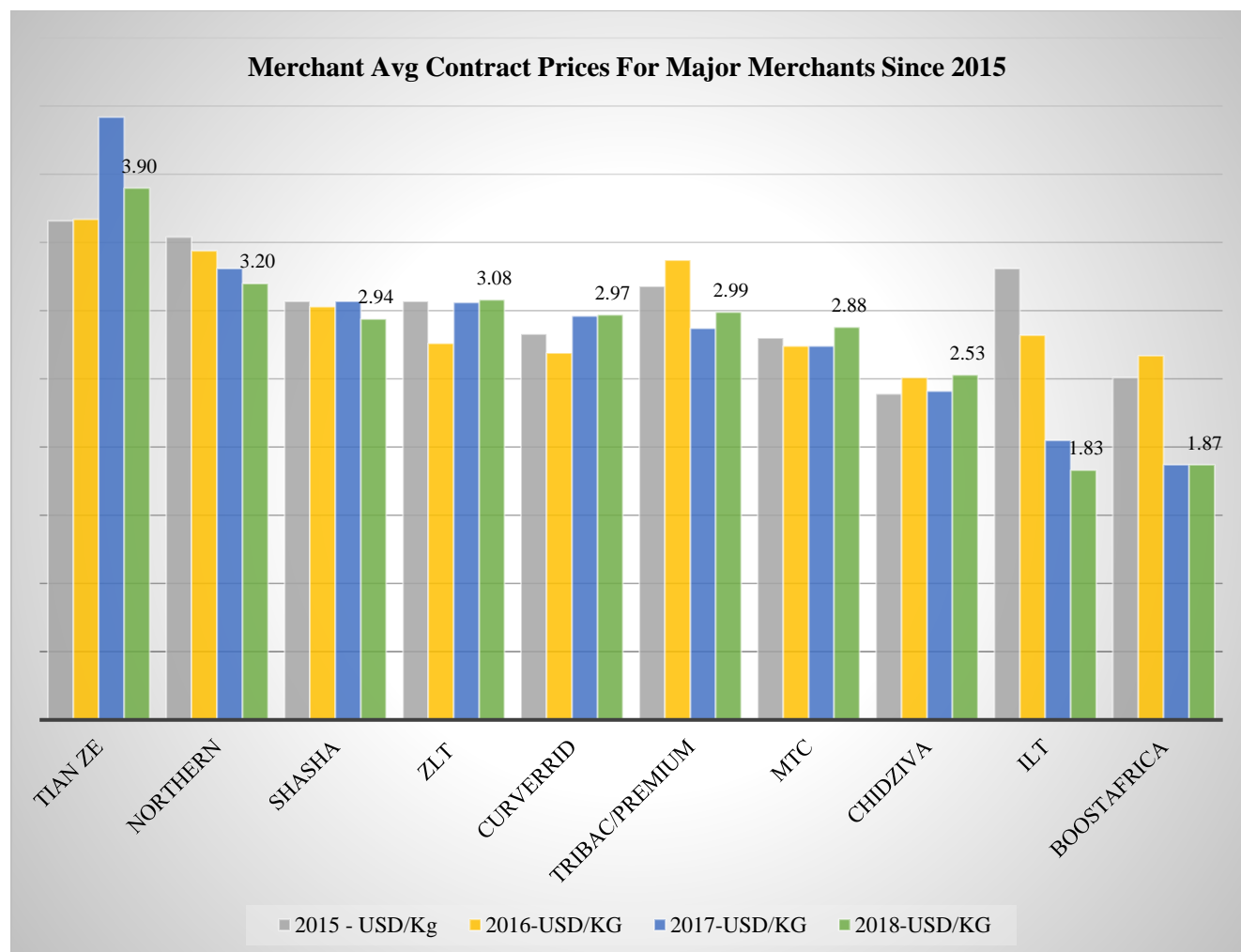


Figure 2.2: Contract sales average prices since 2015

2.3 Contracted number of growers by sector and merchant for 2017/2018 growing season.

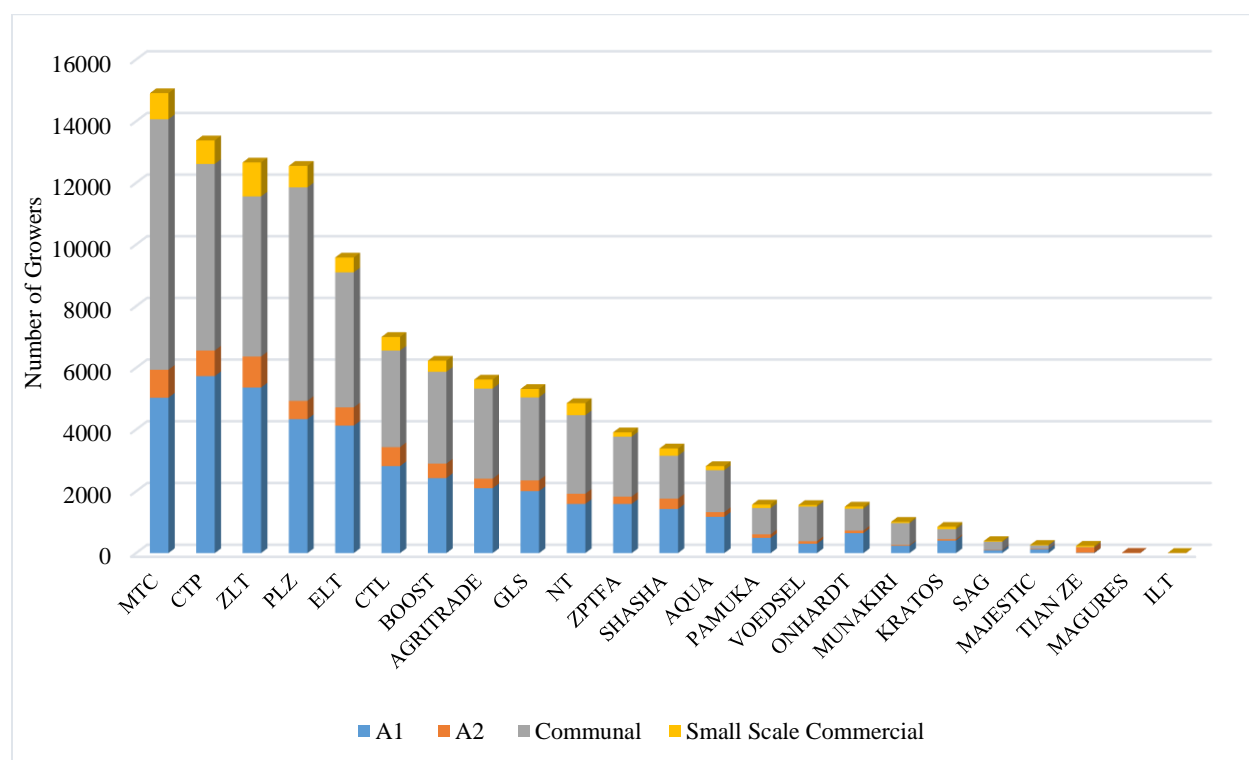


Figure 2.3: Contracted growers by merchant and grower sector

2.4 Merchants' purchases

Zimbabwe Leaf Tobacco had the highest market share of 13 % while Victory Service had the least share of <0.03%. Only five (5) merchants had a market share of 5% and above.

Table 1.2: Merchants purchases

Merchant	Auction purchases		Contract purchases		Total purchases		Market share (%)
	Mass (kg)	Avg. Price	Mass	Avg. Price	Mass	Ave. Price	
ZIMBABWE LEAF TOB.	6,095,449	3.3	27,455,572	3.08	33,551,021	3.12	13.28%
NORTHERN TOB.	-	-	31,811,638	3.2	31,811,638	3.2	12.59%
MASHONALAND	645,574	3.16	28,908,904	2.88	29,554,478	3.79	11.70%
PREMIUM	1,833,786	2.04	22,662,815	2.99	24,496,601	2.92	9.70%
TIAN ZE	3,138,660	3.68	20,195,214	3.9	23,333,874	3.87	9.24%
CTP	-	-	14,770,284	2.53	14,770,284	2.53	5.85%
CURVERID	-	-	13,518,142	2.97	13,518,142	2.97	5.35%
INTER-CONTINENTAL	4,546,948	2.4	5,790,079	1.83	10,337,027	2.08	4.09%
ETHICAL LEAF	-	-	9,591,464	2.7	9,591,464	2.7	3.80%
GOLD LEAF	-	-	8,019,824	2.95	8,019,824	2.95	3.17%
SHASHA	-	-	6,320,471	2.94	6,320,471	2.94	2.50%
BOOSTAFRICA	417,694	13.93	5,817,796	1.87	6,235,490	2.68	2.47%
COUNRTY AGRO	6,014,086	2.08		-	6,014,086	2.08	2.38%
VOEDSEL ENT.	1,850,395	2.56	3,886,045	2.72	5,736,440	2.66	2.27%
PAMUKA	2,760,091	2.62	1,959,414	2.55	4,719,505	2.59	1.87%
ZPTFA	-	-	4,429,365	2.58	4,429,365	2.58	1.75%
AGRITRADE	-	-	3,756,256	2.33	3,756,256	2.33	1.49%
ACHIEVERS LEAF TOB.	3,602,047	3.2		-	3,602,047	3.2	1.43%
AQUA	-	-	3,048,261	2.65	3,048,261	2.65	1.21%
ONHARDT	-	-	1,424,847	2.53	1,424,847	2.53	0.56%
MAJESTIC TOB.	1,012,258	3.02	381,730	2.46	1,393,988	2.87	0.55%
VISION LEAF	1,358,907	3.13		-	1,358,907	3.13	0.54%
MAGUIRES	-	-	1,070,807	2.91	1,070,807	2.91	0.42%
TORRY BLUE IN.	953,724	2.34		-	953,724	2.34	0.38%
KRATOS	-	-	893,885	2.72	893,885	2.72	0.35%
MUNAKIRI	-	-	801,042	2.41	801,042	2.41	0.32%
SUB SAHARA	790,372	1.74		-	790,372	1.74	0.31%
SAG	-	-	334,631	2.55	334,631	2.55	0.13%
SERVEMOX INV	270,239	2.2		-	270,239	2.2	0.11%
DEPLAAT INVESTMENTS	173,856	3.98		-	173,856	3.98	0.07%
NORTON LEAF	175,297	2.39		-	175,297	2.39	0.07%
BULLULION LEAF TOB.	74,394	2.06		-	74,394	2.06	0.03%
VICTORY SERVICES	84	2.7		-	84	2.7	0.00%
AMAZON TOBACCO	1,835	2.54		-	1,835	2.54	0.00%
TOTAL	35,710,325	2.73	216,848,486	2.95	252,603,251	2.92	100 %

SECTION 3

3.0 Burley sales update

There were no burley sales for the 2017/18 season. The last burley production was in the 2013/14 season and the production stood at 22 654 kg. Lack in production is attributed to lack of ready local buyers.

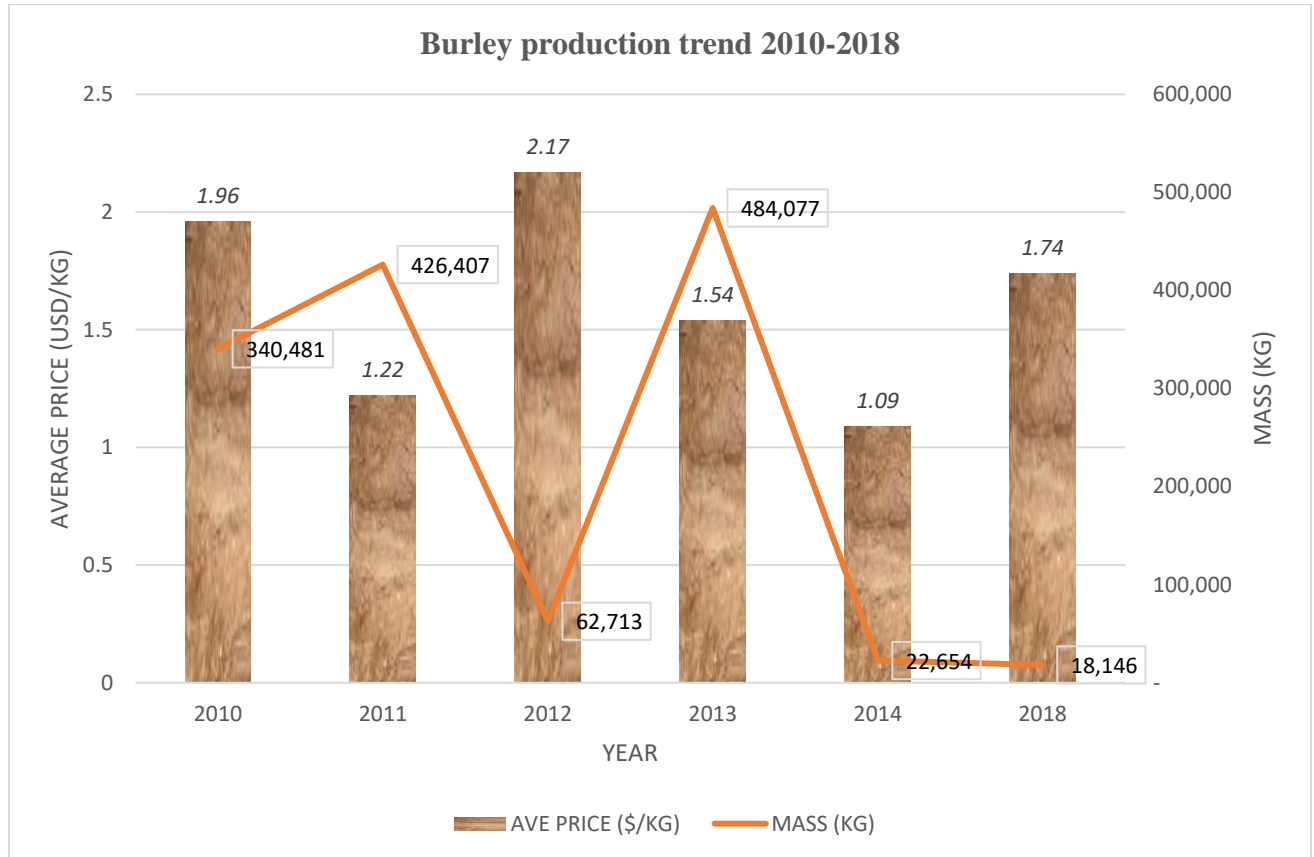


Figure 3.1: Burley production and average prices

SECTION 4

4.0 Dark air cured tobacco sales

Dark air tobacco production for 2018 was 22,192 kg averaging \$2.18/kg, compared to 22,102kg at \$2.26/kg in 2017. Twenty three (23) farmers grew this tobacco type in Burma Valley and the tobacco is used as cigar wrapper.

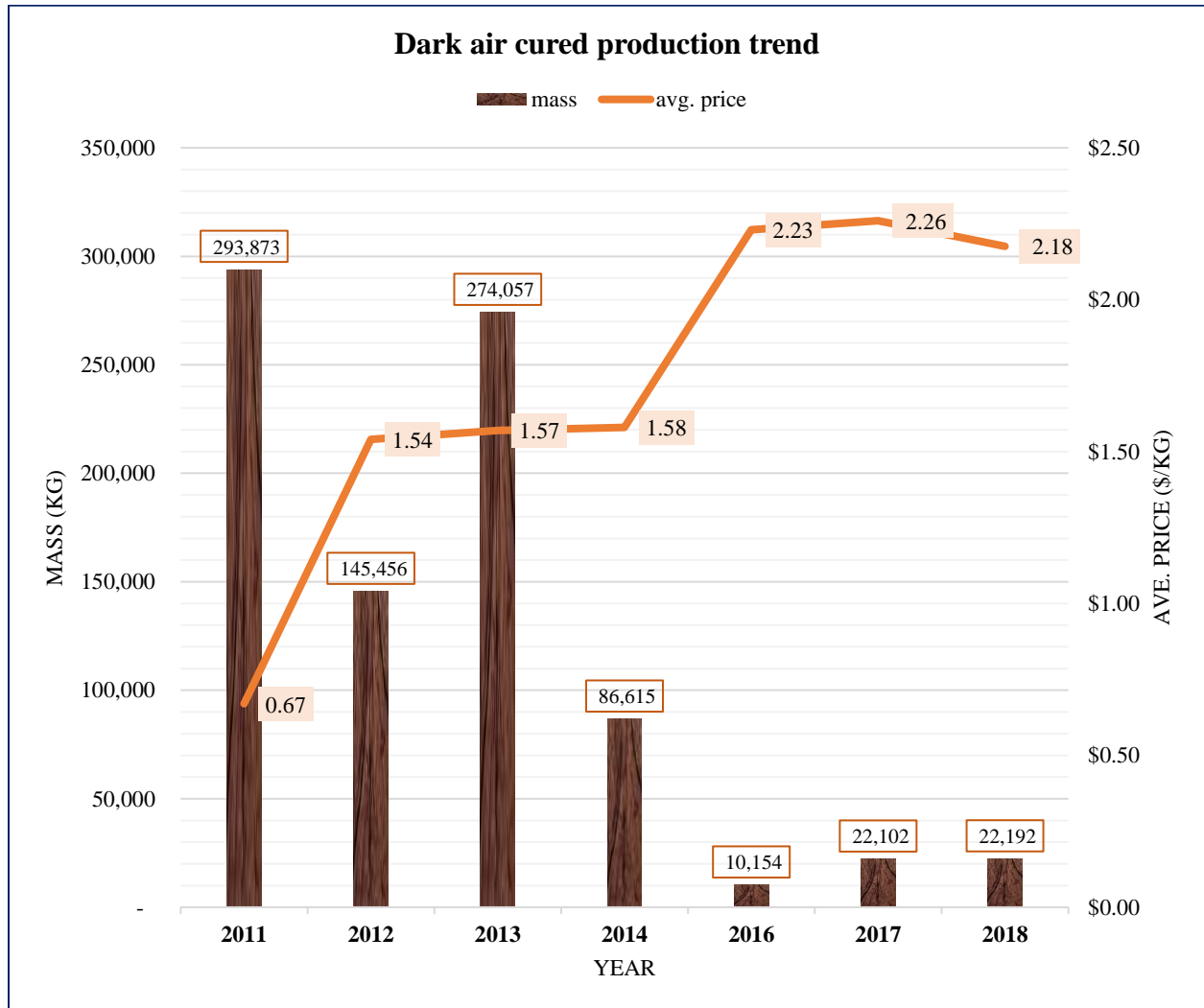


Figure 4.1: Dark air cured tobacco production trend

SECTION 5

5.0 Export performance

5.1 Export volumes

Tobacco exports for 2018 ended at 184.2 million kg 1% higher than 2017 exports.

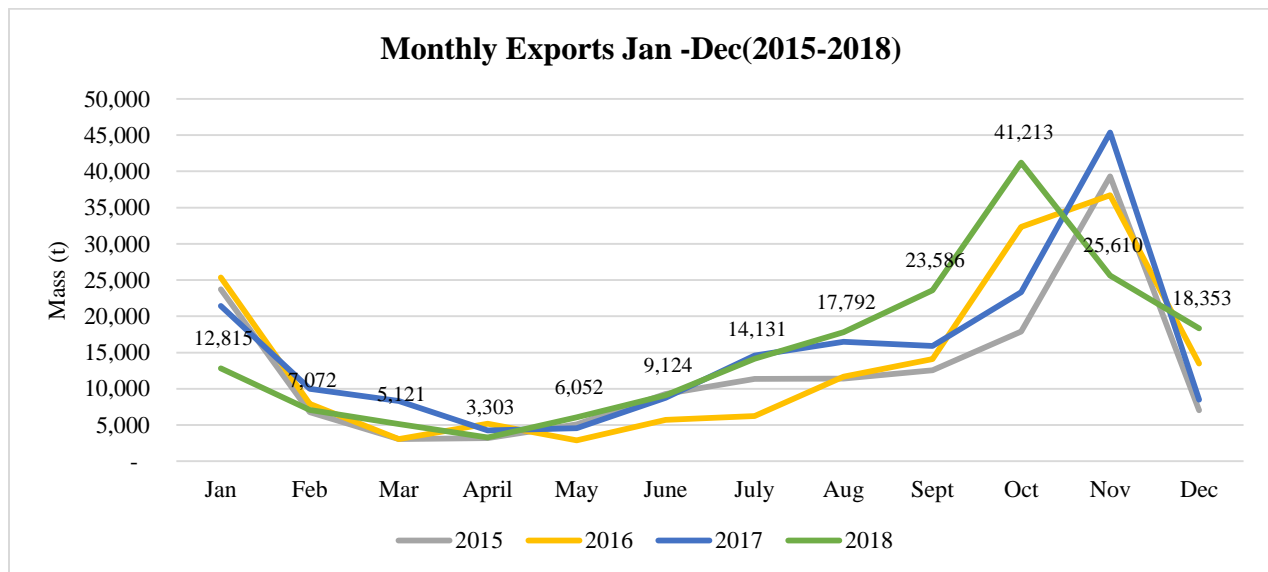


Figure 5.1: Comparison of January to December exports (2015-2018)

5.2 Export value

Total export earnings for 2018 were US\$914.3 million compared to US\$904.4 million realized in 2017. The average export price remained at \$4.96/kg for 2017 and 2018.

5.3 Exports by destination

China was the top most destination of Zimbabwean flue-cured tobacco followed by South Africa, Belgium and United Arab Emirates in that order. 32 % of the total exports were destined for China compared to last year's 33%. A total of 59.1 million kg averaging \$7.97/kg were shipped to China. Netherlands had the highest average price of \$8.93/kg, followed by China and Macau with \$7.97 and \$7.64/kg respectively.

