



*The objective of this AIMI survey of New Zealand (NZ) cereal growers was to determine, as at April 1, 2021:*

- *The size of the 2021 NZ harvest of wheat, barley and oats*
- *The sales channels, storage status and unsold amount of the 2021 NZ harvest*
- *The tonnages of carry-over stocks on farms from the 2020 NZ harvest*
- *NZ sowings and sowing intentions of wheat, barley and oats (both milling/malting and feed) for the autumn and winter of 2021*

## **Survey details**

Data from 135 NZ survey farms who completed both of the last two cereal surveys (October 2020 and April 2021) were scaled up to the national level using the most recent (Provisional 2020) NZ Agricultural Production Statistics. As with all surveys, there is a margin of error which needs to be considered in relation to this report.

These figures reflect the position as at the 1<sup>st</sup> April 2021 and there will have been changes since this time.

- Rainfall for the 2020-21 season was below average across many regions in New Zealand. Overall, yields were down 3% compared to last season (averaged over all six crops). Also, less hectares were harvested than last season (3% down), and the net result was a 6% decrease in total tonnage compared to last season.
- On the survey farms, the 2021 harvests of milling wheat and malting barley were 100% completed by 1 April, with feed wheat harvest 99.9% complete and feed barley harvest 95% complete. The harvests of milling oats and feed oats were 71% and 73% complete, respectively, by 1 April.
- Carry-over stocks (both sold and unsold) of feed wheat and feed barley are low. Unsold stocks on hand of last year's feed wheat and feed barley crops were 1.6% and 0.3% of the 2020 harvest tonnages, respectively.
- Stocks of unsold feed wheat from the current harvest are down 26% on unsold stocks at this time last year. Unsold stocks of feed barley are down 24% as compared to this time last year, and unsold stocks of milling wheat are down 18%.
- Soil moisture levels remain low heading into winter and growers are hoping for rain to improve soil levels and recharge aquifers for the season ahead. Autumn/winter sowings of feed wheat are predicted to be similar (down by 300 hectares) to predicted sowings a year ago, with feed barley also similar (up by 100 ha). Milling wheat autumn/winter sowings are predicted to be down by 1,800 ha, malting barley down 2,400 ha, milling oats down 130 ha, and feed oats up 40 ha. However, these predictions are based mostly on intentions as over all six crops, only 9% had been sown by 1 April 2021.

**Key Points as at 1 April 2021** (figures have been rounded to nearest 100):

**Milling wheat:** Estimated total tonnage (100,600 t) was down 1% compared to last year's harvest (101,300 t). Of this total, 73% has been sold (73,300 t), although most of the sold grain is still stored on farm (94%). The amount of unsold grain is 27,300 tonnes (27%). Unsold grain carried over from the 2020 harvest was 2,600 tonnes, so the estimate of unsold grain in the market is 29,900 tonnes.

**Feed wheat:** Estimated total tonnage (316,600 t) was down 9% compared to last year's harvest (346,800 t). Of this total, 73% has been sold (229,600 t), with 74% of the sold grain still stored on farm. The amount of unsold grain is 87,000 tonnes (27%). Unsold stock carried over from last season was 5,700 tonnes, taking the estimate of total unsold grain in the market to 92,700 tonnes.

**Feed barley:** Estimated total tonnage (246,300 t) was down 5% compared to last year (258,500 t). Of this total tonnage, 61% has been sold (149,900 t), with 56% of the sold grain still stored on farm. About 39% (96,400 t) remains unsold. Carryover of unsold grain was 700 tonnes, taking the estimate of total unsold grain in the market to 97,100 tonnes.

**For other cereals:** Compared to last year, estimated total tonnages for malting barley (59,600 t) was down by 21%, milling oats (17,500 t) was up by 31%, and feed oats (17,400 t) was up by 60%. For malting barley, 16% of the total harvest was unsold, while milling oats had 14% unsold and feed oats had 5% unsold as at 1 April, 2021. There were no unsold stocks carried over from last season for malting barley and milling oats, and almost no feed oats.

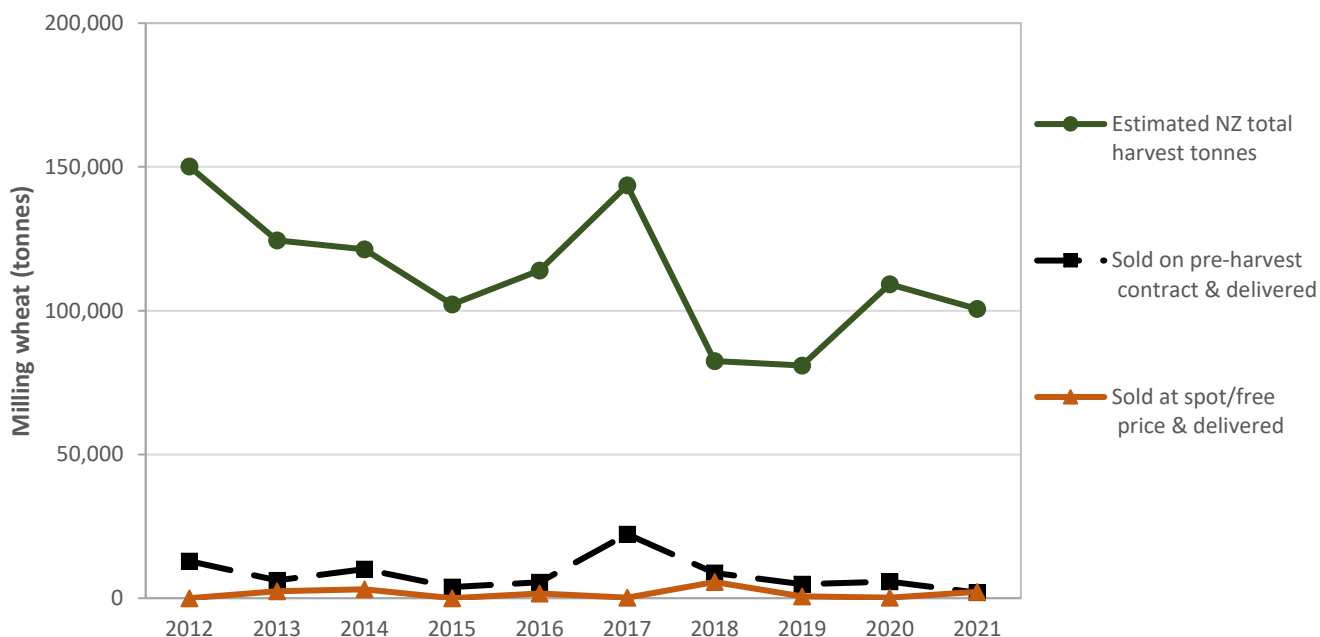
**Sowing intentions:** Only a few autumn/winter cereal crops had been sown by 1 April 2021. For feed wheat, 12% of the planned area had been sown, while for feed barley, 8% had been sown. No milling wheat, malting barley or feed oats had been sown, and a small area of milling oats had been sown (25% of the planned area).

For autumn/winter wheat and barley overall, the total area sown or intending to be sown as at 1 April 2021, was down 7% (or, down by 4,300 hectares) on sowings plus intentions as at 1 April 2020.

