

## Annual Feed Production Statistics for the Year Ending December 2020

These statistics report total tonnage of manufactured animal feed and total tonnage of raw materials used in feed production. This report does not include blended feed.

These statistics now include the breakdown of species-specific data for feed production.

Please note all figures reported in the tables below in this Executive Summary are in metric tonnes (unless otherwise specified).

### Feed Production:

#### 2020

Bulk	Bagged	Bulk	Bagged	Tonnage	Year 2019	% Change
626,162	91,926	310,317	51,689	1,080,093	1,092,157	-1.10
718,087		362,006				

### Raw Material Use:

#### 2020

Raw Material		North Island	South Island	Total	last year	% Change
Grains	Wheat	228,936	140,581	376,521	315,879	19%
	Maize	145,778	14,737	158,160	239,668	-34%
	Barley	30,622	54,458	90,060	76,902	17%
Grains by-products	Wheat	37,180	19,693	56,079	58,351	-3.9%
Animal Protein	Meat and bone meal (non-poultry)	16,145	13,764	29,908	24,532	5.3%
Plant Protein	Soya meal	112,931	68,208	181,138	169,778	-20.2%

Palm Kernel Imports:

2020

North Island	South Island	Total	Same last year	% Change
1,417,628	492,630	1,910,258	1,801,418	0.06

Species Specific Data:

2020

Species	North Island	South Island	Total	% Change from previous year
Poultry - meat	416,176	92,669	508,845	-2%
Poultry - layer	121,869	45,990	167,859	-7%
Pig	33,946	116,294	150,240	4%
Calf	56,510	24,698	81,208	-9%
Dairy	66,333	56,962	123,295	3%

2019

Species	North Island	South Island	Total
Poultry - meat	430,367	90,944	521,311
Poultry - layer	129,830	50,115	179,945
Pig	33,932	110,563	144,495
Calf	63,623	25,478	89,101
Dairy	70,590	49,023	119,613

**New Zealand Feed Manufacturers Association  
Annual Feed Production Statistics**

**Year 2020**  
**Feed production statistics for the period 01 January to 31 December 2020**

	North Island		South Island		Total Tonnage	Comparison Year 2019	% Change
	Bulk	Bagged	Bulk	Bagged			
TOTAL BULK/BAG	626,162	91,926	310,317	51,689			
TOTAL PER ISLAND	718,087.49		362,005.76		1,080,093	1,092,157	- 1.10

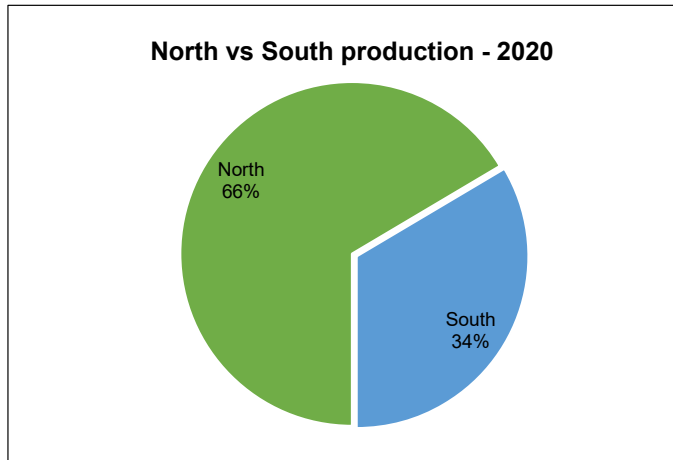
**Summary of Historical Production Data**

	Year 2013	Year 2014	Year 2015	Year 2016	Year 2017	Year 2018	Year 2019	Year 2020
TOTAL	991,027	1,078,141	1,019,269	1,045,071	1,127,806	1,126,679	1,092,157	1,080,093
% change from previous year	2.80%	8.79%	-5.46%	2.53%	7.92%	-0.10%	-3.06%	-1.10%

**Feed production statistics for the year ending December 2020**

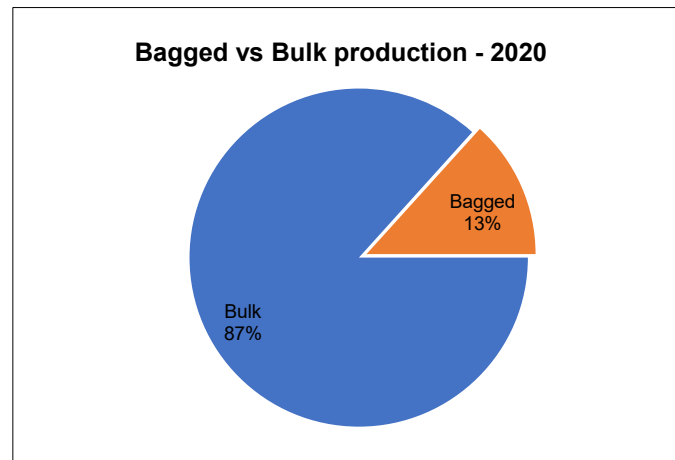
**North vs South production - 2020**

	Tonnage	% of Total
North	718,087	66%
South	362,006	34%



**Bagged vs Bulk production - 2020**

	Tonnage	% of Total
Bulk	936,478	87%
Bagged	143,615	13%



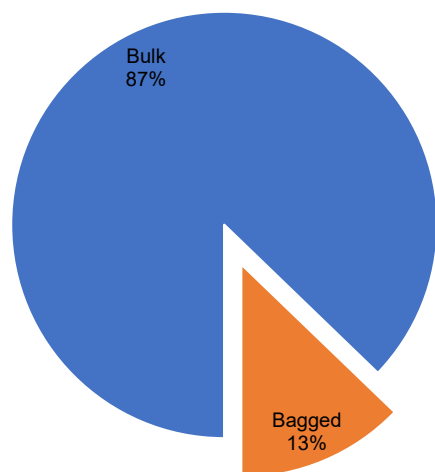
**New Zealand Feed Manufacturers Association  
Annual Feed Production Statistics**

**Year** **2020**  
**Feed production statistics for the period 01 January to 31 December 2020**

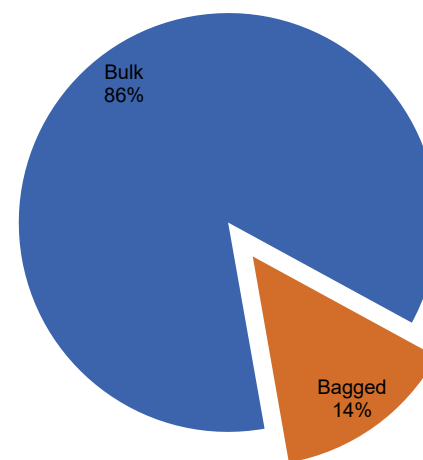
	North Island	
	Bulk	Bagged
TOTAL BULK/BAG	626,162	91,926

	South Island	
	Bulk	Bagged
TOTAL BULK/BAG	310,317	51,689

**North Island Bulk Vs Bagged production - 2020**



**South Island Bulk Vs Bagged production - 2020**



Sources and types of raw materials used in feed production  
Feed production statistics for the year ending December 2020