Table 1.3: 2017 Exports by destination

2018					2017			
DESTINATION	MASS	VALUE	AVE\$		DESTINATION	MASS	VALUE	AVE\$
CHINA	59,106,308	471,110,423	7.97		CHINA	60,847,460	479,310,854	7.88
SOUTH AFRICA	32,217,445	101,434,110	3.15		SOUTH AFRICA	24,161,834	78,137,757	3.23
BELGIUM	17,625,227	58,111,410	3.30		BELGIUM	22,016,940	66,400,260	3.02
UNITED ARAB EMIRATES	14,610,025	33,233,301	2.27		INDONESIA	9,773,930	40,834,941	4.18
INDONESIA	12,883,984	53,967,409	4.19		UNITED ARAB EMIRATES	9,041,177	17,176,835	1.9
VIETNAM	4,032,043	16,055,486	3.98		SUDAN	4,758,600	16,816,553	3.53
RUSSIA	3,280,209	13,059,519	3.98		RUSSIA	4,692,140	16,000,618	3.41
GERMANY	3,208,941	14,286,846	4.45		EGYPT	4,681,233	14,452,057	3.09
SUDAN	3,138,000	10,417,941	3.32		KOREA	4,405,081	19,931,409	4.52
HONG KONG	2,510,034	14,555,816	5.80		HONG KONG	4,318,170	22,409,981	5.19
ARMENIA	2,296,800	9,533,700	4.15		VIETNAM	3,461,446	17,526,470	5.06
EGYPT	2,124,139	7,380,300	3.47		FRANCE	3,309,231	13,787,698	4.17
FRANCE	2,039,880	9,202,372	4.51		GERMANY	2,405,742	10,065,156	4.18
UNITED STATES	1,879,032	3,726,627	1.98		ARMENIA	2,190,606	8,472,922	3.87
TAIWAN	1,491,042	7,607,232	5.10		GREECE	2,091,000	6,062,487	2.9
MOZAMBIQUE	1,386,495	4,842,160	3.49		TAIWAN	1,506,000	7,338,235	4.87
IRAN	1,346,400	5,462,820	4.06		GEORGIA	1,306,800	6,047,118	4.63
PHILIPPINES	1,323,681	3,505,178	2.65		ZAMBIA	1,266,840	3,885,057	3.07
TUNISIA	1,297,000	3,630,130	2.80		MOZAMBIQUE	1,138,410	1,427,049	1.25
NORTH KOREA	1,274,100	6,616,584	5.19		NIGERIA	862,080	361,199	0.42
GEORGIA	1,188,000	5,542,614	4.67		UKRAINE	838,200	3,527,454	4.21
SOUTH KOREA	1,176,823	5,223,028	4.44		ROMANIA	835,400	2,299,194	2.75
ZAMBIA	961,921	3,241,794	3.37		INDIA	831,609	5,904,774	7.1
INDIA	902,563	6,091,029	6.75		SINGAPORE	816,600	3,526,536	4.32
ALGERIA	808,568	3,559,879	4.40		IRAN	792,000	3,465,000	4.38
JORDAN	798,600	3,187,458	3.99		YEMEN	749,610	2,695,055	3.6
NIGERIA	739,280	1,434,966	1.94		NETHERLANDS	740,200	5,298,212	7.16
MADAGASCAR	710,360	3,210,827	4.52		TURKEY	637,800	1,174,584	1.84
POLAND	690,000	2,407,222	3.49		HUNGARY	559,800	2,103,954	3.76
NETHERLANDS	554,400	4,952,282	8.93		POLAND	542,520	2,528,936	4.66
SINGAPORE	490,800	2,492,840	5.08		MADAGASCAR	505,624	2,160,605	4.27
TURKEY	486,920	1,430,954	2.94		TUNISIA	482,000	981,640	2.04
CANADA	475,200	1,748,736	3.68		ALGERIA	479,200	1,763,556	3.68
CHILE	411,900	3,030,172	7.36		JORDAN	456,000	1,901,194	4.17
LAOS	390,408	1,598,366	4.09		HOLLAND	455,400	3,959,500	8.69
BOTSWANA	368,730	1,775,828	4.82		PHILIPPINES	397,229	749,138	1.89

HUNGARY	362,042	888,499	2.45	CAMBODIA	365,881	1,597,133	4.37
ROMANIA	352,200	1,594,144	4.53	UNITED STATES	298,844	864,539	2.89
HOLLAND	326,400	2,401,008	7.36	ISRAEL	276,600	1,181,630	4.27
BULGARIA	297,033	1,009,818	3.40	MALAWI	257,463	155,772	0.61
YEMEN	297,000	1,215,720	4.09	CROATIA	242,400	759,146	3.13
MALAWI	253,975	156,750	0.62	SOUTH KOREA	233,040	778,172	3.34
CAMBODIA	235,002	1,028,815	4.38	KENYA	228,800	484,540	2.12
GREECE	226,877	1,020,233	4.50	CANADA	217,800	841,845	3.87
NEW ZEALAND	198,000	918,720	4.64	BOTSWANA	200,470	1,090,333	5.44
KENYA	193,200	433,780	2.25	UNITED KINGDOM	195,000	528,648	2.71
UKRAINE	189,800	921,092	4.85	MAURITIUS	180,948	644,590	3.56
MOROCCO	158,400	748,295	4.72	NORTH KOREA	158,402	859,777	5.43
LUXEMBOURG	118,800	395,604	3.33	SERBIA	149,520	256,566	1.72
ISRAEL	118,200	495,760	4.19	LAOS	138,248	37,824	0.27
CROATIA	117,000	346,030	2.96	BULGARIA	127,810	373,428	2.92
BELARUS	99,007	299,982	3.03	LEBANON	118,800	517,968	4.36
SERBIA	78,602	351,903	4.48	PANAMA	99,000	425,700	4.3
TANZANIA	77,220	389,248	5.04	UZBEKSTAN	79,200	704,088	8.89
DENMARK	39,626	188,120	4.75	DENMARK	59,400	311,656	5.25
UNITED KINGDOM	39,614	175,432	4.43	HAITI	59,400	255,420	4.3
AZERBAIJAN	39,600	171,864	4.34	CHILE	58,800	369,956	6.29
MAURITIUS	37,800	151,578	4.01	AZERBAIJAN	39,600	178,794	4.52
SEYCHELLES	34,686	166,849	4.81	MOROCCO	39,600	203,227	5.13
ITALY	19,218	141,891	7.38	PORTUGAL	39,600	189,288	4.78
TRINIDAD	15,300	30,105	1.97	SLOVENIA	38,400	96,328	2.51
SPAIN	14,640	28,966	1.98	SEYCHELLES	34,731	216,513	6.23
MACAU	1,000	7,640	7.64	BOSNIA	26,880	7,795	0.29
GRAND TOTAL	184,165,837	914,345,572	4.96	HONDURAS	19,200	7,680	0.4
				SPAIN	15,440	25,048	1.62
				GRAND TOTAL	182,353,457	904,448,137	4.96

5.4 Exports by regional destinations

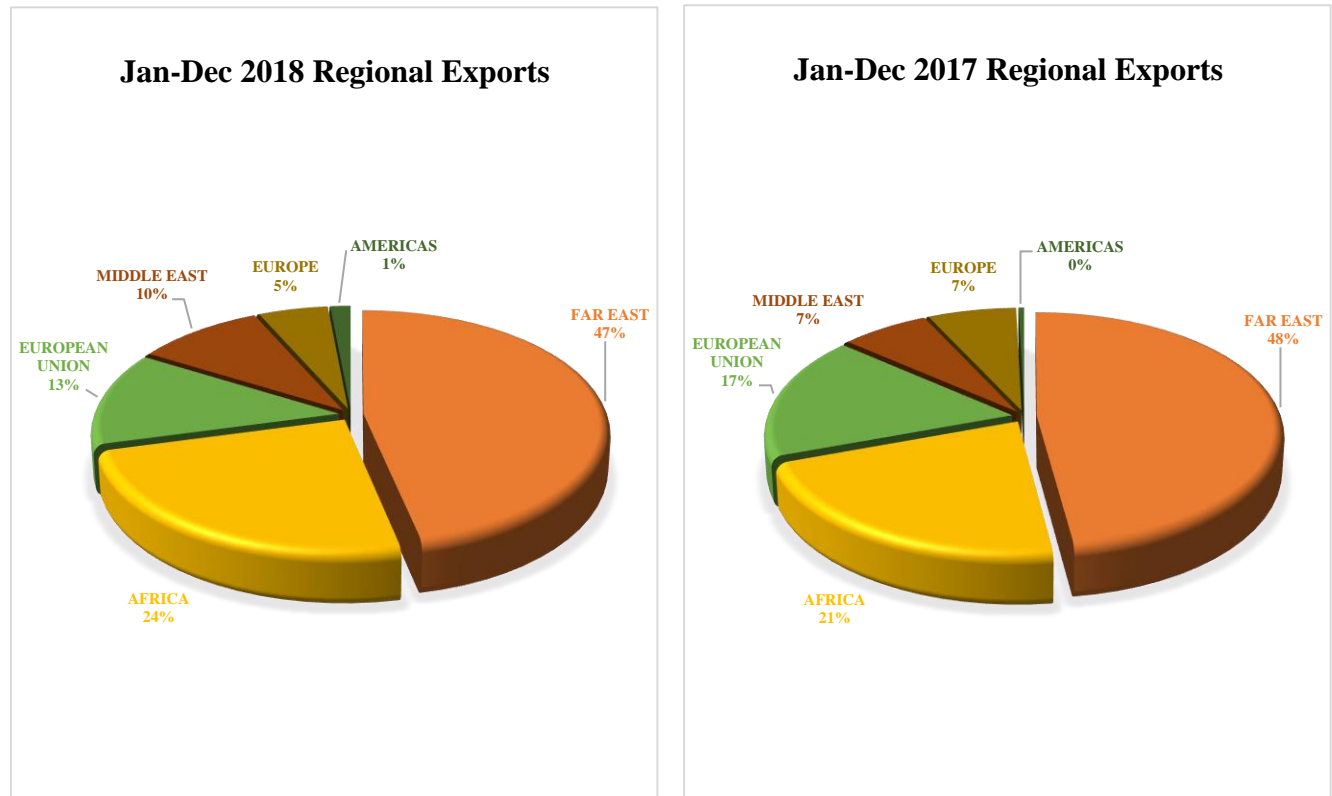


Figure 5.2: Exports by regional destinations

5.5 Stocks on hand

The year concluded with stocks amounting to approximately 109 million kg compared to 131 million kg recorded during the same period last year.

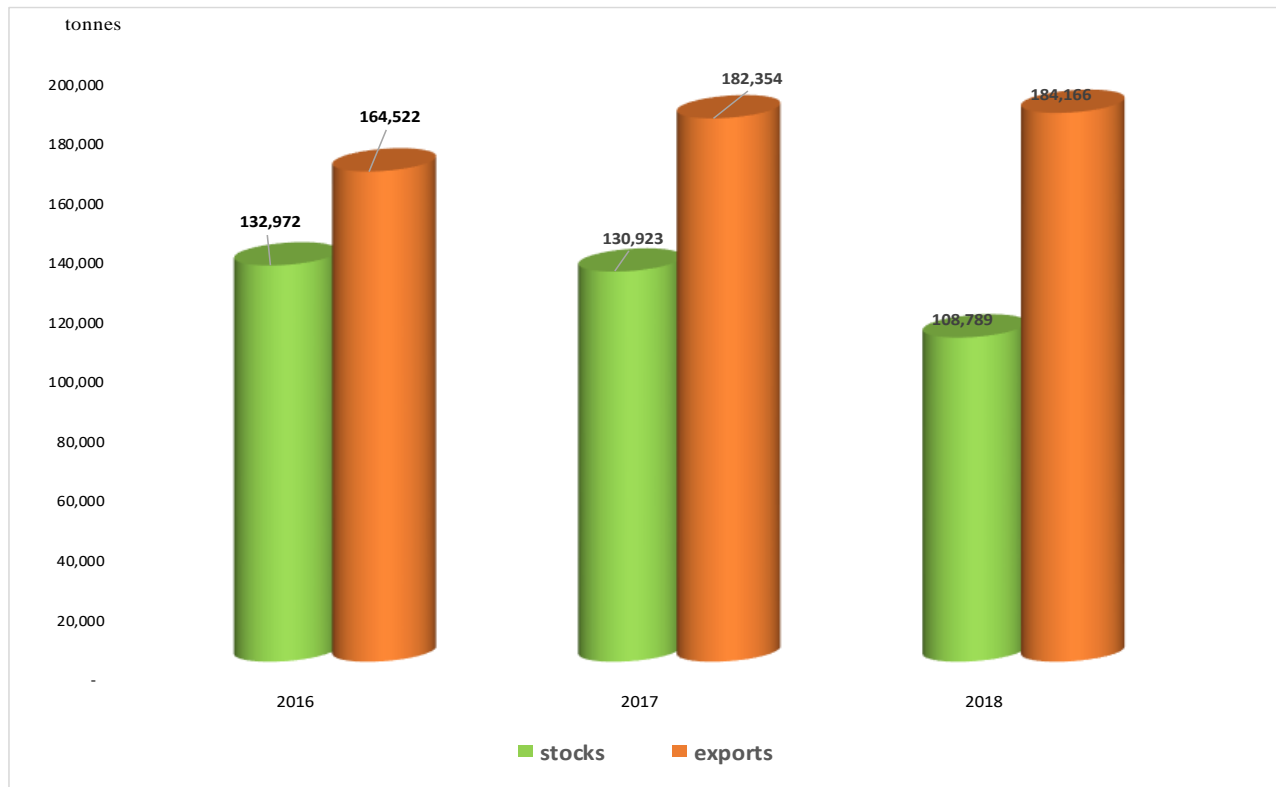


Figure 5.3: Stocks on hand 2016-2018

SECTION 6

6.0 Imports

A total of 12.2 million kg were imported from seven countries. The imported tobacco was used for blending with local stock (for either cigarette manufacturing or export) and other uses such as experiments and marketing. The imports increased by 109% from last year's 5.8 million kg.

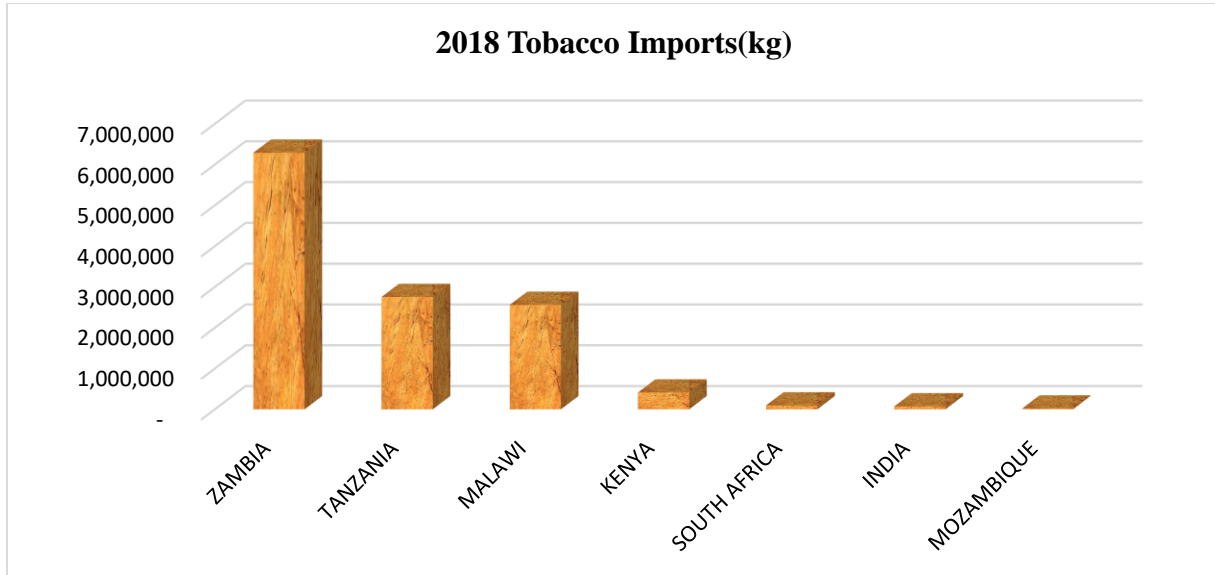
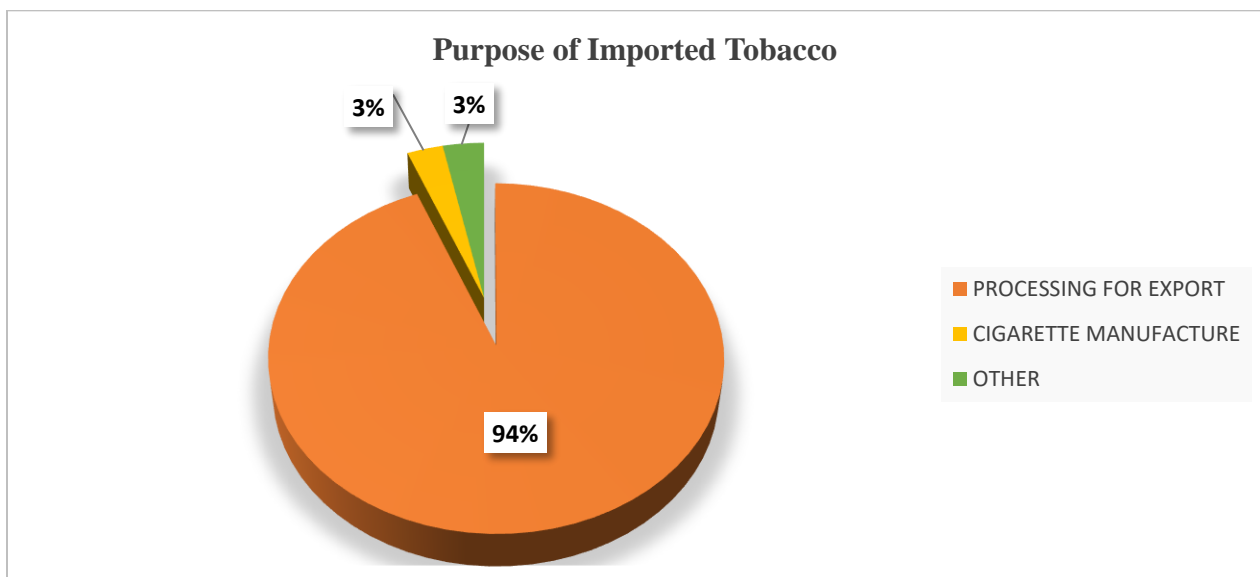


Figure 6.1: 2018 Tobacco imports by origin



In 2018, tobacco was imported for processing, cigarette manufacture and other purposes that include samples and evaluation. 94% of imported tobacco was either for blending with local tobacco grades for export or for processing and re-export. The remaining 6% was shared between cigarette manufacturing and other purposes.

SECTION 7

7.0 APPENDICES

Appendix 7.1: Active tobacco growers (2008-2018)

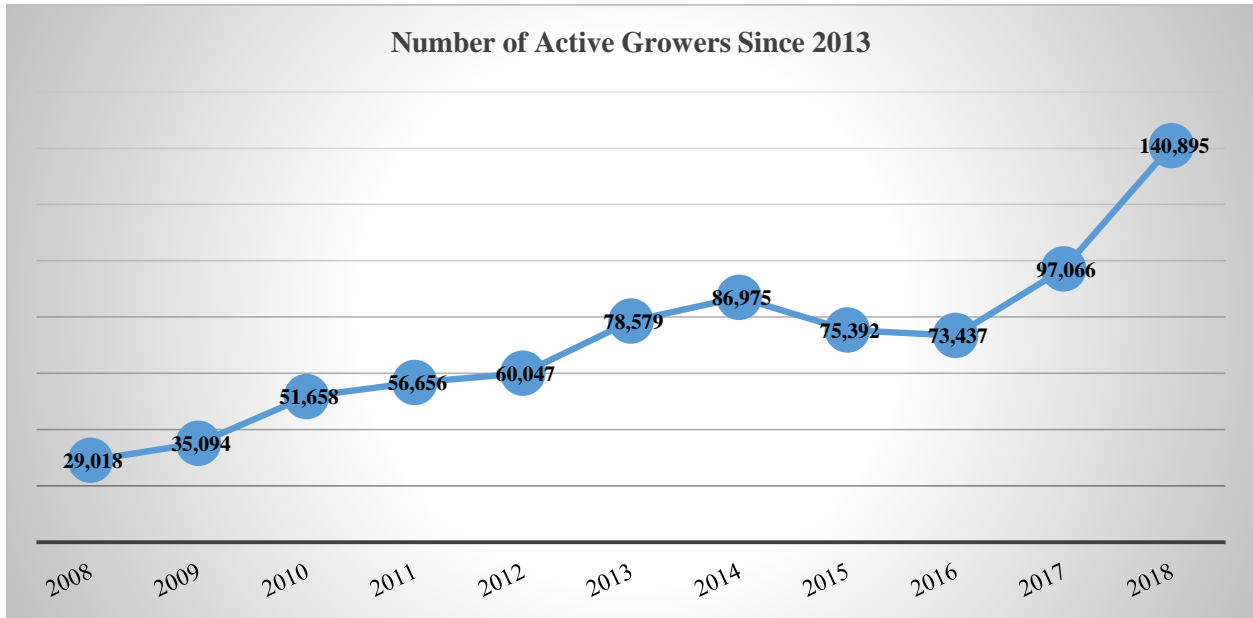


Figure 7.1: Active growers trend since 2010

Appendix 7.2: 2018 Growers distribution and production by class

Table 1.4: Production by Grower sector

GROWER SECTOR	No of Growers	MASS_SOLD	USD VALUE	USD/KG	YIELD
A1	52,918	71,251,736	195,774,274	2.75	1,551
A2	9,190	73,795,590	238,784,584	3.24	2,676
COMMUNAL	70,551	86,827,243	240,409,778	2.77	1,796
SMALL SCALE COMMERCIAL	8,236	20,728,683	62,462,611	3.01	1,862
GRAND TOTAL	140,895	252,603,251	737,431,247	2.92	1,899

7.3: 2018 Grower performance by province

Appendix 7.3

Table 1.5: 2017/18 season production by province

PROVINCE	MASS SOLD	US VALUE	USD/KG	# OF GROWERS	YIELD - KG/HA
MASHONALAND WEST	89,736,973	262,195,361	2.92	50,462	1,995
MASHONALAND CENTRAL	74,218,619	215,148,041	2.90	51,086	1,574
MASHONALAND EAST	49,689,877	152,596,957	3.07	17,253	2,063
MANICALAND	38,199,321	105,579,009	2.76	21,517	2,321
MIDLANDS	588,620	1,512,782	2.57	397	2,868
MASVINGO	166,262	391,759	2.36	166	1,550
MATEBELELAND	3,578	7,328	2.05	3	3,889
GRAND TOTAL	252,603,251	737,434,479	2.92	140,895	1,899

