



NEW AGRICULTURAL MACHINERY STATISTICS

**QUARTERLY BULLETIN No. 39
DECEMBER QUARTER 1970**



**COMMONWEALTH BUREAU OF CENSUS AND STATISTICS
CANBERRA, AUSTRALIA**

Reference No. 12.1

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, AUSTRALIA

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DECEMBER QUARTER 1970

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SYMBOLS USED IN THIS BULLETIN

n.a. - Not available

.. - Nil, or not applicable

r - Figure or series revised since previous issue

Reference No. 12.1

EXPLANATORY NOTES

(i) Introduction. The tables in this bulletin show statistics of receipts, deliveries and stocks of certain types of imported and Australian-made new agricultural machinery.

(ii) Source of the statistics. These statistics have been derived from returns collected from "principals" marketing new agricultural machinery. These "principals" are those businesses in Australia which, with respect to the items of new agricultural machinery specified in the returns, (a) market under their own name or trade name(s) or, (b) import into Australia and market under the name or trade name(s) of businesses overseas. "Principals" complete separate returns for each State or arrange for their completion by State distributors.

(iii) Receipts represent implements and machines received by the principals or by their distributors direct from Australian manufacturers or from overseas. The figures, which exclude exports, relate only to machinery and implements for marketing within Australia. A minus figure indicates that exports exceeded Australian made and imported receipts.

(iv) Deliveries represent implements and machines sent to agents or dealers by the principals, or by the State distributors. Transfers of machinery or implements from principals to their State distributors are not recorded as deliveries. In addition the transfer of machinery or implements by distributors direct to dealers or agents in other States is not regarded as a delivery until a sale to the end-user is made. Direct sales to end-users by principals or distributors are similarly regarded as deliveries.

(v) Stocks represent implements and machines held by the principals and their State distributors at the end of the period indicated. Stocks held by agents and dealers are excluded. Stocks in transit within Australia are included in the stocks of the State for which they are intended.

(vi) Comments on specific items

(a) Components which have not yet been assembled into complete machines are excluded from these statistics.

(b) Horse-drawn equipment and other equipment not requiring power units are excluded.

(c) Tractor-mounting type includes semi-mounting type.

(d) Disc-ploughs - Includes disc cultivating ploughs and disc tillers (one-way discers). Also includes disc implements capable of being used for both ploughing and harrowing.

(e) Chisel ploughs - Includes implements of the type which usually have narrow pointed tines placed well apart (12" or more) and which can usually penetrate to a depth of 8" or more.

(f) Tine harrows - Includes driven tine, diamond and stump jump harrows. Excludes drill and following harrows.

(g) Other harrows (other than tine or disc) - Includes full chain harrows and combinations of tines, chains, etc. Excludes drill and following harrows.

(h) Disc harrows - Excludes disc implements capable of being used for both ploughing and harrowing.

(i) Tine cultivators and scarifiers - Includes implements of the type which have wide pointed tines spaced closely together (6" to 8") to give complete coverage of the ground and, which are usually designed to work to depths of 3" to 5". Tractor-mounting type includes mid-mounted (row crop).

(j) Rotary cultivators - Includes self-contained power units (3 brake horse-power and over) and tractor-mounting and trailing types.

(k) Drills and cultivating drills - Includes sod seeders and combines, but excludes row crop planters.

(l) Fertiliser spreaders - Includes tractor-mounting and trailing types but excludes truck-mounted spreaders.

(m) Headers (combine harvesters) Drawn - Includes both engine-functioned and power take-off types.

(n) Agricultural mowers (rotary) - Excludes cylinder reel types.

(o) Windrowers (with or without hay conditioners and crimpers) - Excludes drawn windrowers.

(p) Pick-up bale loaders for baled hay - Excludes combination stacker - loaders.

(q) Bale elevators and stackers - Includes combination stacker-loaders.

(r) Hammer mills (farm type) - Includes roughage mills, but excludes grinder mixers.

RELATED PUBLICATIONS

Additional statistics on agricultural machinery available from this bureau are as follows:

(i) Principal types of farm machinery on rural holdings (annually)

(ii) Production and assembly within Australia of various types of agricultural machinery (annually)

(iii) Imports, and exports, classified according to type and country of origin and destination (annually)

Statistics of sales of new tractors are issued quarterly in a separate bulletin.

