

ADAS Occasional Notes on Mechanisation			
Number	Title	Date	Held at IAgRE
1	Combine Harvesters	1948	
2	Grass driers	1948	
3	Potato Planters	1949	
4	Balers	1951	
5	Horticultural Tractors (up to and including 10 hp)	1948	
6	Farm Grain driers	1951	
7	Lifters,Elevators and Loaders for Sacks, Bales,Sugar Beet and Farmyard manures	1948	1
8	Fertiliser Distributors	1949	
9	Fuels and Furnaces for crop drying	1949	
10	Green Crop loaders	1950	
11	Pumps and distributors for Liquid manure, revised	1954	
12	Pre Cast Concrete Silos	1950	
13	Field Spraying machines	1950	
14	Farm-Yard manure spreaders	1950	
15	Farm-Yard manure Loaders	1950	1
16	Mowers	1950	
17	Drills	1950	
18	Foord Preparing Machinery	1951	
19	Ventilated Silos	1951	1
20	Farm Grain cleaning Machinery	1951	1
21	Hedge Cutting Machines	1952	
22	Vapouring oil conversion of petrol engines	1952	
23	Fuel and Power in grain drying plants	1954	1
24	Methods of using a pick up baler for silage making	1955	
25	Calculation of heat losses from buildings	1956	1
26	Rate of work, potential annual usage and life of machinery	1956	
27	Glasshouse heating - Degree Day Charts	1956	1
28	Glasshouse heating installations I Equipment suppliers	1956	1
29	Estimation of heat losses from Glasshouses	1956	1
30	Prices of boilers used on nurseries - April 1957	1957	1

31	Comparative costs of fuels for glasshouse heating	1958	1
32	A guide to the layout of heating pipes in glasshouses	1958	1
33	Tunnel drying of baled hay	1958	1
34	Glasshouse heating and soil sterilization	1958	1
35	Automatic control	1959	
36	Combine harvester data	1959	
37	Angle of inclination of tray driers	1959	1
38	Simple oil fired heat exchanger	1960	
39	Resistance to airflow of grain and seeds	1960	1
40	Glasshouse watering and liquid feeding equipment	1960	
41	Irrigation equipment	1960	
42	Matching tractors and forage harvesters	1960	
43	Silage Making - Costs and Addendum	1960	
44	Calculated operating costs of a typical low volume crop sprayer	1960	
45	Use of tractor cage wheels and cage wheel extensions	1960	
46	Glass and plastic cladding for greenhouses, frames and cloches	1960	1
47	Refrigeration Equipment	1960	1
47a	Refrigeration Equipment - Section II, Design data and calculations	1960	1
47b	Refrigeration Control	1973	1
48	List of British Manufacturers of equipment for applying chemical sprays and dusts	1960	
49	Calculated costs of potato planting systems	1960	
50	Hydrocooling	1960	1
51	A survey of warm air heating systems in glasshouses and a bulb store	1960	1
52	Harvesting maize for silage-some mechanization aspects	1960	
53	Bale handling	1961	
54	Haymaking machinery - tedders, crimpers and roller crushers	1961	
55	Forage harvesters	1961	
56	Thinners and gappers	1961	
57	The performance of tray driers	1961	
58	Some methods of moving grain from bulk stores	1961	1
59	Dust control in grain stores and farm food preparation plants	1962	1
60	Drying of wheat in beds 1 and 2 ft deep	1962	1