	RAW MATERIAL USAGE NORTH ISLAND MILLS							
	Domestic		Imported		Total use		Comp. Year 2019	
	T	%	T	%	T	%	T	% change
<b>Grains</b>								
Wheat	21,165.65	9.25	207,769.94	90.75	228,935.60	31.86	190,740.89	20.02
Barley	24,154.91	78.88	6,467.53	21.12	30,622.44	4.26	25,899.38	18.24
Oats	44.00	100.00	-	-	44.00	0.01	89.87	-51.04
Maize	41,079.48	28.18	104,698.46	71.82	145,777.95	20.29	211,667.72	-31.13
Sorghum	-	-	21,032.79	100.00	21,032.79	2.93	-	-
Triticale	-	-	-	-	-	-	-	-
Others	-	-	1,335.42	-	1,335.42	0.19	512.48	160.58
<b>subtotal</b>	<b>86,444.05</b>	<b>20.21</b>	<b>341,304.15</b>	<b>79.79</b>	<b>427,748.20</b>	<b>59.53</b>	<b>428,910.34</b>	<b>-0.27</b>
<b>Grain by-products</b>								<b>0.00</b>
Wheat (Bran, Pollard and broll)	37,180.16	100.00	-	-	37,180.16	5.17	38,936.50	-4.51
Barley (Malt culms and brewers gra	1,747.08	100.00	-	-	1,747.08	0.24	6,455.01	-72.93
Feed production statistics for the ye	849.31	100.00	-	-	849.31	0.12	11.00	7621.00
Others (Bread, biscuits, etc)	487.50	100.00	-	-	487.50	0.07	1,956.83	-75.09
<b>North vs South production - 2020</b>	<b>40,264.05</b>	<b>100.00</b>	<b>-</b>	<b>-</b>	<b>40,264.05</b>	<b>5.60</b>	<b>47,359.34</b>	<b>-14.98</b>
<b>Animal proteins</b>								<b>0.00</b>
Meat and bone meal (non-poultry)	16,144.60	100.00	-	-	16,144.60	2.25	16,511.14	-2.22
Bloodmeal (non-poultry)	604.85	100.00	-	-	604.85	0.08	585.00	3.39
Fishmeal	759.85	100.00	-	-	759.85	0.11	724.13	4.93
Poultry by-product meal	14.00	100.00	-	-	14.00	0.00	866.58	-98.38
Milkpowders	3,053.11	90.65	315.00	9.35	3,368.11	0.47	2,775.48	21.35
Others	460.00	100.00	-	-	460.00	0.06	937.00	-50.91
<b>subtotal</b>	<b>21,036.41</b>	<b>98.52</b>	<b>315.00</b>	<b>1.48</b>	<b>21,351.41</b>	<b>2.97</b>	<b>22,399.33</b>	<b>-4.68</b>
<b>Oils and Tallows</b>								<b>0.00</b>
Vegetable oils (e.g. Soya, canola or	3,112.30	60.50	2,031.62	39.50	5,143.93	0.72	3,303.02	55.73
Poultry fat	2,442.06	72.31	935.00	27.69	3,377.06	0.47	3,071.50	9.95
Tallow used in non-ruminant feed	4,040.54	100.00	-	-	4,040.54	0.56	2,888.18	39.90
Tallow used in ruminant feed	-	-	-	#DIV/0!	-	-	71.13	-100.00
<b>subtotal</b>	<b>9,594.91</b>	<b>76.38</b>	<b>2,966.62</b>	<b>23.62</b>	<b>12,561.53</b>	<b>1.75</b>	<b>9,333.83</b>	<b>34.58</b>
<b>Plant proteins</b>								<b>0.00</b>
Peas	548.00	100.00	-	-	548.00	0.08	72.49	655.97
Soya meal	-	-	112,930.59	100.00	112,930.59	15.72	127,372.70	-11.34
Copra	-	-	701.68	100.00	701.68	0.10	762.08	-7.93
Palm kernel	-	-	13,024.82	100.00	13,024.82	1.81	14,463.54	-9.95
Others	1,972.78	5.51	33,840.65	94.49	35,813.43	4.98	35,715.36	0.27
<b>subtotal</b>	<b>2,520.78</b>	<b>1.55</b>	<b>160,497.74</b>	<b>98.45</b>	<b>163,018.52</b>	<b>22.69</b>	<b>178,386.17</b>	<b>-8.61</b>
<b>Roughages</b>								<b>0.00</b>
Grass Hay	156.00	100.00	-	-	156.00	0.02	-	-
Lucerne/Alfalfa Hay	109.16	56.81	83.00	43.19	192.16	0.03	507.44	-62.13
Other	15.00	1.26	1,180.00	98.74	1,195.00	0.17	-	-
<b>subtotal</b>	<b>280.16</b>	<b>18.16</b>	<b>1,263.00</b>	<b>81.84</b>	<b>1,543.16</b>	<b>0.21</b>	<b>507.44</b>	<b>204.11</b>
<b>Others</b>								<b>0.00</b>
Limestone	15,411.92	98.21	281.00	1.79	15,692.92	2.18	15,429.56	1.71
All other raw materials	30,930.79	85.17	5,385.66	14.83	36,316.44	5.05	45,360.11	-19.94
<b>subtotal</b>	<b>46,342.71</b>	<b>89.10</b>	<b>5,666.66</b>	<b>10.90</b>	<b>52,009.36</b>	<b>7.24</b>	<b>60,789.67</b>	<b>-14.44</b>
<b>TOTALS</b>	<b>206,483.07</b>		<b>512,013.17</b>		<b>718,496.23</b>		<b>747,686.12</b>	

Sources and types of raw materials used in feed production  
Feed production statistics for the year ending December 2020

	RAW MATERIAL USAGE SOUTH ISLAND MILLS							
	Domestic		Imported		Total use		Comp. Year 2019	
	T	%	T	%	T	%	T	% change
<b>Grains</b>								
Wheat	116,007.95	82.52	24,573.40	17.48	140,581.35	41.01	125,138.59	12.3
Barley	54,458.44	100.00	-	-	54,458.44	15.89	51,002.23	6.8
Oats	246.00	100.00	-	-	246.00	0.07	397.50	-38.1
Maize	2,553.75	17.33	12,182.94	82.67	14,736.69	4.30	28,000.50	-47.4
Sorghum	-	-	2,782.16	100.00	2,782.16	0.81	-	-
Triticale	6,135.00	100.00	-	-	6,135.00	1.79	5,947.40	3.2
Others	-	-	586.34	-	586.34	0.17	622.75	-5.8
<b>subtotal</b>	<b>179,401.14</b>	<b>81.72</b>	<b>40,124.84</b>	<b>200.15</b>	<b>219,525.98</b>	<b>64.04</b>	<b>211,108.97</b>	<b>4.0</b>
<b>Grain by-products</b>								
Wheat (Bran, Pollard and broll)	19,692.85	100.00	-	-	19,692.85	5.74	19,414.09	1.4
Barley (Malt culms and brewers grain)	385.09	100.00	-	-	385.09	0.11	87.39	340.7
Feed production statistics for the year	114.13	100.00	-	-	114.13	0.03	1,789.07	-93.6
Others (Bread, biscuits, etc)	-	-	171.00	100.00	171.00	0.05	316.16	-45.9
<b>North vs South production - 2020</b>	<b>20,192.07</b>	<b>100.00</b>	<b>-</b>	<b>100.00</b>	<b>20,192.07</b>	<b>5.94</b>	<b>21,606.71</b>	<b>-6.5</b>
<b>Animal proteins</b>								
Meat and bone meal (non-poultry)	9,740.40	100.00	-	-	9,740.40	2.84	8,020.63	21.4
Bloodmeal (non-poultry)	1,525.70	100.00	-	-	1,525.70	0.45	1,060.54	43.9
Fishmeal	1,598.61	98.74	20.45	1.26	1,619.07	0.47	1,300.55	24.5
Poultry by-product meal	-	-	-	-	-	-	-	-
Milkpowders	1,576.45	100.00	-	-	1,576.45	0.46	1,587.94	-0.7
Others	297.14	55.47	238.50	44.53	535.64	0.16	82.00	553.2
<b>subtotal</b>	<b>14,738.31</b>	<b>99.20</b>	<b>119.25</b>	<b>0.80</b>	<b>14,857.56</b>	<b>4.33</b>	<b>12,051.66</b>	<b>23.3</b>
<b>Oils and Tallows</b>								
Vegetable oils (e.g. Soya, canola or	1,512.24	88.35	199.32	11.65	1,711.56	0.50	1,508.82	13.4
Poultry fat	759.59	100.00	-	-	759.59	0.22	848.43	-10.5
Tallow used in non-ruminant feed	2,812.84	100.00	-	-	2,812.84	0.82	3,322.95	-15.4
Tallow used in ruminant feed	310.00	23.48	1,010.00	76.52	1,320.00	0.39	-	-
<b>subtotal</b>	<b>5,394.67</b>	<b>81.69</b>	<b>1,209.32</b>	<b>18.31</b>	<b>6,603.99</b>	<b>1.93</b>	<b>5,680.20</b>	<b>16.3</b>
<b>Plant proteins</b>								
Peas	1,585.56	100.00	-	-	1,585.56	0.46	2,272.71	-30.2
Soya meal	-	-	39,094.75	100.00	39,094.75	11.40	42,404.97	-7.8
Copra	-	-	814.00	100.00	814.00	0.24	16,591.50	-95.1
Palm kernel	-	-	6,995.36	100.00	6,995.36	2.04	8,119.94	-13.8
Others	2,874.94	17.31	13,730.71	82.69	16,605.65	4.84	44,245.47	-62.5
<b>subtotal</b>	<b>4,460.50</b>	<b>6.85</b>	<b>60,634.82</b>	<b>93.15</b>	<b>65,095.32</b>	<b>18.99</b>	<b>113,634.59</b>	<b>-209.5</b>
<b>Roughages</b>								
Grass Hay	560.00	100.00	-	-	560.00	0.16	286.00	95.8
Lucerne/Alfalfa Hay	26.81	49.82	27.00	50.18	53.81	0.02	52.07	3.3
Other	526.90	99.62	2.00	-	528.90	0.15	727.40	-27.3
<b>subtotal</b>	<b>1,113.71</b>	<b>97.46</b>	<b>29.00</b>	<b>50.18</b>	<b>1,142.71</b>	<b>0.33</b>	<b>1,065.47</b>	<b>7.2</b>
<b>Others</b>								
Limestone	5,961.67	93.79	395.00	6.21	6,356.67	1.85	14,486.26	-56.1
All other raw materials	7,542.03	83.57	1,482.62	16.43	9,024.65	2.63	10,172.21	-11.3
<b>subtotal</b>	<b>13,503.70</b>	<b>87.79</b>	<b>1,877.62</b>	<b>22.64</b>	<b>15,381.32</b>	<b>4.49</b>	<b>24,658.47</b>	<b>-37.6</b>
<b>TOTALS</b>	<b>238,804.10</b>		<b>103,994.85</b>		<b>342,798.95</b>		<b>389,806.07</b>	