7.4 2018 Grower performance by class

Appendix 7.4

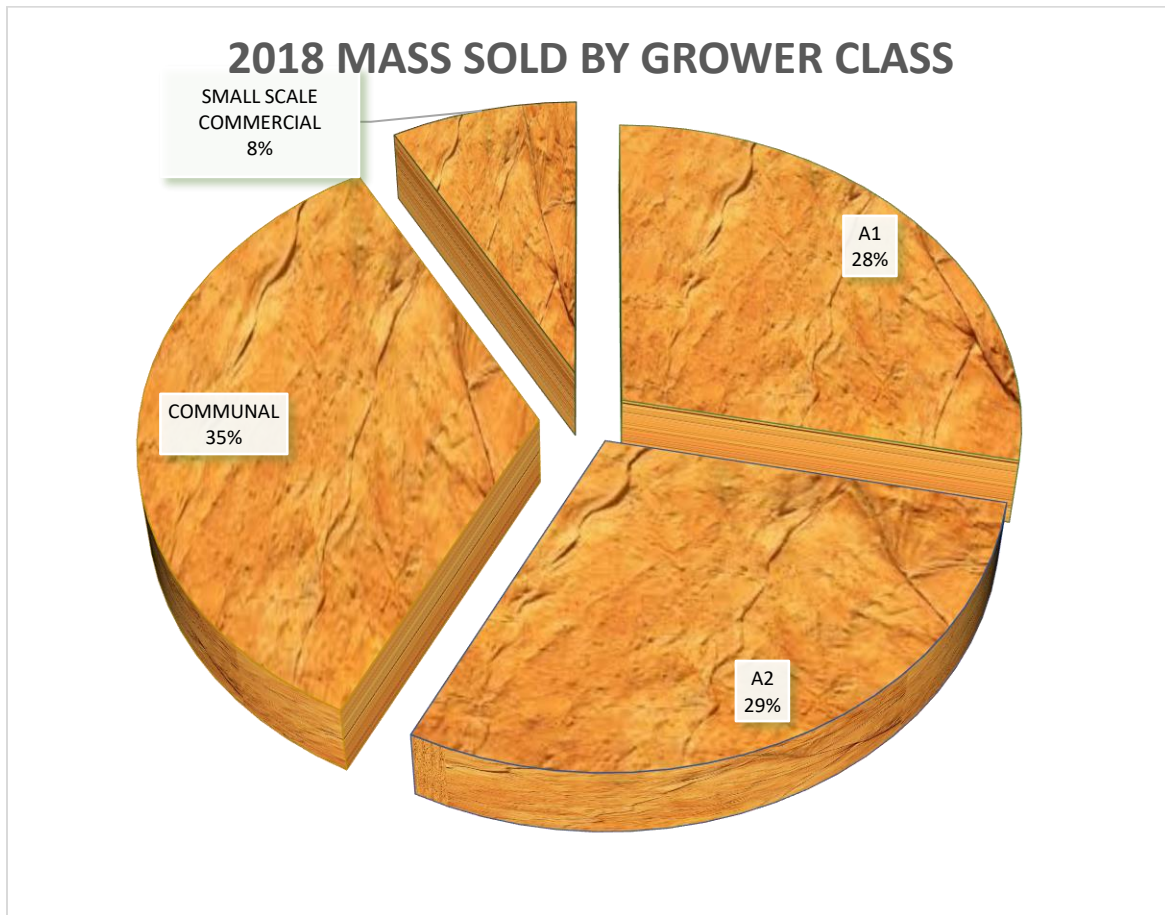


Figure 7.2: Grower performance by class

7.5 Grower performance Trend by Sector

Appendix 7.5

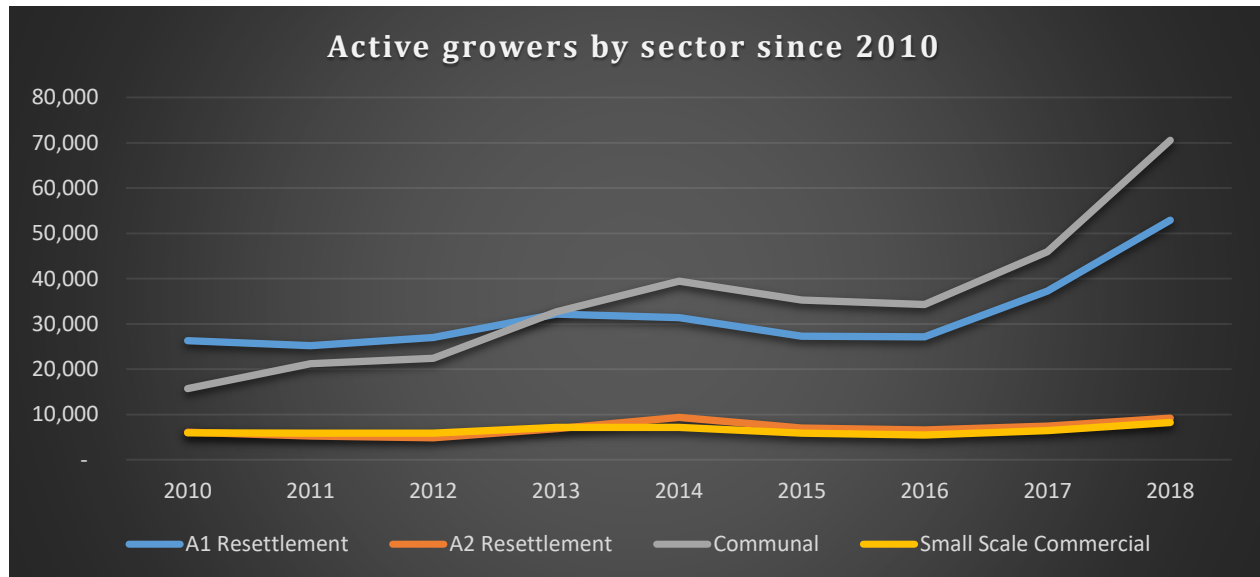
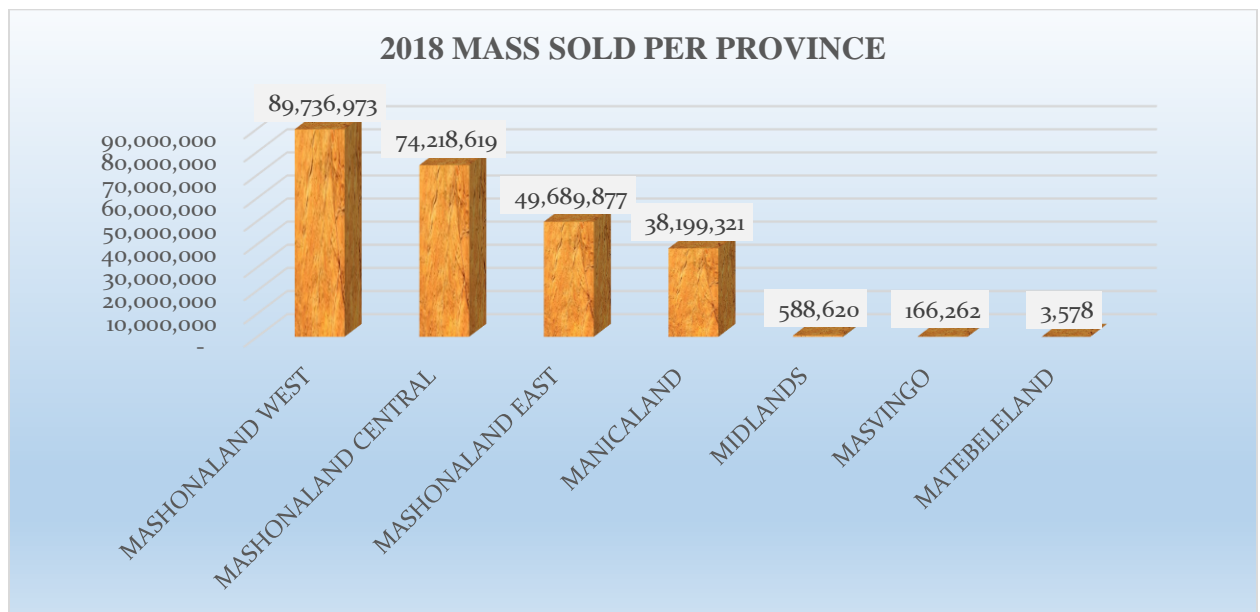


Figure 7.3: Grower performance Trend by Sector



7.6 2018 Mass sold per province in kg

Appendix 7.6

Figure 7.4: Mass sold in 2018 per province in kg

7.7 2018 Grower performance by province and district

Appendix 7.7

Table 1.6: Production by district

PROVINCE	MASS	VALUE	US/KG	GROWERS	YIELD/KG
MANICALAND	38,199,321	105,579,009	2.76	21,517	2,313
Buhera	821,740	2,180,083	2.65	493	2,432
Chimanimani	360,380	945,023	2.62	241	2,648
Chipinge	448,420	1,575,584	3.51	53	2,187
Makoni	26,416,833	72,040,202	2.73	14,886	2,259
Mutare	9,350,587	26,529,038	2.84	5,387	2,627
Mutasa	361,553	1,031,538	2.85	248	2,784
Nyanga	439,808	1,277,541	2.90	209	971
MASHONALAND CENTRAL	74,218,619	215,148,041	2.90	51,086	1,574
Bindura	8,324,585	24,247,857	2.91	5,653	2,124
Centenary	286,621	762,138	2.66	285	2,305
Guruve	11,978,190	34,278,867	2.86	9,119	2,453
Mazowe	21,216,129	64,010,848	3.02	10,125	1,915
Mbire	29,267	74,588	2.55	31	1,362
Mt Darwin	16,090,036	44,240,276	2.75	14,350	1,001
Muzarabani	13,449,424	39,262,789	2.92	8,736	1,399
Rushinga	529,446	1,497,153	2.83	573	1,577
Shamva	2,314,922	6,773,524	2.93	2,214	2,086
MASHONALAND EAST	49,689,877	152,596,967	3.07	17,261	2,107
Chikomba	6,297,098	20,243,434	3.21	1,663	2,966
Goromonzi	6,034,536	18,417,998	3.05	949	3,631
Hwedza	4,057,150	11,766,638	2.90	2,348	1,061
Marondera	13,117,194	41,281,698	3.15	3,417	3,820
Mudzi	25,328	59,552	2.35	30	1,858
Murehwa	7,620,569	21,092,478	2.77	4,765	1,369
Mutoko	4,484,166	12,039,083	2.68	3,165	930
Seke	5,623,136	27,167,903	4.83	747	2,735
Uzumba Maramba Pfungwe	209,773	528,183	2.52	177	2,589
MASHONALAND WEST	89,736,973	262,195,361	2.92	50,462	1,979
Chegutu	4,169,427	11,945,843	2.87	1,559	2,912
Hurungwe	54,217,387	155,553,489	2.87	37,446	2,292
Kadoma	146,656	398,206	2.72	98	2,696
Kariba	374,078	1,054,633	2.82	298	2,711

Karoi	495,864	1,361,318	2.75	222	2,812
Makonde	8,862,146	26,466,279	2.99	4,369	691
Mhondoro	439,006	1,327,901	3.02	159	3,206
Norton	218,506	686,950	3.14	15	1,093
Sanyati	3,933	11,100	2.82	3	3,420
Zvimba	20,809,970	63,389,642	3.05	6,293	3,095
MASVINGO	166,262	391,759	2.36	166	837
Bikita	14,091	33,626	2.39	22	1,245
Chikomba	6,902	16,265	2.36	4	863
Chiredzi	5,521	15,269	2.77	10	693
Chivi	1,439	2,590	1.80	1	1,439
Gutu	88,882	212,724	2.39	79	1,537
Masvingo	43,483	97,456	2.24	39	405
Mwenezi	2,869	7,412	2.58	4	888
Zaka	3,074	6,416	2.09	7	2,673
MATEBELELAND	3,578	7,328	2.05	3	3,889
Binga	3,578	7,328	2.05	3	3,889
MIDLANDS	588,620	1,512,782	2.57	400	2,737
Gokwe North	57,508	140,830	2.45	83	1,929
Gokwe South	154,515	391,659	2.53	205	1,781
Gweru	27,227	66,992	2.46	17	1,998
Kwekwe	243,576	612,348	2.51	33	5,270
Mvuma	8,207	17,447	2.13	2	2,052
Takawira	67,450	209,070	3.10	39	3,557
Vungu	1,923	4,074	2.12	3	2,787
Zibagwe	27,639	69,050	2.50	17	1,974
Zvishavane	576	1,313	2.28	1	576
GRAND TOTAL	252,603,251	737,431,247	2.92	140,895	1,899

7.8 Contract Vs. Auction Sales

Appendix 7.8

Table 1.7: Contract and Auction production

Year	No: of contractors	Contract Production million (kg)	usd/kg	Auction Production million (kg)	usd/kg	Total Production million (kg)	usd/kg
2004	6	16	2.13	53	1.95	69	1.99
2005	6	28	1.87	45	1.44	73	1.61
2006	7	30	2.08	25	1.88	55	1.99
2007	11	44	2.26	30	2.4	73	2.32
2008	15	33	3.13	16	3.44	49	3.23
2009	13	42	3.03	16	2.86	58	2.99
2010	12	79	3.04	42	2.63	122	2.89
2011	12	74	2.97	58	2.42	132	2.73
2012	13	92	3.72	53	3.52	144	3.66
2013	15	113	3.74	54	3.54	166	3.67
2014	16	165	3.32	51	2.69	216	3.17
2015	16	152	3.11	47	2.43	199	2.95
2016	16	166	3.03	36	2.65	202	2.95
2017	20	157	2.98	31	2.84	188	2.96
2018	30	217	2.95	36	2.73	253	2.92

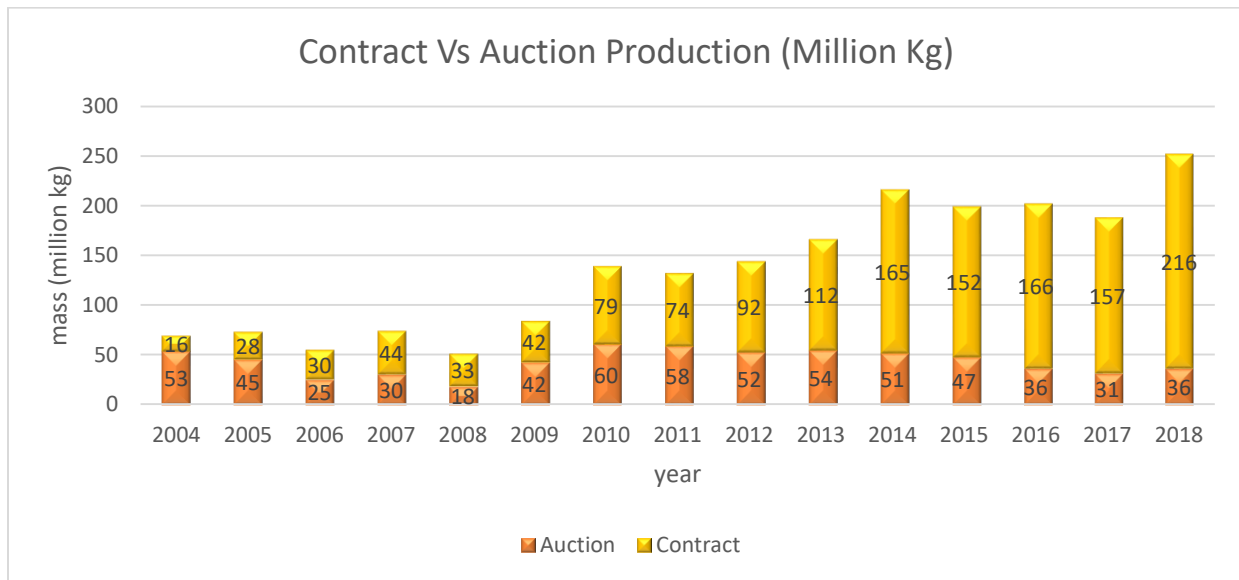


Figure 7.5: Contract vs Auction production

7.9 Annual stocks movement

Appendix 7.9

Table 1.8: Tobacco stocks movement

Description	2013	2014	2015	2016	2017	2018
	tons	tons	tons	tons	tons	tons
Opening stocks	75,267	82,017	122,297	101,828	93,834	78,212
Production (dry weight)	148,250	216,197	198,955	202,284	188,920	222,291
Imports	13,700	8,060	2,035	4,930	5,827	9,411
Total supply	237,217	306,274	323,287	309,042	288,582	309,913
Exports	153,400	135,508	152,048	168,526	182,353	184,366
Uncommitted stocks	11,104	8,557	9,076	18,264	12,400	16,763
Committed stocks	70,913	113,740	92,752	75,570	65,812	92,026
Total closing stocks	82,017	122,297	101,828	93,834	78,212	108,789

7.10 Progress of the Zimbabwe flue-cured tobacco industry

Appendix 7.10

Table 1.9: Progress of the Zimbabwe flue-cured tobacco industry

Year	Growers	Area (ha)	Mass sold (kg)	Average price			Gross value	
				ZW\$/kg	US\$/kg	Average yield (kg/ha)	US\$	ZW\$
2018	140 895	133 000	252,603,251		2.92	1,899	737,603,251	
2017	98 927	110 816	188,920,313		2.96	1,705	559,077,353	
2016	81 801	102,537	202,275,688		2.95	1,972	595,927,523	
2015	97 616	104,662	198,954,849		2.95	1,900	586,544,231	
2014	106 372	102,537	216,196,683		3.17	2,108	685,244,013	
2013	78 756	88 627	166,572,097		3.67	1,879	612,135,672	
2012	60 047	76 359	144 565 253		3.65	1 893	527 805 943	
2011	56,656	78 415	132,431,905		2.73	1 689	361,448,679	
2010	51 685	67 054	123 503 681		2.88	1 842	355 572 326	
2009	29 018	62 737	58 570 652		2.98	934	174 457 761	
2008	35 094	61 622	48 775 178		3.21	792	156 663 816	
2007	26 412	54 551	73 039 015		2.32	1 339	169 159 675	
2006	20 565	58 808	55 466 689	0.35	2.00	943		19 527 108 198
2005	31 761	57 511	73 376 990	22.71	1.61	1 300		1 666 410 523
2004	21 882	44 025	68 901 129	861.43	2	1 565		593 537 303
2003	20 513	49 571	81 806 414	180.31	2.25	1 673		147 508 194
2002	14 353	74 295	165 835 001	35.93	2.27	2 213		59 576 224
2001	7 937	76 017	202 535 209	17.46	1.75	2 664		35 371 686
2000	8 537	84 857	236 946 295	8.13	1.69	2 792		19 266 709
1999	7 194	84 762	192 145 383	6.62	1.74	2 267		12 726 314
1998	8 334	91 905	215 913 864	3.47	1.72	2 349		75 501 393
1997	5 101	90 630	171 542 696	2.9	2.33	1 893		4 976 043
1996	2 921	81 231	201 550 527	2.9	2.94	2 481		5 848 818

1995	2 525	74 550	198 751 924	1.8	2.12	2 666		3 584 710
1994	2 338	67 416	169 218 196	1.38	1.73	2 510		2 335 875
1993	2 999	82 900	218 370 345	0.8	1.24	2 634		1 752 685
1992	2 604	80 070	201 161 921	0.81	1.62	2 512		1 630 161
1991	1 746	66 927	170 149 851	1.16		2 542		1 969 134
1990	1 493	59 425	133 866 041	0.65		2 253		868 180
1989	1 448	57 660	129 960 308	0.43		2 254		558 459
1988	1 486	59 178	119 912 584	0.39		2 026		471 837
1987	1 519	63 536	127 996 176	0.22		2 015		278 938
1986	1 426	57 349	114 304 117	0.31		1 993		358 206
1985	1 296	52 464	105 555 569	0.27		2 012		283 394
1984	1 186	50 486	119 636 157	0.21		2 370		247 119
1983	1 155	46 622	94 295 739	0.12		2 023		177 798
1982	1 257	46 427	89 387 652	0.17		1 925		149 563
1981	1 145	38 099	67 356 019	0.18		1 768		123 774
1980	1 547	64 310	122 571 366	0.08		1 906		97 437
1979	1 556	59 631	111 686 415	0.08		1 873		92 023
1978	1 612	54 939	82 968 508	0.1		1 510		81 994
1977	1 638	56 993	83 373 667	0.07		1 463		61 085
1976	1 696	66 290	110 533 041	0.07		1 667		76 046
1975	1 731	65 834	83 919 914	0.07		1 275		57 736

7.11 Productivity trend since 2008

Appendix 7.11

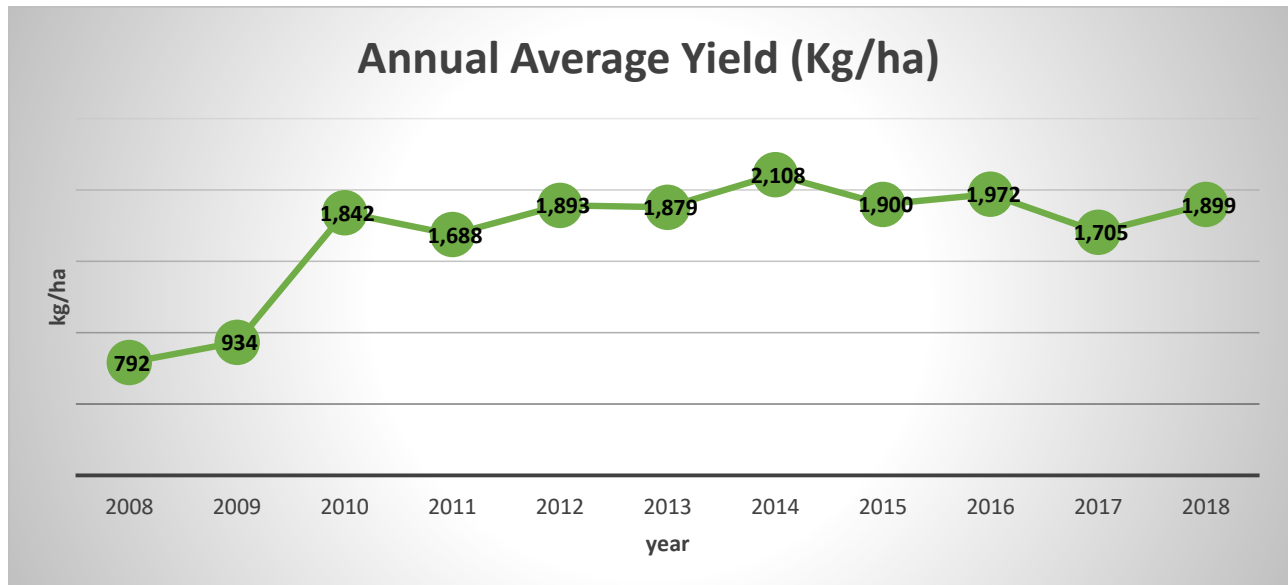


Figure 7.6: Annual average yield trend

7.12 Production Performance by Province since 2008

Appendix 7.12

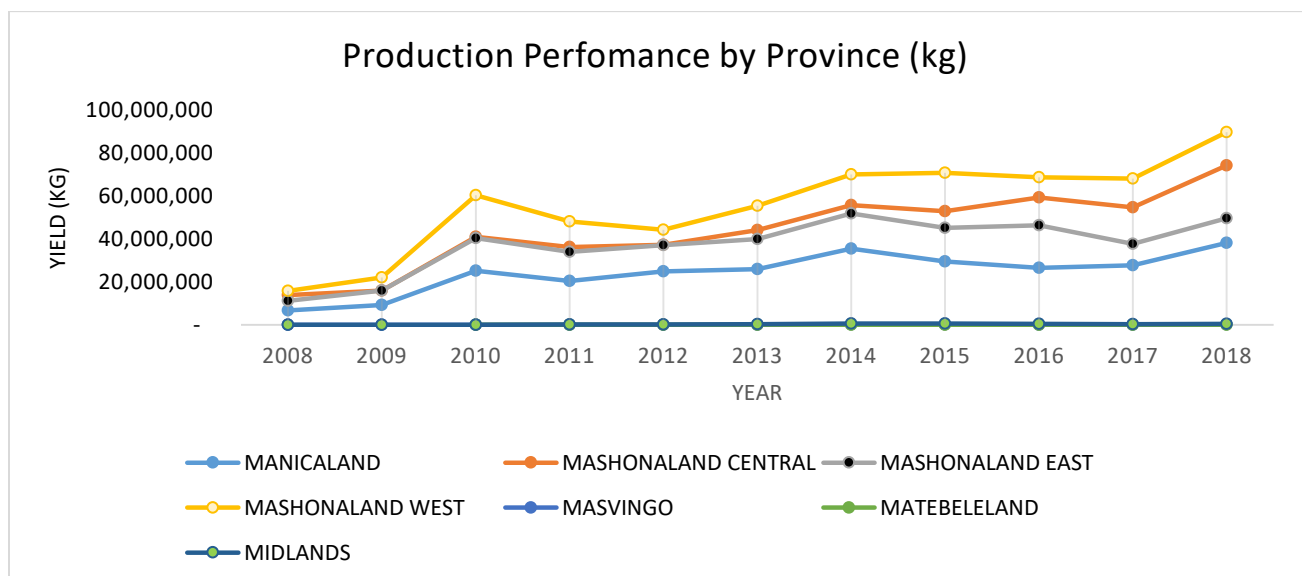


Figure 7.7: Production performance by province since 2008

7.13 Revenue realized per province since 2008

Appendix 7.13

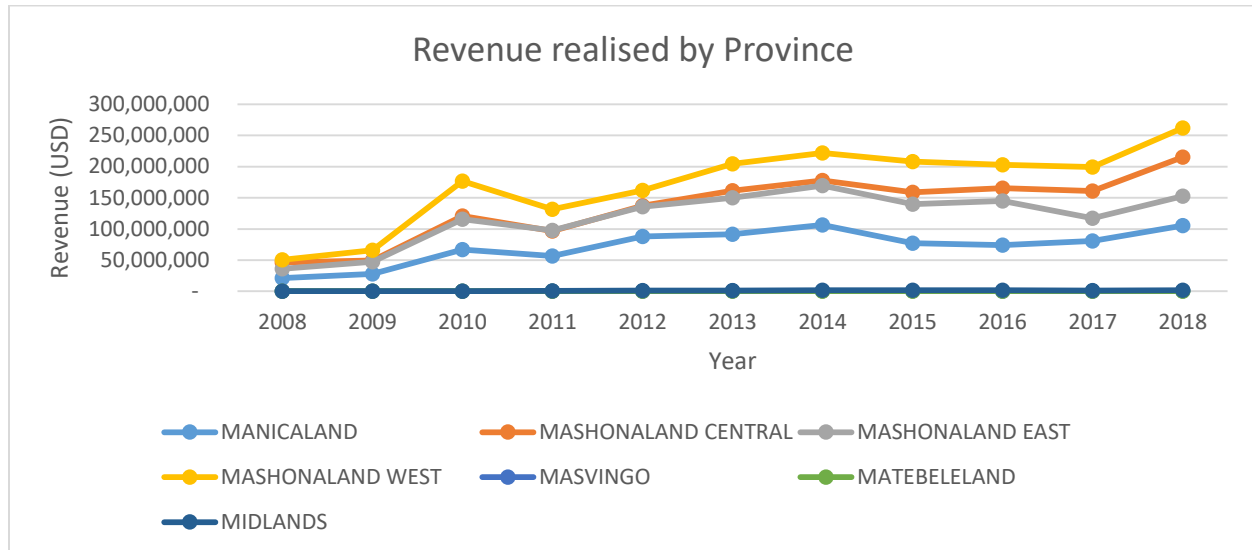


Figure 7.8: Revenue by province since 2008

7.14 Comparison of seed sales 2017/18

Appendix 7.14

Table 1.10: Seed sales 2017 vs. 2018

	Tobacco Type	As at 15/09/17	Hectares	As at 14/09/18	Hectares	% Change
ZTSA	Burley	4	1	-	-	-100
TRB	Burley	-	-	-	-	-
	Total Burley (g)	4	1	-	-	-100
ZTSA	Flue-cured	338,545	56,424	287,795	47,966	-15
TRB	Flue-cured	535,130	89,188	635,058	105,843	19
	Total FC (g)	873,675	145,613	922,853	153,809	6

7.15 Seed sales progress

Appendix 7.15

Table 1.11: Seed sales and area equivalent since 2010

		2010	2011	2012	2013	2014	2015	2016	2017	2018
ZTSA	Burley	767	25	5,660.00	2,500.00	-	-		4	4
TRB	Burley	3,905	2,980	180	25	25	-		-	-
	Total Bu(g)	4,672	3,005	5,840.00	2,525.00	25	-		4	4
ZTSA	Flue-cured	131,350	197,565	215,541	230,165	184,029	174,820	275,869	338,490	287,795
TRB	Flue-cured	489,970	454,298	598,195	804,770	852,855	508,965	529,965	535,130	635,058
	Total FC (g)	621,320	651,863	813,736	1,034,935	1,036,884	683,785	805,834	873,620	922,853
Hectares		104,332	109,145	135,623	172, 489.20	172,814	113,964	134,306	145,603	153,809