61	Guide to diesel tractor prices	1962	
62	Handling Slurry	1962	1
63	Mobile cattle weighers	1962	
64	Drying grain on the floor	1962	
65	Guide to contracting charges	1963	
66	Drying hay by suction of air into a central duct	1963	
67	NIAE automatic ventilation system for glasshouse blocks	1963	1
68	Gas tight high moisture grain stores	1963	1
69	Carbon dioxide enrichment of glasshouse atmosphere	1963	1
70	Storage of high moisture grain in polythene or other plastics	1963	
71	Handling manure in liquid and semi liquid form	1964	1
72	Conversion of Lister multi level elevator to chain and flight conveyor elevator	1963	
73	grain drying on the floor, design of laterals	1963	1
74	Plain corn drills with narrow coulter spacing	1964	1
75	Ventilation of commercial glasshouses	1964	1
76	Steam to air heat exchangers	1964	1
77	Capital costs of Grain drying and storage installations	1964	
78	A simple tubular aspirated screen	1964	1
79	Resistance to airflow of seeds	1964	1
80	Measurement of CO <sub>2</sub> concentration in glasshouse atmospheres	1964	1
81	Pressure losses in grain ventilated by floor-ducts	1964	1
82	Grain drying temperatures	1964	1
83	An investigation into steaming of glasshouse border soil from surface downwards	1964	1
84	Grain sampling spears	1964	1
85	Cooling grain to maintain its condition	1964	
86	Control of storage conditions for crisping potatoes	1965	1
87	Orchard equipment	1965	1
88	Ventilating ducts for drying grain on the floor	1965	1
89	Barn hay drying equipment	1965	
90	Converting an IC engine to a vacuum pump	1965	1
91	Low temperature corrosion of boilers	1965	1
92	Storage and processing of barley	1965	

93	The design of bulb stores	1965	1
94	Equipment and methods for making vauum silage	1965	1
95	Flame weeding	1965	1
96	Pea harvesting equipment	1966	1
97	Grain chilling	1966	1
98	Rape seed	1966	1
99	Steam air mixtures for sterilizing border soil	1966	1
100	Investigation of the performance of some silo top unloaders	1966	1
101	Harvesting of oil seed rape - and supplement - drying OSR	1967	1
102	Practical methods of determining moisture content of seeds and fodder	1967	1
103	Pettit hydraulic trailer braking	1967	1
104	Central duct grain drying	1967	1
105	The theory and application of semi-conductor devices to replace switches and relays	1967	1
106	Drying of field beans	1967	1
107	Central duct grain drying - Blackburn developments	1967	1
108	Harvesting and drying of field peas	1967	
109	'Hay Savor' and 'Hay Guard'	1967	1
110	Harvesting grass seeds	1967	1
111	A guide to the estimation of cost of steam sterilizing soil by various methods	1967	
112	A limited study of routines for filling tower silos	1967	1
113	Grass drying	1967	
114	Labour and machine usage in grass drying	1967	1
115	Farm milling and mixing	1967	1
116	Granular insecticide and herbicide applying machinery	1967	
117	Work of the Alpha-Accord Air drill	1967	1
118	Volume and weight loss of potatoes stored in pallet boxes	1967	1
119	Storage of potatoes for processing: temps and humidities in a pallet box store 66-67	1968	1
120	Survey of factors affecting visual wastage in bunker silos	1968	1
121	Handling of fruit in NIAE well based bins	1968	1
122	Control of aerial environment in glasshouses	1968	1
123	Narrow spacing drills	1968	1
124	Oil seed rape survey	1967	

125	Central duct grain drying	1968	1
126	Combine harvesters - cleaning out procedure	1968	1
127	Transparent rigid plastics for use in Greenhouse construction	1968	1
128	Lorry operating costs	1968	1
129	Tube-O-Matic Pneumatic meal conveyor	1968	1
130	A farm trial of a low cost system of temperature controlled storage of ware potatoes	1968	1
131	Cold storage of grass	1968	1
132	Note on work of the NIAE buildings department	1968	1
133	Spreading of prilled 'granular' fertiliser	1968	1
134	Fertiliser Distributors	1968	1
135	An investigation into the conditioning of hay with Chilled air - Preliminary rep.Aug 68	1968	1
136	A method of finding the unit cost of a machine or mechanization system	1969	1
137	Tractor safety cabs	1969	1
138	The evolution of light modulated control of glasshouse environment	1969	1
139	The resistance to airflow of dry and soaked vegetable seeds	1969	1
140	Drill Hitches	1969	1
141	The amount of CO2 and oxides of nitrogen present in Tower silos during the Filling process	1969	1
142	Fan ventilation of glasshouses		
143	A comparison between engine driven and all electric fans for a 400 tonne ventiated floor system	1969	1
144	The Weylode agricultural weigher	1969	1
145	Moisture meters - grain	1969	1
146	Grass drying	1969	1
147	Low rate aeration	1969	1
148	Automatic control of static and field equipment	1969	1
149	A field comparison of the performance of 2 and 4 WD agricultural tractos and a tracklayer	1969	1
150	Farm machinery cost survey	1969	1
151	Slurry handling equipment	1969	1
152	Mechanization in Carrot growing	1969	1
153	Silage Making Systems	1969	1
154	Inherent causes of spontaneous ignition in silos	1969	1
155	The rapid determination of the moisture content of 'wet' grain by 2 different electrical meters	1969	1
156	How' system of metrication	1970	