Sources and types of raw materials used in feed production  
Feed production statistics for the year ending December 2020

	RAW MATERIAL USAGE AT NATIONAL LEVEL							
	Domestic		Imported		Total use		Comp. Year 2019	
	T	%	T	%	T	%	T	% change
<b>Grains</b>								
Wheat	149,176.09	39.62	227,345.09	60.38	376,521.18	34.84	315,879.48	19.2
Barley	83,014.41	92.18	7,045.53	7.82	90,059.94	8.33	76,901.61	17.1
Oats	279.00	100.00	-	-	279.00	0.03	487.37	-42.8
Maize	43,509.10	27.51	114,651.21	72.49	158,160.31	14.63	239,668.21	-34.0
Sorghum	-	-	28,956.61	100.00	28,956.61	2.68	-	-
Triticale	5,481.00	100.00	-	-	5,481.00	0.51	5,947.40	-7.8
Others	-	-	3,066.06	100.00	3,066.06	0.28	1,135.23	170.1
<b>subtotal</b>	<b>281,459.60</b>	<b>42.48</b>	<b>381,064.50</b>	<b>57.52</b>	<b>662,524.10</b>	<b>61.30</b>	<b>640,019.30</b>	<b>3.5</b>
<b>Grain by-products</b>								
Wheat (Bran, Pollard and broll)	56,079.40	100.00	-	-	56,079.40	5.19	58,350.59	-3.9
Barley (Malt culms and brewers gra	2,023.89	100.00	-	-	2,023.89	0.19	6,542.41	-69.1
Feed production statistics for the ye	995.43	100.00	-	-	995.43	0.09	1,790.78	-44.4
Others (Bread, biscuits, etc)	487.50	74.03	171.00	25.97	658.50	0.06	2,272.98	-71.0
<b>North vs South production - 2020</b>	<b>59,586.22</b>	<b>99.71</b>	<b>171.00</b>	<b>0.29</b>	<b>59,757.22</b>	<b>5.53</b>	<b>68,956.76</b>	<b>-13.3</b>
<b>Animal proteins</b>								
Meat and bone meal (non-poultry)	25,988.81	100.00	-	-	25,988.81	2.40	24,531.77	5.9
Bloodmeal (non-poultry)	2,112.71	100.00	-	-	2,112.71	0.20	1,645.54	28.4
Fishmeal	2,327.31	98.72	30.12	1.28	2,357.43	0.22	2,024.68	16.4
Poultry by-product meal	14.00	100.00	-	-	14.00	0.00	866.58	-98.4
Milkpowders	4,634.55	93.64	315.00	6.36	4,949.55	0.46	4,363.42	13.4
Others	725.14	85.88	119.25	14.12	844.39	0.08	1,019.00	-17.1
<b>subtotal</b>	<b>35,802.52</b>	<b>98.72</b>	<b>464.37</b>	<b>1.28</b>	<b>36,266.89</b>	<b>3.36</b>	<b>34,450.99</b>	<b>5.3</b>
<b>Oils and Tallows</b>								
Vegetable oils (e.g. Soya, canola or	4,753.51	68.13	2,223.53	31.87	6,977.04	0.65	4,811.84	45.0
Poultry fat	3,192.01	77.34	935.00	22.66	4,127.01	0.38	3,919.83	5.3
Tallow used in non-ruminant feed	6,958.77	100.00	-	-	6,958.77	0.64	6,211.13	12.0
Tallow used in ruminant feed	155.00	-	505.00	76.52	660.00	0.06	71.12	828.0
<b>subtotal</b>	<b>15,059.29</b>	<b>80.43</b>	<b>3,663.53</b>	<b>19.57</b>	<b>18,722.83</b>	<b>1.73</b>	<b>15,013.92</b>	<b>24.7</b>
<b>Plant proteins</b>								
Peas	2,560.54	100.00	-	-	2,560.54	0.24	2,345.20	9.2
Soya meal	-	-	154,307.75	100.00	154,307.75	14.28	169,777.66	-9.1
Copra	-	-	1,524.68	100.00	1,524.68	0.14	17,353.58	-91.2
Palm kernel	-	-	19,876.12	100.00	19,876.12	1.84	22,583.48	-12.0
Others	4,904.50	8.95	49,884.03	91.05	54,788.53	5.07	79,960.83	-31.5
<b>subtotal</b>	<b>7,465.04</b>	<b>3.20</b>	<b>225,592.58</b>	<b>96.80</b>	<b>233,057.61</b>	<b>21.56</b>	<b>292,020.75</b>	<b>-20.2</b>
<b>Roughages</b>								
Grass Hay	706.00	-	-	-	706.00	0.07	286.00	146.9
Lucerne/Alfalfa Hay	135.22	56.88	102.50	43.12	237.72	0.02	559.51	-57.5
Other	394.60	-	1,211.70	75.43	1,606.30	0.15	727.40	120.8
<b>subtotal</b>	<b>1,235.82</b>	<b>48.46</b>	<b>1,314.20</b>	<b>51.54</b>	<b>2,550.02</b>	<b>0.24</b>	<b>1,572.91</b>	<b>62.1</b>
<b>Others</b>								
Limestone	21,495.65	96.65	746.00	3.35	22,241.65	2.06	29,915.81	-25.7
All other raw materials	37,890.92	82.83	7,856.98	17.17	45,747.90	4.23	55,532.33	-17.6
<b>subtotal</b>	<b>59,386.57</b>	<b>87.35</b>	<b>8,602.98</b>	<b>12.65</b>	<b>67,989.55</b>	<b>6.29</b>	<b>85,448.14</b>	<b>-20.4</b>
<b>TOTALS</b>	<b>459,995.05</b>		<b>620,873.17</b>		<b>1,080,868.21</b>		<b>1,137,482.77</b>	

