2005 UPDATE OF THE WORLD'S ASPARAGUS PRODUCTION AREAS, SPEAR UTILIZATION, YIELDS AND PRODUCTION PERIODS

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Abstract

The estimates of asparagus producing areas, the periods of spear production and the utilization of spears are presented for the world's asparagus producing countries. These data are based on contacts with international asparagus researchers, growers and industry representatives. This poster presentation was a working poster display affording the participants of the 11th International Asparagus Symposium the opportunity to update and amend the presented data. The amended data are presented in this paper.

INTRODUCTION

Asparagus officinalis L. production areas in 65 countries are continually changing and are difficult to monitor since asparagus is considered a minor crop in most countries and the production data is usually reported under the broad term of "vegetable production". The collection of data on the recent changes in asparagus production in the various countries and the crop utilization has to be acquired from those people that are intimately associated with this crop.

The production areas in the asparagus industries throughout the world are the result of the worldwide increased consumer demand for this product and the changes in the economic conditions in the producing and consuming nations. International movements of fresh, frozen and canned asparagus are inter-related and dependent upon the consumption and production periods of the various countries. The largest increases in asparagus production in the last ten years has occurred in countries in the Southern Hemisphere and China and in countries with low labor rates where they can produce spears relatively cheaply and/or market their production during a higher priced market window in another country or hemisphere. Increased internal consumption and higher market prices have helped to stabilize the production in the countries with long histories of asparagus production, although trade agreements, increased imports and higher production costs in these countries has negatively affected their production areas.

The 1997, 2001 and 2005 world asparagus production data from the participants of the International Asparagus Symposia (IAS) and from author contacts provides an historical look at the changes that have occurred in the last 9 years in the world's

asparagus producing countries. During this period, the establishment of Free Trade Agreements in the Americas has led to the increases in the production and exportation of asparagus into the United States of America from Mexico, Peru and Chile while causing a decrease in production in the U.S.A. In Asia, China has continued to increase production to meet increased internal consumption and improving export markets.

An updated, worldwide, knowledge of the areas of asparagus spear production, the periods of production and the utilization of the spears is necessary for those involved in this industry to plan for changes in their respective countries.

MATERIALS AND METHODS

World asparagus production data from 1997, 2001 from the participants of the International Asparagus Symposia, (Benson 1999, Benson 2002) and from personal contacts in '03 and '05 were presented in tabular form in a working poster display at the 11th IAS. The poster display data included the numbers of hectares and the average marketable yields in each country that is known to have asparagus production. The areas are further estimated as to the changes that are taking place in each country, i.e., areas increasing, decreasing or stable and the spear type harvested, white or green, were presented. Estimates on the percent of spears used for fresh, canned or frozen spear markets and the percent of spears consumed in the domestic market or exported were presented as part of the posted display. The time during which there is any marketable spear production was presented as the spear production periods for each country.

The participants attending the 11th IAS were invited to update and amend the data that was presented so that any inconsistencies with actual areas, changes in areas and spear type and utilization could be corrected prior to publishing this paper. Those countries with amended data are included in this paper. 2004 Eurasper Conference data and author contact data was used for countries that did not have participants at the XI IAS. The separation of the world's asparagus production in the North –South and East-West hemispheres was calculated from the information on production areas.

RESULTS AND DISSCUSSION

In 2005, there were at least 57 asparagus producing countries on six continents with an estimated total production area of 225,095 hectares of which 43 percent were producing white spears and 57 percent producing green spears (Table 1). This is the first time that green spear production area has been greater than white. The 2005 production area is down from the 2001 area by 25,672 ha due mainly to the reductions of areas in China, U.S.A., France, Spain, Greece, South Africa, New Zealand and Australia (Table 2). Data was not available for the countries Ethiopia, Ghana, Kenya, Namibia, Malawi, Western Samoa, Venezuela and Lesotho and are not included in the tables.

Table 2 shows that Asia's production is estimated at 89,840 ha, with China now producing on 80,000 ha. Of Europe's 62,580 ha, the leading country is Germany with 20,000 ha, followed by Spain with 15,000 ha. North America's production is estimated at 37,795 ha with the U.S.A. producing 20,000 ha followed by Mexico with 15,825 ha. Peru is the largest producer in South America's with 18,000 ha, of the 26,450 hectares in South America. South Africa's 2,000 ha and Australia's 4,000 ha lead on their respective continents. Aside from the above countries where production area has reduced, all of the other asparagus producing countries are estimated to have either a stable or increasing production areas (Table 2). These stable and increasing areas are assumed to be due to increased consumption of either white or green asparagus for export or internal markets. In those countries that have reduced their production areas, the reduction has been due to economic pressures of their increasing labor and land costs and/or the increased competition from countries that have lower production costs or that have benefited from the various free trade agreements and the addition of countries into the European Union. China's reduction in area was due to devastating floods in 2003.