157	Seedbed preparation for precision drilling	1970	1
158	S I conversions for thermal conductivity and 'U' values	1970	1
159	Fruit house and packhouse mechanization	1970	1
160	Aeration systems or low volume ventiation and cooling patterns in grain	1970	1
161	Fan speed control	1970	1
162	Machinery for peas and beans	1970	1
163	Report of Investigation into various methods of on-floor ventilation	1970	1
164	Trials with canning potatoes	1970	1
165	Condensation in the roof spaces of potato and root storage buildings	1970	1
166	The removal of excessive condensate from the ceiling of potato stores	1970	1
167	Slurry aeration to minimise odour		
168	Farm transport of materials in bulk	1970	1
169	Handling equipment for indoor potato storage	1970	1
170	Vacuum cooling	1970	1
171	Barn hay driers,Plenum chamber and vertical ventiation type	1970	1
172	Industrial vacuum cleaners	1970	1
173	A guide to assessing the seasonal capacity of combine harvesters	1970	1
174	Some notes on vegetable packhouse layout and vegetable graders and 174a new STL	1970	1
175	Cube binding agents	1970	1
176	Red beet storage	1970	1
176a	Fruit packhouses	1970	1
177	Ear protection devices for Tractor Drivers	1970	1
178	Giant combines for 1971	1970	1
179	Jacketed potato stores	1970	1
180	Combine losses 1970	1970	1
181	Resistance to airflow of grain and seeds	1970	1
182	The treatment of cattle slurry by means of the oxidation ditch system at the GRI - prelim trials	1970	1
183	Performance of an experimental high rate biological filtration tower when treating pig slurry	1971	1
184	Standby power plant for milking equipment	1971	1
185	Wheeled tractors - traction and traction aids	1970	1
186	Farm food processing - methods and costs	1971	1
187	Poultry manure processing plant - Lucas furnace developments	1971	1

188	The use of propionic acid in sealed silos	1971	1
189	Airflow through grain and through perforated floors	1971	1
190	Compaction - experimental work	1971	
191	Chitting potatoes under polythene	1971	
192	Infra-red moisture meters	1971	1
193	Available hours / timeliness - minimal cultivations	1972	
194	Glasshouse heating - some suggestion fo fuel saving	1972	1
195	Potato harvesting and storage	1972	1
196	Tractor and trailer movement on the farm	1972	1
197	Barn hay drying with electrically driven fans in areas of single phase supply	1972	1
198	Condensation in buildings	1972	1
199	Cooling and short term storage of strawberries	1972	1
200	Steam sterilization of soil	1972	1
201	Measuring grain yields on the farm	1972	1
202	Pressurised water heating systems	1972	1
203	Grain handling by container lorries	1972	1
204	Hydraulic weighing jacks	1972	1
205	Mechanising the harvest of field lettuce	1972	1
206	Storage and conveying of concentrates for dairy cows	1973	1
207	Plastic materials	1973	1
208	Oil seed rape mechanisation developments in the East Midlands	1973	1
209	Mechanical harvesting of blackcurrants	1973	1
210	Straw disposal	1973	
211	Mechanised parlour feed dispensers	1973	1
212	Equipment for applying granular herbicides and pesticides	1973	1
213	Performance of lateral ducts in typical on floor drying/storage installations	1973	1
214	Mechanised handling and feeding of dried green crops on the farm	1974	1
215	Bulk handling of vegetable crops	1974	1
216	Vehicle movement around the farmstead	1973	1
217	The use of SI units terms in publications	1974	1
218	Noise, hearing protection and farm treatment of tractor cabs to reduce noise	1974	1
219	Mechanisation of swede growing, harvesting and feeding	1974	1