TABLE 1. - SUMMARY : RECEIPTS OF CERTAIN TYPES OF NEW AGRICULTURAL MACHINERY

Type of implement or machine (b)	Year ended -		Quarter ended -				
	June 1969	June 1970	Dec. 1969	March 1970	June 1970	Sept. 1970	Dec. 1970
AUSTRALIA							
(Number)							
A-TILLAGE IMPLEMENTS -							
Disc ploughs - Tractor-mounting type	774	698	290	282	93	r156	387
- Trailing type	3,369	1,383	266	421	260	r110	76
Agricultural rippers (sub-soilers)	1,344	1,604	346	248	492	241	406
Chisel ploughs - Tractor-mounting type	822	597	177	144	106	112	157
- Trailing type	78	(a)	(a)	(a)	(a)	(a)	(a)
Mouldboard ploughs	596	611	133	55	153	184	119
Tine harrows (No. of leaves or sections)	50,658	34,229	10,934	14,719	6,478	1,181	1,276
Disc harrows - Tractor-mounting type	805	1,443	338	214	253	451	552
- Trailing type	1,928	1,568	353	392	375	180	334
Other harrows	1,158	1,052	154	168	406	475	214
Tine cultivators and scarifiers -							
Tractor-mounting type	2,476	2,601	699	340	882	r499	486
Trailing type	4,339	1,569	390	406	296	r47	46
Rotary cultivators	4,125	3,016	635	672	925	793	677
B-SEEDING AND FERTILISING MACHINERY -							
Drills and cultivating drills - Tine	3,774	2,172	659	825	458	128	96
- Disc	1,237	737	174	210	206	-96	80
Fertiliser spreaders - Direct drop	569	564	145	56	90	212	123
- Other than direct drop	3,023	2,508	640	497	665	476	503
C-HARVESTING, HAYMAKING AND SILAGE MAKING MACHINERY -							
Pick-up balers	2,213	1,908	424	328	379	448	134
Headers (combine harvesters) -							
Self-propelled	1,833	1,168	206	58	184	51	112
Drawn	2,142	718	315	13	154	75	52
Corn (maize) header attachments	51	45	(a)	(a)	(a)	(a)	(a)
Pick-up front attachments	(a)	27	..	(a)	(a)	(a)	(a)
Forage harvesters	277	465	162	78	50	71	79
Agricultural mowers (4ft cut and over) -							
Reciprocating knife	2,920	1,638	353	50	694	r1,294	56
Rotary mowers, slashers, toppers	3,860	4,411	1,315	954	1,121	r863	1,290
Flail mowers and toppers	84	78	(a)	(a)	(a)	25	12
Hay rakes (side delivery) -							
Reel type - Tractor-mounting type	986	825	197	76	298	473	93
- Trailing type	860	637	89	133	149	(a)	60
Fingerwheel type	573	493	(a)	..	..	(a)	(a)
Windrowers - Self-propelled	(a)	(a)	11	(a)	(a)	..	5
Hay conditioners and crimpers	160	344	112	(a)	(a)	59	140
Pick-up bale loaders for baled hay	(a)	1,570	675	127	84	120	241
Bale elevators and stackers	1,330	1,082	466	116	289	r132	279
Grain augers	5,090	4,685	2,037	638	681	r443	295
Cane harvesters	256	297	(a)	24	(a)	(a)	24
Cotton harvesters (pickers and strippers)	(a)	(a)	..	(a)	(a)	..	..
D-OTHER AGRICULTURAL MACHINERY -							
Post-hole diggers (auger type)	1,959	2,016	291	494	586	261	265
Hammer mills (farm type)	1,037	876	235	124	288	283	120

(a) Not available for publication. (b) See Explanatory Notes, pages 2 and 3 for comments on specific items. (c) See Explanatory Note (iii), page 2.

TABLE 2. - SUMMARY : DELIVERIES OF CERTAIN TYPES OF NEW AGRICULTURAL MACHINERY :