Very significant changes in the production of white and green asparagus (Table 3), spear utilization (Table 4), export or domestic consumption (Table 5) has been seen in China and Peru since 1997, these data have been placed in bold type in the tables. As China increased it's share in the European canned white spear market, Peru responded by decreasing their white canned spear production and increased the fresh green spear production for export primarily to the U.S.A. From 1997 to 2005, China has dramatically increased its domestic consumption of asparagus from 1 percent to 45 percent (Table 5) and it's green spear production from 15 to 50 percent (Table3). This has had two significant effects, (1) it has removed a large production of asparagus from the international markets and (2) it has allowed China to increase its production area to meet its domestic demands. Peru, in contrast, has not increased its domestic consumption and is nearly totally dependent on the exportation of its production (Table 5).

There have been increased periods of spear production in Japan and The Netherlands since 2001 (Table 6). Both the early and late extensions of spear production periods have provided growers increased prices and yields for their production with the use of plastic tunnels, green houses and soil applied plastic films or modified Mother Fern production systems.

Literature Cited

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Table 1. Estimated World Asparagus Areas in 2005 by Hemispheres and the Percentage of White or Green Spear Production

			HECTARES AND PERCENT OF PRODUCTION			
HEMISPHERE	**HECTARES**	**%**	**WHITE**	**%**	**GREEN**	**%**
NORTH	191,995	85%	90,105	47%	101,890	53%
SOUTH	33,100	15%	7,295	22%	25,805	78%
EAST	144,050	63%	79,775	55%	64,275	45%
WEST	81,045	37%	17,625	22%	63,420	78%
TOTAL	225,095	100%	97,400	43%	127,695	57%

Table 2. Areas and Average Spear Yields in Asparagus Producing Countries

COUNTRIES	Change in Area	AVE. YIELD Kgs./Ha	Asparagus Production Areas Hectares		
	2005	2005	2005	2001	1997
ASIA					
China	up	8,000	80,000	90,000	55,000
India	up	3,500	50	50	10
Indonesia	up	3,000	150	100	100
Iran	stable	1,430	700		
Japan	stable	6,800	3,700	6,700	8,700
Korea	up	3,000	30	15	
Malaysia	stable	4,500	100	200	200
Pakistan	up	10	10		
Philippines	up	4,900	2,800	1,200	1,200
Taiwan	down		100	500	500
Thailand	up	15,000	2,200	1,568	2,000
EUROPE					
Austria	stable	6,000	350	250	250
Belgium	stable	4,600	160	300	200
Bugaria	stable	5,200	2,300		
Cyprus	stable	4,000	250	200	
Czech Rep.	up	6,000	180		
Denmark	stable	2,800	70	200	200
France	stable	3,500	7,000	10,500	12,140
Germany	up	6,000	20,000	14,500	12,000
Greece	down	6,000	4,500	6,000	6,000
Hungary	up	5,000	1,000	500	500
Israel	up	3,800	25	150	150
Italy	stable	5,300	6,700	6,000	6,300
Netherlands	stable	8,000	2,350	2,275	2,300
Norway	up	3,500	20		
Poland	up	3,000	1,000	1,500	1,000
Portugal	stable	4,200	200	200	200
Romania	stable	4,00	50	50	50
Slovakia	up	6,000	45	30	20
Slovinia	up	6,000	250		
Spain	stable	4,500	15,000	17,000	20,200
Switzerland	down		100	200	200
Turkey	up	4,200	30	50	50
United King.	up	3,000	1,000	900	750