**NZFMA Raw Material Usage Graphics**

**Feed production statistics for the year ending December 2020**

**Usage of raw material categories in New Zealand 2020**

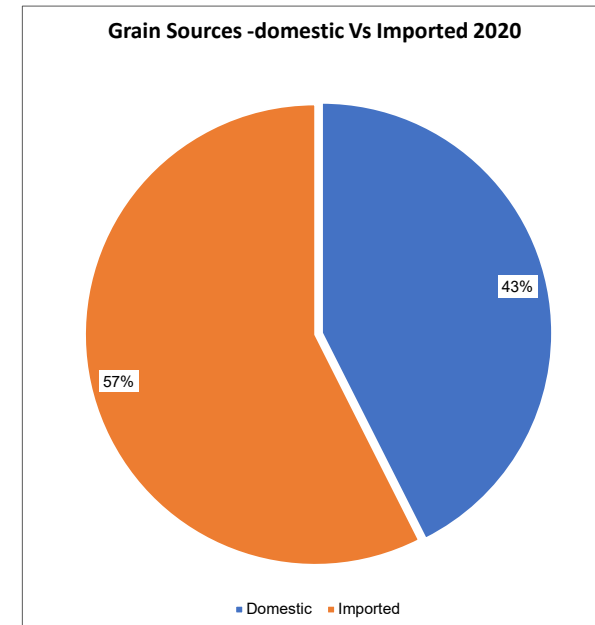
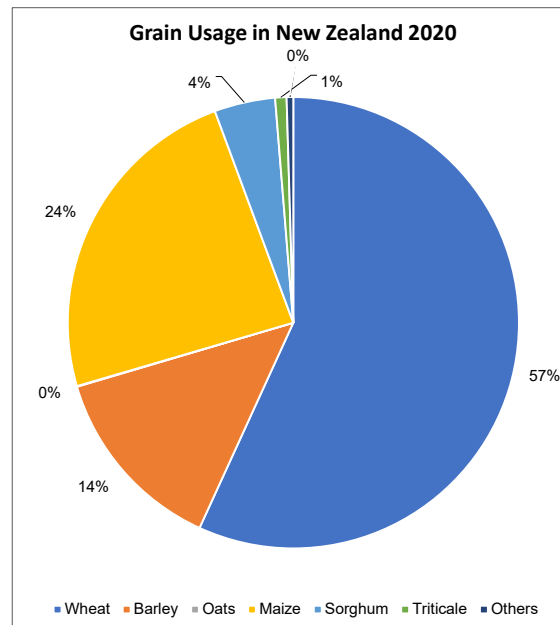
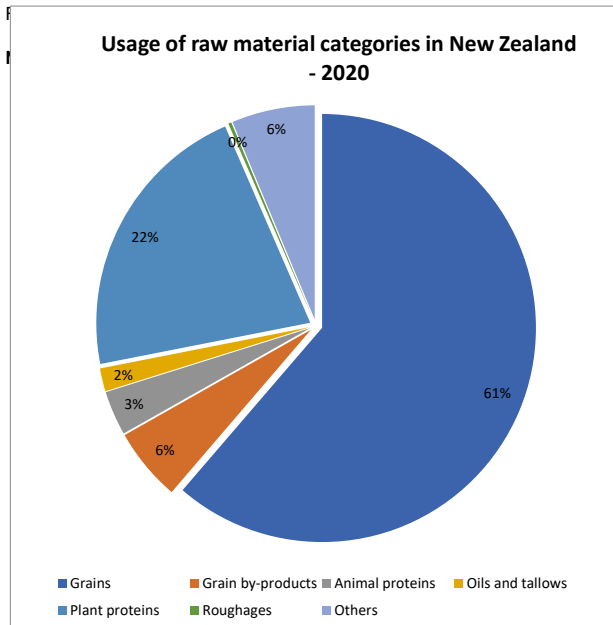
	Tonnage	% of Total
Grains	662,524	61
Grain by-products	59,757	6
Animal proteins	36,267	3
Oils and tallows	18,723	2
Plant proteins	233,058	22
Roughages	2,550	0
Others	67,990	6
<b>Total</b>	<b>1,080,868</b>	<b>100</b>

**Grain Usage in New Zealand 2019**

	Tonnage	% of Total
Wheat	376,521	57%
Barley	90,060	14%
Oats	279	0%
Maize	158,160	24%
Sorghum	28,957	4%
Triticale	5,481	1%
Others	3,066	0%
<b>Total</b>	<b>662,524</b>	<b>100%</b>

**Grain Sources -domestic Vs Imported 2019**

	Tonnage	% of Total
Domestic	459,995	43%
Imported	620,873	57%
<b>Total</b>	<b>1,080,868</b>	<b>100%</b>





Grain Usage in the North Island 2020

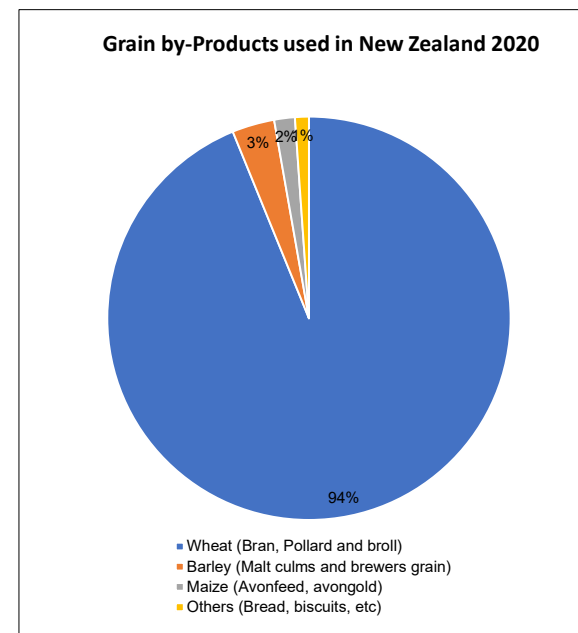
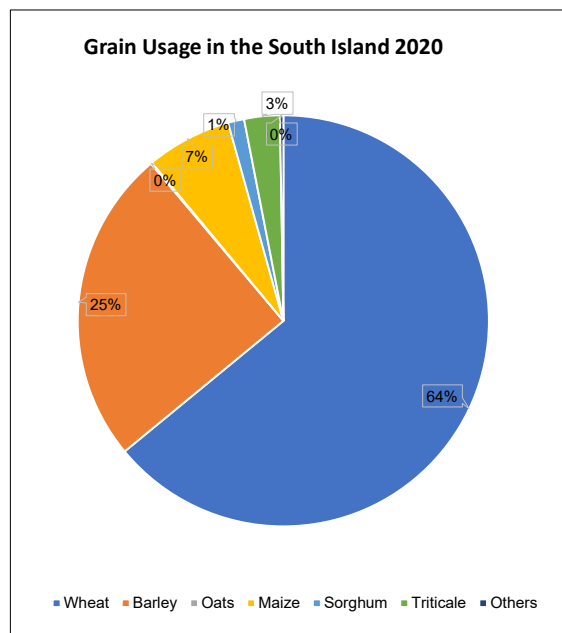
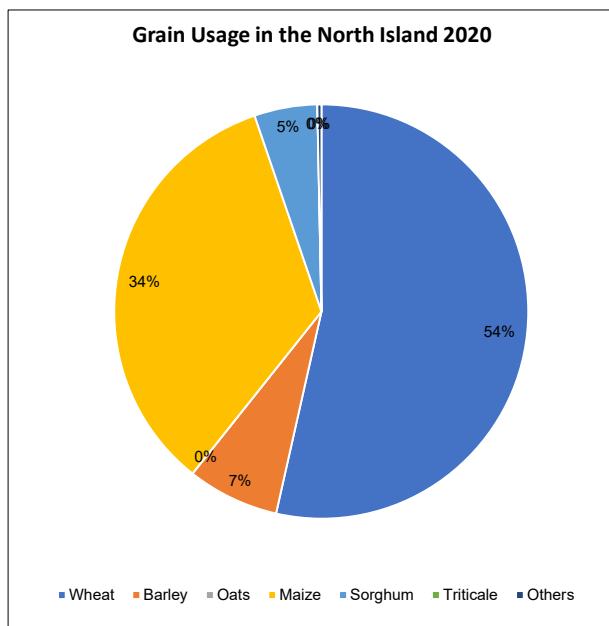
	Tonnage	% of Total
Wheat	228,936	54%
Barley	30,622	7%
Oats	44	0%
Maize	145,778	34%
Sorghum	21,033	5%
Triticale	-	0%
Others	1,335	0%
<b>Total</b>	<b>427,748</b>	<b>100%</b>

Grain Usage in the South Island 2020

	Tonnage	% of Total
Wheat	140,581	64%
Barley	54,458	25%
Oats	246	0%
Maize	14,737	7%
Sorghum	2,782	1%
Triticale	6,135	3%
Others	586	0%
<b>Total</b>	<b>219,526</b>	<b>100%</b>

Grain by-products used in New Zealand 2020

	Tonnage	% of Total
Wheat (Bran, Pollard and broll)	56,079	94%
Barley (Malt culms and brewers grain)	2,024	3%
Maize (Avonfeed, avongold)	995	2%
Others (Bread, biscuits, etc)	659	1%
<b>Total</b>	<b>59,757</b>	<b>100%</b>

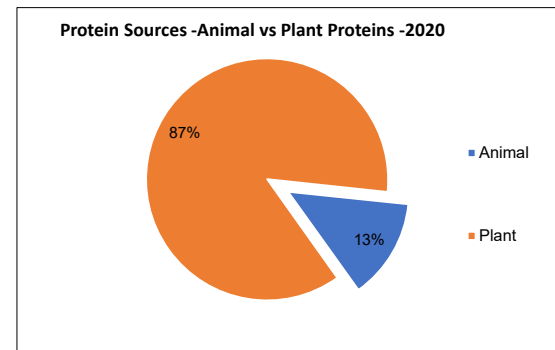


**Protein usage in New Zealand 2020**

	Tonnage	% of Total
Meat and bone meal (non-poultry)	25,988.81	10%
Bloodmeal (non-poultry)	2,112.71	1%
Fishmeal	2,357.43	1%
Poultry by-product meal	14.00	0%
Milkpowders	4,949.55	2%
Other animal proteins	844.39	0%
Peas	2,560.54	1%
Soya meal	154,307.75	57%
Copra	1,524.68	1%
Palm kernel	19,876.12	7%
Other plant proteins	54,788.53	20%
<b>Total</b>	<b>269,324.50</b>	<b>100%</b>