Type of implement or machine (b)	Year ended -		Quarter ended				
	June 1969	June 1970	Dec. 1969	March 1970	June 1970	Sept. 1970	Dec. 1970
AUSTRALIA							
(Number)							
TILLAGE IMPLEMENTS							
Disc ploughs - Tractor-mounting type	1,188	938	222	225	238	r185	178
- Trailing type	3,610	1,231	313	402	185	r87	206
Agricultural rippers (sub-soilers)	1,505	1,431	310	270	348	353	268
Chisel ploughs - Tractor-mounting type	769	625	124	204	137	131	109
- Trailing type	54	51	(a)	(a)	5	6	(a)
Mouldboard ploughs	771	694	189	r82	162	213	164
Tine harrows (No. of leaves or sections)	49,961	22,541	4,066	10,095	5,785	1,579	1,830
Disc harrows - Tractor-mounting type	1,663	1,690	423	406	405	334	295
- Trailing type	1,647	1,807	454	512	407	264	362
Other harrows	1,113	1,113	140	196	428	429	181
Tine cultivators and scarifiers -							
Tractor-mounting type	3,428	2,804	795	604	556	685	886
Trailing type	3,927	1,250	304	454	219	46	148
Rotary cultivators	4,038	3,578	845	755	722	1,019	710
SEEDING AND FERTILISING MACHINERY -							
Drills and cultivating drills - Tine	3,849	1,552	350	607	403	136	177
- Disc	1,242	645	163	236	146	48	81
Fertiliser spreaders - Direct drop	580	600	202	32	106	223	141
- Other than direct drop	3,241	2,907	619	942	617	r571	534
HARVESTING, HAYMAKING AND SILAGE MAKING MACHINERY -							
Pick-up balers	2,345	1,828	462	463	246	227	371
Headers (combine harvesters) -							
Self-propelled	2,028	812	294	66	52	59	202
Drawn	1,964	675	298	56	47	51	189
Corn (maize) header attachments	58	48	(a)	16	(a)	(a)	(a)
Pick-up front attachments	39	(a)	(a)	(a)	(a)	(a)	12
Forage harvesters	382	490	169	95	32	75	99
Agricultural mowers (4 ft cut and over) -							
Reciprocating knife	3,267	2,221	766	254	210	r480	895
Rotary mowers, slashers, toppers	3,666	4,972	1,644	1,438	894	r823	1,410
Flail mowers and toppers	158	142	(a)	(a)	(a)	18	17
Hay rakes (side delivery) -							
Reel type - Tractor-mounting type	1,050	877	305	155	90	230	345
- Trailing type	941	643	180	203	54	(a)	105
Fingerwheel type	753	681	343	77	42	144	322
Windrowers - Self-propelled	(a)	(a)	30	(a)	(a)	3	30
Hay conditioners and crimpers	195	423	210	(a)	(a)	27	80
Pick-up bale loaders for baled hay	(a)	1,448	652	159	59	r344	516
Bale elevators and stackers	1,388	922	498	110	184	r132	401
Grain augers	4,920	5,459	2,878	710	884	483	535
Cane harvesters	242	315	(a)	28	(a)	44	25
Cotton harvesters (pickers and strippers)	(a)	(a)	..	(a)	(a)	(a)	..
OTHER AGRICULTURAL MACHINERY -							
Post-hole diggers (auger type)	2,173	1,924	349	439	505	358	265
Hammer mills (farm type)	1,010	1,066	233	239	288	263	150

(a) Not available for publication. (b) See Explanatory Notes on pages 2 and 3 for comments on specific items.

TABLE 3. - SUMMARY : STOCKS OF CERTAIN TYPES OF NEW AGRICULTURAL MACHINERY : AUSTRALIA

(Number)

Type of implement or machine (b)	Year ended -		Quarter ended -				
	June 1969	June 1970	Dec. 1969	March 1970	June 1970	Sept. 1970	Dec. 1970
A-TILLAGE IMPLEMENTS							
Disc ploughs - Tractor-mounting type	936	696	784	841	696	r667	876
- Trailing type	992	1,145	1,050	1,069	1,145	r1,168	1,038
Agricultural rippers (sub-soilers)	242	415	293	271	415	303	441
Chisel ploughs - Tractor-mounting type	263	235	326	266	235	216	264
- Trailing type	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Mouldboard ploughs	533	450	486	459	450	421	376
Tine harrows (No. of leaves or sections)	8,611	20,299	14,982	19,606	20,299	19,901	19,347
Disc harrows - Tractor-mounting type	804	557	901	709	557	656	913
- Trailing type	1,106	867	1,019	899	867	783	755
Other harrows	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Tine cultivators and scarifiers -							
- Tractor-mounting type	2,226	2,023	1,961	1,697	2,023	r1,837	1,437
- Trailing type	1,435	1,754	1,725	1,677	1,754	r1,755	1,653
Rotary cultivators	2,173	1,611	1,491	1,408	1,611	1,385	1,352
B-SEEDING AND FERTILISING MACHINERY -							
Drills and cultivating drills - Tine	581	1,201	928	1,146	1,201	1,193	1,112
- Disc	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Fertiliser spreaders - Direct drop	149	113	105	129	113	102	84
- Other than direct drop	1,335	936	1,333	888	936	r841	816
C-HARVESTING, HAYMAKING AND SILAGE MAKING MACHINERY -							
Pick-up balers	680	760	762	627	760	981	744
Headers (combine harvesters) -							
Self propelled	549	905	781	773	905	897	807
Drawn	593	636	572	529	636	660	523
Corn (maize) header attachments	50	47	46	(a)	47	32	32
Pick-up front attachments	(a)	35	40	30	35	34	(a)
Forage harvesters	159	134	133	116	134	130	110
Agricultural mowers (4 ft cut and over) -							
Reciprocating knife	1,912	1,329	1,049	845	1,329	r2,143	1,304
Rotary, mowers, slashers, toppers	2,102	1,601	1,858	1,374	1,601	r1,641	1,521
Flail mowers and toppers	79	15	33	(a)	15	22	17
Hay rakes (side delivery) -							
Reel type - Tractor-mounting type	447	395	266	187	395	638	386
- Trailing type	363	357	332	262	357	303	258
Fingerwheel type	548	360	479	402	360	(a)	177
Windrowers - Self-propelled	66	88	67	66	88	65	60
Hay conditioners and crimpers	275	196	211	159	196	228	288
Pick-up bale loaders for baled hay	151	273	280	248	273	r449	174
Bale elevators and stackers	214	374	263	269	374	r371	249
Grain augers	1,400	626	901	829	626	r566	346
Cane harvesters	31	13	(a)	(a)	13	(a)	(a)
Cotton harvesters (pickers and strippers)	15	11	(a)	15	11	(a)	(a)
D-OTHER AGRICULTURAL MACHINERY -							
Post-hole diggers (auger type)	338	430	294	349	430	333	333
Hammer mills (farm type)	369	179	294	179	179	199	169