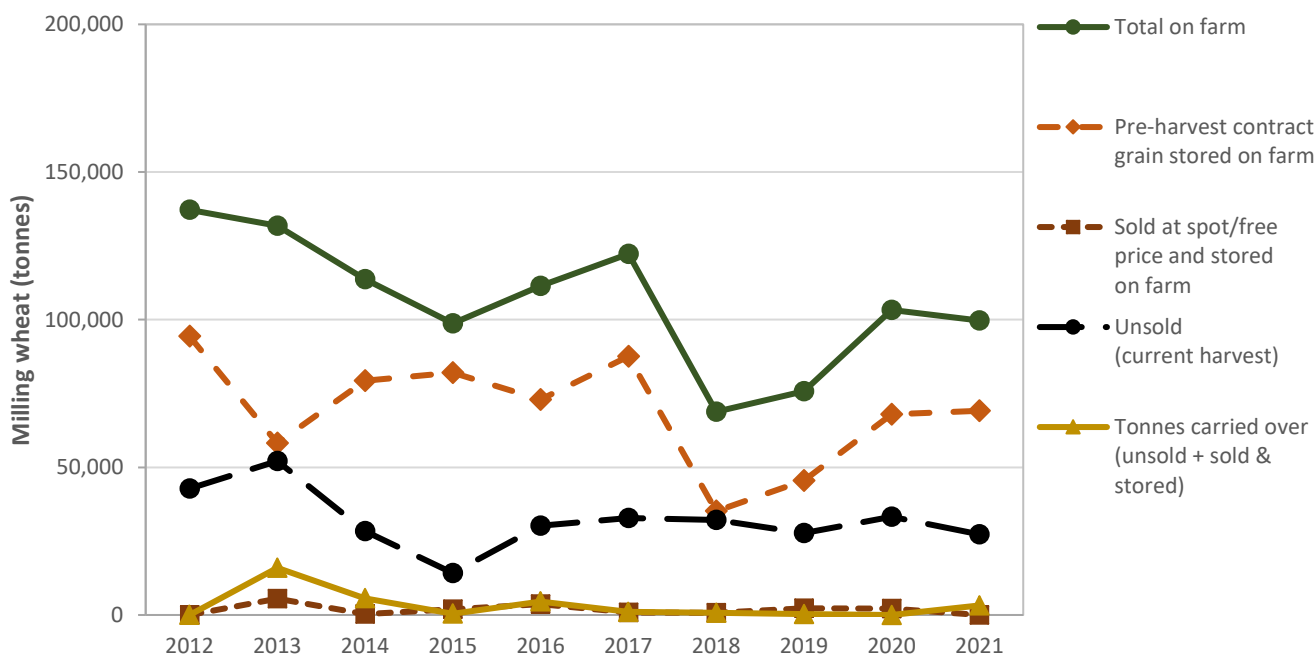
In more detail, feed wheat area sown or intending to be sown in the autumn/winter was down 1% (down 300 hectares) as compared to last year. Autumn/winter feed barley was up 1% (up 100 hectares), and milling wheat was down 21% (down 1,800 hectares). Autumn/winter malting barley was predicted to be down 60% (down 2,400 hectares) on last year.

Milling oats area sown or intending to be sown in the autumn/winter was down 12% (down 130 hectares), while feed oats was up 8% (up 40 hectares).

### Milling Wheat (tonnes)

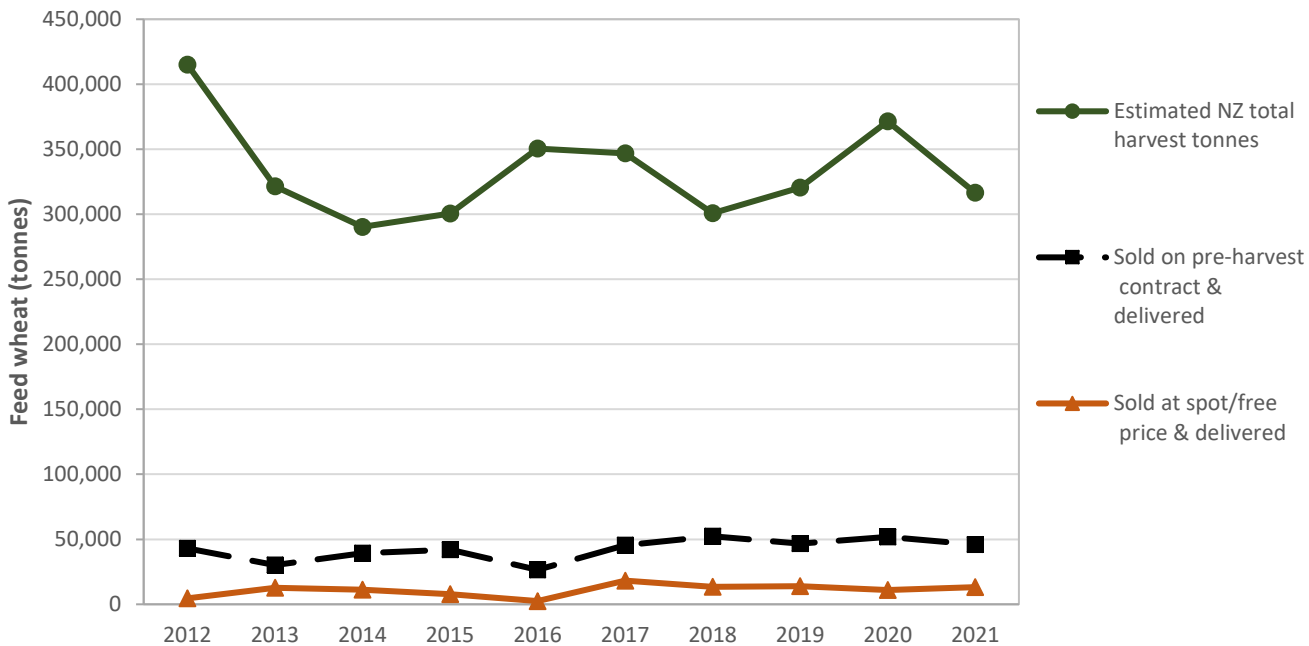


**Figure 1a. NZ harvest tonnage and sales channels for milling wheat as estimated on 1 April each year.** Note: Historical data for 2012 to 2020 are from April AIMI Reports for 2020 and earlier, while data for 2021 are from the current report. “Total harvest tonnes” includes harvested and unharvested grain for that season’s harvest. “Sold at spot/free price & delivered” includes grain sold for feed.



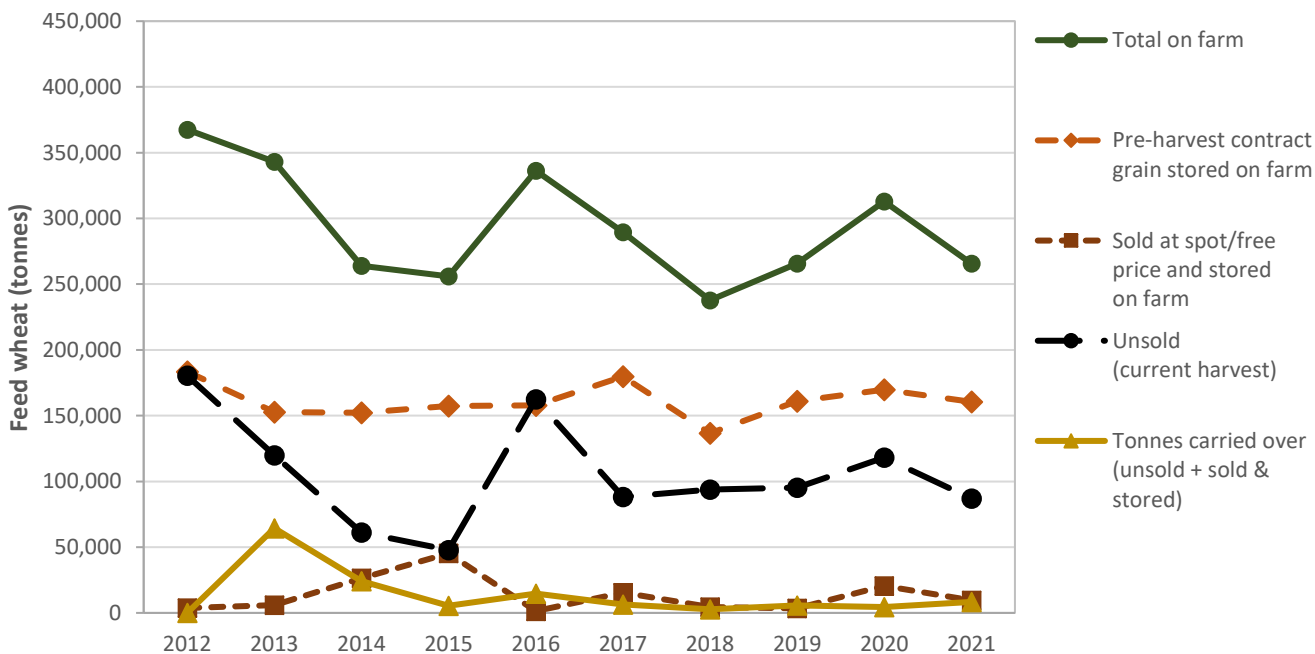
**Figure 1b. NZ stock on farms for milling wheat as estimated on 1 April each year.** Note: Historical data for 2012 to 2020 are from April AIMI Reports for 2020 and earlier, while data for 2021 are from the current report. Unharvested grain is included. For the 2012 and 2013 harvests, the sales status of the unharvested grain was unknown, so it was assumed unsold. After this time, the sales status of the unharvested grain was determined and has been apportioned between “Pre-harvest contract grain stored on farm” and “Unsold”. “Tonnes carried over” is the sum of sold and unsold stock carried over (still on farm) from the previous season.