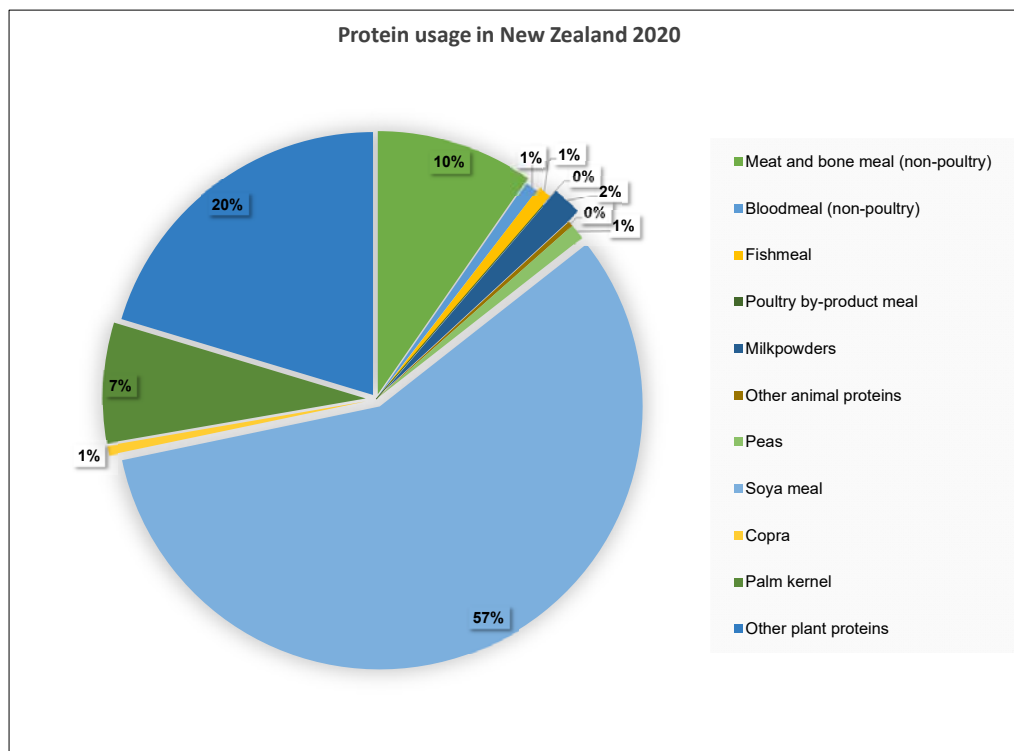
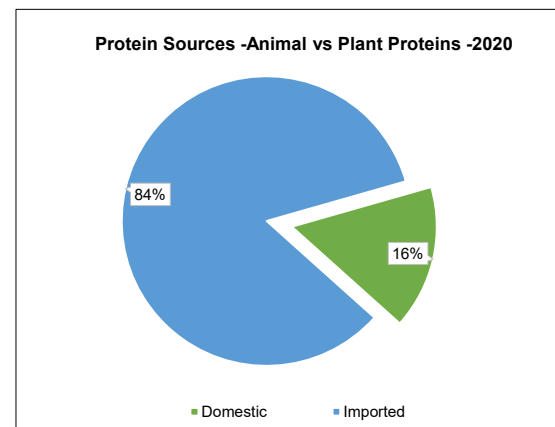
**Protein Sources -Animal vs Plant Proteins -2020**

	Tonnage	% of Total
Animal	36,266.89	13%
Plant	233,057.61	87%
<b>Total</b>	<b>269,324.50</b>	<b>100%</b>



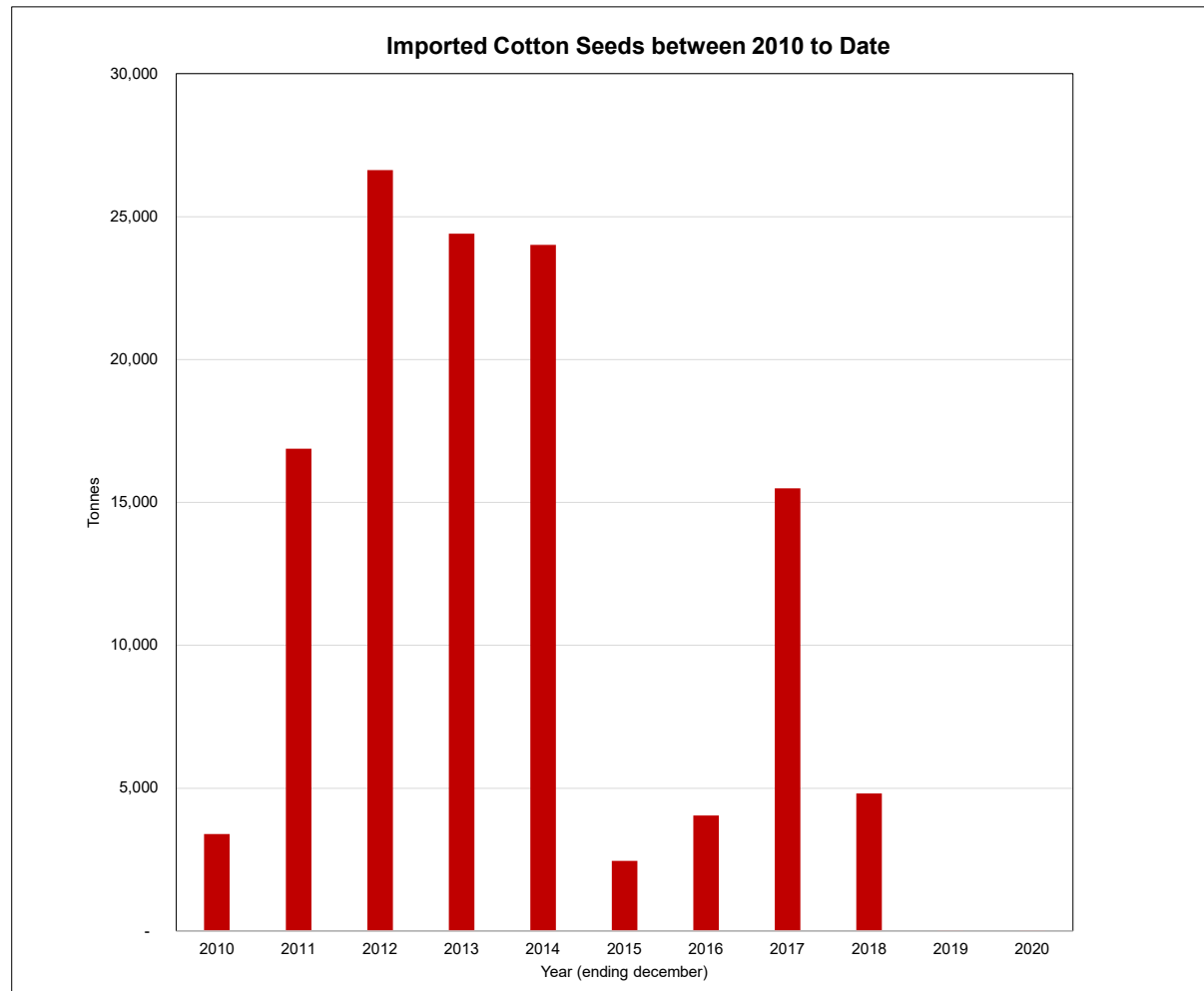
**Protein Sources -Domestic vs Imported -2020**

	Tonnage	% of Total
Domestic	43,267.55	16%
Imported	226,056.95	84%
<b>Total</b>	<b>269,324.50</b>	<b>100%</b>



**Imported Cotton Seeds between 2010 to Date**

Year	Tonnage	% Δ
2010	3,395	397%
2011	16,881	58%
2012	26,626	-8%
2013	24,404	-2%
2014	24,015	-90%
2015	2,452	65%
2016	4,049	283%
2017	15,498	-69%
2018	4,822	-100%
2019	15	56%
2020	24	-100%