7.16 Group colour by quality

Appendix 7.16

Table 1.12: Group, colour by quality

QUALITY	1		2		3		4		5		Other		Total	
GROUP-COLOUR	% Mass	Price	% Mass	Price	% Mass	Price	% Mass	Price	% Mass	Price	% Mass	Price	% Mass	Price
PL	0.02	1.85	0.27	2.84	1.67	2.25	1.59	1.73	0.50	1.41			4.04	1.98
PO	0.00	1.70	0.02	2.53	0.42	2.04	1.09	1.64	1.05	1.33			2.57	1.58
Other	0.00	1.28	0.01	2.71	0.26	2.09	0.53	1.66	0.24	1.37			1.03	1.71
Sub- Total	0.02	1.84	0.29	2.82	2.35	2.19	3.21	1.69	1.78	1.36			7.65	1.81
XL	0.05	2.92	1.44	3.78	6.41	3.03	3.42	2.05	0.67	1.52			11.98	2.75
XO	0.00	3.29	0.18	3.50	2.60	2.73	3.79	1.94	1.87	1.44			8.44	2.11
Other	0.00	3.60	0.02	3.49	1.10	2.70	1.43	1.93	0.40	1.43			2.96	2.16
Sub-total	0.05	2.93	1.65	3.74	10.11	2.91	8.64	1.98	2.94	1.46			23.39	2.45
CL	0.03	4.63	0.61	4.48	0.87	4.03	0.10	3.04	0.01	2.02			1.61	4.15
CO	0.00	4.77	0.12	3.95	0.33	3.60	0.10	2.50	0.04	1.62			0.59	3.36
Other			0.00	4.48	0.03	3.50	0.01	2.62	0.00	1.64			0.04	3.30
Sub-total	0.03	4.63	0.73	4.40	1.23	3.90	0.20	2.77	0.05	1.67			2.24	3.93
Quality														
HL			0.00	4.73	0.00	3.66	0.00	2.48	0.00	1.45			0.00	3.68
HO	0.00	5.00	0.00	3.61	0.01	2.81	0.01	2.10	0.01	1.58			0.03	2.36
HR					0.00	2.94	0.00	2.03	0.00	1.54			0.00	1.98
Sub-Total	0.00	5.00	0.00	3.69	0.01	2.82	0.01	2.10	0.01	1.58			0.03	2.37

QUALITY														
LL	0.15	5.07	3.24	4.85	10.01	4.09	3.77	2.82	0.63	1.94			17.80	3.89
LO	0.08	5.24	3.76	4.86	15.06	3.99	9.56	2.75	2.29	1.93			30.76	3.56
LR	0.00	3.55	0.02	4.15	0.48	3.20	0.92	2.29	0.56	1.65			1.99	2.35
Other	0.00	2.64	0.03	4.47	1.44	3.49	1.63	2.51	0.40	1.75	0.42	1.50	3.92	2.70
Sub-Total	0.23	5.12	7.06	4.85	26.99	3.98	15.88	2.71	3.88	1.87	0.42	1.50	54.47	3.56
Quality														
GROUP-COLOUR														
TL	0.01	3.46	0.28	2.75	0.42	2.37							0.71	2.54
TO	0.01	4.11	0.35	2.76	0.69	2.20							1.05	2.41
TR	0.00	2.32	0.01	2.24	0.04	1.66							0.05	1.73
Other	0.00	1.22	0.03	2.62	0.22	2.11							0.25	2.17
Sub-Total	0.03	3.72	0.66	2.74	1.37	2.22							2.06	2.41
AL	0.00	2.72	0.17	1.69	0.14	1.38							0.31	1.56
AO	0.00	2.42	0.24	1.57	0.29	1.27							0.53	1.41
AR			0.00	1.45	0.01	1.14							0.01	1.19
Other	0.00	2.20	0.20	1.59	0.53	1.10							0.73	1.23
Sub-Total	0.01	2.64	0.61	1.61	0.96	1.19							1.58	1.36
B	0.02	1.23	0.06	0.82	0.16	0.52							0.24	0.65
Other	0.00	1.35	0.03	0.71	0.12	0.50							0.15	0.55
Sub-Total	0.02	1.24	0.10	0.78	0.28	0.51							0.39	0.61

SUNDRIES														
NG/NGA											1.30	0.84	1.30	0.84
SD											1.46	2.41	1.46	2.41
SAD											0.20	1.24	0.20	1.24
BGD											0.43	1.71	0.43	1.71
Other											4.81	1.08	4.81	1.08
Sub-Total											8.20	1.32	8.20	1.32
G-TOTAL	0.38	4.33	11.09	4.26	43.30	3.49	27.94	2.37	8.66	1.62	8.62	1.33	100.00	2.92

7.17 Group and colour analysis

Appendix 7.17

Table 1.13: Group by colour analysis

COLOUR	L	O	R/S	NG/NGA	SUNDRIES	TOTAL
GROUP						
PRIMINGS (P)	4.04	2.57			1.03	7.65
LUGS (X)	11.98	8.44			2.96	23.39
CUTTERS (C)	1.61	0.59			0.04	2.24
SMOKING LEAF (H)	0.00	0.03	0.00			0.03
LEAF (L)	17.80	30.76	1.99		3.92	54.47
TIPS (T)	0.71	1.05	0.05		0.25	2.06
STRIPS (A)	0.31	0.53	0.01		0.73	1.58
SCRAP (B)					0.39	0.39
NG/NGA				1.30		1.30
SUNDRIES					6.90	6.90
TOTAL						100

7.18 Progressive group composition

Appendix 7.18

Table 1.14: Progressive group comparison

GROUP	P	X	C	H	L	T	A	B	NG/NGA	OTHERS	TOTAL
2018	7.65	23.39	2.24	0.03	54.47	2.06	1.58	0.39	1.30	6.90	100
2017	8.44	27.03	4.19	0.09	48.00	2.04	1.47	0.37	1.60	6.77	100
2016	5.28	15.97	2.53	0.05	62.67	1.15	2.67	0.67	1.94	7.07	100
2015	6.84	20.87	3.21	0.05	56.11	2.19	2.21	0.38	1.08	7.06	100
2014	7.82	23.92	4.13	0.12	48.88	1.20	2.62	0.55	2.24	8.53	100
2013	12.94	25.07	2.57	0.09	46.37	1.27	3.63	0.86	2.11	5.10	100
2012	10.33	20.70	2.30	0.10	50.54	1.35	3.96	1.16	3.45	5.3	100
2011	9.68	23.3	1.92	0.12	47.17	0.80	6.04	1.23	3.20	6.54	100
2010	11.05	21.84	1.27	0.12	47.86	0.85	6.13	1.64	3.81	6.06	100

7.19 Progressive crop quality composition

Appendix 7.19

Table 1.15: Progressive crop quality comparison

QUALITY	1	2	3	4	5	NG/NGA	OTHERS	TOTAL
2018	0.38	11.09	43.30	27.94	8.66	1.30	7.32	100
2017	0.55	12.81	43.17	25.95	8.79	1.60	7.13	100
2016	0.34	10.72	40.86	27.97	10.63	2.40	7.08	100
2015	1.65	18.19	39.85	23.03	8.66	1.08	7.54	100
2014	1.90	16.54	38.96	22.50	9.34	2.24	8.53	100
2013	2.08	19.64	41.22	19.07	6.71	2.11	9.18	100
2012	2.12	19.77	39.69	19.60	5.43	2.03	11.36	100
2011	0.56	17	43.02	21.83	6.48	4.13	6.98	100
2010	0.56	15.68	40.95	24.56	7.71	3.18	7.6	100

7.20 Progressive crop colour composition

Appendix 7.20

Table 1.16: Progressive crop colour comparison

COLOURS	P,X and C	P,X and C	H,L and T	H,L and T		TOTAL				
	E and L	O	E and L	O	R & S	E & L	O	R & S	Not defined	TOTAL
2018	17.63	11.60	18.51	31.84	2.04	36.14	43.44	2.04	18.38	100
2017	24.04	12.07	16.25	28.08	2.48	40.29	40.15	2.48	17.08	100
2016	13.06	8.55	18.14	37.76	3.96	31.2	46.31	3.96	18.53	100
2015	22.58	8.34	22.17	33.78	2.4	44.75	42.12	2.4	10.73	100
2014	21.34	11.57	17.39	27.41	1.80	38.73	38.98	1.80	20.49	100
2013	24.99	9.14	18.38	24.18	1.10	43.37	33.32	1.10	22.21	100
2012	21.25	8.32	21.78	24.83	2.47	43.03	33.15	2.47	21.35	100
2011	20.03	11.67	16.74	25.94	2.71	36.77	37.61	2.71	22.91	100
2010	18.83	12.05	13.05	28.01	3.81	31.86	40.06	3.81	24.27	100

7.21 Five year group and quality distribution

Appendix 7.21

Table 1.17: Five year group and quality distribution

GROUP		YEAR	1	2	3	4	5	NG	NGA	Sundries	TOTAL
P	PRIMINGS	2018	0.02	0.29	2.35	3.21	1.78				7.65
		2017	0.05	0.68	3.04	3.01	1.65				8.44
		2016	0.00	0.19	1.36	2.09	1.63	-	-	-	5.28
		2015	0.00	0.51	2.33	2.60	1.39	-	-	-	6.84
		2014	0.01	0.47	2.62	2.92	1.79	-	-	-	7.82
X	LUGS	2018	0.05	1.65	10.11	8.64	2.94				23.39
		2017	0.07	2.86	12.61	8.42	3.07				27.03
		2016	0.02	1.24	6.19	5.76	2.75	-	-	-	15.97
		2015	0.03	3.22	9.39	5.90	2.32				20.87
		2014	0.07	3.15	10.40	7.16	3.14	-	-	-	23.92
C	CUTTERS	2018	0.03	0.73	1.23	0.20	0.05				2.24
		2017	0.04	1.31	2.03	0.62	0.19				4.19
		2016	0.03	0.78	1.24	0.39	0.09				2.53
		2015	0.04	1.31	1.52	0.30	0.05				3.21
		2014	0.14	1.40	1.89	0.56	0.15	-	-	-	4.13
L	LEAF	2018	0.23	7.06	26.99	15.88	3.88			0.42	54.47
		2017	0.36	6.45	23.10	13.87	3.87			0.36	48.00
		2016	0.27	7.14	28.92	19.72	6.15	-	-	0.47	62.67
		2015	1.55	11.56	23.43	14.21	4.88			0.48	56.11
		2014	1.63	10.04	21.06	11.81	4.24	-	-	-	48.88
H	SMOKING LEAF	2018	0.00	0.00	0.01	0.01	0.01				0.03
		2017	0.00	0.02	0.03	0.02	0.02				0.09
		2016	-	0.00	0.02	0.02	0.01	-	-	-	0.05
		2015	0.00	0.01	0.01	0.01	0.01				0.05
		2014	0.00	0.01	0.03	0.05	0.02				0.12
T	TIPS	2018	0.03	0.66	1.37						2.06
		2017	0.01	0.90	1.13						2.04
		2016	0.00	0.36	0.79	-	-	-	-	-	1.15
		2015	0.01	0.71	1.47						2.19

		2014	0.00	0.44	0.76	-	-	-	-	-	1.20
GROUP											
A	STRIPS	2018	0.01	0.61	0.96						1.58
		2017	0.01	0.51	0.95						1.47
		2016	0.00	0.87	1.80	-	-	-	-	-	2.67
		2015	0.01	0.79	1.41						2.21
		2014	0.02	0.90	1.70	-	-	-	-	-	2.62
B	SCRAP	2018	0.02	0.10	0.28						0.39
		2017	0.02	0.08	0.27						0.37
		2016	0.02	0.13	0.53	-	-	-	-	-	0.67
		2015	0.01	0.09	0.28						0.38
		2014	0.02	0.12	0.40	-	-	-	-	-	0.55
NG & NGA	NO GRADE	2018						0.99	0.31		1.30
		2017						1.23	0.37		1.60
		2016	-	-	-	-	-	1.33	0.61	-	1.94
		2015						0.76	0.32		1.08
		2014	-	-	-	-	-	1.56	0.68		2.24
SUNDRIES	OTHERS	2018								6.90	6.90
		2017								6.77	6.77
		2016								7.07	7.07
		2015								7.06	7.06
		2014	-	-	-	-	-	-	-	8.53	8.53

7.22 Group quality colour by styles

Appendix 7.22

Table 1.18: Group, quality by style

GRADE	RIPE		STANDARD		A/AD/AQ		K/KA		V/VA		G/GA		U/UG		Y/YD		OTHER		TOTAL	
	%	Ave Price	%	Ave Price	%	Ave Price	%	Ave Price	%	Ave Price	%	Ave Price	%	Ave Price	%	Ave Price	%	Ave Price	%	Ave Price
A1L	0.00	2.26	0.00	2.73	0.00	2.67											0.00	2.19	0.00	2.70
A2L	0.00	1.99	0.09	1.84	0.01	1.54	0.06	1.51	0.01	1.57	0.00	1.28			0.00	1.40	0.20	1.59	0.36	1.63
A3L	0.00	1.88	0.07	1.43	0.00	1.57	0.05	1.35	0.01	1.2	0.00	1.02			0.00	1.18	0.53	1.10	0.67	1.15
S-TOTAL	0.00	2.00	0.16	1.68	0.02	1.59	0.10	1.44	0.02	1.35	0.00	1.14			0.00	1.31	0.73	1.23	1.04	1.33
A1O	0.00	1.2	0.00	2.51	0.00	2.00			0.00	1.80									0.00	2.42
A2O	0.00	1.41	0.12	1.68	0.03	1.48	0.08	1.46	0.01	1.46	0.00	1.33			0.00	1.31			0.24	1.57
A3O	0.00	1.53	0.16	1.26	0.02	1.33	0.08	1.31	0.02	1.17	0.00	1.04			0.00	1.23			0.29	1.27
S-TOTAL	0.00	1.47	0.28	1.44	0.05	1.42	0.15	1.39	0.03	1.25	0.01	1.11			0.00	1.27			0.53	1.41
A1R																				
A2R	0.00	1.49	0.00	1.48	0.00	1.17	0.00	1.40											0.00	1.45
A3R	0.00	1.30	0.01	1.18	0.00	0.90	0.00	0.99	0.00	0.82	0.00	0.7							0.01	1.14
S-TOTAL	0.00	1.33	0.01	1.23	0.00	1.09	0.00	1.03	0.00	0.82	0.00	0.70							0.01	1.19
B1			0.02	1.23													0.00	1.35	0.02	1.24

B2			0.06	0.82													0.03	0.71	0.10	0.78
B3			0.16	0.52													0.12	0.50	0.12	0.51
S-TOTAL			0.24	0.65													0.15	0.55	0.39	0.61
C1L	0.00	5.18	0.03	4.61	0.00	4.80			0.00	4.93									0.03	4.63
C2L	0.02	4.41	0.45	4.58	0.12	4.19			0.02	4.24							0.00	4.48	0.61	4.48
C3L	0.07	3.98	0.52	4.13	0.20	4.02			0.09	3.50							0.03	3.50	0.90	4.01
C4L	0.01	2.94	0.05	3.13	0.02	3.14			0.01	2.47							0.01	2.62	0.10	3.01
C5L	0.00	1.79	0.00	2.21	0.00	1.95			0.00	1.59							0.00	1.64	0.01	1.94
S-TOTAL	0.09	3.96	1.05	4.28	0.35	4.02			0.12	3.50							0.04	3.30	1.65	4.13
C1O	0.00	5.20	0.00	4.85	0.00	4.92			0.00	3.31									0.00	4.77
C2O	0.04	3.39	0.04	4.34	0.04	4.03			0.00	4.11									0.12	3.95
C3O	0.11	3.31	0.10	3.90	0.11	3.65			0.02	3.42									0.33	3.60
C4O	0.04	2.26	0.02	2.71	0.03	2.65			0.01	2.28									0.10	2.50
C5O	0.03	1.59	0.01	1.69	0.00	1.80			0.01	1.69									0.04	1.62
S-TOTAL	0.21	2.89	0.17	3.80	0.19	3.51			0.02	3.14									0.59	3.36
H1L																				
H2L			0.00	4.73															0.00	4.73
H3L			0.00	3.66															0.00	3.66
H 4L			0.00	2.48															0.00	2.48

H5L			0.00	1.45														0.00	1.45	
S-TOTAL			0.00	3.68														0.00	3.68	
H1O			0.00	5.00														0.00	5.00	
H2O			0.00	3.61														0.00	3.61	
H3O			0.01	2.81														0.01	2.81	
H4O			0.01	2.10														0.01	2.10	
H5O			0.01	1.58														0.01	1.58	
S-TOTAL			0.03	2.36														0.03	2.36	
H1R																				
H2R																				
H3R			0.00	2.94														0.00	2.94	
H4R			0.00	2.03														0.00	2.03	
H5R			0.00	1.54														0.00	1.54	
S-TOTAL			0.00	1.98														0.00	1.98	
L1L	0.00	5.07	0.14	5.08	0.01	4.98											0.00	2.64	0.15	5.07
L2L	0.04	4.85	2.44	4.90	0.66	4.75			0.10	4.33							0.03	4.47	3.28	4.85
L3L	0.13	4.20	3.36	4.47	2.14	4.25	3.61	3.78	0.70	3.48	0.07	2.27					1.44	3.49	11.45	4.01
L4L	0.04	2.69	0.62	3.38	0.42	3.22	2.24	2.72	0.28	2.42	0.16	1.73	0.15	1.67			1.63	2.51	5.54	2.70
L5L	0.01	1.93	0.10	2.57	0.02	2.39	0.41	1.86	0.03	1.85	0.06	1.32	0.27	1.41			0.40	1.75	1.30	1.77

S-TOTAL	0.22	3.99	6.67	4.51	3.24	4.20	6.26	3.27	1.11	3.25	0.30	1.77	0.42	1.50			3.51	2.84	21.72	3.67
GRADE																				
L1O	0.00	4.85	0.07	5.29	0.01	4.92													0.08	5.24
L2O	0.28	4.77	2.62	4.92	0.81	4.71			0.05										3.76	4.86
L3O	1.06	3.97	4.78	4.37	3.51	4.08	5.04	3.64	0.62	3.41	0.06	2.42							15.06	3.99
L4O	0.61	2.68	1.78	3.07	1.46	2.94	5.08	2.65	0.44	2.42	0.19	1.82							9.56	2.75
L5O	0.15	1.85	0.46	2.11	0.20	2.03	1.30	1.91	0.07	1.84	0.11	1.38							2.29	1.93
S-TOTAL	2.11	3.55	9.70	4.18	5.99	3.82	11.42	3.00	1.18	2.99	0.36	1.78							30.76	3.56
L1R			0.00	3.55															0.00	3.55
L2R	0.00	3.83	0.02	4.21	0.00	4.23	0.00	3.95											0.02	4.15
L3R	0.05	3.08	0.30	3.32	0.06	3.37	0.06	2.61	0.01	2.94	0.00	2.50							0.48	3.20
L4R	0.09	2.30	0.51	2.35	0.11	2.44	0.20	2.05	0.02	2.24	0.01	1.62							0.92	2.29
L5R	0.04	1.65	0.34	1.69	0.04	1.67	0.13	1.54	0.01	1.62	0.00	1.38							0.56	1.65
S-TOTAL	0.18	2.41	1.17	2.43	0.22	2.58	0.39	1.97	0.03	2.29	0.01	1.55							1.99	2.35
P1L	0.00	1.83	0.02	1.85	0.00	2.34											0.00	1.28	0.02	1.85
P2L	0.00	2.40	0.21	2.88	0.03	2.83	0.02	2.55	0.01	2.89	0.00	2.00			0.00	2.42	0.01	2.71	0.27	2.84
P3L	0.06	1.98	0.77	2.35	0.22	2.38	0.38	2.14	0.12	2.12	0.01	1.55			0.13	1.97	0.26	2.09	1.93	2.23
P4L	0.05	1.64	0.41	1.82	0.12	1.88	0.56	1.70	0.10	1.66	0.03	1.27			0.32	1.66	0.53	1.66	2.12	1.71

P5L	0.01	1.40	0.07	1.49	0.02	1.56	0.24	1.38	0.03	1.37	0.02	1.12			0.11	1.44	0.24	1.37	0.73	1.39
S-TOTAL	0.12	1.78	1.48	2.23	0.39	2.21	1.19	1.79	0.25	1.89	0.05	1.26			0.56	1.70	1.03	1.71	5.07	1.92
GRADE																				
P10	0.00	1.54	0.00	1.59	0.00	1.87													0.00	1.7
P20	0.00	2.39	0.01	2.53	0.00	2.51	0.00	2.70	0.00	2.69					0.00	2.01			0.02	2.53
		F		S		A		K		V		G		U		Y		O		T
P30	0.03	1.90	0.17	2.08	0.12	2.11	0.07	1.96	0.01	1.99	0.00	1.56			0.02	1.79			0.42	2.04
P40	0.08	1.54	0.34	1.64	0.22	1.72	0.30	1.64	0.03	1.55	0.00	1.33			0.12	1.57			1.09	1.64
P50	0.06	1.30	0.37	1.33	0.10	1.43	0.21	1.22	0.02	1.35	0.18	1.40			0.11	1.37			1.05	1.33
S-TOTAL	0.17	1.53	0.88	1.60	0.44	1.77	0.58	1.53	0.06	1.60	0.18	1.40			0.25	1.50			2.57	1.58
T1L	0.00	3.22	0.01	3.46	0.00	3.56	0.00	3.06	0.00	3.87							0.00	1.22	0.01	3.39
T2L	0.00	3.16	0.09	2.97	0.05	3.06	0.13	2.52	0.01	2.51	0.00	1.9					0.03	2.62	0.31	2.74
T3L	0.00	2.10	0.06	2.70	0.05	2.83	0.28	2.25	0.02	2.28	0.01	1.55					0.22	2.11	0.63	2.28
S-TOTAL	0.00	2.52	0.16	2.91	0.10	2.95	0.42	2.33	0.02	2.38	0.01	2.61					0.25	2.17	0.96	2.45
T10	0.00	3.85	0.01	4.15	0.00	3.69			0.00	4.05									0.01	4.11
T20	0.00	3.06	0.09	3.04	0.09	3.07	0.15	2.44	0.01	2.34	0.00	1.96							0.35	2.76
T30	0.00	2.46	0.07	2.45	0.11	2.56	0.49	2.10	0.01	2.16	0.01	1.61							0.69	2.20
S-TOTAL	0.01	2.81	0.17	2.88	0.20	2.80	0.64	2.18	0.02	2.26	0.01	1.67							1.05	2.41
T1R	0.00	2.22	0.00	2.11	0.00	2.60													0.00	2.32
T2R	0.00	2.52	0.00	2.25	0.00	2.35	0.00	1.69	0.00	1.81									0.01	2.24
T3R	0.00	1.75	0.02	1.79	0.00	1.92	0.02	1.52	0.00	1.79	0.00	0.78							0.04	1.66

S-TOTAL	0.00	2.13	0.02	1.88	0.00	2.00	0.02	1.52	0.00	1.79	0.00	0.78							0.05	1.73
GRADE																				
X1L	0.00	2.99	0.05	2.91	0.00	3.29			0.00	4.40									0.05	2.92
X2L	0.02	3.52	1.03	3.82	0.26	3.78	0.07	3.58	0.06	3.52	0.00	2.33			0.00	3.04	0.02	3.49	1.46	3.77
		F		S		A		K		V		G		U		Y		O		T
X3L	0.15	2.72	2.41	3.16	1.43	3.20	1.72	2.91	0.51	2.69	0.06	1.76			0.12	2.43	1.10	2.70	7.51	2.98
X4L	0.11	1.88	0.75	2.16	0.45	2.29	1.49	2.08	0.30	1.84	0.16	1.43			0.17	1.83	1.43	1.93	4.85	2.02
X5L	0.02	1.48	0.11	1.63	0.04	1.68	0.35	1.55	0.05	1.41	0.07	1.18			0.03	1.51	0.40	1.43	1.07	1.49
S-TOTAL	0.30	2.37	4.34	3.10	2.18	3.06	3.63	2.45	0.92	2.41	0.29	1.44			0.32	2.05	2.96	2.16	14.95	2.64
X1O	0.00	2.59	0.00	3.74	0.00	2.59													0.00	3.29
X2O	0.02	3.09	0.09	3.71	0.07	3.35	0.00	3.15	0.00	3.37					0.00	2.49			0.18	3.50
X3O	0.23	2.59	0.71	2.81	0.92	2.81	0.62	2.61	0.09	2.55	0.01	1.81			0.02	2.19			2.60	2.73
X4O	0.38	1.82	0.83	1.88	0.93	2.06	1.43	1.97	0.12	1.81	0.04	1.50			0.07	1.69			3.79	1.94
X5O	0.19	1.38	0.61	1.39	0.24	1.56	0.72	1.48	0.04	1.37	0.03	1.20			0.03	1.43			1.87	1.44
S-TOTAL	0.81	1.96	2.25	2.12	2.16	2.37	2.78	1.99	0.25	2.01	0.08	1.40			0.12	1.72			8.44	2.11
SUNDRIES																				
SAD																	0.20	1.24	0.20	1.24
SD																	1.46	2.41	1.46	2.41
NG/NGA																	1.30	0.84	1.30	0.84
BGD																	0.43	1.71	0.43	1.71
OTHER																	4.81	1.08	4.81	1.08