(a) Not available for publication. (b) See Explanatory Notes on pages 2 and 3 for comments on specific items.

TABLE 4. - SUMMARY : DELIVERIES OF CERTAIN TYPES OF NEW AGRICULTURAL MACHINERY : STATES

QUARTER ENDED 31 DECEMBER 1970

(Number)

Type of implement or machine (b)	N.S.W. and A.C.T.	Vic.	Qld	S.A. and N.T.	W.A.	Tas.	Aust.
A-TILLAGE IMPLEMENTS							
Disc ploughs - Tractor-mounting type	27	42	91	(a)	(a)	(a)	178
- Trailing type	69	30	68	15	13	11	206
Agricultural rippers (sub-soilers)	64	44	115	26	12	7	268
Chisel ploughs - Tractor-mounting type	35	23	41	(a)	(a)	..	109
- Trailing type	..	..	(a)	(a)	..	..	(a)
Mouldboard ploughs	38	61	43	(a)	..	(a)	164
Tine harrows (No. of leaves or sections)	415	484	626	161	14	130	1,830
Disc harrows - Tractor-mounting type	85	80	67	33	26	4	295
- Trailing type	93	88	129	(a)	(a)	29	362
Other harrows	77	(a)	21	(a)	(a)	(a)	181
Tine cultivators and scarifiers -							
Tractor-mounting type	196	165	412	74	(a)	(a)	886
Trailing type	35	(a)	50	43	(a)	(a)	148
Rotary cultivators	182	225	136	92	(a)	(a)	710
B-SEEDING AND FERTILISING MACHINERY -							
Drills and cultivating drills - Tine	27	15	112	5	(a)	(a)	177
- Disc	25	(a)	25	(a)	(a)	(a)	81
Fertiliser spreaders - Direct drop	(a)	(a)	126	(a)	..	..	141
- Other than direct drop	186	148	152	18	27	3	534
C-HARVESTING, HAYMAKING AND SILAGE MAKING MACHINERY -							
Pick-up balers	124	101	60	28	46	12	371
Headers (combine harvesters) -							
Self-propelled	39	32	15	37	75	4	202
Drawn	(a)	58	(a)	43	58	..	189
Corn (maize) header attachments	(a)	..	(a)	..	(a)	..	(a)
Pick-up front attachments	(a)	(a)	(a)	..	(a)	..	12
Forage harvesters	53	16	20	(a)	(a)	(a)	99
Agricultural mowers (4 ft cut and over) -							
Reciprocating knife	165	453	77	49	59	92	895
Rotary mowers, slashers, toppers	418	481	298	93	69	51	1,410
Flail mowers and toppers	(a)	(a)	..	(a)	(a)	..	17
Hay rakes (side delivery) -							
Reel type - Tractor-mounting type	100	79	98	24	30	14	345
- Trailing type	47	21	(a)	10	(a)	(a)	105
Fingerwheel type	70	146	20	(a)	48	(a)	322
Windrowers - Self-propelled	(a)	22	(a)	(a)	..	..	30
Hay conditioners and crimpers	30	10	30	..	(a)	(a)	80
Pick-up bale loaders for baled hay	165	182	88	19	56	6	516
Bale elevators and stackers	107	159	40	29	42	24	401
Grain augers	129	177	(a)	(a)	111	..	535
Cane harvesters	(a)	..	(a)	..	..	..	25
Cotton harvesters (pickers and strippers)	..	..	..	..	..	..	..
D-OTHER AGRICULTURAL MACHINERY -							
Post-hole diggers (auger type)	94	53	83	18	(a)	(a)	265
Hammer mills (farm type)	41	45	25	6	(a)	(a)	150

(a) Not available for publication. (b) See Explanatory Notes on pages 2 and 3 for comments on specific items.