COUNTRIES	Change in Area	AVE. YIELD Kgs./Ha	Asparagus Production Areas Hectares		
	2005	2005	2005	2001	1997
N. AMERICA					
Canada (Ont.)	stable	3,000	1,500	1,500	1,250
Costa Rica	stable	3,500	50	20	20
El Salvador	stable	3,500	50	50	50
Guatemala	stable	4,000	100	400	600
Honduras	stable	4,000	20	10	20
Mexico	up	3,700	15,825	15,000	10,000
Nicaragua	stable	3,500	210	210	50
Panama	stable	3,500	40	50	50
U.S.A.	down		20,000	33,500	33,500
California	stable	4,000	9,000		
Washington	down	5,000	5,000		
Michigan	stable	2,000	6,000		
S. AMERICA					
Argentina	stable	3,780	2,000	2,000	2,000
Brazil	stable		600	600	600
Chile	stable	4,500	4,000	4,200	5,500
Colombia	stable	4,700	850	800	800
Ecuador	up	3,500	400	100	550
Peru	stable	14,100	18,000	20,000	20,000
Uruguay	up	4,000	600	600	600
AFRICA					
Egypt	up	4,000	500	50	50
Morocco	stable	?	600	100	100
South Africa	down	3,500	2,000	2,500	3,500
Tunisia	stable	3,500	80	100	60
Zimbabwe	down	4,000	50		650
AUSTRALIAN AREA					
Australia	stable	5,000	4,000	4,500	4,500
New Zealand	down	3,700	1,200	2,500	2,500

Table 3. Percent of White or Green Spear Production

	2005		2001		1997	
COUNTRIES	**WHITE**	**GREEN**	**WHITE**	**GREEN**	**WHITE**	**GREEN**
ASIA						
China	**50**	**50**	**70**	**30**	**85**	**15**
India	90	10	90	10		
Indonesia	10	90	10	90		
Iran						
Japan	1	99	3	97	3	97
Korea	0	100				
Malaysia	0	100				
Pakistan	0	100				
Philippines	0	100	0	100	0	100
Taiwan	95	5	95	5	95	5
Thailand	0	100	0	100	0	100
EUROPE						
Austria	97	3	95	5	95	5
Belgium	98	2	99	1	90	10
Bulgaria	100	0				
Cyprus	100	0	100	0	100	0
Czech Rep.	100	0				
Denmark	100	0				
France	85	15	95	5	95	5
Germany	96	4	98	2	98	2
Greece	99	1	95	5	95	5
Hungary	99	1	100	0	100	0
Israel						
Italy	15	85	15	85	30	70
Netherlands	97	3	98	2	98	2
Norway	0	100				
Poland	95	5	100	0	100	0
Portugal	90	10	90	10	90	10
Romania	100	0	100	0	100	0
Slovakia	100	0				
Slovinia	40	60				
Spain	70	30	80	20	90	10
Switzerland	35	65	35	65	35	65
Turkey	50	50				
United King.	0	100	0	100	0	100

	2005		2001		1997	
COUNTRIES	**WHITE**	**GREEN**	**WHITE**	**GREEN**	**WHITE**	**GREEN**
N. AMERICA						
Canada (Ont.	1	99	1	99	1	99
Costa Rica	0	100	0	100	0	100
El Salvador	0	100	0	100	0	100
Guatemala	0	100	3	97	3	97
Honduras	0	100	0	100	0	100
Mexico	0	100	2	98	2	98
Nicaragua	0	100	0	100	0	100
Panama	0	100	0	100	0	100
U.S.A.	0	100	0	100	0	100
California	0	100	0	100	0	100
Washington	0	100	0	100	0	100
Michigan	0	100	0	100	0	100
S. AMERICA						
Argentina	30	70	50	50	50	50
Brazil	80	20	80	20		
Chile	0	100	1	99	1	99
Colombia	0	100	60	40	60	40
Ecuador	0	100	10	90	60	40
Peru	**30**	**70**	**50**	**50**	**65**	**35**
Uruguay			0	100	0	100
AFRICA						
Egypt	2	98	20	80	20	80
Morocco	75	25				
South Africa	30	70	85	15	90	10
Tunisia			50	50	50	50
Zimbabwe					0	100
AUSTRALIAN AREA						
Australia	5	95	0	100	0	100
New Zealnd	0	100	0	100	0	100