### Feed Wheat (Tonnes)



**Figure 2a. NZ harvest tonnage and sales channels for feed wheat as estimated on 1 April each year.**

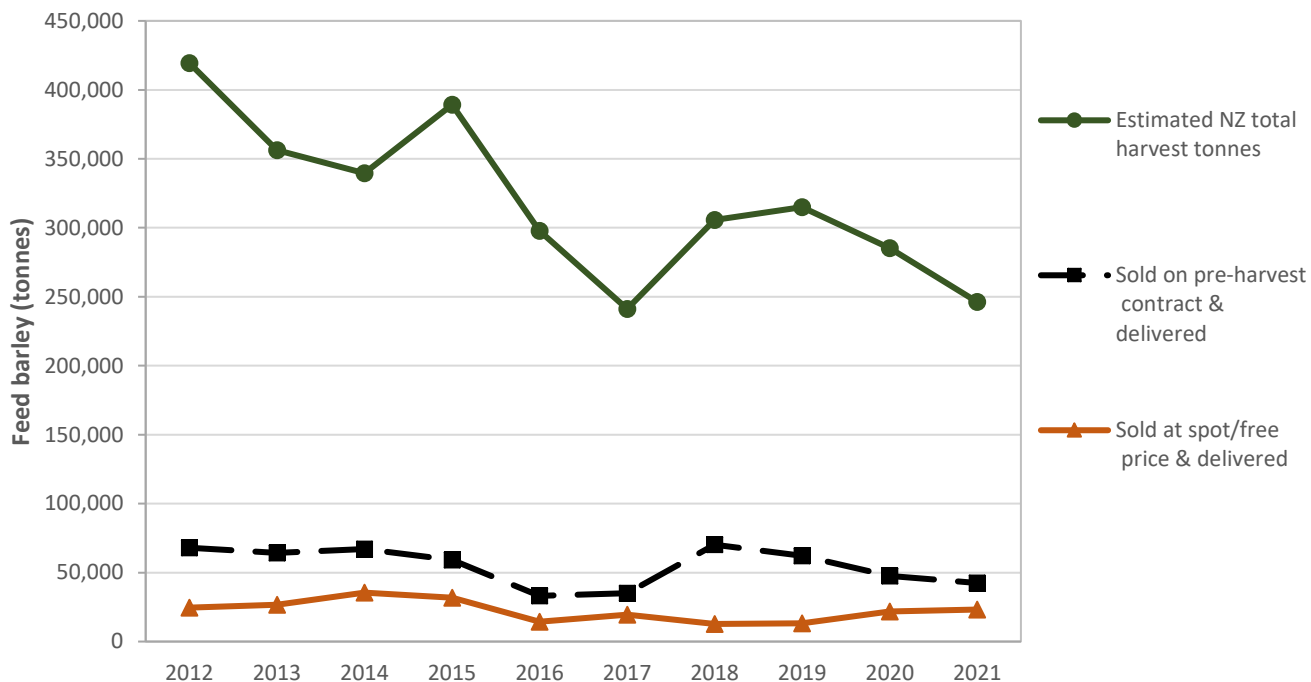
Note: Historical data for 2012 to 2020 are from April AIMI Reports for 2020 and earlier, while data for 2021 are from the current report. “Total harvest tonnes” includes harvested and unharvested grain for that season’s harvest. “Sold at spot/free price & delivered” includes grain used on own farm.



**Figure 2b. NZ stock on farms for feed wheat as estimated on 1 April each year.**

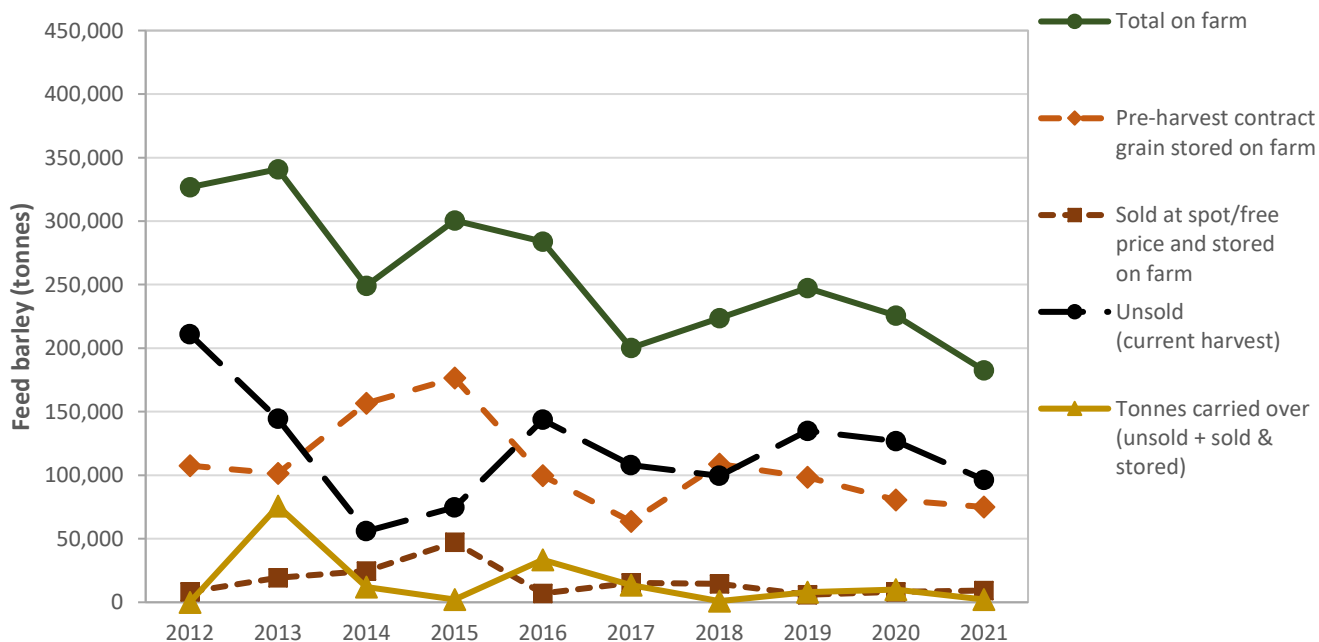
Note: Historical data for 2012 to 2020 are from April AIMI Reports for 2020 and earlier, while data for 2021 are from the current report. Unharvested grain is included. For the 2012 and 2013 harvests, the sales status of the unharvested grain was unknown, so it was assumed unsold. After this time the sales status of the unharvested grain was determined and has been apportioned between “Pre-harvest contract grain stored on farm” and “Unsold”. “Tonnes carried over” is the sum of sold and unsold stock carried over (still on farm) from the previous season.