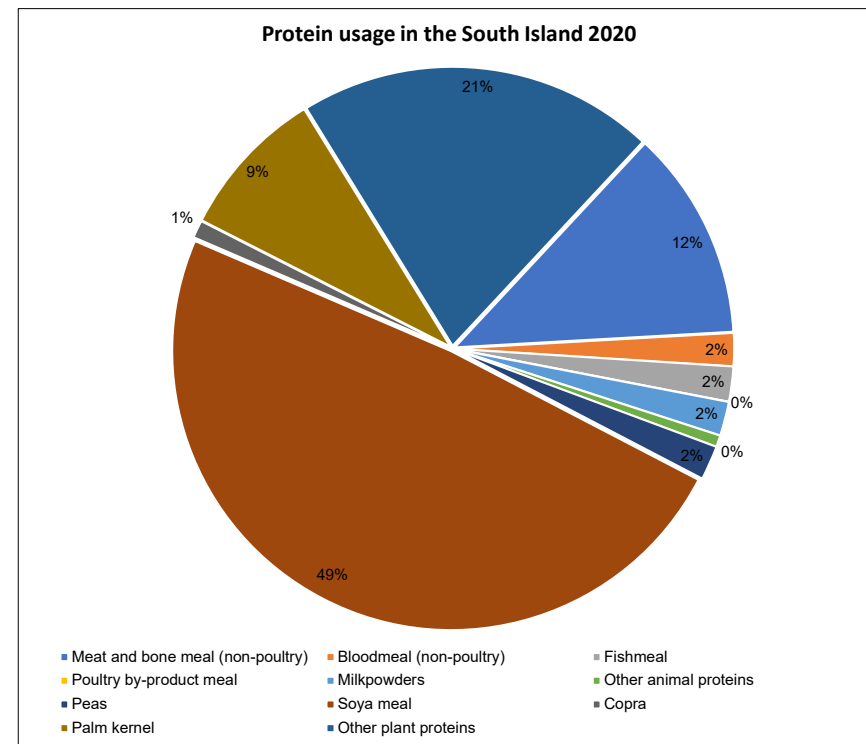
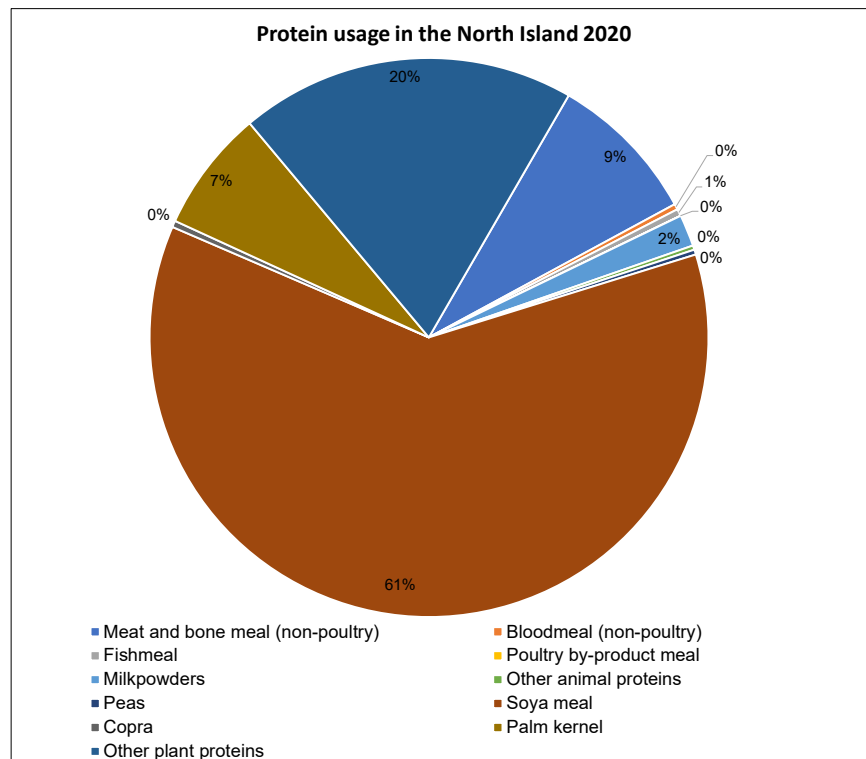


**Protein usage in the North Island 2020**

	Tonnage	% of Total	
Meat and bone meal (non-poultry)	16,144.60	9%	264,462.51
Bloodmeal (non-poultry)	604.85	0%	
Fishmeal	759.85	0%	
Poultry by-product meal	14.00	0%	
Milkpowders	3,368.11	2%	
Other animal proteins	460.00	0%	
Peas	548.00	0%	
Soya meal	112,930.59	61%	
Copra	701.68	0%	
Palm kernel	13,024.82	7%	
Other plant proteins	35,813.43	19%	
<b>Total</b>	<b>184,369.93</b>	<b>100%</b>	

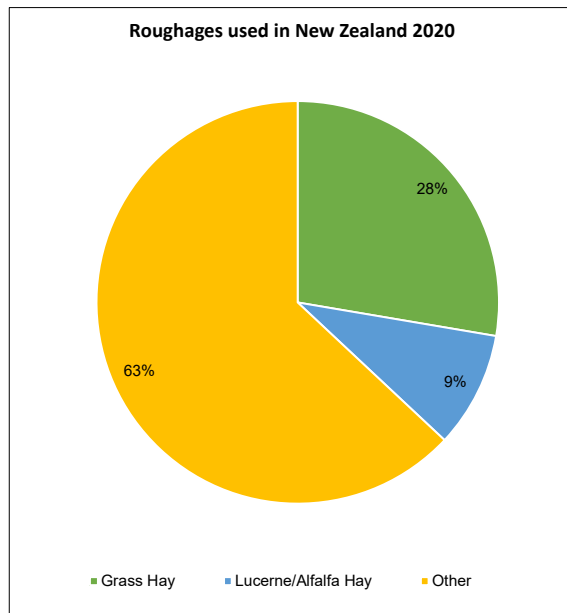
**Protein usage on the South Island 2020**

	Tonnage	% of Total
Meat and bone meal (non-poultry)	9,740	12%
Bloodmeal (non-poultry)	1,526	2%
Fishmeal	1,619	2%
Poultry by-product meal	-	0%
Milkpowders	1,576	2%
Other animal proteins	536	1%
Peas	1,586	2%
Soya meal	39,095	49%
Copra	814	1%
Palm kernel	6,995	9%
Other plant proteins	16,606	21%
<b>Total</b>	<b>80,093</b>	<b>100%</b>



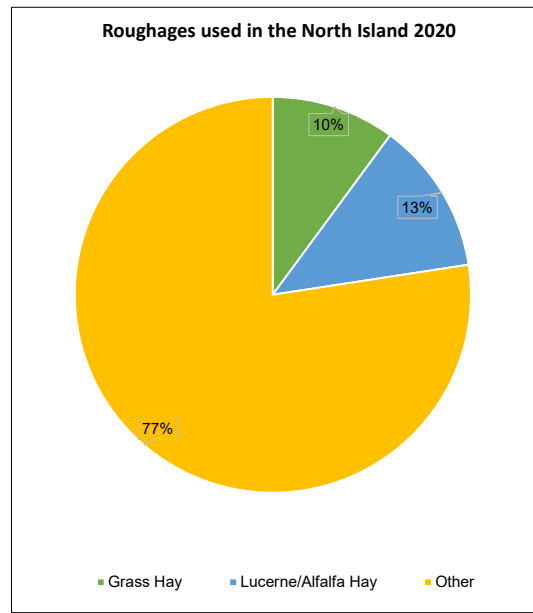
**Roughages used in New Zealand 2020**

	Tonnage	% of Total
Grass Hay	706	28%
Lucerne/Alfalfa Hay	238	9%
Other	1,606	63%
<b>Total</b>	<b>2,550</b>	<b>100%</b>



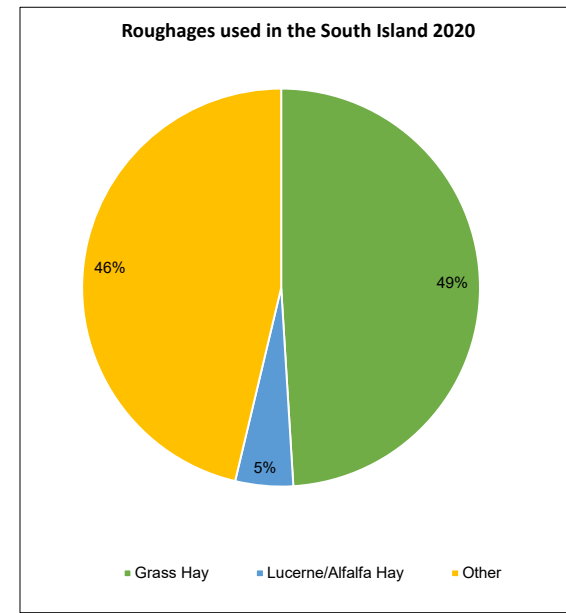
**Roughages used in the North Island 2020**