Table 4. Percent of Spears Utilized as Fresh Canned or Frozen

	2005			2001			1997		
COUNTRIES	FRESH	CAN	FROZ	FRESH	CAN	FROZ	FRESH	CAN	FROZ
ASIA									
China	**38**	**30**	**32**	**25**	**55**	**20**	**1**	**90**	**9**
India	100	0	0	5	95	0			
Indonesia	100	0	0	100	0	0	100	0	0
Iran	100	0	0						
Japan	100	0	0	97	3	0	90	10	0
Korea	100	0	0						
Malaysia	100	0	0	100	0	0	100	0	0
Pakistan	100	0	0						
Philippines	100	0	0	100	0	0	100	0	0
Taiwan									
Thailand	100	0	0	98	2	0			
EUROPE									
Austria	100	0	0		0	0	100	0	0
Belgium	100	0	0		2	0			
Bulgaria	100	0	0						
Cyprus	100	0	0		0	0	100	0	0
Czech Rep.	100	0	0		0	0	100	0	0
Denmark	100	0	0		0	0	100	0	0
France	100	0	0		0	0	100	0	0
Germany	99	0	1		0	0	100	0	0
Greece	100	0	0		0	0	100	0	0
Hungary	100	0	0		0	0	100	0	0
Israel	100	0	0						
Italy	99	0	1		0	0	100	0	0
Netherlands	100	0	0		0	0	100	0	0
Norway	100	0	0						
Poland	90	9	1		10	0	90	0	0
Portugal	100	0	0		0	0	100	0	0
Romania	100	0	0		0	0	100	0	0
Slovakia	100	0	0						
Slovinia	100	0	0						
Spain	70	20	10		5	5	90	5	5
Switzerland	100	0	0		0	0	100	0	0
Turkey	100	0	0						
United King.	100	0	0		0	0	100	0	0

	2005			2001			1997		
COUNTRIES	FRESH	CAN	FROZ	FRESH	CAN	FROZ	FRESH	CAN	FROZ
N. AMERICA									
Canada (Ont.)	100	0	0	88	12	0			
Costa Rica	100	0	0	100	0	0	100	0	0
El Salvador	100	0	0	100	0	0	100	0	0
Guatemala	100	0	0	100	0	0	100	0	0
Honduras	100	0	0	100	0	0	100	0	0
Mexico	100	0	0	90	0	10	90	0	10
Nicaragua	100	0	0	100	0	0	100	0	0
Panama	100	0	0	100	0	0	100	0	0
U.S.A.				45	50	5	50	40	10
California	100	0	0	99	1	0	99	1	0
Washington	65	30	5						
Michigan	20	40	40						
S. AMERICA									
Argentina	65	20	15	70	30	0	70	30	0
Brazil							No Data		
Chile	25	0	75	50	0	50	35	10	55
Colombia				30	70	0	30	70	10
Ecuador	100	0	0	90	10	0	90	10	0
Peru	**60**	**30**	**10**	**45**	**50**	**5**	**35**	**60**	**5**
Uruguay				80	0	20	80	0	20
AFRICA									
Egypt	100	0	0	100	0	0			
Morocco	100	0	0	100	0	0			
South Africa	55	45	0	33	67	0			
Tunisia	100	0	0	100	0	0			
Zimbabwe							100	0	0
AUSTRALIAN AREA									
Australia	95	5	0	90	10	0			
New Zealand	40	55	5	35	50	15			

Table 5. Percent of Production Exported or Used Domestically

	2005		2001		1997	
COUNTRIES	**Export**	**Dom.**	**Export**	**Dom.**	**Export**	**Dom.**
ASIA						
China	**55**	**45**	**65**	**35**	**99**	**1**
India	0	100	0	100		
Indonesia	25	75	0	100	1	99
Iran						
Japan	1	99	0	100	50	50
Korea	0	100				
Malaysia	0	100	0	100	0	100
Pakistan	0	100				
Philippines	98	2	99	1	99	1
Taiwan						
Thailand	70	30	65	35	65	35
EUROPE						
Austria	5	95	0	100	0	100
Belgium	6	94	20	80		
Bulgaria						
Cyprus	50	50				
Czech Rep.	100	0				
Denmark	0	100				
France	10	90	20	80	20	80
Germany	1	99	20	80	20	80
Greece	95	5	90	10	90	10
Hungary	80	20	90	10	90	10
Israel	0	100				
Italy	5	95	5	95	5	95
Netherlands	40	60	80	20	80	20
Norway	0	100				
Poland	67	33	50	50	50	50
Portugal	80	20				
Romania	0	100	0	100		
Slovakia	100	0				
Slovinia	0	100				
Spain	30	70	50	50		
Switzerland	9	91	0	100	0	100
Turkey	0	100	0	100		
United Kingdom	0	100	0	100	0	100