S-TOTAL																	8.20	1.32	8.20	1.32
GRAND TOTAL	4.23	2.97	28.78	3.59	15.53	3.45	27.59	2.75	4.04	2.76	1.30	1.59	0.42	1.50	1.25	1.75	16.87	1.81	100.00	2.92

7.23 Exports and value for the period 1985 – 2018

Appendix 7.23

Table 1.19: Exports mass and value

Year	Mass (metric tonnes)	Value (US\$)	Value (Z\$)	USD/KG
2018	184,166	914,345,572		4.96
2017	182,353	904,447,390		4.96
2016	164,526	933,653,445		5.67
2015	152,076	854,969,125		5.62
2014	135,508	772,524,036		5.70
2013	153,350	877,487,161		5.72
2012	129,716	770,901,059		5.94
2011	144,275	729,771,863		5.06
2010	86,815	383,976,982		4.42
2009	58,706	299,588,989		5.10
2008	61,376	197,630,720		3.22
2007	74,424	233,337,957		3.14
2006	50,347	148,955,732		2.96
2005	64,404	204,358,072		3.17
2004	69,967	226,634,094	817 041 857 488	3.24
2003	102,300	319,300,000	255 440 000 000	3.12
2002	140,215	424,514,908	233 374 124 402	3.03
2001	194,784	584,164,453	30 807 105 977	3.00
2000	182,092	530,225,245	24 600 244 715	2.91
1999	217,696	654,917,828	23 378 814 550	3.01
1998	164,156	515,501,413	9 303 348 291	3.14
1997	155,444	589,665,329	6 485 656 034	3.79
1996	186,568	687,421,948	6 681 658 128	3.68
1995	168,029	458,009,318	3 904 233 682	2.73
1994	191,658	414,810,388	3 310 186 896	2.16
1993	177,533	360,487,614	2 353 984 119	2.03
1992	144,759	449,742,020	2 248 710 099	3.11
1991	131,239	474,139,331	1 796 988 063	3.61
1990	120,149		946 36 2 435	-
1989	104,141		664 591 135	-
1988	101,730		502 820 300	-
1987	99,707		446 619 931	-

1986	98,595		435 363 139	-
1985	99,651		369 101 126	-
1984	86,666		280 481 134	-
1983	87,883		241 274 938	-
1982	80,180		191 929	-

7.24 Regional physical exports for the period 2010 – 2018

Appendix 7.24

Table 1.20: Exports by region

Mass (tonnes)	2010	2011	2012	2013	2014	2015	2016	2017	2018
EU	30,870	32,355	29,728	37,587	37,999	24,540	21,046	30,880	23,655
FAR EAST	22,749	64,853	64,889	72,411	58,131	78,679	84,931	87,337	85,818
AFRICA	15,496	24,537	21,405	26,402	20,071	26,271	32,162	39,278	44,507
MIDDLE EAST	12,858	16,892	7,712	7,661.5	10,525	10,881	10,174	12,072	17,657
REST OF EUROPE	4,190	4,062	5,366	6,987	6,747	8,445	15,695	12,038	9,549
AMERICAS	329	1,396	536.5	2,005.0	1,939.3	2,696	376,337	753	2,980
OCEANIA	323	179	79.2	297.0	115.2	537	138,600	0	198
TOTAL	86,815	144,275	129,716.3	153,350	135,508	152,076	164,526	182,353	184,166

7.25 Production and sales progress for burley tobacco

Appendix 7.25

Table 1.21: Burley tobacco production

Year	Mass sold (kg)	Average price		Area (ha)	Average yield (kg/ha)	Gross value (US\$)	
		ZW\$/kg	US\$/kg			ZW\$	US\$
2018	18,146		1.74				31 574
2014	22,654		1.09	59	384		24 693
2013	484,077		1.54	552	877		745 478
2012	62,713		2.17	150	418		136 123
2011	426 407		1.22	410	1 040		522 140
2010	340 481		1.96	376	905		667 342
2009	125 502		1.98	149	842		248 494
2008	273 462		1.79	277	987		489 497
2007	92 879		1.61	177	524		149 535
2006	302 280		0.73	562	538		220 664
2005	333 167	12 193.22	1.04	534	624	4 062 377 079	
2004	504 227	4 335.73	1.01	643	784	2 186 192 442	
2003	2 184 543	1 003.17	1.25	2643	826	2 191 473 904	
2002	3 991 522	206.62	1.30	3564	1 120	824 730 671	
2001	4 599 420	92.03	0.92	3919	1 174	423 265 014	
2000	8 162 700	40.25	0.91	6961	1 173	328 556 775	
1999	6 750 528	50.71	1.33	6724	1 004	342 333 326	
1998	8 034 662	24.80	1.32	7251	1 108	199 226 880	
1997	4 860 400	20.31	1.81	5863	829	98 701 637	
1996	6 174 941	18.82	1.92	5014	1 232	116 205 354	
1995	10 258 589	9.22	1.08	6947	1 477	94 587 922	
1994	8 553 301	10.94	1.37	5894	1 451	93 579 048	
1993	16 793 897	6.04	1.00	9945	1 689	101 362 539	
1992	10 182 192	6.10	1.21	6416	1 587	62 079 576	
1991	7 892 838	9.60		4321	1 827	75 777 906	
1990	5 893 133	4.29		3267	1 804	25 274 433	
1989	5 206 942	3.52		2683	1 941	18 308 710	
1988	3 734 386	3.69		2254	1 657	13 769 439	
1987	3 464 064	2.33		1984	1 746	8 084 228	
1986	2 664 896	2.56		1963	1 358	6 829 062	
1985	3 125 301	1.84		2591	1 206	5 746 138	
1984	5 236 825	1.43		3475	1 507	7 508 790	
1983	4 642 638	1.45		2319	2 002	6 738 311	
1982	3 655 548	1.64		2628	1 391	6 000 417	
1981	2 010 040	1.58		1621	1 240	3 170 140	

7.26 Burley Production and Average prices since 1992

Appendix 7.26

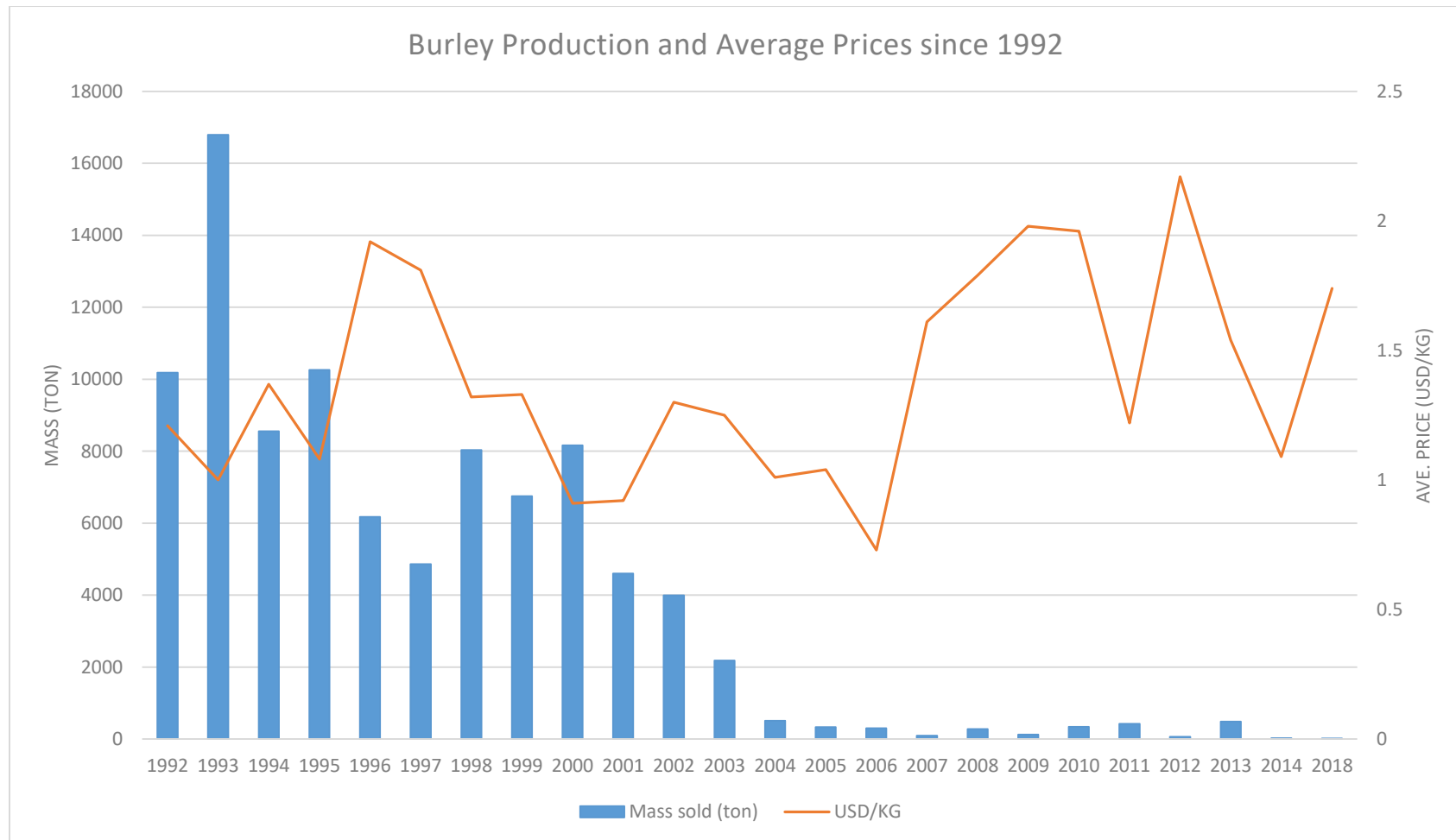


Figure 7.9: Burley tobacco production progress

7.27 Production and sales progress for oriental and dark air-cured
Appendix 7.27

Table 1.22: Dark air cured and oriental tobacco production

Year	Oriental			Dark-air cured		
	Mass sold (kg)	Average price		Mass sold (kg)	Average price	
		ZW\$/kg	US\$/kg		ZW\$/kg	US\$/kg
2018				22 192		2.18
2017				22 102		2.26
2016				10 154		2.23
2015						
2014				86 615		1.58
2013				274 058		1.57
2012				145 456		1.54
2011	-	-	-	293 873		0.67
2010	4 727		1.67	51 900		1.00
2009	5 876		2.17			
2008	3 284		2.04			
2007	28 045		1.80			
2006	14 009	133 160.47				
2005	22 538	15 441.28				
2004	26 559	5 911.52				
2003	31 565	1 080.04				
2002	23 000	148.00				
2001	53 161	80.60		60 021	94.89	
2000	38 794	61.34		38 000	94.98	
1999	31 213	46.83		38 400	80.50	
1998	28 495	21.07		30 646	44.96	
1997	23 286	13.58		33 153	27.19	
1996	42 023	8.90		50 488	18.90	
1995	30 500	8.54				
1994	45 700	7.37				
1993	122 159	8.27				
1992	44 094	8.26				
1991	63 591	5.76				
1990	53 844	4.19				
1989	37 662	3.43				
1988	23 750	3.08				
1987	23 255	2.17				
1986	19 172	1.92				
1985	30 140	1.57				
1984	32 871	1.64				
1983	13 343	1.58				
1982	19 430	1.28				

7.28 Tobacco volume by grade

Appendix 7.28

Table 1.23: Grade mass and value

GRADE	MASS (KG)	USD VALUE (\$)	USD/KG
A1E	3,924	10,241	2.61
A1EA	115	500	4.35
A1EAD	344	467	1.36
A1EF	116	262	2.26
A1EK	220	733	3.33
A1EKA	80	128	1.60
A1EKD	218	457	2.09
A1EKQ	130	649	5.00
A1L	5,621	15,795	2.81
A1LA	84	298	3.55
A1LK	58	116	2.00
A1MD	289	631	2.18
A1O	2,983	7,498	2.51
A1OA	124	248	2.00
A1OF	130	156	1.20
A1OV	74	133	1.80
A2E	1,798	2,869	1.60
A2EA	110	176	1.60
A2EK	515	829	1.61
A2EV	82	98	1.20
A2EVA	70	35	0.50
A2L	218,010	402,336	1.85
A2LA	27,995	43,205	1.54
A2LD	944	1,435	1.52
A2LF	270	339	1.26
A2LFA	671	1,531	2.28
A2LG	4,971	6,345	1.28
A2LGA	580	766	1.32
A2LJ	77	200	2.60
A2LK	118,567	180,370	1.52
A2LKA	10,140	15,201	1.50
A2LKD	123	172	1.40
A2LKG	2,771	4,005	1.44

A2LKQ	1,884	3,040	1.61
A2LKV	5,165	7,759	1.50
A2LQ	5,052	7,140	1.41
A2LV	21,097	33,144	1.57
A2LVA	861	1,321	1.53
A2LVD	99	99	1.00
A2LVQ	868	1,458	1.68
A2LY	2,001	2,807	1.40
A2MD	494,957	787,195	1.59
A2O	293,229	493,027	1.68
A2OA	82,712	121,992	1.47
A2OAQ	708	1,236	1.75
A2OD	449	716	1.59
A2OF	1,894	2,252	1.19
A2OFA	3,894	5,940	1.53
A2OG	2,188	2,877	1.31
A2OGA	724	988	1.36
A2OGD	88	106	1.20
A2OGQ	314	453	1.44
A2OK	148,649	216,576	1.46
A2OKA	22,974	33,964	1.48
A2OKD	119	238	2.00
A2OKG	1,952	3,105	1.59
A2OKQ	3,426	4,845	1.41
A2OKV	3,607	5,649	1.57
A2OQ	16,421	24,358	1.48
A2OV	20,640	30,361	1.47
A2OVA	1,372	1,890	1.38
A2OVQ	114	106	0.93
A2OY	399	525	1.32
A2R	3,904	5,776	1.48
A2RA	332	387	1.16
A2RFA	69	103	1.50
A2RQ	211	295	1.40
A3E	1,022	1,396	1.37
A3ED	601	413	0.69
A3EK	1,411	1,569	1.11
A3EKG	25	15	0.60
A3EKV	61	61	1.00
A3EV	455	593	1.30
A3L	177,741	253,974	1.43

A3LA	10,659	16,768	1.57
A3LD	6,469	7,023	1.09
A3LF	129	242	1.87
A3LG	6,417	6,495	1.01
A3LGA	200	282	1.41
A3LGD	95	123	1.30
A3LGQ	40	24	0.60
A3LJ	63	198	3.15
A3LK	83,194	116,202	1.40
A3LKA	4,365	6,756	1.55
A3LKD	323	356	1.10
A3LKG	3,879	4,590	1.18
A3LKQ	421	900	2.14
A3LKV	9,022	10,838	1.20
A3LQ	3,848	5,148	1.34
A3LV	29,231	35,464	1.21
A3LVA	607	719	1.19
A3LVD	1,548	1,558	1.01
A3LVQ	604	723	1.20
A3LY	1,395	1,711	1.23
A3LYD	115	69	0.60
A3MD	1,338,754	1,470,735	1.10
A3O	406,591	513,330	1.26
A3OA	49,798	66,100	1.33
A3OAQ	384	464	1.21
A3OD	2,507	2,327	0.93
A3OF	4,176	5,856	1.40
A3OFA	1,682	3,089	1.84
A3OG	11,133	11,522	1.04
A3OGA	206	253	1.23
A3OGQ	422	500	1.18
A3OK	138,771	181,429	1.31
A3OKA	11,610	17,805	1.53
A3OKD	41	47	1.15
A3OKG	2,704	3,093	1.14
A3OKQ	3,470	4,560	1.31
A3OKV	12,159	14,079	1.16
A3OQ	19,935	26,881	1.35
A3OV	53,356	62,033	1.16
A3OVA	652	1,048	1.61
A3OVD	114	137	1.20

A3OVQ	1,833	2,302	1.26
A3OY	538	663	1.23
A3R	20,705	24,469	1.18
A3RA	125	112	0.90
A3RF	167	217	1.30
A3RFA	274	357	1.30
A3RG	102	71	0.70
A3RK	113	135	1.20
A3RKG	98	98	1.00
A3RQ	1,606	1,561	0.97
A3RV	1,610	1,419	0.88
A3RVQ	232	99	0.43
B1	43,551	53,611	1.23
B1MD	2,371	3,200	1.35
B2	160,197	131,631	0.82
B2MD	82,101	58,677	0.71
B3	394,273	203,355	0.52
B3MD	301,411	150,508	0.50
BGD	1,090,041	1,860,467	1.71
BGR	22,010	4,642	0.21
BGRRO	3,329	-	-
BMR	587	877	1.49
C1E	18,673	66,406	3.56
C1L	57,284	284,038	4.96
C1LA	3,897	18,716	4.80
C1LF	757	3,921	5.18
C1LV	430	2,122	4.94
C1O	3,414	16,587	4.86
C1OA	833	4,098	4.92
C1OF	108	561	5.20
C1OV	308	1,019	3.31
C2E	23,317	105,847	4.54
C2EA	1,184	5,320	4.49
C2L	1,107,986	5,077,457	4.58
C2LA	311,133	1,304,730	4.19
C2LF	46,644	205,765	4.41
C2LFA	52	229	4.40
C2LJ	1,990	8,188	4.12
C2LV	37,981	161,585	4.25
C2LVA	1,451	5,801	4.00
C2MD	3,131	14,035	4.48

C2O	107,709	467,510	4.34
C2OA	103,324	416,633	4.03
C2OF	89,852	305,015	3.39
C2OFA	156	340	2.18
C2OJ	99	346	3.50
C2OV	2,654	10,919	4.11
C3E	19,244	76,507	3.98
C3EA	2,029	7,944	3.92
C3EF	116	432	3.73
C3EV	430	1,016	2.36
C3L	1,271,399	5,262,217	4.14
C3LA	494,655	1,993,776	4.03
C3LD	4,073	14,426	3.54
C3LF	166,099	661,383	3.98
C3LFA	271	939	3.47
C3LG	545	2,067	3.79
C3LJ	8,952	34,678	3.87
C3LJA	3,230	11,940	3.70
C3LJV	1,104	2,902	2.63
C3LV	217,534	763,551	3.51
C3LVA	10,437	36,322	3.48
C3MD	72,690	254,828	3.51
C3O	242,341	948,057	3.91
C3OA	267,505	976,148	3.65
C3OD	476	1,714	3.60
C3OF	265,241	879,885	3.32
C3OFA	810	2,503	3.09
C3OJ	2,984	10,143	3.40
C3OK	643	2,100	3.27
C3OV	35,394	121,403	3.43
C3OVA	8,137	27,433	3.37
C4E	1,294	3,769	2.91
C4EA	235	682	2.90
C4EV	37	57	1.55
C4L	131,735	413,782	3.14
C4LA	62,496	196,232	3.14
C4LD	1,316	3,699	2.81
C4LF	18,928	55,653	2.94
C4LFA	62	139	2.25
C4LJ	342	856	2.50
C4LV	27,805	68,762	2.47

C4MD	18,481	48,448	2.62
C4O	49,320	133,291	2.70
C4OA	87,746	232,534	2.65
C4OD	274	744	2.72
C4OF	88,145	199,793	2.27
C4OFA	753	1,335	1.77
C4OJ	658	2,110	3.21
C4OV	13,398	30,624	2.29
C4OVA	975	2,208	2.27
C5E	269	465	1.73
C5EV	78	121	1.55
C5L	7,167	15,999	2.23
C5LA	2,250	4,379	1.95
C5LF	2,466	4,422	1.79
C5LV	1,576	2,518	1.60
C5MD	3,737	6,146	1.64
C5O	13,624	23,218	1.70
C5OA	9,167	16,499	1.80
C5OD	403	532	1.32
C5OF	78,401	124,746	1.59
C5OV	1,647	2,781	1.69
CO	276	-	-
DD	876,672	414,569	0.47
DR	864	1,435	1.66
FD	11,198	17,857	1.59
H1O	106	530	5.00
H2L	430	2,036	4.74
H2O	5,638	20,373	3.61
H3L	377	1,384	3.67
H3O	32,606	91,728	2.81
H3R	223	654	2.93
H4L	255	632	2.48
H4O	23,533	49,388	2.10
H4R	384	780	2.03
H5L	62	90	1.45
H5O	20,742	32,743	1.58
H5R	521	805	1.55
KR	100	30	0.30
L1E	40,958	140,321	3.43
L1EA	89	453	5.10
L1EG	155	234	1.51

L1EK	46	193	4.20
L1L	321,698	1,703,770	5.30
L1LA	17,713	88,386	4.99
L1LD	25	50	2.00
L1LF	2,582	13,221	5.12
L1LFA	554	2,688	4.85
L1LK	919	4,061	4.42
L1LKA	516	1,697	3.29
L1LKG	117	223	1.90
L1LV	1,197	6,372	5.32
L1MD	559	1,479	2.65
L1O	172,463	916,766	5.32
L1OA	17,798	87,626	4.92
L1OF	2,496	11,919	4.77
L1OFA	4,412	21,599	4.90
L1OK	567	1,496	2.64
L1OKA	617	1,879	3.05
L1OKD	80	256	3.20
L1OKQ	115	230	2.00
L1OKV	66	86	1.30
L1OQ	424	1,652	3.90
L1OV	766	3,801	4.96
L1OVA	61	274	4.50
L1R	428	1,523	3.56
L2E	66,330	304,711	4.59
L2EA	6,592	30,037	4.56
L2EFA	56	271	4.85
L2EK	9,965	45,054	4.52
L2EKA	183	852	4.66
L2EKV	434	1,374	3.17
L2EV	5,372	20,912	3.89
L2EVA	71	255	3.60
L2L	5,395,091	26,668,258	4.94
L2LA	1,654,113	7,865,703	4.76
L2LAD	52	208	4.00
L2LAQ	967	4,481	4.63
L2LD	2,864	9,977	3.48
L2LF	67,023	326,403	4.87
L2LFA	29,449	141,761	4.81
L2LG	1,364	3,807	2.79
L2LJ	16,489	79,314	4.81

L2LJA	645	2,826	4.38
L2LK	556,792	2,595,376	4.66
L2LKA	49,317	222,999	4.52
L2LKD	114	478	4.20
L2LKG	130	656	5.05
L2LKQ	824	3,881	4.71
L2LKV	20,848	86,389	4.14
L2LQ	35,514	166,182	4.68
L2LV	230,245	1,000,756	4.35
L2LVA	21,895	94,756	4.33
L2LVD	206	412	2.00
L2LVQ	1,421	6,091	4.29
L2MD	86,909	389,108	4.48
L2O	6,038,904	29,933,340	4.96
L2OA	2,038,367	9,616,734	4.72
L2OAQ	3,104	13,791	4.44
L2OD	882	3,355	3.80
L2OF	448,536	2,170,436	4.84
L2OFA	254,559	1,187,522	4.67
L2OG	1,453	4,566	3.14
L2OGQ	102	204	2.00
L2OJ	24,871	123,285	4.96
L2OJA	329	1,665	5.06
L2OK	368,380	1,696,185	4.60
L2OKA	46,293	205,473	4.44
L2OKQ	3,159	12,613	3.99
L2OKV	7,909	31,774	4.02
L2OQ	105,806	481,297	4.55
L2OV	121,544	521,080	4.29
L2OVA	15,259	62,876	4.12
L2OVD	210	862	4.10
L2OVQ	604	2,198	3.64
L2R	39,490	166,291	4.21
L2RA	8,127	34,423	4.24
L2RF	4,397	15,890	3.61
L2RFA	4,985	20,114	4.04
L2RJ	113	429	3.80
L2RK	437	2,114	4.84
L2RQ	349	1,012	2.90
L2S	126	472	3.75
L30JQ	11,417	45,105	3.95