220	Collection and ensiling of sugar beet tops	1974	1
221	Straw yields	1974	1
222	The mechanics of the 'Tramline' technique for cereals	1974	1
223	Guide to the estimation of drying costs	1974	1
224	Standby power supplies	1975	1
225	Leek harvesting	1975	1
226	Seasonal performance of forage harvesters	1975	1
227	Maize silage for the dairy herd, mechanisation and feeding systems	1975	1
228	Low volume hay conditioning - probable drying times	1975	1
229	Mobile forage feeding	1975	
230	Performance of front mounted loaders	1975	1
231	Linseed - mechanisation aspects	1975	1
232	Spacing seeder calculations - metrication	1975	1
233	Chopping straw for poultry litter	1975	1
234	Aircraft in agriculture - UK operations	1975	1
235	Loads imposed on floors by vehicles handling farm materials	1975	1
236	Estimation of plant capacity for onion stores	1975	1
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238	Insulation	1975	1
239	Straw 1975	1976	1
240	Mobile irrigators	1976	1
241	Dry feeding for pigs	1976	1
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243	Cabbage harvesting and handling	1976	1
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247	Monitoring of flat deck rearing of early weaned pigs	1977	1
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249	Mowers for wilting	1976	1
250	Performance of vacuum seed drills 1976	1976	1
251	Generalised diagram of a manually controlled recirculation ventilation system for small piggeries	1977	1



252	A guide to the physical characteristics of some alternative pesticide application systems	1977	1
253	Sodium hydroxide treatment of straw on farms	1978	1
254	Mechansiation aspects of the handling and storage of broiler litter for silage	1977	1
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257	Duct design for bulk stores and resistance to airflow of bulk crops	1978	1
258	Warm air heating of greenhouses	1977	1
259	A guide to the selection of refrigeration components	1977	1
260	Complete diet feeding - National Study - mechanisation aspects	1977	1
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262	Ice bank coolers	1977	1
263	Cereal cleaning in on floor stores	1977	1
264	Potato seed handling techniques, description of systems and labour/time comparison	1977	1
265	BCPC - Buyer's guide to pressure gauges for agricultural pesticides applicators	1977	1
266	The manufacture and handling of composts	1977	1
267	Fan and vent linked auto control of livestock ventilation	1977	1
268	Sprayer calibration	1978	1
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279	Baling grass for silage	1979	1
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289	More information on the physical characteristics of pesticide application systems	1980	1
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291	Pesticide application in soft fruit - a review	1980	1
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298	Some preliminary observations on the performance of low ground pressure vehicles	1980	1
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305	Packing for profit	1982	1
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311	Molasses - a silage additive	1982	1
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314	Use of the Lockinge Ulvamast for pesticide application	1982	1
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316	Rotary cage atomisers for pesticide application	1983	1

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319	The performance of combine harvesters 1982	1983	1
320	Rapid cooling of horticultural produce - a guide to system selection	1983	1
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325	ADAS spray boom for nursery stock container beds	1983	1
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332	Harvesting, storage and feeding equipment for fodder beet	1985	1
333	A study of the methods of application of crop protection chemicals to brussels sprout crops 1984	1985	1
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335	Ploughs and plough attachments - their operation and use	1986	1
336	Straw densification for transport and use - baling and handling	1986	1
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338	Fruit storage equipment	1988	1
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