### Feed Barley (Tonnes)



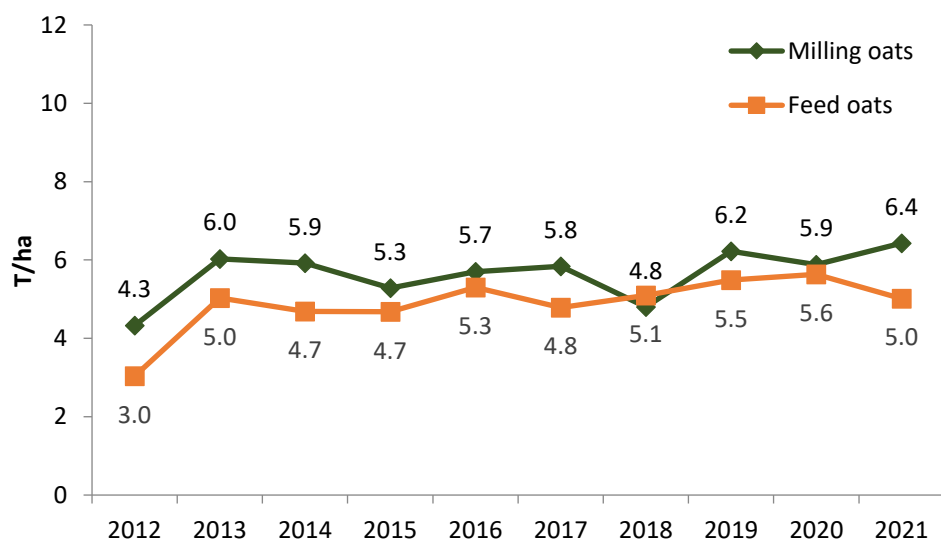
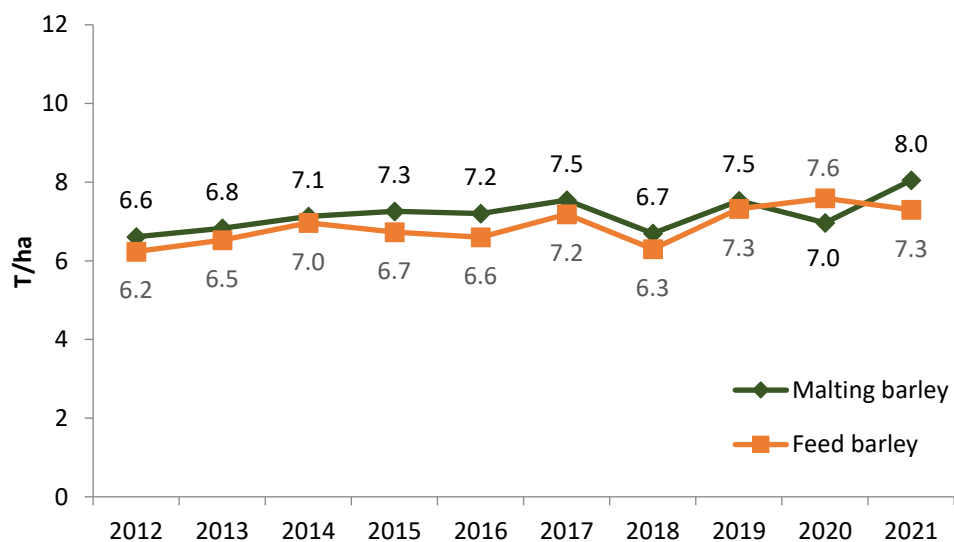
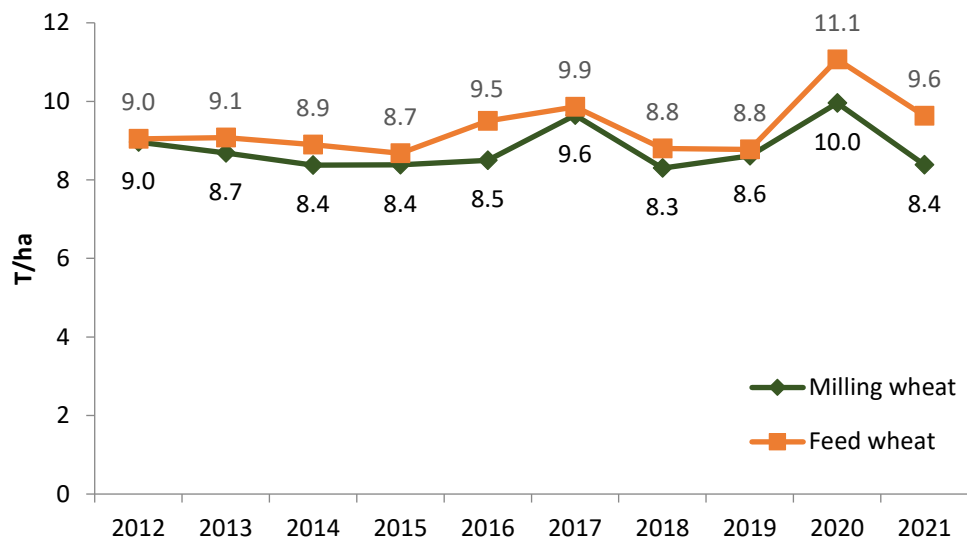
**Figure 3a. NZ harvest tonnage and sales channels for feed barley as estimated on 1 April each year.**

Note: Historical data for 2012 to 2020 are from April AIMI Reports for 2020 and earlier, while data for 2021 are from the current report. “Total harvest tonnes” includes harvested and unharvested grain for that season’s harvest. “Sold at spot/free price & delivered” includes grain used on own farm.



**Figure 3b. NZ stock on farms for feed barley as estimated on 1 April each year.**

Note: Historical data for 2012 to 2020 are from April AIMI Reports for 2020 and earlier, while data for 2021 are from the current report. Unharvested grain is included. For the 2012 and 2013 harvests, the sales status of the unharvested grain was unknown, so it was assumed unsold. After this time, the sales status of the unharvested grain was determined and has been apportioned between “Pre-harvest contract grain stored on farm” and “Unsold”. “Tonnes carried over” is the sum of sold and unsold stock carried over (still on farm) from the previous season.



**Figure 4. Comparison of yields between the 2012 to 2021 harvests for the six cereal crops. Data are from the current survey and from previous April 1 AIMI reports for 2012 to 2020. Note: Milling wheat includes biscuit and gristing varieties.**