L3E	97,262	383,431	3.94
L3EA	18,262	74,249	4.07
L3ED	1,118	3,754	3.36
L3EF	71	213	3.00
L3EFA	158	472	2.99
L3EG	923	2,122	2.30
L3EGA	80	146	1.82
L3EK	81,757	291,512	3.57
L3EKA	6,312	22,572	3.58
L3EKD	524	1,490	2.84
L3KEG	262	543	2.07
L3EKQ	432	1,607	3.72
L3EKV	8,686	28,408	3.27
L3EQ	406	1,629	4.01
L3EV	13,735	44,012	3.20
L3EVA	1,030	3,728	3.62
L3EVD	187	411	2.20
L3EVQ	156	710	4.55
L3L	8,386,003	37,564,009	4.48
L3LA	5,310,443	22,586,071	4.25
L3LAD	13,166	51,863	3.94
L3LAQ	45,135	177,754	3.94
L3LD	119,329	431,295	3.61
L3LF	214,599	895,035	4.17
L3LFA	118,813	505,292	4.25
L3LG	167,751	379,113	2.26
L3LGA	9,235	23,230	2.52
L3LGD	1,122	2,537	2.26
L3LGQ	4,276	9,052	2.12
L3LJ	236,356	949,546	4.02
L3LJA	50,806	202,304	3.98
L3LJV	10,464	35,703	3.41
L3LK	5,451,492	20,911,047	3.84
L3LKA	1,845,780	7,064,577	3.83
L3LKD	10,131	36,277	3.58
L3LKG	25,551	59,470	2.33
L3LKQ	127,677	437,325	3.43
L3LKV	503,540	1,663,337	3.30
L3LQ	612,454	2,281,118	3.72
L3LV	1,398,721	4,927,976	3.52
L3LVA	231,997	812,331	3.50

L3LVD	22,007	66,389	3.02
L3LVQ	85,652	259,980	3.04
L3M	1,588	6,302	3.97
L3MD	3,639,355	12,693,375	3.49
L3MF	751	2,119	2.82
L3O	12,044,414	52,727,203	4.38
L3OA	8,715,576	35,685,768	4.09
L3OAD	9,752	36,601	3.75
L3OAQ	134,496	484,401	3.60
L3OD	42,540	160,825	3.78
L3OF	1,373,091	5,535,955	4.03
L3OFA	1,300,595	5,078,688	3.90
L3OG	118,008	283,172	2.40
L3OGA	17,238	47,091	2.73
L3OGD	84	117	1.40
L3OGQ	7,333	14,664	2.00
L3OJ	183,558	718,644	3.92
L3OJA	42,244	158,247	3.75
L3OJQ	243	768	3.16
L3OJV	3,865	12,595	3.26
L3OK	6,560,959	24,528,551	3.74
L3OKA	2,938,387	10,791,657	3.67
L3OKD	8,047	27,816	3.46
L3OKG	21,806	53,019	2.43
L3OKQ	372,237	1,215,800	3.27
L3OKV	387,638	1,235,272	3.19
L3OQ	2,131,699	7,367,906	3.46
L3OV	1,123,362	3,845,176	3.42
L3OVA	321,353	1,120,823	3.49
L3OVD	4,463	12,759	2.86
L3OVQ	111,055	348,086	3.13
L3R	757,698	2,519,612	3.33
L3RA	152,452	514,398	3.37
L3RAD	207	660	3.19
L3RAQ	679	2,230	3.29
L3RD	1,840	5,781	3.14
L3RF	74,497	228,010	3.06
L3RFA	55,229	171,956	3.11
L3RG	840	2,103	2.50
L3RJ	8,043	23,952	2.98
L3RJV	119	380	3.20

L3RK	21,235	62,710	2.95
L3RKA	1,516	5,224	3.45
L3RKQ	2,360	4,747	2.01
L3RKV	709	1,847	2.61
L3RQ	121,735	305,814	2.51
L3RV	14,047	41,171	2.93
L3RVA	2,581	8,294	3.21
L3RVQ	1,416	3,556	2.51
L3S	1,735	3,802	2.19
L3SA	76	133	1.75
L3SFA	25	120	4.80
L3SKA	123	590	4.80
L3SKQ	224	748	3.34
L3SKV	35	70	2.00
L3SQ	114	456	4.00
L3SVA	55	225	4.10
L4E	11,307	31,129	2.75
L4EA	1,076	3,179	2.96
L4EAD	324	882	2.72
L4EAQ	122	456	3.74
L4ED	518	926	1.79
L4EG	1,945	3,422	1.76
L4EGA	90	125	1.39
L4EK	27,426	70,139	2.56
L4EKA	3,410	9,492	2.78
L4EKD	117	288	2.46
L4EKG	891	1,512	1.70
L4EKQ	423	749	1.77
L4EKV	2,628	5,465	2.08
L4EQ	154	365	2.37
L4EV	2,158	5,120	2.37
L4EVA	106	244	2.30
L4EVD	84	201	2.40
L4EVQ	46	76	1.65
L4F	116	264	2.27
L4L	1,563,361	5,289,080	3.38
L4LA	1,020,062	3,301,576	3.24
L4LAD	19,629	51,174	2.61
L4LAQ	18,125	54,564	3.01
L4LD	154,424	388,042	2.51
L4LF	71,174	187,317	2.63

L4LFA	20,979	60,581	2.89
L4LG	352,534	601,333	1.71
L4LGA	21,602	41,020	1.90
L4LGD	6,831	11,969	1.75
L4LGQ	23,046	43,480	1.89
L4LJ	174,112	549,823	3.16
L4LJA	39,391	128,069	3.25
L4LJQ	77	179	2.33
L4LJV	5,800	14,863	2.56
L4LK	3,164,442	8,604,350	2.72
L4LKA	1,099,885	3,157,519	2.87
L4LKD	27,769	74,279	2.67
L4LKG	128,819	241,991	1.88
L4LKQ	145,524	379,181	2.61
L4LKV	432,452	1,041,195	2.41
L4LQ	248,262	701,943	2.83
L4LV	519,017	1,267,852	2.44
L4LVA	88,470	222,871	2.52
L4LVD	34,129	71,182	2.09
L4LVQ	69,835	160,135	2.29
L4MD	4,110,894	10,336,024	2.51
L4MF	422	1,085	2.57
L4O	4,495,211	13,804,236	3.07
L4OA	3,531,376	10,432,333	2.95
L4OAD	27,068	66,171	2.44
L4OAQ	132,832	380,361	2.86
L4OD	126,565	312,697	2.47
L4OF	837,541	2,247,337	2.68
L4OFA	711,393	1,903,721	2.68
L4OG	372,205	665,775	1.79
L4OGA	52,380	103,623	1.98
L4OGD	2,582	4,635	1.79
L4OGQ	50,652	95,964	1.89
L4OJ	189,653	555,610	2.93
L4OJA	44,987	135,071	3.00
L4OJQ	899	2,362	2.63
L4OJV	4,803	12,677	2.64
L4OK	6,241,614	16,649,062	2.67
L4OKA	2,703,419	7,628,535	2.82
L4OKD	37,566	94,232	2.51
L4OKG	180,032	343,258	1.91

L4OKQ	896,382	2,245,123	2.50
L4OKV	463,967	1,106,402	2.38
L4OQ	1,915,925	4,875,386	2.54
L4OV	705,701	1,723,200	2.44
L4OVA	190,429	470,870	2.47
L4OVD	17,909	38,319	2.14
L4OVQ	185,363	430,365	2.32
L4R	1,258,208	2,980,003	2.37
L4RA	271,333	664,901	2.45
L4RAD	921	1,732	1.88
L4RAQ	4,456	10,086	2.26
L4RD	10,855	21,488	1.98
L4RF	109,252	238,815	2.19
L4RFA	109,451	264,256	2.41
L4RG	10,946	17,344	1.58
L4RGA	655	1,344	2.05
L4RGQ	1,503	2,566	1.71
L4RJ	23,606	52,372	2.22
L4RJA	1,044	2,318	2.22
L4RIQ	72	230	3.20
L4RK	59,955	133,936	2.23
L4RKA	3,232	7,484	2.32
L4RKD	176	287	1.63
L4RKG	301	504	1.67
L4RKQ	8,800	16,815	1.91
L4RKV	1,158	2,020	1.74
L4RQ	383,361	775,176	2.02
L4RV	30,088	69,949	2.32
L4RVA	2,450	5,401	2.20
L4RVQ	7,922	15,280	1.93
L4S	19,188	28,857	1.50
L4SA	787	1,262	1.60
L4SD	319	1,257	3.94
L4SF	79	110	1.40
L4SFA	72	86	1.20
L4SK	243	660	2.72
L4SKA	130	354	2.73
L4SKQ	112	336	3.00
L4SKV	94	207	2.20
L4SQ	1,482	1,797	1.21
L4SV	29	58	2.00

L4U	369,314	617,583	1.67
L4UG	1,086	2,024	1.86
L5E	3,649	6,158	1.69
L5EAQ	89	107	1.20
L5EF	116	166	1.43
L5EG	473	513	1.08
L5EK	5,429	10,001	1.84
L5EKD	118	354	3.00
L5EKG	231	397	1.72
L5L	250,328	646,902	2.58
L5LA	45,523	112,785	2.48
L5LAD	6,436	11,557	1.80
L5LAQ	1,071	2,714	2.53
L5LD	39,678	71,637	1.81
L5LF	14,808	28,735	1.94
L5LFA	1,815	3,370	1.86
L5LG	140,791	185,176	1.32
L5LGA	6,336	8,795	1.39
L5LGD	5,260	7,207	1.37
L5LGQ	4,884	6,417	1.31
L5LJ	13,081	32,509	2.49
L5LJA	2,389	5,489	2.30
L5LJV	117	327	2.79
L5LK	568,257	1,073,072	1.89
L5LKA	206,222	402,298	1.95
L5LKD	14,175	28,063	1.98
L5LKG	77,779	108,914	1.40
L5LKQ	16,030	32,509	2.03
L5LKV	72,078	122,063	1.69
L5LQ	18,858	42,081	2.23
L5LV	48,237	92,139	1.91
L5LVA	4,967	8,944	1.80
L5LVD	9,471	14,857	1.57
L5LVQ	6,680	12,230	1.83
L5MD	1,005,925	1,757,625	1.75
L5O	1,160,244	2,448,743	2.11
L5OA	446,045	908,518	2.04
L5OAD	24,264	40,413	1.67
L5OAQ	26,209	59,378	2.27
L5OD	166,723	279,751	1.68
L5OF	256,089	459,326	1.79

L5OFA	129,390	252,892	1.95
L5OG	235,550	323,449	1.37
L5OGA	11,672	16,284	1.40
L5OGD	4,002	5,368	1.34
L5OGQ	23,910	34,576	1.45
L5OJ	38,325	75,667	1.97
L5OJA	5,888	12,260	2.08
L5OJV	476	745	1.57
L5OK	1,713,934	3,305,443	1.93
L5OKA	528,910	1,061,424	2.01
L5OKD	55,136	109,578	1.99
L5OKG	132,934	187,615	1.41
L5OKQ	213,301	424,730	1.99
L5OKV	93,205	163,863	1.76
L5OQ	334,873	649,076	1.94
L5OV	118,403	218,925	1.85
L5OVA	17,716	32,270	1.82
L5OVD	9,571	15,141	1.58
L5OVQ	38,519	72,373	1.88
L5R	818,163	1,400,855	1.71
L5RA	98,408	166,666	1.69
L5RAD	3,072	3,998	1.30
L5RAQ	4,227	6,379	1.51
L5RD	32,701	44,567	1.36
L5RF	54,439	89,348	1.64
L5RFA	45,229	75,318	1.67
L5RG	8,407	11,577	1.38
L5RGA	342	547	1.60
L5RGQ	964	1,275	1.32
L5RJ	12,384	17,538	1.42
L5RJV	80	192	2.40
L5RK	47,978	80,649	1.68
L5RKA	2,783	5,469	1.96
L5RKD	944	1,400	1.48
L5RKG	1,132	1,265	1.12
L5RKQ	8,406	13,582	1.62
L5RKV	405	552	1.36
L5RQ	207,627	325,024	1.57
L5RV	10,078	17,483	1.73
L5RVA	397	678	1.71
L5RVD	945	1,372	1.45

L5RVQ	3,024	3,897	1.29
L5S	43,679	52,970	1.21
L5SA	1,682	2,498	1.49
L5SD	155	230	1.48
L5SF	78	249	3.20
L5SK	98	108	1.10
L5SKD	63	69	1.10
L5SQ	10,204	9,625	0.94
L5U	678,243	960,473	1.42
L5UG	4,289	3,571	0.83
LD	854,869	625,207	0.73
LR	39,372	11,028	0.28
LRRO	303	-	-
LSA	153	127	0.83
MR	3,931	3,468	0.88
NDR	139	-	-
NE	18,382	15,024	0.82
NG	1,980,907	2,046,788	1.03
NGA	738,087	270,854	0.37
NGAG	56,346	27,117	0.48
NGG	502,044	396,958	0.79
NGU	681	756	1.11
NR	61,080	87,760	1.44
NRCO	155	-	-
NRRO	244	-	-
OR	5,198	7,851	1.51
ORRO	653	-	-
OT	17,846	29,977	1.68
P1E	34,866	58,777	1.69
P1EAQ	82	123	1.50
P1EGA	37	59	1.60
P1L	7,648	19,964	2.61
P1LA	160	343	2.14
P1LF	243	444	1.83
P1LK	105	183	1.74
P1LKA	84	143	1.70
P1LKD	49	29	0.60
P1LV	48	144	3.00
P1MD	265	338	1.27
P1O	411	655	1.59
P1OA	84	172	2.05

P1OF	26	40	1.55
P1OK	52	75	1.45
P1OY	91	195	2.14
P1OYD	41	57	1.40
P2E	35,091	104,058	2.97
P2EA	1,829	5,370	2.94
P2ED	127	341	2.69
P2EG	21	23	1.10
P2EK	1,951	5,195	2.66
P2EKV	40	84	2.10
P2EV	1,234	3,705	3.00
P2EY	211	616	2.92
P2L	487,886	1,401,139	2.87
P2LA	63,852	180,894	2.83
P2LD	11,932	26,371	2.21
P2LF	5,928	14,241	2.40
P2LFA	88	216	2.46
P2LG	291	601	2.07
P2LJ	15,244	41,189	2.70
P2LJA	153	430	2.81
P2LJV	32	43	1.35
P2LK	12,820	34,321	2.68
P2LKA	625	1,759	2.81
P2LKD	113	275	2.44
P2LKV	508	1,019	2.01
P2LQ	332	944	2.84
P2LV	21,989	63,257	2.88
P2LVA	1,408	4,311	3.06
P2LVD	84	285	3.40
P2LY	4,995	12,005	2.40
P2LYD	298	713	2.39
P2MD	13,414	36,400	2.71
P2O	23,767	60,289	2.54
P2OA	11,466	28,826	2.51
P2OD	87	162	1.86
P2OF	2,633	6,306	2.39
P2OFA	286	673	2.35
P2OJ	238	630	2.65
P2OK	1,213	2,392	1.97
P2OKA	157	406	2.59
P2OQ	476	2,283	4.80

P2OV	296	741	2.50
P2OVA	58	209	3.60
P2OY	184	368	2.00
P3E	63,114	156,992	2.49
P3EA	3,831	10,121	2.64
P3EAD	85	272	3.20
P3ED	3,755	8,067	2.15
P3EF	63	151	2.40
P3EG	662	1,174	1.77
P3EJ	165	465	2.82
P3EK	19,868	48,734	2.45
P3EKA	932	2,213	2.37
P3EKD	119	319	2.68
P3EKG	40	66	1.65
P3EKV	1,396	3,212	2.30
P3EQ	49	137	2.80
P3EV	6,928	17,152	2.48
P3EVA	190	407	2.14
P3EVD	78	109	1.40
P3EY	2,041	4,383	2.15
P3EYD	312	678	2.17
P3L	1,876,755	4,405,237	2.35
P3LA	540,709	1,286,373	2.38
P3LAD	1,041	2,216	2.13
P3LAQ	778	2,009	2.58
P3LD	258,048	495,807	1.92
P3LF	137,589	271,468	1.97
P3LFA	2,612	6,129	2.35
P3LG	13,826	22,144	1.60
P3LGA	336	810	2.41
P3LGD	3,019	3,479	1.15
P3LJ	83,462	195,789	2.35
P3LJA	7,602	18,410	2.42
P3LJV	1,830	3,459	1.89
P3LK	463,913	1,023,012	2.21
P3LKA	57,384	126,772	2.21
P3LKD	2,165	4,736	2.19
P3LKG	1,085	1,820	1.68
P3LKQ	2,494	5,481	2.20
P3LKV	24,328	51,221	2.11
P3LQ	20,715	46,677	2.25

P3LV	235,601	512,578	2.18
P3LVA	13,465	30,612	2.27
P3LVD	37,129	61,249	1.65
P3LVQ	1,581	3,932	2.49
P3LY	318,109	628,507	1.98
P3LYD	7,896	14,382	1.82
P3MD	662,528	1,387,227	2.09
P3O	420,246	875,928	2.08
P3OA	291,658	614,567	2.11
P3OAD	374	772	2.06
P3OAQ	831	1,876	2.26
P3OD	14,621	24,200	1.66
P3OF	69,152	130,033	1.88
P3OFA	9,779	19,682	2.01
P3OG	1,171	1,856	1.59
P3OGA	80	112	1.40
P3OGD	89	124	1.40
P3OJ	12,065	23,905	1.98
P3OK	111,439	220,745	1.98
P3OKA	30,277	61,505	2.03
P3OKD	671	1,374	2.05
P3OKQ	645	1,434	2.22
P3OKV	5,322	10,250	1.93
P3OQ	6,885	13,085	1.90
P3OV	24,717	50,077	2.03
P3OVA	4,989	10,262	2.06
P3OVD	3,229	5,270	1.63
P3OVQ	279	635	2.28
P3OY	45,271	81,344	1.80
P3OYD	1,078	1,755	1.63
P4E	10,832	19,256	1.78
P4EA	1,382	2,649	1.92
P4EAQ	52	109	2.10
P4ED	1,387	2,482	1.79
P4EF	75	135	1.80
P4EG	626	873	1.39
P4EK	5,612	11,871	2.12
P4EKA	544	988	1.82
P4EKG	44	84	1.90
P4EKV	357	563	1.58
P4EV	1,319	2,540	1.93

P4EVA	34	68	2.00
P4EY	1,970	3,521	1.79
P4L	1,026,139	1,865,251	1.82
P4LA	300,113	564,914	1.88
P4LAD	9,716	17,060	1.76
P4LAQ	1,439	3,159	2.20
P4LD	589,610	911,995	1.55
P4LF	133,910	220,465	1.65
P4LFA	2,607	4,230	1.62
P4LG	48,244	64,027	1.33
P4LGA	1,337	2,050	1.53
P4LGD	16,161	17,541	1.09
P4LGQ	159	270	1.70
P4LJ	19,149	34,124	1.78
P4LJA	1,911	3,593	1.88
P4LJV	180	389	2.16
P4LK	621,232	1,131,211	1.82
P4LKA	87,674	161,329	1.84
P4LKD	13,499	24,256	1.80
P4LKG	7,060	11,482	1.63
P4LKQ	7,023	12,280	1.75
P4LKV	34,686	59,724	1.72
P4LQ	21,151	40,823	1.93
P4LV	164,956	284,997	1.73
P4LVA	12,005	21,932	1.83
P4LVD	69,173	100,764	1.46
P4LVQ	1,826	3,412	1.87
P4LY	732,988	1,224,127	1.67
P4LYD	69,054	109,059	1.58
P4MD	1,331,102	2,212,909	1.66
P4O	850,309	1,397,267	1.64
P4OA	550,679	947,548	1.72
P4OAD	6,522	10,437	1.60
P4OAQ	4,589	9,161	2.00
P4OD	162,055	238,270	1.47
P4OF	184,325	282,998	1.54
P4OFA	17,607	28,854	1.64
P4OG	7,243	10,047	1.39
P4OGA	732	1,231	1.68
P4OGD	2,479	2,652	1.07
P4OGQ	69	124	1.80

P4OJ	12,606	20,081	1.59
P4OJA	3,191	5,463	1.71
P4OJV	151	201	1.33
P4OK	432,546	727,852	1.68
P4OKA	88,799	156,624	1.76
P4OKD	4,674	7,133	1.53
P4OKG	2,389	3,800	1.59
P4OKQ	7,243	12,279	1.70
P4OKV	9,763	15,863	1.62
P4OQ	24,779	40,619	1.64
P4OV	44,465	70,185	1.58
P4OVA	9,663	15,276	1.58
P4OVD	10,756	15,120	1.41
P4OVQ	796	1,583	1.99
P4OY	288,687	454,491	1.57
P4OYD	17,299	26,237	1.52
P5E	4,055	5,714	1.41
P5EA	169	315	1.87
P5EAD	206	426	2.07
P5EAQ	52	86	1.65
P5ED	182	181	1.00
P5EF	34	37	1.10
P5EG	33	40	1.20
P5EK	1,548	2,479	1.60
P5EKA	107	171	1.60
P5EKQ	54	65	1.20
P5EKV	122	219	1.80
P5EQ	32	48	1.50
P5EV	131	190	1.45
P5EY	241	411	1.71
P5L	184,942	275,815	1.49
P5LA	38,351	60,242	1.57
P5LAD	8,068	12,218	1.51
P5LD	368,921	477,951	1.30
P5LF	30,157	42,185	1.40
P5LFA	102	169	1.66
P5LG	31,203	35,637	1.14
P5LGA	151	178	1.18
P5LGD	14,514	15,861	1.09
P5LGQ	250	181	0.73
P5LJ	2,140	3,484	1.63

P5LK	177,963	271,751	1.53
P5LKA	30,372	46,399	1.53
P5LKD	10,257	14,894	1.45
P5LKG	5,324	6,927	1.30
P5LKQ	1,778	2,849	1.60
P5LKV	7,785	11,163	1.43
P5LQ	2,688	4,005	1.49
P5LV	28,862	39,857	1.38
P5LVA	1,771	2,687	1.52
P5LVD	31,869	42,897	1.35
P5LVQ	490	834	1.70
P5LY	201,442	292,025	1.45
P5LYD	63,456	90,405	1.42
P5MD	592,947	810,658	1.37
P5O	930,927	1,234,780	1.33
P5OA	226,941	325,225	1.43
P5OAD	13,286	18,062	1.36
P5OAQ	2,690	4,541	1.69
P5OD	513,753	620,318	1.21
P5OF	142,193	183,882	1.29
P5OFA	9,376	12,941	1.38
P5OG	13,679	16,432	1.20
P5OGA	87	104	1.20
P5OGD	1,396	1,659	1.19
P5OGQ	372	593	1.59
P5OJ	4,660	6,255	1.34
P5OK	346,593	488,401	1.41
P5OKA	51,874	75,446	1.45
P5OKD	17,224	23,146	1.34
P5OKG	2,779	3,285	1.18
P5OKQ	9,115	13,736	1.51
P5OKV	3,291	4,572	1.39
P5OQ	26,965	38,222	1.42
P5OV	23,346	31,472	1.35
P5OVA	2,623	3,393	1.29
P5OVD	17,410	23,757	1.36
P5OVQ	649	901	1.39
P5OY	240,499	330,894	1.38
P5OYD	43,058	56,916	1.32
PTL	7,389,937	8,783,877	1.19
PTLMD	432,579	443,231	1.02

PTMD	85,957	84,919	0.99
PTO	4,904	6,670	1.36
RO	137	246	1.80
RR	15,938	17,103	1.07
SAD	507,678	632,065	1.25
SD	3,677,134	8,867,811	2.41
T1E	1,283	3,569	2.78
T1L	29,909	104,427	3.49
T1LA	3,646	12,840	3.52
T1LD	36	129	3.60
T1LJ	95	109	1.15
T1LK	395	1,329	3.37
T1LKA	92	400	4.35
T1LQ	74	148	2.00
T1LV	695	2,692	3.87
T1MD	1,256	1,533	1.22
T1O	25,092	107,928	4.30
T1OA	2,554	9,579	3.75
T1OAQ	130	338	2.60
T1OF	219	842	3.85
T1OK	3,984	13,310	3.34
T1OKA	114	421	3.70
T1OKV	120	504	4.20
T1OQ	245	565	2.31
T1OV	778	3,152	4.05
T1R	38	80	2.10
T1RA	70	182	2.60
T1RF	52	104	2.00
T1RFA	64	153	2.40
T2E	3,888	11,306	2.91
T2EA	246	915	3.72
T2ED	114	398	3.49
T2EK	1,936	4,747	2.45
T2EKA	269	724	2.69
T2EV	305	964	3.16
T2L	214,865	638,873	2.97
T2LA	125,008	381,757	3.05
T2LAD	395	1,354	3.43
T2LAQ	283	1,068	3.77
T2LD	1,159	3,850	3.32
T2LFA	365	1,157	3.17