	Tonnage	% of Total
Grass Hay	156	10%
Lucerne/Alfalfa H	192	12%
Other	1,195	77%
<b>Total</b>	<b>1,543</b>	<b>100%</b>



**Roughages used in the South Island 2020**

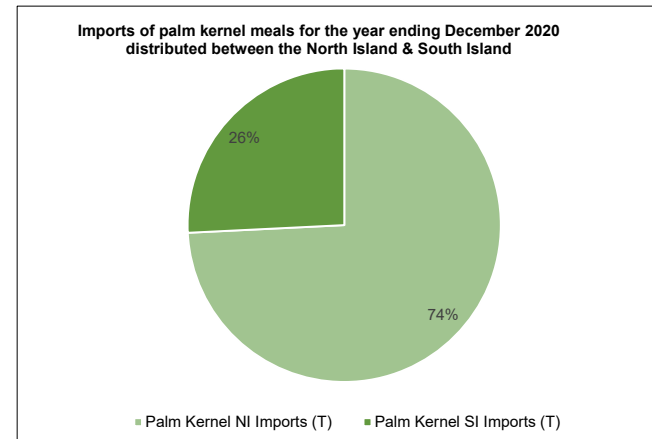
	Tonnage	% of Total
Grass Hay	560	49%
Lucerne/Alfalfa H	54	5%
Other	529	46%
<b>Total</b>	<b>1,143</b>	<b>100%</b>



**Imports of palm kernel and copra meals for the year ending December 2020**

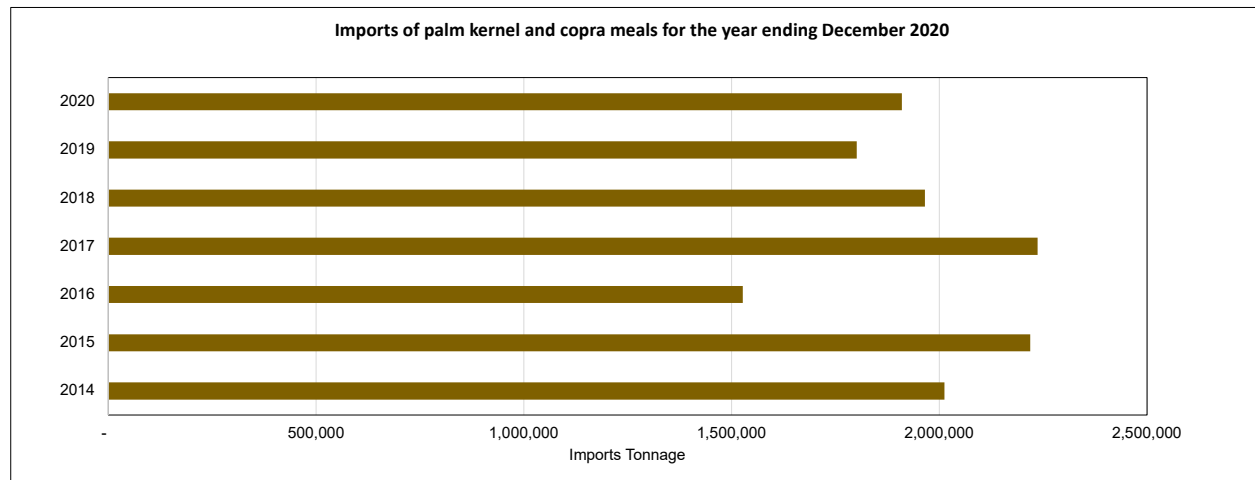
	Year ending December 2020	Year ending December 2019	% change
<b>Total Copra Imports (T)</b>	773	1,156	-33.11%
<b>Total Palm Kernel Imports (T)</b>	1,910,258	1,801,418	6.04%

Copra NI Imports (T)	538	0	302147.19%
Copra SI Imports (T)	235	22	961.86%
Palm Kernel NI Imports (T)	1,417,628	1,520,431	-6.76%
Palm Kernel SI Imports (T)	492,630	444,921	10.72%



	2014	2015	2016	2017	2018	2019	2020
Total Copra Imports (T)	1,104	543	47	42	22	1,156	773
<b>Total Palm Kernel Imports (T)</b>	<b>2,012,799</b>	<b>2,219,282</b>	<b>1,526,966</b>	<b>2,236,999</b>	<b>1,965,352</b>	<b>1,801,418</b>	<b>1,910,258</b>

Copra NI Imports (T)	1,082	504	27	3	0	789	538
Copra SI Imports (T)	22	38	20	39	22	366	235
Palm Kernel NI Imports (T)	1,611,987	1,549,359	1,206,330	1,763,284	1,520,431	1,354,379	1,417,628
Palm Kernel SI Imports (T)	400,813	669,923	320,637	473,715	444,921	447,039	492,630

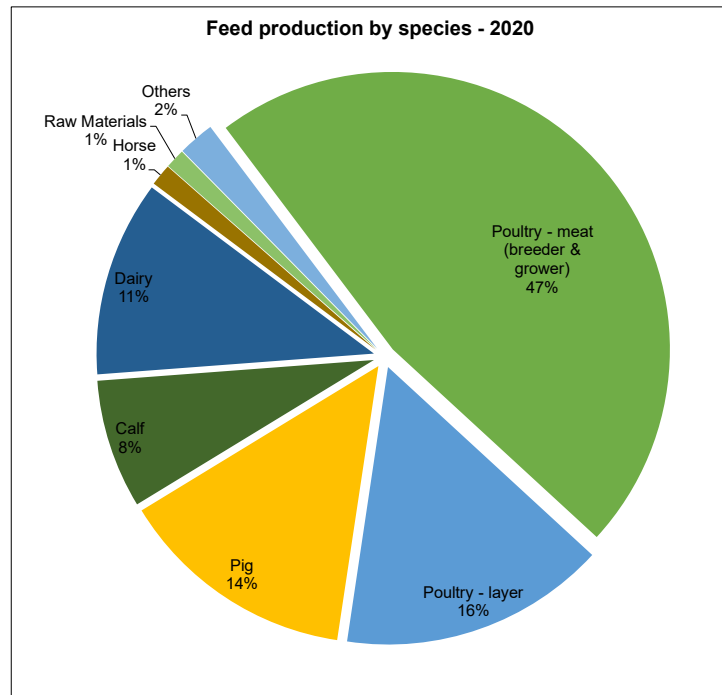


**NZFMA Compound Feed Production Statistics**  
**Feed production statistics for the year ending December 2020**

Feed type	North Island		South Island		Total Tonnage	% of Total	Comparison Year 2019	% Δ
	Bulk	Bagged	Bulk	Bagged				
<b>Poultry - Meat &amp; Breeding</b>								
Poultrymeat - Grower Feeds (chk,tur,dck)	368,780	2,632	82,814	1,520	455,746	42%	467,301	-2%
Poultrymeat - all Breeder Flocks	44,765	-	7,766	569	53,099	5%	54,010	-2%
<b>Poultry - Layer</b>								
Layer Flocks incl Rearing & Breeders	100,354	21,515	40,239	5,751	167,859	16%	179,944	-7%
<b>Pig</b>								
Grower & General Feeds	21,131	5,665	98,624	297	125,717	12%	120,539	4%
Breeder Feeds	6,188	963	17,186	187	24,524	2%	23,956	2%
<b>Calf</b>								
Milk replacers	-	2,673	-	-	2,673	0%	3,061	-13%
Meals, Pellets, Crumbles etc	9,051	39,749	915	21,171	70,886	7%	76,720	-8%
Textured Feeds	-	5,036	-	2,613	7,649	1%	9,320	-18%
<b>Ruminant</b>								
Dairy	65,365	968	56,563	398	123,295	11%	119,614	3%
Beef, Sheep, Deer, Goat	6,809	5,820	1,623	6,913	21,165	2%	12,115	75%
<b>Horse</b>								
Meals, Pellets, Crumbles etc	1	689	735	466	1,891	0%	1,422	33%
Textured Feeds	-	3,160	-	8,565	11,725	1%	10,951	7%
<b>Others</b>								
Aquaculture	-	10	-	-	10	0%	13	-23%
Dog	-	327	-	-	327	0%	1,826	-82%
Rabbits, Small Animals	1	591	-	332	924	0%	975	-5%
Emu/Ostrich	-	11	-	-	11	0%	34	-68%
Other	-	179	52	140	371	0%	1,937	-81%
<b>Raw Materials</b>								
Grain & Grain Mixtures	1,883	1,766	2,897	2,084	8,630	1%	6,024	43%
All Other Raw Materials	1,822	149	904	683	3,559	0%	2,394	49%
Unblended Milk Powders for Sale	14	22	-	-	36	0%	-	#DIV/0!
<b>SUB TOTAL</b>	<b>626,162</b>	<b>91,927</b>	<b>310,316</b>	<b>51,689</b>	<b>1,080,095</b>	<b>100%</b>	<b>1,092,157</b>	
<b>TOTAL PER ISLAND</b>		<b>718,089</b>		<b>362,006</b>				