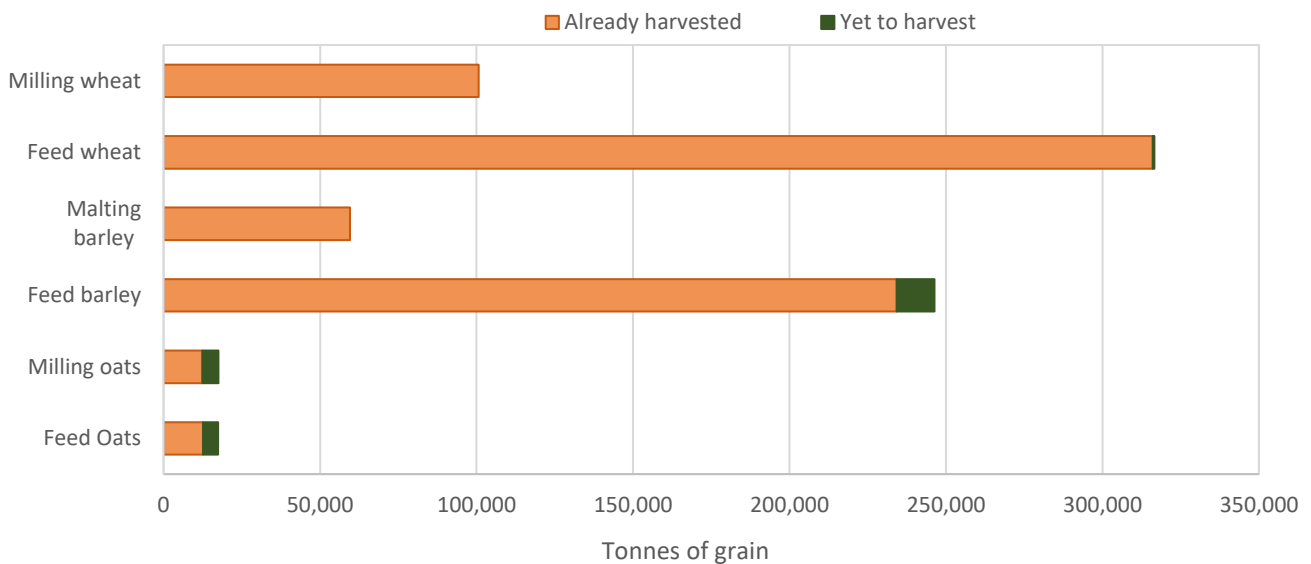


Figure 5. Estimated NZ tonnes harvested before 1 April 2021, and yet to harvest as at 1 April, 2021.

**Autumn/winter sowings and sowing intentions as at 1 April each year (spring sowings not included).**

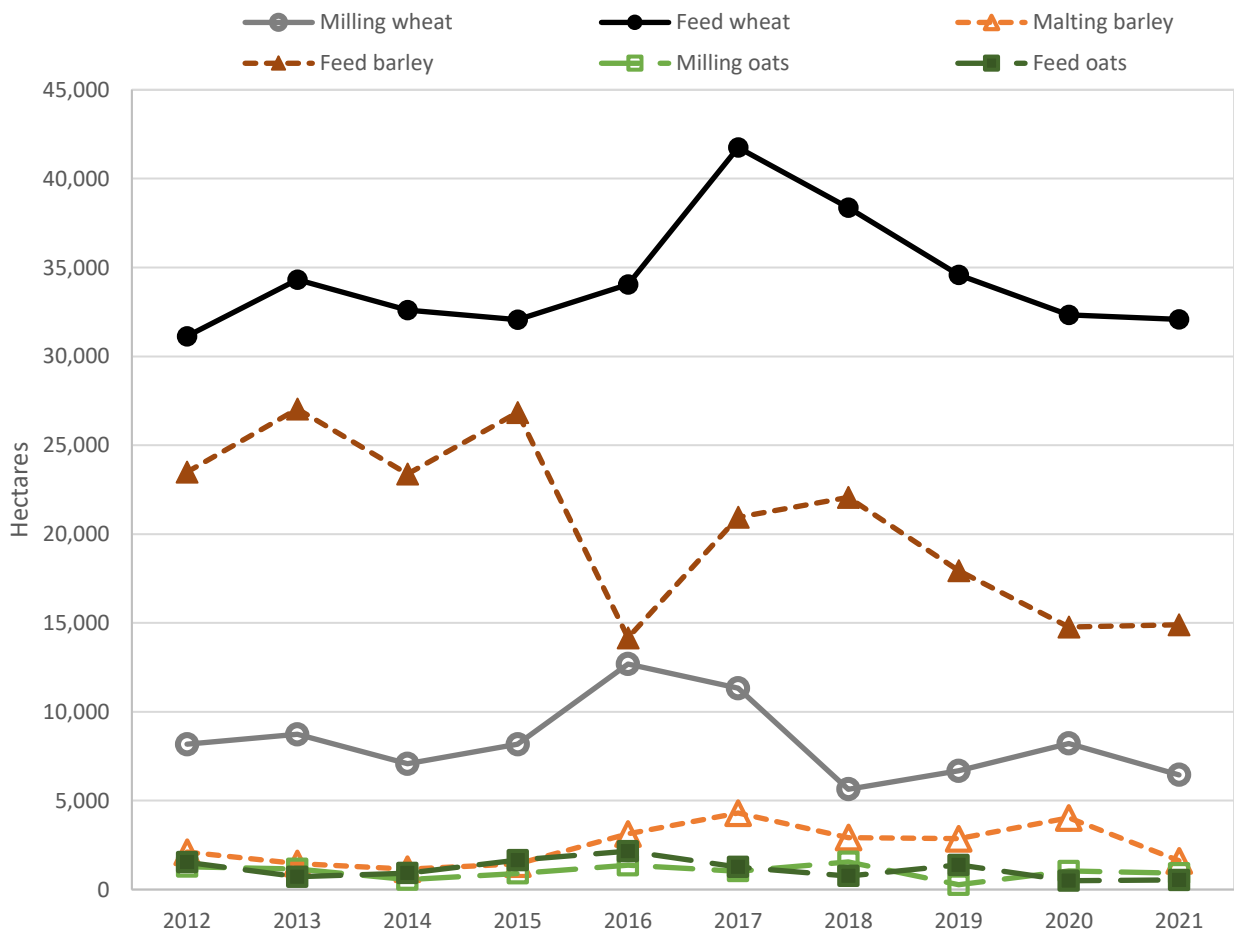
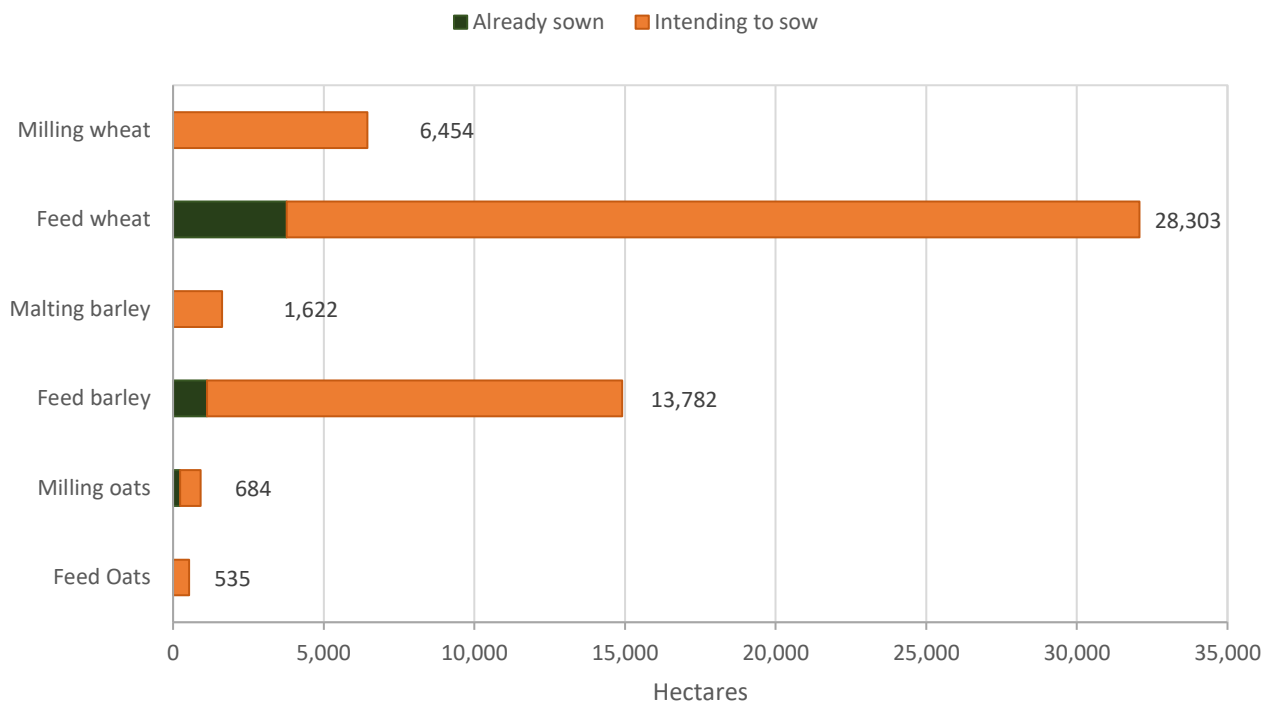


Figure 6. Estimated NZ total hectares sown or intended to be sown in autumn/winter 2021 (spring hectares not included), along with the corresponding estimates from the nine previous 1 April AIMI survey reports. Figures for 2021 are from the current report, while other figures are from previous April AIMI reports for 2012 – 2020. Note: Data are mostly intentions (see Fig. 7). This information is also presented in Table 3 below.