TABLE 5. - SUMMARY : STOCKS OF CERTAIN TYPES OF NEW AGRICULTURAL MACHINERY : STATES
 QUARTER ENDED 31 DECEMBER 1970

Type of implement or machine (b)	(Number)						
	N.S.W. and A.C.T.	Vic.	Qld	S.A. and N.T.	W.A.	Tas.	Aust.
A-TILLAGE IMPLEMENTS -							
Disc ploughs - Tractor-mounting type	19	635	135	73	10	4	876
- Trailing type	110	279	207	258	(a)	(a)	1,038
Agricultural rippers (sub-soilers)	13	212	125	45	43	3	441
Chisel ploughs - Tractor-mounting type	84	78	69	17	(a)	(a)	264
- Trailing type	(a)	..	..	..	(a)	..	(a)
Mouldboard ploughs	14	290	42	(a)	(a)	8	376
Tine harrows (No. of leaves or sections)	252	3,414	1,166	12,904	(a)	(a)	19,347
Disc harrows - Tractor-mounting type	35	477	186	120	81	14	912
- Trailing type	126	391	172	24	30	12	755
Other harrows	(a)	(a)	(a)	(a)	(a)	..	(a)
Tine cultivators and scarifiers -							
Tractor-mounting type	116	715	379	135	75	17	1,437
Trailing type	192	786	251	215	209	..	1,653
Rotary cultivators	(a)	437	167	72	67	(a)	1,352
B-SEEDING AND FERTILIZING MACHINERY -							
Drills and cultivating drills - Tine	147	308	177	388	85	7	1,112
- Disc	(a)	21	21	29	(a)	(a)	(a)
Fertiliser spreaders - Direct drop	(a)	9	44	(a)	(a)	..	84
Other than direct drop	159	465	84	61	43	4	816
C-HARVESTING, HAYMAKING AND SILAGE MAKING MACHINERY -							
Pick-up balers	116	419	70	52	56	31	744
Headers (combine harvesters) -							
Self-propelled	263	219	142	83	(a)	(a)	807
Drawn	(a)	250	(a)	162	(a)	..	523
Corn (maize) header attachments	(a)	..	(a)	..	..	..	32
Pick-up front attachments	17	(a)	(a)	..	..	(a)	(a)
Forage harvesters	21	68	12	(a)	(a)	..	110
Agricultural mowers (4 ft cut and over)-							
Reciprocating knife	69	933	71	102	(a)	(a)	1,304
Rotary mowers, slashers, toppers	363	430	386	109	197	36	1,521
Flail mowers and toppers	(a)	(a)	..	..	(a)	..	17
Hay rakes (side delivery) -							
Reel type - Tractor-mounting type	(a)	296	50	16	10	(a)	386
- Trailing type	37	159	22	21	(a)	(a)	258
Fingerwheel type	(a)	91	(a)	(a)	(a)	..	177
Windrowers - Self-propelled	13	35	(a)	(a)	(a)	..	60
Hay conditioners and crimpers	51	216	8	(a)	(a)	..	288
Pick-up bale loaders for baled hay	45	68	17	30	14	..	174
Bale elevators and stackers	21	211	(a)	(a)	(a)	(a)	249
Grain augers	80	127	75	(a)	(a)	..	346
Cane harvesters	..	..	(a)	..	..	..	(a)
Cotton harvesters (pickers and strippers)	(a)	..	(a)	..	(a)	..	(a)
D-OTHER AGRICULTURAL MACHINERY -							
Post-hole diggers (auger type)	28	163	73	(a)	30	(a)	333
Hammer mills (farm type)	27	73	29	34	6	..	169

For footnotes, see previous page.

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS
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 22 APRIL 1971

J.P. O'NEILL
 ACTING COMMONWEALTH STATISTICIAN

NOTE. Inquiries concerning these statistics may be made in Canberra by telephoning 490211 extension 331 or, in each State capital, by telephoning the office of the Bureau of Census and Statistics.