T2LG	3,555	6,516	1.83
T2LGA	234	524	2.24
T2LGD	248	496	2.00
T2LGQ	124	359	2.90
T2LJ	2,063	5,312	2.58
T2LJA	32	59	1.85
T2LK	243,786	612,582	2.51
T2LKA	59,294	154,344	2.60
T2LKD	403	1,283	3.18
T2LKG	3,706	7,219	1.95
T2LKQ	3,175	7,071	2.23
T2LKV	13,430	30,546	2.27
T2LQ	7,336	19,906	2.71
T2LV	19,035	47,518	2.50
T2LVA	3,059	7,491	2.45
T2LVD	89	356	4.00
T2LVQ	430	1,226	2.85
T2MD	76,472	200,155	2.62
T2O	223,308	679,017	3.04
T2OA	225,775	693,921	3.07
T2OAD	587	2,104	3.58
T2OAQ	3,264	10,034	3.07
T2OD	600	1,438	2.40
T2OF	3,777	11,648	3.08
T2OFA	6,841	20,899	3.06
T2OG	3,132	6,286	2.01
T2OGA	848	1,660	1.96
T2OGQ	220	310	1.41
T2OJ	975	1,874	1.92
T2OJA	216	599	2.77
T2OJV	130	156	1.20
T2OK	255,853	627,410	2.45
T2OKA	83,985	208,704	2.49
T2OKD	222	465	2.10
T2OKG	3,772	7,667	2.03
T2OKQ	7,032	15,803	2.25
T2OKV	11,764	24,856	2.11
T2OQ	23,190	58,526	2.52
T2OV	14,611	34,107	2.33
T2OVA	4,998	12,268	2.45
T2OVQ	914	1,631	1.78

T2R	11,007	24,775	2.25
T2RA	2,348	5,524	2.35
T2RF	313	649	2.07
T2RFA	349	1,024	2.94
T2RK	438	779	1.78
T2RQ	334	527	1.58
T2RV	238	407	1.71
T2RVA	43	103	2.40
T2RVQ	43	77	1.80
T3E	4,259	11,302	2.65
T3EA	720	2,383	3.31
T3ED	415	1,221	2.94
T3EK	6,797	14,118	2.08
T3EKA	720	1,855	2.58
T3EKD	689	2,254	3.27
T3EKG	117	180	1.54
T3EKQ	155	212	1.37
T3EKV	571	1,260	2.21
T3EV	651	1,293	1.99
T3EVD	36	54	1.50
T3L	145,559	393,527	2.70
T3LA	106,801	303,308	2.84
T3LAD	15,214	40,352	2.65
T3LAQ	4,269	13,622	3.19
T3LD	48,493	132,213	2.73
T3LF	828	1,743	2.11
T3LG	17,625	26,919	1.53
T3LGA	703	1,327	1.89
T3LGD	298	614	2.06
T3LGQ	310	472	1.52
T3LJ	21,441	49,723	2.32
T3LJA	2,193	4,991	2.28
T3LJV	1,166	2,209	1.89
T3LK	401,716	860,943	2.14
T3LKA	90,644	214,075	2.36
T3LKD	79,715	200,620	2.52
T3LKG	15,470	23,873	1.54
T3LKQ	7,984	18,706	2.34
T3LKV	29,173	59,805	2.05
T3LQ	9,809	25,325	2.58
T3LV	23,139	50,591	2.19

T3LVA	5,468	13,360	2.44
T3LVD	7,544	19,085	2.53
T3LVQ	1,051	2,094	1.99
T3MD	544,677	1,152,863	2.12
T3O	170,298	418,258	2.46
T3OA	199,717	520,716	2.61
T3OAD	37,273	80,343	2.16
T3OAQ	37,190	100,830	2.71
T3OD	88,595	180,729	2.04
T3OF	6,245	15,971	2.56
T3OFA	2,327	5,133	2.21
T3OG	15,182	24,323	1.60
T3OGA	1,490	2,968	1.99
T3OGD	1,045	1,303	1.25
T3OGQ	1,403	2,169	1.55
T3OJ	23,926	47,893	2.00
T3OJV	517	1,164	2.25
T3OK	678,068	1,399,145	2.06
T3OKA	170,902	398,371	2.33
T3OKD	94,547	200,254	2.12
T3OKG	23,032	36,024	1.56
T3OKQ	69,488	149,149	2.15
T3OKV	31,051	61,173	1.97
T3OQ	54,860	118,104	2.15
T3OV	17,340	37,813	2.18
T3OVA	5,649	12,591	2.23
T3OVD	5,280	10,519	1.99
T3OVQ	4,680	10,393	2.22
T3R	42,546	76,272	1.79
T3RA	9,678	18,622	1.92
T3RAD	73	120	1.65
T3RAQ	54	54	1.00
T3RD	23,976	34,375	1.43
T3RF	495	859	1.73
T3RFA	218	393	1.80
T3RG	189	147	0.78
T3RK	10,264	16,080	1.57
T3RKA	706	1,376	1.95
T3RKD	244	340	1.39
T3RKG	48	79	1.64
T3RKQ	283	380	1.34

T3RQ	21,612	34,181	1.58
T3RV	699	1,152	1.65
T3RVQ	213	477	2.24
T3SD	26	39	1.50
T3SKA	74	100	1.35
TILF	163	524	3.22
TM	96	-	-
TMRO	534	-	-
TT	186,642	344,540	1.85
TTCO	58	130	2.25
TTL	2,346,536	2,654,436	1.13
TTLMD	125,089	134,088	1.07
TTRO	509	-	-
WR	22,834	43,199	1.89
WRRH	76	-	-
X1E	81,695	184,605	2.26
X1EAD	156	290	1.86
X1EK	657	1,959	2.98
X1L	33,914	152,490	4.50
X1LA	1,440	5,599	3.89
X1LF	186	605	3.25
X1LFA	66	277	4.20
X1LK	175	393	2.25
X1LQ	128	166	1.30
X1LV	120	528	4.40
X1MD	166	597	3.60
X1O	1,222	4,572	3.74
X1OA	193	609	3.16
X1OF	259	672	2.59
X1OK	74	270	3.65
X1OKA	267	504	1.89
X2E	153,035	567,362	3.71
X2EA	12,128	43,731	3.61
X2EAQ	119	416	3.50
X2ED	1,089	2,835	2.60
X2EJ	256	948	3.70
X2EK	8,609	30,891	3.59
X2EKA	203	781	3.85
X2EKV	687	2,795	4.07
X2EV	12,381	42,539	3.44
X2EVA	445	1,705	3.83

X2EVD	119	357	3.00
X2EY	213	725	3.40
X2L	2,432,835	9,308,585	3.83
X2LA	649,710	2,458,960	3.78
X2LAQ	407	1,768	4.35
X2LD	30,841	94,940	3.08
X2LF	29,236	99,771	3.41
X2LFA	11,677	44,368	3.80
X2LG	1,493	3,143	2.11
X2LGA	192	785	4.09
X2LJ	27,245	94,223	3.46
X2LJA	2,138	7,239	3.39
X2LJV	284	1,078	3.80
X2LK	89,861	341,012	3.79
X2LKA	9,163	33,561	3.66
X2LKG	45	92	2.05
X2LKV	2,243	8,198	3.66
X2LQ	2,710	9,612	3.55
X2LV	133,173	469,979	3.53
X2LVA	12,193	44,157	3.62
X2LVD	1,613	4,741	2.94
X2LVQ	122	224	1.83
X2LY	8,364	25,361	3.03
X2MD	56,610	197,509	3.49
X2O	233,598	866,201	3.71
X2OA	169,954	569,579	3.35
X2OD	803	2,470	3.08
X2OF	31,018	88,600	2.86
X2OFA	13,591	49,177	3.62
X2OJ	171	408	2.39
X2OJA	57	148	2.60
X2OK	5,307	17,109	3.22
X2OKA	1,915	5,574	2.91
X2OKV	56	210	3.75
X2OQ	407	1,517	3.73
X2OV	5,782	19,302	3.34
X2OVA	1,414	4,958	3.51
X2OY	80	199	2.49
X3E	214,202	693,317	3.24
X3EA	30,935	104,423	3.38
X3EAD	126	566	4.50

X3ED	8,591	23,165	2.70
X3EF	330	782	2.37
X3EG	1,969	3,993	2.03
X3EGA	308	598	1.94
X3EGQ	88	79	0.90
X3EK	102,311	320,323	3.13
X3EKA	8,102	25,884	3.19
X3EKD	1,171	2,899	2.48
X3EKG	225	774	3.44
X3EKV	10,277	29,020	2.82
X3EQ	214	591	2.76
X3EV	28,597	87,580	3.06
X3EVA	2,939	9,076	3.09
X3EVD	2,032	4,116	2.03
X3EVQ	208	566	2.72
X3EY	2,885	7,494	2.60
X3L	5,865,609	18,530,075	3.16
X3LA	3,572,980	11,431,630	3.20
X3LAD	4,700	14,549	3.10
X3LAQ	10,102	30,575	3.03
X3LD	509,694	1,283,121	2.52
X3LF	325,735	860,805	2.64
X3LFA	61,520	195,319	3.17
X3LG	130,625	229,042	1.75
X3LGA	7,070	15,652	2.21
X3LGD	11,414	16,975	1.49
X3LGQ	980	2,184	2.23
X3LJ	102,239	296,980	2.90
X3LJA	23,329	70,049	3.00
X3LJV	1,995	5,073	2.54
X3LK	2,412,310	7,107,149	2.95
X3LKA	801,106	2,437,445	3.04
X3LKD	10,756	26,067	2.42
X3LKG	7,244	15,140	2.09
X3LKQ	18,043	50,334	2.79
X3LKV	186,771	533,541	2.86
X3LKY	238	492	2.07
X3LQ	121,023	349,340	2.89
X3LV	1,017,768	2,758,991	2.71
X3LVA	132,721	394,291	2.97
X3LVD	87,258	182,471	2.09

X3LVQ	19,341	44,251	2.29
X3LY	295,891	721,217	2.44
X3LYD	12,305	29,221	2.37
X3MD	2,781,965	7,512,337	2.70
X3O	1,798,498	5,057,662	2.81
X3OA	2,317,505	6,528,427	2.82
X3OAD	1,043	3,015	2.89
X3OAQ	7,761	21,721	2.80
X3OD	58,488	139,348	2.38
X3OF	348,233	854,821	2.45
X3OFA	224,382	629,152	2.80
X3OG	13,172	23,849	1.81
X3OGA	1,341	3,136	2.34
X3OGD	744	848	1.14
X3OGQ	387	470	1.21
X3OJ	18,922	46,732	2.47
X3OJA	11,633	30,990	2.66
X3OJV	718	1,656	2.31
X3OK	819,776	2,093,078	2.55
X3OKA	538,191	1,484,511	2.76
X3OKD	3,371	8,263	2.45
X3OKG	2,189	4,940	2.26
X3OKQ	12,421	30,049	2.42
X3OKV	32,644	81,806	2.51
X3OQ	67,244	163,268	2.43
X3OV	162,095	412,968	2.55
X3OVA	46,551	124,437	2.67
X3OVD	5,096	10,219	2.01
X3OVQ	5,129	10,798	2.11
X3OY	51,318	112,862	2.20
X3OYD	574	1,054	1.84
X4E	37,771	81,060	2.15
X4EA	4,909	12,710	2.59
X4EAD	56	76	1.35
X4ED	4,161	7,436	1.79
X4EF	164	226	1.38
X4EG	2,627	4,221	1.61
X4EGD	110	132	1.20
X4EGQ	122	244	2.00
X4EK	28,426	64,601	2.27
X4EKA	2,911	6,814	2.34

X4EKD	1,161	1,801	1.55
X4EKG	364	480	1.32
X4EKQ	50	150	3.00
X4EKV	3,730	7,944	2.13
X4EV	3,957	8,507	2.15
X4EVA	218	369	1.70
X4EVD	3,646	4,962	1.36
X4EVQ	34	68	2.00
X4EY	1,270	2,230	1.76
X4L	1,854,420	4,012,329	2.16
X4LA	1,099,573	2,528,887	2.30
X4LAD	21,544	40,573	1.88
X4LAQ	6,548	15,824	2.42
X4LD	764,361	1,310,425	1.71
X4LF	267,087	497,567	1.86
X4LFA	18,042	38,941	2.16
X4LG	306,786	436,027	1.42
X4LGA	14,203	24,952	1.76
X4LGD	64,446	89,201	1.38
X4LGQ	6,388	10,237	1.60
X4LJ	12,709	26,671	2.10
X4LJA	3,796	8,637	2.28
X4LJV	46	55	1.20
X4LK	1,885,581	4,072,684	2.16
X4LKA	699,399	1,592,920	2.28
X4LKD	37,614	70,213	1.87
X4LKG	47,436	82,913	1.75
X4LKQ	31,970	67,845	2.12
X4LKV	167,778	342,398	2.04
X4LQ	66,262	143,712	2.17
X4LV	499,785	936,408	1.87
X4LVA	57,686	121,936	2.11
X4LVD	162,461	265,704	1.64
X4LVQ	17,796	35,103	1.97
X4LY	376,858	697,168	1.85
X4LYD	39,947	65,494	1.64
X4MD	3,607,428	6,983,727	1.94
X4O	2,085,523	3,923,210	1.88
X4OA	2,308,234	4,757,161	2.06
X4OAD	15,167	26,185	1.73
X4OAQ	20,902	44,553	2.13

X4OD	314,928	500,887	1.59
X4OF	675,180	1,180,617	1.75
X4OFA	271,046	538,537	1.99
X4OG	80,867	120,577	1.49
X4OGA	9,443	16,576	1.76
X4OGD	12,633	16,784	1.33
X4OGQ	4,172	6,653	1.59
X4OJ	12,454	23,129	1.86
X4OJA	5,833	11,403	1.95
X4OJV	141	237	1.68
X4OK	1,926,588	3,738,262	1.94
X4OKA	1,042,765	2,246,771	2.15
X4OKD	19,479	35,563	1.83
X4OKG	16,790	29,203	1.74
X4OKQ	62,665	126,940	2.03
X4OKV	68,335	135,983	1.99
X4OQ	133,703	256,508	1.92
X4OV	188,727	335,601	1.78
X4OVA	65,635	130,649	1.99
X4OVD	37,432	58,202	1.55
X4OVQ	10,906	22,511	2.06
X4OY	169,928	290,103	1.71
X4OYD	8,617	12,701	1.47
X5E	12,107	17,182	1.42
X5EA	394	587	1.49
X5EAD	77	112	1.45
X5ED	1,361	2,173	1.60
X5EG	166	199	1.20
X5EK	1,705	2,857	1.68
X5EKA	291	617	2.12
X5EKD	1,013	1,335	1.32
X5EKV	260	355	1.37
X5EV	51	87	1.70
X5EVD	1,766	2,483	1.41
X5EY	112	134	1.20
X5EYD	83	112	1.35
X5L	266,352	437,838	1.64
X5LA	80,131	136,540	1.70
X5LAD	12,072	18,603	1.54
X5LAQ	343	656	1.91
X5LD	256,146	354,503	1.38

X5LF	44,268	64,057	1.45
X5LFA	3,611	6,678	1.85
X5LG	135,410	158,919	1.17
X5LGA	2,951	3,606	1.22
X5LGD	48,603	58,142	1.20
X5LGQ	955	1,241	1.30
X5LJ	1,134	1,990	1.75
X5LJA	184	336	1.83
X5LJV	84	101	1.20
X5LK	372,671	608,105	1.63
X5LKA	171,258	282,074	1.65
X5LKD	21,231	33,247	1.57
X5LKG	22,445	31,222	1.39
X5LKQ	5,499	9,159	1.67
X5LKV	31,080	48,138	1.55
X5LQ	5,173	8,880	1.72
X5LV	65,210	92,981	1.43
X5LVA	4,263	6,576	1.54
X5LVD	41,860	56,928	1.36
X5LVQ	1,627	2,614	1.61
X5LY	50,336	77,466	1.54
X5LYD	14,237	20,282	1.42
X5MD	1,021,314	1,464,758	1.43
X5O	1,543,596	2,153,727	1.40
X5OA	566,934	890,841	1.57
X5OAD	26,710	38,579	1.44
X5OAQ	9,133	14,600	1.60
X5OD	470,643	597,218	1.27
X5OF	402,486	543,957	1.35
X5OFA	79,622	122,511	1.54
X5OG	67,749	82,428	1.22
X5OGA	3,659	4,485	1.23
X5OGD	11,496	12,422	1.08
X5OGQ	2,047	2,539	1.24
X5OJ	1,830	2,607	1.42
X5OJA	1,180	1,779	1.51
X5OJV	50	60	1.20
X5OK	837,956	1,286,695	1.54
X5OKA	343,351	556,765	1.62
X5OKD	30,828	42,689	1.38
X5OKG	12,477	16,924	1.36

X5OKQ	39,078	63,152	1.62
X5OKV	16,340	24,224	1.48
X5OQ	67,911	100,025	1.47
X5OV	58,822	81,172	1.38
X5OVA	12,502	19,033	1.52
X5OVD	28,793	36,511	1.27
X5OVQ	3,838	6,231	1.62
X5OY	60,316	87,566	1.45
X5OYD	9,576	12,312	1.29
XILFA	195	455	2.33
TOTAL	252,603,251	737,431,247	2.92

7.29 Combined auction and contract price matrix for 2018 season

Appendix 7.29

Table 1.24: Grade Price Matrix

GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG
A1E	2.54	A2LQ	1.44	A3EKG	0.60	A3OK	1.31	C1OF	5.20
A1EA	3.54	A2LV	1.52	A3EKV	1.00	A3OKA	1.51	C1OV	3.65
A1EAD	1.32	A2LVA	1.56	A3EV	1.27	A3OKD	1.15	C2E	4.41
A1EF	1.90	A2LVD	1.00	A3L	1.46	A3OKG	1.13	C2EA	4.46
A1EK	3.50	A2LVQ	1.63	A3LA	1.54	A3OKQ	1.30	C2L	4.61
A1EKA	1.60	A2LY	1.41	A3LD	1.05	A3OKV	1.28	C2LA	4.18
A1EKD	2.43	A2MD	1.56	A3LF	1.60	A3OQ	1.34	C2LF	4.35
A1EKQ	5.00	A2O	1.69	A3LG	1.02	A3OV	1.18	C2LFA	4.40
A1L	2.67	A2OA	1.48	A3LGA	1.40	A3OVA	1.69	C2LJ	3.98
A1LA	3.55	A2OAQ	1.76	A3LGD	1.30	A3OVD	1.20	C2LV	4.19
A1LK	2.00	A2OD	1.58	A3LGQ	0.60	A3OVQ	1.11	C2LVA	4.09
A1MD	2.05	A2OF	1.21	A3LJ	3.15	A3OY	1.23	C2MD	4.24
A1O	2.38	A2OFA	1.56	A3LK	1.36	A3R	1.18	C2O	4.30
A1OA	2.00	A2OG	1.32	A3LKA	1.54	A3RA	0.90	C2OA	3.99
A1OF	1.20	A2OGA	1.43	A3LKD	1.10	A3RF	1.30	C2OF	3.87
A1OV	1.80	A2OGD	1.20	A3LKG	1.28	A3RFA	1.40	C2OFA	2.20
A2E	1.53	A2OGQ	1.42	A3LKQ	1.87	A3RG	0.70	C2OJ	3.50
A2EA	1.60	A2OK	1.48	A3LKV	1.23	A3RK	1.20	C2OV	4.07
A2EK	1.58	A2OKA	1.47	A3LQ	1.35	A3RKG	1.00	C3E	3.88
A2EV	1.20	A2OKD	2.00	A3LV	1.22	A3RQ	0.90	C3EA	3.80
A2EVA	0.50	A2OKG	1.57	A3LVA	1.15	A3RV	0.80	C3EF	3.73
A2L	1.86	A2OKQ	1.31	A3LVD	1.05	A3RVQ	0.43	C3EV	2.27
A2LA	1.46	A2OKV	1.51	A3LVQ	1.29	B1	1.24	C3L	4.18
A2LD	1.37	A2OQ	1.47	A3LY	1.25	B1MD	1.26	C3LA	3.96
A2LF	1.25	A2OV	1.48	A3LYD	0.75	B2	0.83	C3LD	3.71
A2LFA	2.20	A2OVA	1.38	A3MD	1.07	B2MD	0.74	C3LF	3.83
A2LG	1.27	A2OVQ	1.03	A3O	1.32	B3	0.54	C3LFA	3.31
A2LGA	1.33	A2OY	1.37	A3OA	1.32	B3MD	0.54	C3LG	3.80
A2LJ	2.60	A2R	1.38	A3OAQ	1.15	C1E	3.44	C3LJ	3.76
A2LK	1.54	A2RA	1.13	A3OD	0.96	C1L	4.87	C3LJA	3.67
A2LKA	1.47	A2RFA	1.50	A3OF	1.32	C1LA	4.46	C3LJV	3.05
A2LKD	1.40	A2RQ	1.40	A3OFA	1.52	C1LF	5.18	C3LV	3.40
A2LKG	1.39	A3E	1.48	A3OG	0.96	C1LV	4.78	C3LVA	3.45
A2LKQ	1.57	A3ED	0.71	A3OGA	1.23	C1O	4.77	C3MD	3.45

A2LKV	1.54	A3EK	1.08	A3OGQ	1.31	C1OA	4.75	C3O	3.88
GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG
C3OA	3.67	C5OA	1.80	L1OFA	4.91	L2LV	4.33	L3ED	3.80
C3OD	3.59	C5OD	1.51	L1OK	2.84	L2LVA	4.30	L3EF	3.00
C3OF	3.32	C5OF	1.56	L1OKA	3.17	L2LVD	2.00	L3EFA	2.98
C3OFA	3.00	C5OV	1.68	L1OKD	3.20	L2LVQ	3.82	L3EG	2.24
C3OJ	3.33	DD	0.66	L1OKQ	2.00	L2MD	4.48	L3EGA	1.95
C3OK	3.14	FD	2.04	L1OKV	1.30	L2O	4.97	L3EK	3.54
C3OV	3.31	H1O	5.00	L1OQ	3.08	L2OA	4.75	L3EKA	3.61
C3OVA	3.03	H2L	4.74	L1OV	5.03	L2OAQ	4.48	L3EKD	2.83
C4E	2.93	H2O	3.48	L1OVA	4.50	L2OD	4.01	L3EKG	2.10
C4EA	3.08	H3L	3.60	L1R	3.25	L2OF	4.83	L3EKQ	3.63
C4EV	1.55	H3O	2.72	L2E	4.56	L2OFA	4.61	L3EKV	3.26
C4L	3.09	H3R	2.90	L2EA	4.50	L2OG	3.13	L3EQ	4.06
C4LA	3.11	H4L	2.36	L2EFA	4.85	L2OGQ	2.00	L3EV	3.24
C4LD	2.80	H4O	2.09	L2EK	4.41	L2OJ	4.75	L3EVA	3.38
C4LF	2.85	H4R	2.15	L2EKA	4.70	L2OJA	5.06	L3EVD	2.20
C4LFA	2.25	H5L	1.45	L2EKV	3.13	L2OK	4.58	L3EVQ	4.55
C4LJ	2.48	H5O	1.57	L2EV	4.03	L2OKA	4.41	L3L	4.52
C4LV	2.36	H5R	1.49	L2EVA	3.60	L2OKQ	4.08	L3LA	4.31
C4MD	2.58	L1E	3.60	L2L	4.99	L2OKV	3.83	L3LAD	3.85
C4O	2.70	L1EA	5.10	L2LA	4.75	L2OQ	4.47	L3LAQ	3.90
C4OA	2.67	L1EG	1.58	L2LAD	4.00	L2OV	4.28	L3LD	3.56
C4OD	2.53	L1EK	4.20	L2LAQ	4.59	L2OVA	4.14	L3LF	4.09
C4OF	2.29	L1L	5.22	L2LD	4.48	L2OVD	4.15	L3LFA	4.21
C4OFA	1.79	L1LA	4.91	L2LF	4.84	L2OVQ	3.42	L3LG	2.14
C4OJ	3.15	L1LD	2.00	L2LFA	4.79	L2R	4.19	L3LGA	2.56
C4OV	2.21	L1LF	4.82	L2LG	2.92	L2RA	4.21	L3LGD	2.12
C4OVA	2.25	L1LFA	4.41	L2LJ	4.57	L2RF	3.43	L3LGQ	2.07
C5E	1.75	L1LK	4.06	L2LJA	4.26	L2RFA	3.76	L3LJ	3.90
C5EV	1.55	L1LKA	3.21	L2LK	4.62	L2RJ	3.80	L3LJA	3.82
C5L	2.27	L1LKG	1.85	L2LKA	4.52	L2RK	4.84	L3LJV	3.32
C5LA	1.94	L1LV	5.40	L2LKD	4.20	L2RQ	2.90	L3LK	3.85
C5LF	1.80	L1MD	2.79	L2LKG	5.05	L2S	3.75	L3LKA	3.75
C5LV	1.51	L1O	5.26	L2LKQ	4.69	L30JQ	3.84	L3LKD	3.75
C5MD	1.59	L1OA	4.88	L2LKV	4.17	L3E	3.94	L3LKG	2.23
C5O	1.73	L1OF	4.33	L2LQ	4.42	L3EA	4.03	L3LKQ	3.35
GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG
L3LKV	3.21	L3R	3.29	L4EKD	2.73	L4LVQ	2.30	L4RFA	2.36