**Figure 7. Estimated NZ autumn/winter 2021 sowings and sowing intentions as at 1 April, 2021.**

Note: Numbers at the end of the bars represent autumn/winter sowing intentions (spring intentions are not included). These are estimated totals derived from the survey, and have an associated margin of error.



**Table 1. Estimated national figures for the 2021 harvest, plus sold and delivered tonnages, for six cereal crops as at April 1, 2021.**

	Units	Milling wheat	Feed wheat	Malting barley	Feed barley	Milling oats	Feed oats	Total (all crops)
<b>Number of farmers in the survey who harvested or will harvest this crop in 2021</b>		<b>47</b>	<b>86</b>	<b>27</b>	<b>96</b>	<b>8</b>	<b>28</b>	<b>129</b>
<b>2020 harvest</b>								
Estimated NZ total hectares, 2020 harvest	ha	11,210	33,990	11,242	34,558	2,320	2,080	95,400
Estimated NZ total tonnes, 2020 harvest	tonnes	101,347	346,753	75,090	258,510	13,310	10,890	805,900
<b>2021 harvest</b>								
Estimated NZ total hectares, 2021 harvest	ha	12,008	32,861	7,407	33,754	2,717	3,470	92,217
Estimated NZ total tonnes, 2021 harvest	tonnes	100,629	316,560	59,606	246,297	17,470	17,402	757,964
Estimated NZ total hectares already harvested by 1 April, 2021	ha	12,008	32,797	7,407	32,005	1,817	2,331	88,366
Estimated NZ total tonnes already harvested by 1 April, 2021	tonnes	100,629	316,102	59,606	234,215	12,379	12,631	735,561
Estimated NZ total hectares yet to harvest as at 1 April, 2021	ha	0	63	0	1,749	900	1,139	3,852
Estimated NZ total tonnes yet to harvest as at 1 April, 2021	tonnes	0	459	0	12,082	5,091	4,771	22,403
Percentage of estimated 2021 crop tonnage which had been harvested by 1 April, 2021	%	100%	100%	100%	95%	71%	73%	97%
Average over previous 7 years of % of crop tonnage which had been harvested by 1 April	%	98%	99%	100%	92%	63%	80%	-
<b>2021 harvest so far</b>								
Sold under pre-harvest contract and delivered by 1 April, 2021	tonnes	1,941	46,039	7,795	42,462	655	4,229	103,121
Pre-harvest contract grain stored on farm on 1 April, 2021	tonnes	69,162	160,558	41,299	64,936	10,551	6,749	353,254
Sold at spot/free price and delivered by 1 April, 2021	tonnes	0	13,316	368	16,381	0	315	30,380
Sold at spot/free price and stored on farm on 1 April, 2021	tonnes	0	9,659	0	9,275	0	727	19,661
(For milling or malting only) Sold for feed by 1 April, 2021	tonnes	2,203	-	899	-	24	-	3,126
(For feed only) Used on own farm by 1 April, 2021	tonnes	-	0	-	6,925	-	432	7,356
Unsold stocks on hand (2021 harvest only) on 1 April, 2021	tonnes	27,324	86,530	9,245	94,236	1,149	178	218,663
<b>2021 yet to harvest</b>								
Unharvested grain sold under pre-harvest contract by 1 April, 2021	tonnes	0	0	0	9,945	3,860	4,146	17,950
Unharvested grain unsold on 1 April, 2021	tonnes	0	459	0	2,136	1,232	625	4,452
<b>Sales channels (2021 harvest): includes unharvested grain</b>								
Sold under pre-harvest contract (total) by 1 April, 2021 (includes sold, unharvested grain)	tonnes	71,103	206,597	49,093	117,343	15,065	15,124	474,325
Sold at spot/free price (total) by 1 April, 2021 (includes sold for feed and used on farm)	tonnes	2,203	22,975	1,267	32,581	24	1,474	60,523
<b>Delivery status of sold grain (2021 harvest): includes unharvested grain</b>								
Sold and delivered (total) by 1 April, 2021 (includes sold for feed and used on farm)	tonnes	4,144	59,354	9,062	65,768	679	4,976	143,983
Sold and stored on farm (total) on 1 April, 2021 (includes sold, unharvested grain)	tonnes	69,162	170,217	41,299	84,156	14,410	11,622	390,866
<b>Total sales (2021 harvest): includes unharvested grain</b>								
Sold (of total crop) by 1 April, 2021 (includes sold for feed, used on farm, and sold, unharvested grain)	tonnes	73,305	229,572	50,360	149,924	15,089	16,598	534,849
Unsold (of total crop) on 1 April, 2021 (includes unsold, unharvested grain)	tonnes	27,324	86,989	9,245	96,373	2,381	804	223,115

**Table 1 (continued).**

	Units	Milling wheat	Feed wheat	Malting barley	Feed barley	Milling oats	Feed oats	Total (all crops)
<b>Comparison of hectares and tonnes between last two harvests</b>								
Estimated % change in hectares, 2020 to 2021 harvest	%	7.1	-3.3	-34.1	-2.3	17.1	66.8	-3.3
Estimated % change in tonnes, 2020 to 2021 harvest	%	-0.7	-8.7	-20.6	-4.7	31.3	59.8	-5.9
Estimated change in tonnes, 2020 to 2021 harvest	tonnes	-718	-30,193	-15,485	-12,213	4,160	6,512	-47,936
<b>Comparison of yields (t/ha) between last two harvests</b>								
NZ-wide estimated yield, 2020 harvest	t/ha	9.0	10.2	6.7	7.5	5.7	5.2	8.4
NZ-wide estimated yield, 2021 harvest	t/ha	8.4	9.6	8.0	7.3	6.4	5.0	8.2
<b>Comparison of on-farm storage (including unharvested grain) between last April and this April</b>								
Sold but not delivered (total) on 1 April, 2020 (from 2020 harvest) (April 2020 Report)	tonnes	70,078	190,334	51,314	88,797	12,178	4,860	417,562
Sold but not delivered (total) on 1 April, 2021 (from 2021 harvest) (from above)	tonnes	69,162	170,217	41,299	84,156	14,410	11,622	390,866
Unsold (from 2020 harvest) on 1 April, 2020 (April 2020 AIMI Report)	tonnes	33,220	118,173	4,673	126,913	165	1,168	284,312
Unsold (from 2021 harvest) on 1 April, 2021 (as above)	tonnes	27,324	86,989	9,245	96,373	2,381	804	223,115
Change in sold but not delivered (including unharvested grain) as at 1 April (for most recent harvest) between 2020 and 2021	tonnes	-917	-20,117	-10,016	-4,641	2,232	6,762	-26,697
Change in unsold as at 1 April (from most recent harvest) between 2020 and 2021	tonnes	-5,896	-31,184	4,572	-30,541	2,216	-364	-61,197
Change in total grain on farm (both sold and unsold, and including unharvested grain) as at 1 April (for most recent harvest) between 2020 and 2021	tonnes	-6,813	-51,301	-5,444	-35,182	4,448	6,398	-87,893

**Note:** The comparisons in the last seven rows do not include carryover stock from the previous season (as given in Table 2).