	2005		2001		1997	
COUNTRIES	**Export**	**Dom.**	**Export**	**Dom.**	**Export**	**Dom.**
N. AMERICA						
Canada (Ont.)	10	90	0	100		
Costa Rica	50	50	95	5	95	5
El Salvador	100	0	100	0	100	0
Guatemala	95	5				
Honduras	100	0				
Mexico	95	5	95	5	95	5
Nicaragua	100	5				
Panama	0	100				
U.S.A.			20	80	20	80
California						
Washington	6	94				
Michigan	0	100				
S. AMERICA						
Argentina	50	50	60	40	60	40
Brazil	0	100	0	100	0	100
Chile	70	30	70	30	80	20
Colombia	90	10	90	10	90	10
Ecuador	100	0	100	0	100	0
Peru	99	1	99	1	99	1
Uruguay			20	80	20	80
AFRICA						
Egypt	80	20	95	5	95	5
Morocco	98	2	100	0	100	0
South Africa	60	40	85	15	85	15
Tunisia	80	20				
Zimbabwe					90	10
AUSTRALIAN AREA						
Australia	70	30	60	40	60	40
New Zealand	50	50	50	50	25	75

Table 6. Periods of Spear Production in Asparagus Producing Countries

COUNTRIES	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
ASIA												
China		xx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxx		x	xxxxxx	xx	
India		xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx						
Indonesia	xxxxxx	xxxxxx	xxxxxx								xxxxxx	xxxxxx
Iran			xxx	xxxxxx	xxxxxx	xx						
Japan	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	x	xxxxxx
Korea			xx	xxxxxx	xxxxxx	xxxxxx						
Malaysia	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
Pakistan				xxxxxx	xxxxxx	xxxxxx						
Philippines	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
Taiwan				xxxxxx	xxxxxx	xxxxxx		xxxxxx	xxxxxx	xxxxxx		
Thailand	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
EUROPE												
Austria				xxx	xxxxxx	xxx						
Belgium				xxx	xxxxxx	xxx						
Bulgaria			xxx	xxxxxx	xxxxxx	xxxx						
Cyprus			xxx	xxxxxx	xxxxxx	xxx						
Czech Rep.				xxxxxx	xxxxxx	xxxxxx	xx					
Denmark					xxxxxx	xxxxxx	xxx					
France			xxxx	xxxxxx	xxxxxx	xxxxxx						
Germany				xxxxxx	xxxxxx	xxxxxx						
Greece		xx	xxxxxx	xxxxxx	xxxxxx	xx						
Hungary				xxxxxx	xxxxxx	xx						
Israel			xxx	xxxxxx	xxxxxx	xxx						
Italy		xxxxxx	xxxxxx	xxxxxx	xxxxxx	x						
Netherlands	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xx						
Norway				xx	xxxxxx	xxxx						
Poland				xxx	xxxxxx	xxxx						
Portugal			xxxxxx	xxxxxx	xxxxxx	xxxxxx						
Romania			xx	xxxxxx	xxxxxx	xxxxxx						
Slovakia				xxx	xxxxxx	xxxxxx						
Slovenia				xxxxxx	xxxxxx	xx						
Spain	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	x					
Switzerland				xxxxxx	xxxxxx							
Turkey				xxxxxx	xxxxxx	xxxxxx						
United King.				xxxxxx	xxxxxx	xxxxxx						

COUNTRIES	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
N. AMERICA												
Canada (Ont.)					xxxxxx	xxxx						
Costa Rica	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
El Salvador	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
Guatemala	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
Honduras	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
Mexico	xxxxxx	xxxxxx	xxxxxx	xxxxxx		xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
Nicaragua	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
Panama	xxxxxx								xxxxxx	xxxxxx	xxxxxx	xxxxxx
U.S.A.	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xx					
California	xxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxx						
Washington				xxxxxx	xxxxxx	xxxxxx						
Michigan				xx	xxxxxx	xxxxxx	xx					
S. AMERICA												
Argentina								xxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
Brazil	xxxxxx	xxxxxx	xxxxxx								xxxxxx	xxxxxx
Chile								xx	xxxxxx	xxxxxx	xxxxxx	xx
Colombia	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
Ecuador	xxxxxx						xxxxxx	xxxxxx				xxxxxx
Peru	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
Uruguay									xxxxxx	xxxxxx	xxxxxx	xxx
AFRICA												
Egypt	xxxxxx	xxxxxx	xxxxxx									
Morocco	xx	xxxxxx	xxxxxx	xxx								
South Africa									xxxxxx	xxxxxx	xxxxxx	
Tunisia	xx	xxxxxx	xxxxxx	xxx								
Zimbabwe	xxxxxx	xxxxxx						xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
AUSTRALIAN AREA												
Australia	xxxxxx	xxxxxx	xxxxxx			xxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx
New Zealand	xxxxxx						xxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx	xxxxxx