L3LQ	3.60	L3RA	3.28	L4EKG	1.66	L4MD	2.43	L4RG	1.63
L3LV	3.39	L3RAD	3.17	L4EKQ	1.67	L4MF	2.52	L4RGA	2.00
L3LVA	3.47	L3RAQ	3.23	L4EKV	2.04	L4O	3.04	L4RGQ	1.68
L3LVD	3.13	L3RD	2.93	L4EQ	2.35	L4OA	2.95	L4RJ	2.17
L3LVQ	2.93	L3RF	3.08	L4EV	2.30	L4OAD	2.35	L4RJA	2.20
L3M	4.09	L3RFA	3.03	L4EVA	2.30	L4OAQ	2.71	L4RJQ	3.20
L3MD	3.45	L3RG	2.38	L4EVD	2.40	L4OD	2.40	L4RK	2.19
L3MF	2.74	L3RJ	2.99	L4EVQ	1.65	L4OF	2.70	L4RKA	2.28
L3O	4.42	L3RJV	3.20	L4F	2.40	L4OFA	2.70	L4RKD	1.58
L3OA	4.17	L3RK	2.81	L4L	3.35	L4OG	1.71	L4RKG	1.67
L3OAD	3.70	L3RKA	3.23	L4LA	3.23	L4OGA	1.97	L4RKQ	1.86
L3OAQ	3.50	L3RKQ	2.13	L4LAD	2.58	L4OGD	1.78	L4RKV	1.67
L3OD	3.53	L3RKV	2.59	L4LAQ	2.83	L4OGQ	1.88	L4RQ	2.00
L3OF	4.00	L3RQ	2.52	L4LD	2.49	L4OJ	2.85	L4RV	2.25
L3OFA	3.85	L3RV	2.95	L4LF	2.58	L4OJA	2.85	L4RVA	2.24
L3OG	2.27	L3RVA	2.89	L4LFA	2.81	L4OJQ	2.53	L4RVQ	1.82
L3OGA	2.62	L3RVQ	2.06	L4LG	1.64	L4OJV	2.54	L4S	1.45
L3OGD	1.40	L3S	2.03	L4LGA	1.89	L4OK	2.73	L4SA	1.70
L3OGQ	2.03	L3SA	1.75	L4LGD	1.76	L4OKA	2.77	L4SD	4.02
L3OJ	3.69	L3SFA	4.80	L4LGQ	1.84	L4OKD	2.41	L4SF	1.40
L3OJA	3.71	L3SKA	4.80	L4LJ	3.05	L4OKG	1.81	L4SFA	1.20
L3OJQ	3.10	L3SKQ	3.34	L4LJA	3.15	L4OKQ	2.44	L4SK	2.64
L3OJV	3.17	L3SKV	2.00	L4LJQ	2.33	L4OKV	2.37	L4SKA	2.73
L3OK	3.76	L3SQ	4.00	L4LJV	2.44	L4OQ	2.47	L4SKQ	3.00
L3OKA	3.64	L3SVA	4.10	L4LK	2.78	L4OV	2.43	L4SKV	2.20
L3OKD	3.44	L4E	2.77	L4LKA	2.76	L4OVA	2.46	L4SQ	1.19
L3OKG	2.40	L4EA	2.80	L4LKD	2.68	L4OVD	2.18	L4SV	2.00
L3OKQ	3.13	L4EAD	2.74	L4LKG	1.81	L4OVQ	2.28	L4U	1.61
L3OKV	3.08	L4EAQ	3.10	L4LKQ	2.49	L4R	2.34	L4UG	1.78
L3OQ	3.38	L4ED	1.92	L4LKV	2.33	L4RA	2.41	L5E	1.63
L3OV	3.40	L4EG	1.78	L4LQ	2.74	L4RAD	1.85	L5EAQ	1.20
L3OVA	3.39	L4EGA	1.55	L4LV	2.40	L4RAQ	2.17	L5EF	1.43
L3OVD	2.87	L4EK	2.57	L4LVA	2.43	L4RD	1.86	L5EG	1.08
L3OVQ	3.01	L4EKA	2.75	L4LVD	2.09	L4RF	2.19	L5EK	1.74
GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG
L5EKD	3.00	L5OG	1.34	L5RKV	1.47	P1OF	1.55	P2OF	2.39
L5EKG	1.60	L5OGA	1.40	L5RQ	1.54	P1OK	1.45	P2OFA	2.05
L5L	2.49	L5OGD	1.39	L5RV	1.72	P1OY	1.95	P2OJ	2.65
L5LA	2.37	L5OGQ	1.51	L5RVA	1.65	P1OYD	1.40	P2OK	2.08
L5LAD	1.68	L5OJ	2.00	L5RVD	1.42	P2E	2.82	P2OKA	2.43

L5LAQ	2.52	L5OJA	1.95	L5RVQ	1.38	P2EA	2.89	P2OQ	4.80
L5LD	1.80	L5OJV	1.54	L5S	1.16	P2ED	2.80	P2OV	2.48
L5LF	1.85	L5OK	1.93	L5SA	1.43	P2EG	1.10	P2OVA	3.60
L5LFA	1.96	L5OKA	1.98	L5SD	1.75	P2EK	2.66	P2OY	1.90
L5LG	1.27	L5OKD	1.76	L5SF	3.20	P2EKV	2.10	P3E	2.40
L5LGA	1.27	L5OKG	1.39	L5SK	1.10	P2EV	2.98	P3EA	2.65
L5LGD	1.48	L5OKQ	1.93	L5SKD	1.10	P2EY	2.84	P3EAD	3.20
L5LGQ	1.44	L5OKV	1.75	L5SQ	1.02	P2L	2.79	P3ED	2.23
L5LJ	2.40	L5OQ	1.89	L5U	1.37	P2LA	2.71	P3EF	2.40
L5LJA	2.31	L5OV	1.82	L5UG	1.13	P2LD	2.24	P3EG	1.60
L5LJV	2.83	L5OVA	1.83	LD	1.00	P2LF	2.42	P3EJ	2.70
L5LK	1.95	L5OVD	1.68	LSA	0.90	P2LFA	2.45	P3EK	2.41
L5LKA	1.99	L5OVQ	1.83	NG	0.94	P2LG	1.83	P3EKA	2.41
L5LKD	2.07	L5R	1.68	NGA	0.38	P2LJ	2.62	P3EKD	2.65
L5LKG	1.37	L5RA	1.71	NGAG	0.51	P2LJA	2.81	P3EKG	1.65
L5LKQ	1.99	L5RAD	1.25	NGG	0.78	P2LJV	1.35	P3EKV	2.19
L5LKV	1.63	L5RAQ	1.53	NGU	1.06	P2LK	2.66	P3EQ	2.80
L5LQ	2.21	L5RD	1.38	P1E	1.91	P2LKA	2.83	P3EV	2.42
L5LV	1.88	L5RF	1.63	P1EAQ	1.50	P2LKD	2.50	P3EVA	1.96
L5LVA	1.76	L5RFA	1.67	P1EGA	1.60	P2LKV	1.95	P3EVD	1.40
L5LVD	1.66	L5RG	1.42	P1L	2.70	P2LQ	2.52	P3EY	2.17
L5LVQ	1.92	L5RGA	1.30	P1LA	2.17	P2LV	2.82	P3EYD	2.15
L5MD	1.65	L5RGQ	1.32	P1LF	1.83	P2LVA	2.93	P3L	2.27
L5O	2.07	L5RJ	1.41	P1LK	1.73	P2LVD	3.40	P3LA	2.25
L5OA	2.08	L5RJV	2.40	P1LKA	1.70	P2LY	2.37	P3LAD	2.24
L5OAD	1.59	L5RK	1.62	P1LKD	0.60	P2LYD	2.68	P3LAQ	2.57
L5OAQ	2.14	L5RKA	1.89	P1LV	3.00	P2MD	2.71	P3LD	1.93
L5OD	1.57	L5RKD	1.34	P1MD	1.20	P2O	2.50	P3LF	1.99
L5OF	1.81	L5RKG	1.31	P1O	1.51	P2OA	2.45	P3LFA	2.30
L5OFA	1.93	L5RKQ	1.54	P1OA	2.05	P2OD	1.86	P3LG	1.53
GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG
P3LGA	2.24	P3OQ	1.89	P4LKA	1.79	P4OVA	1.60	P5LKV	1.40
P3LGD	1.10	P3OV	2.01	P4LKD	1.76	P4OVD	1.46	P5LQ	1.46
P3LJ	2.26	P3OVA	1.98	P4LKG	1.59	P4OVQ	2.04	P5LV	1.37
P3LJA	2.42	P3OVD	1.71	P4LKQ	1.72	P4OY	1.59	P5LVA	1.48
P3LJV	1.91	P3OVQ	2.20	P4LKV	1.68	P4OYD	1.48	P5LVD	1.30
P3LK	2.12	P3OY	1.81	P4LQ	1.87	P5E	1.44	P5LVQ	1.80
P3LKA	2.14	P3OYD	1.58	P4LV	1.63	P5EA	1.85	P5LY	1.45
P3LKD	2.28	P4E	1.80	P4LVA	1.78	P5EAD	2.20	P5LYD	1.41
P3LKG	1.71	P4EA	1.85	P4LVD	1.45	P5EAQ	1.65	P5MD	1.27

P3LKQ	2.21	P4EAQ	2.10	P4LVQ	1.89	P5ED	1.00	P5O	1.28
P3LKV	1.99	P4ED	1.83	P4LY	1.65	P5EF	1.10	P5OA	1.42
P3LQ	2.21	P4EF	1.80	P4LYD	1.57	P5EG	1.20	P5OAD	1.31
P3LV	2.04	P4EG	1.43	P4MD	1.56	P5EK	1.59	P5OAQ	1.64
P3LVA	2.24	P4EK	2.01	P4O	1.57	P5EKA	1.60	P5OD	1.12
P3LVD	1.70	P4EKA	1.84	P4OA	1.67	P5EKQ	1.20	P5OF	1.25
P3LVQ	2.37	P4EKG	1.90	P4OAD	1.55	P5EKV	1.68	P5OFA	1.36
P3LY	1.96	P4EKV	1.58	P4OAQ	1.95	P5EQ	1.50	P5OG	1.18
P3LYD	1.77	P4EV	1.85	P4OD	1.43	P5EV	1.45	P5OGA	1.18
P3MD	1.92	P4EVA	2.00	P4OF	1.52	P5EY	1.66	P5OGD	1.15
P3O	2.01	P4EY	1.74	P4OFA	1.67	P5L	1.46	P5OGQ	1.48
P3OA	2.10	P4L	1.76	P4OG	1.40	P5LA	1.57	P5OJ	1.41
P3OAD	1.98	P4LA	1.86	P4OGA	1.50	P5LAD	1.48	P5OK	1.38
P3OAQ	2.22	P4LAD	1.70	P4OGD	1.06	P5LD	1.23	P5OKA	1.44
P3OD	1.64	P4LAQ	2.14	P4OGQ	1.80	P5LF	1.36	P5OKD	1.24
P3OF	1.85	P4LD	1.52	P4OJ	1.59	P5LFA	1.65	P5OKG	1.21
P3OFA	2.02	P4LF	1.61	P4OJA	1.74	P5LG	1.14	P5OKQ	1.48
P3OG	1.60	P4LFA	1.63	P4OJV	1.40	P5LGA	1.23	P5OKV	1.44
P3OGA	1.40	P4LG	1.35	P4OK	1.64	P5LGD	1.09	P5OQ	1.34
P3OGD	1.40	P4LGA	1.57	P4OKA	1.74	P5LGQ	1.15	P5OV	1.33
P3OJ	1.97	P4LGD	1.18	P4OKD	1.58	P5LJ	1.49	P5OVA	1.30
P3OK	1.93	P4LGQ	1.51	P4OKG	1.54	P5LK	1.51	P5OVD	1.29
P3OKA	1.98	P4LJ	1.76	P4OKQ	1.66	P5LKA	1.50	P5OVQ	1.40
P3OKD	1.95	P4LJA	1.91	P4OKV	1.58	P5LKD	1.46	P5OY	1.38
P3OKQ	2.20	P4LJV	2.05	P4OQ	1.61	P5LKG	1.31	P5OYD	1.27
P3OKV	1.89	P4LK	1.77	P4OV	1.54	P5LKQ	1.59	PTL	1.22
GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG
PTLMD	0.93	T2LA	2.99	T2OJV	1.20	T3LD	2.64	T3OKA	2.18
PTMD	0.92	T2LAD	3.42	T2OK	2.36	T3LF	1.97	T3OKD	1.92
PTO	1.27	T2LAQ	3.46	T2OKA	2.50	T3LG	1.51	T3OKG	1.56
SAD	1.08	T2LD	3.23	T2OKD	2.10	T3LGA	1.81	T3OKQ	2.02
SD	2.23	T2LFA	2.98	T2OKG	1.97	T3LGD	2.08	T3OKV	1.87
T1E	2.55	T2LG	1.83	T2OKQ	2.22	T3LGQ	1.54	T3OQ	2.02
T1L	2.87	T2LGA	2.29	T2OKV	2.13	T3LJ	2.27	T3OV	2.14
T1LA	3.45	T2LGD	2.00	T2OQ	2.50	T3LJA	2.29	T3OVA	2.12
T1LD	3.60	T2LGQ	2.90	T2OV	2.45	T3LJV	1.79	T3OVD	1.87
T1LJ	1.15	T2LJ	2.59	T2OVA	2.42	T3LK	2.07	T3OVQ	2.18
T1LK	3.11	T2LJA	1.85	T2OVQ	2.10	T3LKA	2.22	T3R	1.70
T1LKA	4.35	T2LK	2.46	T2R	2.10	T3LKD	2.36	T3RA	1.87
T1LQ	2.00	T2LKA	2.54	T2RA	2.21	T3LKG	1.49	T3RAD	1.65

T1LV	4.38	T2LKD	3.23	T2RF	2.11	T3LKQ	2.21	T3RAQ	1.00
T1MD	1.82	T2LKG	1.89	T2RFA	3.10	T3LKV	1.90	T3RD	1.47
T1O	3.57	T2LKQ	2.25	T2RK	1.75	T3LQ	2.46	T3RF	1.64
T1OA	3.41	T2LKV	2.16	T2RQ	1.61	T3LV	2.14	T3RFA	1.93
T1OAQ	2.60	T2LQ	2.66	T2RV	1.73	T3LVA	2.35	T3RG	0.80
T1OF	3.85	T2LV	2.47	T2RVA	2.40	T3LVD	2.52	T3RK	1.51
T1OK	3.31	T2LVA	2.39	T2RVQ	1.80	T3LVQ	1.99	T3RKA	1.99
T1OKA	3.70	T2LVD	4.00	T3E	2.45	T3MD	1.96	T3RKD	1.40
T1OKV	4.20	T2LVQ	2.76	T3EA	3.12	T3O	2.32	T3RKG	1.64
T1OQ	2.30	T2MD	2.52	T3ED	2.92	T3OA	2.46	T3RKQ	1.34
T1OV	4.14	T2O	2.98	T3EK	2.05	T3OAD	2.08	T3RQ	1.50
T1R	2.10	T2OA	3.02	T3EKA	2.39	T3OAQ	2.62	T3RV	1.70
T1RA	2.60	T2OAD	3.69	T3EKD	3.17	T3OD	1.98	T3RVQ	2.20
T1RF	2.00	T2OAQ	2.69	T3EKG	1.35	T3OF	2.20	T3SD	1.50
T1RFA	2.40	T2OD	2.39	T3EKQ	1.38	T3OFA	2.42	T3SKA	1.35
T2E	2.86	T2OF	2.88	T3EKV	2.23	T3OG	1.53	TILF	3.00
T2EA	3.66	T2OFA	2.94	T3EV	2.00	T3OGA	1.86	TTL	1.10
T2ED	3.75	T2OG	2.00	T3EVD	1.50	T3OGD	1.12	TTLMD	1.08
T2EK	2.38	T2OGA	1.83	T3L	2.59	T3OGQ	1.50	X1E	2.55
T2EKA	2.64	T2OGQ	1.40	T3LA	2.72	T3OJ	1.95	X1EAD	1.86
T2EV	3.10	T2OJ	1.89	T3LAD	2.54	T3OJV	2.20	X1EK	3.08
T2L	2.94	T2OJA	2.78	T3LAQ	3.13	T3OK	1.96	X1L	4.23
GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG
X1LA	3.64	X2LK	3.60	X3EKD	1.99	X3LY	2.40	X4EG	1.53
X1LF	3.60	X2LKA	3.52	X3EKG	3.50	X3LYD	2.18	X4EGD	1.20
X1LFA	4.20	X2LKG	2.05	X3EKV	2.88	X3MD	2.55	X4EGQ	2.00
X1LK	2.27	X2LKV	3.67	X3EQ	3.12	X3O	2.79	X4EK	2.18
X1LQ	1.30	X2LQ	3.78	X3EV	3.01	X3OA	2.80	X4EKA	2.38
X1LV	4.40	X2LV	3.27	X3EVA	3.09	X3OAD	2.66	X4EKD	1.63
X1MD	3.50	X2LVA	3.52	X3EVD	2.57	X3OAQ	2.67	X4EKG	1.55
X1O	3.37	X2LVD	2.67	X3EVQ	2.58	X3OD	2.28	X4EKQ	3.00
X1OA	2.93	X2LVQ	1.75	X3EY	2.64	X3OF	2.47	X4EKV	2.08
X1OF	2.60	X2LY	2.93	X3L	3.06	X3OFA	2.72	X4EV	2.17
X1OK	3.65	X2MD	3.35	X3LA	3.09	X3OG	1.80	X4EVA	1.70
X1OKA	1.93	X2O	3.59	X3LAD	2.86	X3OGA	2.17	X4EVD	1.66
X2E	3.62	X2OA	3.27	X3LAQ	3.06	X3OGD	1.17	X4EVQ	2.00
X2EA	3.54	X2OD	2.89	X3LD	2.41	X3OGQ	1.34	X4EY	1.77
X2EAQ	3.50	X2OF	2.90	X3LF	2.64	X3OJ	2.37	X4L	2.09
X2ED	2.68	X2OFA	3.40	X3LFA	3.07	X3OJA	2.58	X4LA	2.18
X2EJ	3.70	X2OJ	2.45	X3LG	1.71	X3OJV	2.51	X4LAD	1.85

X2EK	3.46	X2OJA	2.60	X3LGA	2.16	X3OK	2.47	X4LAQ	2.39
X2EKA	3.98	X2OK	3.11	X3LGD	1.49	X3OKA	2.63	X4LD	1.66
X2EKV	3.99	X2OKA	2.86	X3LGQ	2.07	X3OKD	2.70	X4LF	1.87
X2EV	3.49	X2OKV	3.75	X3LJ	2.81	X3OKG	2.16	X4LFA	2.09
X2EVA	3.48	X2OQ	3.65	X3LJA	2.89	X3OKQ	2.30	X4LG	1.39
X2EVD	3.00	X2OV	3.30	X3LJV	2.33	X3OKV	2.30	X4LGA	1.78
X2EY	3.25	X2OVA	3.41	X3LK	2.80	X3OQ	2.43	X4LGD	1.34
X2L	3.78	X2OY	2.41	X3LKA	2.84	X3OV	2.40	X4LGQ	1.64
X2LA	3.66	X3E	3.14	X3LKD	2.57	X3OVA	2.51	X4LJ	2.10
X2LAQ	4.36	X3EA	3.30	X3LKG	2.01	X3OVD	2.05	X4LJA	2.26
X2LD	3.18	X3EAD	4.50	X3LKQ	2.76	X3OVQ	2.15	X4LJV	1.20
X2LF	3.38	X3ED	2.88	X3LKV	2.60	X3OY	2.17	X4LK	2.08
X2LFA	3.70	X3EF	2.46	X3LKY	2.00	X3OYD	1.83	X4LKA	2.19
X2LG	2.26	X3EG	1.99	X3LQ	2.69	X4E	2.23	X4LKD	1.88
X2LGA	4.14	X3EGA	1.90	X3LV	2.47	X4EA	2.54	X4LKG	1.70
X2LJ	3.40	X3EGQ	0.90	X3LVA	2.76	X4EAD	1.35	X4LKQ	2.05
X2LJA	3.40	X3EK	3.01	X3LVD	2.07	X4ED	1.73	X4LKV	1.92
X2LJV	3.80	X3EKA	3.12	X3LVQ	2.34	X4EF	1.40	X4LQ	2.11
GRADE	USD/KG	GRADE	USD/KG	GRADE	USD/KG				
X4LV	1.79	X5EA	1.48	X5LVD	1.36				
X4LVA	2.01	X5EAD	1.45	X5LVQ	1.63				
X4LVD	1.59	X5ED	1.62	X5LY	1.57				
X4LVQ	1.93	X5EG	1.20	X5LYD	1.40				
X4LY	1.86	X5EK	1.68	X5MD	1.34				
X4LYD	1.62	X5EKA	1.96	X5O	1.35				
X4MD	1.82	X5EKD	1.19	X5OA	1.51				
X4O	1.84	X5EKV	1.35	X5OAD	1.42				
X4OA	2.00	X5EV	1.70	X5OAQ	1.58				
X4OAD	1.68	X5EVD	1.85	X5OD	1.21				
X4OAQ	2.03	X5EY	1.20	X5OF	1.32				
X4OD	1.55	X5EYD	1.35	X5OFA	1.54				
X4OF	1.81	X5L	1.62	X5OG	1.22				
X4OFA	1.99	X5LA	1.69	X5OGA	1.24				
X4OG	1.44	X5LAD	1.47	X5OGD	1.12				
X4OGA	1.69	X5LAQ	2.05	X5OGQ	1.25				
X4OGD	1.39	X5LD	1.36	X5OJ	1.38				
X4OGQ	1.75	X5LF	1.43	X5OJA	1.41				
X4OJ	1.81	X5LFA	1.79	X5OJV	1.20				
X4OJA	1.95	X5LG	1.14	X5OK	1.48				
X4OJV	1.63	X5LGA	1.20	X5OKA	1.57				

X4OK	1.89	X5LGD	1.17	X5OKD	1.32				
X4OKA	2.06	X5LGQ	1.27	X5OKG	1.38				
X4OKD	1.78	X5LJ	1.82	X5OKQ	1.57				
X4OKG	1.72	X5LJA	1.83	X5OKV	1.46				
X4OKQ	1.96	X5LJV	1.20	X5OQ	1.42				
X4OKV	1.95	X5LK	1.59	X5OV	1.41				
X4OQ	1.86	X5LKA	1.63	X5OVA	1.53				
X4OV	1.74	X5LKD	1.54	X5OVD	1.25				
X4OVA	1.99	X5LKG	1.36	X5OVQ	1.64				
X4OVD	1.55	X5LKQ	1.71	X5OY	1.45				
X4OVQ	2.11	X5LKV	1.55	X5OYD	1.30				
X4OY	1.71	X5LQ	1.70	XILFA	2.33				
X4OYD	1.48	X5LV	1.44						
X5E	1.51	X5LVA	1.44						

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