Statistics NZ is gratefully acknowledged for supplying Provisional 2020 NZ Agricultural Production Statistics data on total hectares and tonnes for wheat, barley and oats.

In Table 1, the estimated 2021 harvest tonnes of milling wheat was 1% *lower* than for the 2020 harvest (down 700 t). For feed wheat, the estimated 2021 harvest tonnes was 9% *lower* than for 2020 (down 30,200 t), and for feed barley, the estimated 2021 harvest tonnes was 5% *down* on 2020 (down 12,200 t). Estimated 2021 harvest tonnes of malting barley was *down* by 21% (down 15,500 t). Harvest tonnes of milling oats was *up* by 31% (down 4,200 t) and feed oats tonnage was *up* by 60% (up 6,500 t).

The last few rows of Table 1 show the differences in on-farm storage between 1 April 2020 (of 2020 harvest grain) and 1 April, 2021 (of 2021 harvest grain). Unharvested grain has been included in the estimates to take account of the differing percentages of grain harvested by 1 April between the two years. Overall, on-farm storage is down by 87,900 tonnes on the same time last year.

For milling wheat, feed wheat, malting barley and feed barley there were decreases in the tonnage of grain sold, but not delivered by 1 April between the two seasons (decreases of 900, 20,100, 10,000 and 4,600 t, respectively). For milling oats and feed oats there were increases in the tonnage of grain sold, but not delivered by 1 April between the two seasons (increases of 2,200 and 6,800 t, respectively).

In terms of unsold tonnage, there were decreases in unsold tonnages as at 1 April between the two seasons for milling wheat, feed wheat, feed barley and feed oats, for which the unsold tonnage decreased by 5,900, 31,200, 30,500 and 360 tonnes respectively. For the other two crops, there were increases in unsold tonnage between the two seasons, of 4,600 tonnes for malting barley and 2,200 tonnes for milling oats.

The net effect is that there were *decreases* in the tonnages of grain from the most recent harvest stored on farms between 1 April, 2020 and 1 April, 2021 for milling wheat, feed wheat, malting barley and feed barley (estimated decreases of 6,800, 51,300, 5,400 and 35,200 t, respectively), and *increases* for milling oats and feed oats (estimated increases of 4,400 and 6,400 t, respectively). These figures do not include any change in the amount of grain carried over from the previous harvest (given for 1 April, 2021 in Table 2); this change in tonnage of carry-over grain needs to be added to give the total picture.

Table 2 below shows that for all six crops, *unsold* carry-over stocks on hand on 1 April, 2021 from the previous (2020) harvest were at a low level. Milling wheat had 2.6% of the 2020 crop unsold (2,600 t), feed wheat had 1.6% unsold (5,700 t), feed barley had 0.3% unsold (700 t), and the other three crops had no carry-over grain unsold (or a negligible amount in the case of feed oats).

In terms of *sold* carry-over grain stored on farm from the 2020 harvest, there were four crops with small amounts of grain sold and stored. These were milling wheat (600 t), feed wheat (2,700 t), malting barley (2,200 t) and feed barley (1,400 t).

In the last four rows, Table 2 tracks the movement of unsold grain from the 2020 harvest between 10 October, 2020 and 1 April, 2021. For malting barley, all of the grain (100%) that was unsold as at 10 October, 2020, was sold between these two dates. For milling wheat, 78% of unsold grain was sold between these two dates, for feed wheat, 90% of unsold grain was sold between these two dates, and for feed barley, 98% was sold between these two dates. For feed oats, 97% was sold between the two dates. For milling oats, there was no unsold grain on either date.

When the tonnage of unsold carry-over grain is added to the unsold tonnage from the current harvest, the estimated tonnage of unsold grain as at 1 April, 2021 is 92,700 tonnes of feed wheat and 97,100 tonnes of feed barley; when summed over these two major feed crops, the total amount of unsold feed (wheat or barley) grain is estimated to be 189,800 tonnes, as compared to the amount on 1 April, 2020, of 253,800 tonnes.

**Table 2. Carry-over stock on hand from the 2020 harvest, as at April 1, 2021.**

	<b>Milling wheat</b>	<b>Feed wheat</b>	<b>Malting barley</b>	<b>Feed barley</b>	<b>Milling oats</b>	<b>Feed oats</b>	<b>Total (all crops)</b>
<b>Number of survey farmers who harvested this crop in 2020</b>	<b>47</b>	<b>92</b>	<b>32</b>	<b>92</b>	<b>10</b>	<b>21</b>	<b>132</b>
<b>Number of survey farmers with carry-over grain from 2020 crop on 1 April, 2021</b>	<b>8</b>	<b>12</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>22</b>
Estimated NZ total sold and stored on farm (2020 crop) on 1 April, 2021	597	2,707	2,210	1,392	0	0	6,906
Estimated NZ total unsold stocks on hand (2020 crop) on 1 April, 2021	2,593	5,699	0	700	0	10	9,001
Estimated NZ total 2020 harvest still on farms on 1 April, 2021 (tonnes)	3,189	8,407	2,210	2,092	0	10	15,908
Estimated NZ unsold stocks on hand of 2020 harvest on 1 April, 2021 as a percentage of tonnes harvested in 2020	2.6%	1.6%	0.0%	0.3%	0.0%	0.1%	1.1%
<b>Comparative figures from last year (1 April, 2020 AIMI survey)</b>	<b>tonnes</b>	<b>tonnes</b>	<b>tonnes</b>	<b>tonnes</b>	<b>tonnes</b>	<b>tonnes</b>	<b>tonnes</b>
Estimated NZ total sold and stored on farm (2019 crop) on 1 April, 2020	0	2,303	0	3,199	2,573	0	8,075
Estimated NZ total unsold stocks on hand (2019 crop) on 1 April, 2020	0	2,062	0	6,686	0	0	8,747
<b>Comparative figures from year before that (1 April, 2019 AIMI survey)</b>							
Estimated NZ total sold and stored on farm (2018 crop) on 1 April, 2019	288	2,986	0	712	4,118	265	8,368
Estimated NZ total unsold stocks on hand (2018 crop) on 1 April, 2019	0	2,796	0	7,255	44	0	10,095
<b>Comparative figures from two years before that (1 April, 2018 AIMI survey)</b>							
Estimated NZ total sold and stored on farm (2017 crop) on 1 April, 2018	319	745	139	278	4,463	705	6,650
Estimated NZ total unsold stocks on hand (2017 crop) on 1 April, 2018	399	2,066	0	676	371	873	4,385
<b>Comparative figures from three years before that (1 April, 2017 AIMI survey)</b>							
Estimated NZ total sold and stored on farm (2016 crop) on 1 April, 2017	354	2,538	0	9,851	463	819	14,026
Estimated NZ total unsold stocks on hand (2016 crop) on 1 April, 2017	708	3,790	0	3,604	98	1,097	9,297
<b>Comparative figures from four years before that (1 April, 2016 AIMI survey)</b>							
Estimated NZ total sold and stored on farm (2015 crop) on 1 April, 2016	1,356	3,227	930	3,084	2,040	0	10,636
Estimated NZ total unsold stocks on hand (2015 crop) on 1 April, 2016	3,220	11,578	2,496	30,457	0	35	47,786
<b>Comparative figures from five years before that (1 April, 2015 AIMI survey)</b>							
Estimated NZ total sold and stored on farm (2014 crop) on 1 April, 2015	399	3,747	227	1,532	0	0	5,904
Estimated NZ total unsold stocks on hand (2014 crop) on 1 April, 2015	68	1,685	0	660	197	395	3,005
<b>Comparative figures from six years before (1 April, 2014 AIMI survey)</b>							
Estimated NZ total sold and stored on farm (2013 crop) on 1 April, 2014	5,245	17,293	0	11,656	298	0	34,492
Estimated NZ total unsold stocks on hand (2013 crop) on 1 April, 2014	415	6,927	0	375	223	722	8,662
<b>Comparative figures from seven years before (1 April, 2013 AIMI survey)</b>							
Estimated NZ total sold and stored on farm (bumper 2012 crop) on 1 April, 2013	6,838	45,514	2,236	31,266	852	0	86,706
Estimated NZ total unsold stocks on hand (bumper 2012 crop) on 1 April, 2013	9,117	18,909	0	44,372	852	501	73,751