**NZFMA Feed Production Graphs**

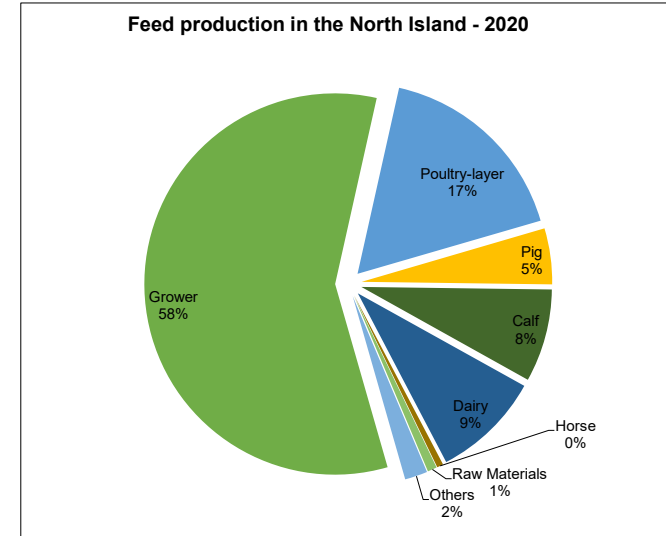
**Feed production statistics for the year ending December 2020**



Feed category	Tonnes	%
Poultry - meat (breeder & grower)	508,845	47%
Poultry - layer	167,859	16%
Pig	150,240	14%
Calf	81,208	8%
Dairy	123,295	11%
Horse	13,616	1%
Raw Materials	12,224	1%
Others	22,807	2%
<b>Totals</b>	<b>1,080,095</b>	<b>100%</b>

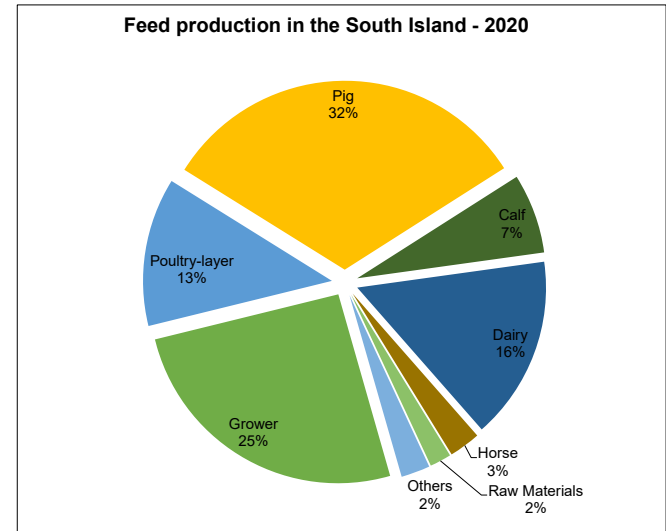
**Feed production in the North Island -2020**

Feed Category	Tonnes	%
Grower	416,176	58%
Poultry-layer	121,869	17%
Pig	33,946	5%
Calf	56,510	8%
Dairy	66,333	9%
Horse	3,850	1%
Raw Materials	5,656	1%
Others	13,748	2%
<b>Totals</b>	<b>718,089</b>	<b>100%</b>



**Feed production in the South Island -2020**

Feed Category	Tonnes	%
Grower	92,669	26%
Poultry-layer	45,990	13%
Pig	116,294	32%
Calf	24,698	7%
Dairy	56,962	16%
Horse	9,766	3%
Raw Materials	6,568	2%
Others	9,059	3%
<b>Totals</b>	<b>362,006</b>	<b>100%</b>





Summary of Historical Production Data

Feed production statistics for the year ending December 2020

Year ending	Dec-08	Dec-09	Dec-10	Dec-11	Dec-12	Dec-13	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18	Dec-19	Dec-20
<b>Poultry - Meat &amp; Breeding</b>													
Poultrymeat - Grower Feeds	349,061	306,035	341,107	370,737	388,959	372,892	387,271	421,501	433,122	450,204	471,646	467,301	455,746
Poultrymeat - all Breeder Flocks	52,410	49,121	41,858	30,333	15,537	32,869	47,898	52,810	49,987	50,639	48,088	54,010	53,099
<b>Poultry - Layer</b>													
Layer Flocks incl Rearing & Breeders	127,162	131,108	143,505	140,315	136,574	132,986	149,725	159,496	167,413	169,162	169,559	179,944	167,859
<b>Pig</b>													
Grower & General Feeds	142,033	129,168	132,022	140,514	137,156	123,851	118,501	113,163	119,588	127,670	123,226	120,539	125,717
Breeder Feeds	40,061	36,432	36,671	39,632	36,786	24,918	23,899	23,118	26,631	24,173	24,720	23,956	24,524
<b>Calf</b>													
Milk replacers	4,811	3,345	383	1,403	15,432	16,129	7,432	12,958	1,864	2,507	2,745	3,061	2,673
Meals, Pellets, Crumbles etc	54,499	33,346	35,631	48,595	48,882	55,313	74,201	56,128	66,551	79,644	78,090	76,720	70,886
Textured Feeds	8,628	4,904	726	776	6,004	4,642	1,760	6,914	10,680	11,923	10,588	9,320	7,649
<b>Ruminant</b>													
Feed production statistics for the year ending	139,657	49,271	92,142	117,073	134,444	171,259	216,065	107,668	120,000	171,774	156,197	119,614	123,295
Beef, Sheep, Deer, Goat	8,719	2,494	4,939	4,026	5,970	12,485	9,971	15,428	13,268	10,713	11,796	12,115	21,165
<b>North vs South production - 2020</b>													
Meals, Pellets, Crumbles etc	5,969	3,195	2,506	3,053	4,685	3,745	2,720	2,921	294	357	1,365	1,422	1,891
Textured Feeds	8,210	4,837	4,917	5,474	4,475	4,930	8,458	7,363	6,012	7,892	8,115	10,951	11,725
<b>Others</b>													
Aquaculture	2	-	-	1,989	942	1,058	288	85	3	4	10	13	10
Dog	4,739	2,603	2,463	2,295	2,752	2,017	2,677	1,758	2,233	2,423	2,060	1,826	327
Rabbits, Small Animals	1,002	793	797	1,089	989	996	827	1,112	1,105	1,219	990	975	924
Emu/Ostrich	111	27	48	74	27	12	4	-	3	6	11	34	11
Other	709	1,744	1,490	2,961	2,365	1,474	1,695	1,600	3,632	646	1,557	1,937	371
<b>Raw Materials</b>													
Grain & Grain Mixtures	15,297	20,911	10,139	9,101	18,390	19,300	12,190	12,188	9,287	5,685	9,671	6,024	8,630
All Other Raw Materials	2,341	526	1,768	2,449	3,665	9,920	12,558	23,059	13,398	11,166	6,247	2,395	3,559
Unblended Milk Powders for Sale	45	20	-	-	-	231	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>965,465</b>	<b>779,881</b>	<b>853,111</b>	<b>921,889</b>	<b>964,035</b>	<b>991,027</b>	<b>1,078,141</b>	<b>1,019,269</b>	<b>1,045,071</b>	<b>1,127,806</b>	<b>1,126,679</b>	<b>1,092,157</b>	<b>1,080,059</b>
<b>% change compared to previous year</b>		<b>-19.22%</b>	<b>9.39%</b>	<b>8.06%</b>	<b>4.57%</b>	<b>2.80%</b>	<b>8.79%</b>	<b>-5.46%</b>	<b>2.53%</b>	<b>7.92%</b>	<b>-0.10%</b>	<b>-3.06%</b>	<b>-1.11%</b>