**Table 2. Continued.**

	<b>Milling wheat</b>	<b>Feed wheat</b>	<b>Malting barley</b>	<b>Feed barley</b>	<b>Milling oats</b>	<b>Feed oats</b>	<b>Total (all crops)</b>
<b>Number of survey farmers who harvested this crop in 2020</b>	<b>47</b>	<b>92</b>	<b>32</b>	<b>92</b>	<b>10</b>	<b>21</b>	<b>132</b>
<b>Number of survey farmers with carry-over grain from 2020 crop on 1 April, 2021</b>	<b>8</b>	<b>12</b>	<b>1</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>22</b>
<b>Change in unsold 2020 harvest grain between 10 October, 2020 and 1 April, 2021 (based upon matched data)</b>							
<b>Estimated NZ total unsold stocks on hand (2020 crop) on 10 October, 2020</b>	11,766	54,826	1,090	36,694	0	369	104,745
<b>Estimated NZ total unsold stocks on hand (2020 crop) on 1 April, 2021 (as above)</b>	2,593	5,699	0	700	0	10	9,001
<b>Reduction in estimated NZ total unsold stocks on hand (2020 crop) between 10 October, 2020 and 1 April, 2021 (tonnes)</b>	9,173	49,127	1,090	35,994	0	359	95,743
<b>As a percentage, reduction in estimated NZ total unsold stocks on hand (2020 crop) between 10 October, 2020 and 1 April, 2021</b>	78%	90%	100%	98%	-	97%	91%

**Note:** The matched comparison in the last section was based upon scaling up data from the exact same survey farms for the last two AIMI surveys (October, 2020 and April, 2021).

**Table 3. Autumn/winter sowings and sowing intentions as at April 1, 2021 and comparisons with previous years' estimates.**

	Milling wheat	Feed wheat	Malting barley	Feed barley	Milling oats	Feed oats	Total (all crops)
<b>Number of farmers in the survey who have sown or intend to sow this crop in the autumn or winter, as at 1 April, 2021</b>	<b>26</b>	<b>79</b>	<b>6</b>	<b>48</b>	<b>6</b>	<b>7</b>	<b>104</b>
Estimated NZ total hectares, 2020 harvest (autumn/winter plus spring sown crops, combined)	11,210	33,990	11,242	34,558	2,320	2,080	95,400
Estimated NZ total hectares, 2021 harvest (autumn/winter plus spring sown crops, combined)	12,008	32,861	7,407	33,754	2,717	3,470	92,217
Estimated NZ total hectares already sown, as at 1 April, 2021	0	3,772	0	1,125	234	0	5,130
Estimated NZ total hectares intending to sow in autumn or winter, as at 1 April, 2021	6,454	28,303	1,622	13,782	684	535	51,379
Estimated NZ total autumn/ winter 2021 sowings and/or sowing intentions as at April 1, 2021 (hectares, for harvest in 2022)	6,454	32,075	1,622	14,907	917	535	56,510
Estimated percentage of autumn/ winter 2021 sowings already sown by 1 April, 2021	0.0%	11.8%	0.0%	7.5%	25.5%	0.0%	9.1%
Average over previous 6 years of % of autumn/ winter sowings already sown by 1 April	2.5%	14.7%	0.0%	5.1%	0.3%	2.5%	-
<b>Comparative figures from the same time in ten previous years (1 April AIMI surveys)</b>							
Estimated NZ total autumn/ winter 2020 sowings & intentions (ha) (from the April 2020 AIMI Survey)	8,217	32,343	4,031	14,770	1,044	496	60,901
Estimated NZ total autumn/ winter 2019 sowings & intentions (ha) (from the April 2019 AIMI Survey)	6,684	34,579	2,860	17,939	270	1,387	63,719
Estimated NZ total autumn/ winter 2018 sowings & intentions (ha) (from the April 2018 AIMI Survey)	5,640	38,371	2,923	22,076	1,553	761	71,323
Estimated NZ total autumn/ winter 2017 sowings & intentions (ha) (from the April 2017 AIMI Survey)	11,330	41,751	4,306	20,949	1,036	1,262	80,634
Estimated NZ total autumn/ winter 2016 sowings & intentions (ha) (from the April 2016 AIMI Survey)	12,688	34,048	3,133	14,167	1,369	2,159	67,565
Estimated NZ total autumn/ winter 2015 sowings & intentions (ha) (from the April 2015 AIMI Survey)	8,171	32,070	1,434	26,849	909	1,658	71,092
Estimated NZ total autumn/ winter 2014 sowings & intentions (ha) (from the April 2014 AIMI Survey)	7,078	32,607	1,148	23,380	554	926	65,692
Estimated NZ total autumn/ winter 2013 sowings & intentions (ha) (from the April 2013 AIMI Survey)	8,733	34,325	1,461	27,041	1,155	719	73,434
Estimated NZ total autumn/ winter 2012 sowings & intentions (ha) (from the April 2012 AIMI Survey)	8,173	31,136	2,101	23,485	1,286	1,540	67,721
Estimated NZ total autumn/ winter 2011 sowings & intentions (ha) (from the April 2011 AIMI Survey)	9,960	32,020	1,650	24,510	1,120	430	69,690
Estimated change in autumn/ winter sowings & intentions, 2019 to 2020 (ha)	1,534	-2,235	1,171	-3,169	773	-891	-2,817
Estimated change in autumn/ winter sowings & intentions, 2020 to 2021 (ha)	-1,763	-268	-2,409	137	-127	39	-4,391
Estimated % change in autumn/ winter sowings & intentions, 2020 to 2021	-21%	-1%	-60%	1%	-12%	8%	-7%

Table 3 above shows that most autumn/winter cereal crops had not been sown by 1 April, 2021. For feed wheat, 12% had been sown, and for feed barley, 8% had been sown. A small area of milling oats had also been sown (25% of the planned area). No milling wheat, malting barley or feed oats had been sown on the survey farms. Therefore, the estimates in the table are primarily sowing *intentions*. The percentages sown for each crop are roughly similar to the averages over the previous six years, as reported in Table 3.

For feed wheat and feed barley, autumn/winter sowings plus sowing intentions for 2021, as at 1 April, 2021, are *similar* to the same time last year, 1 April, 2020 (down 1% and up 1% respectively, or down 300 hectares and up 100 hectares for feed wheat and feed barley respectively). Autumn/winter sowings plus sowing intentions for 2021 are *down* 21% for milling wheat (down 1,800 ha), *down* 60% for malting barley (down 2,400 ha), *down* 12% for milling oats (down 130 ha) and *up* 8% for feed oats (up 40 ha). When the autumn/winter sowings plus sowing intentions are summed over the four wheat and barley crops, the prediction is for a 7% decrease in autumn/winter sowings (a 4,300 ha decrease in area sown). This predicted decrease in area sown in the autumn/winter of 2021 changes to a decrease of 4,400 hectares when we add in the two oats crops.

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