

**AWM4**  
**Australian Imperial Force unit war diaries,**  
**1914-18 War**

Supplies & Transport

**Item number:** 25/16/28

**Title:** 3rd Australian Divisional Train

February 1919



AWM4-25/16/28



**CONFIDENTIAL.**

ORIGINAL.  
~~DUPLICATE.~~  
~~TRIPLICATE.~~

160

Australian Imperial Force.

# WAR DIARY

OF

3rd DIVISIONAL TRAIN, A.I.F.,

FOR

FEBRUARY

1919.

Signature of Officer compiling

*C. P. Litcher*

Lieut.

for 3rd Divisional Train, A.I.F.

Signature of Officer Commanding

*Selwyn King*  
Lt.-Col.  
3rd Divisional Train, A.I.F.



## WAR DIARY

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or  
INTELLIGENCE SUMMARY.

(Erase heading not required.)

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Place	Date	Hour	Summary of Events and Information							Remarks and references to Appendices
			During February the undermentioned Units were supplied -by- 3rd Aust: Divisional Train. 22nd Coy, A.A.S.C. (No. 1 Coy, 3rd Div: Train)							
Units.	Map Reference	Q.M. Stores.	Average strength.				No. of vehicles.	Distance Covered.	Remarks.	
			Men.	H.D.	L.D.	Mules.				
22nd Coy, A.A.S.C.	-	-	156	90	22	-	2	2		
7th F.A.B. H.Q.	-	-	88	-	32	-				
25th Bty "	-	-	138	-	134	4				
26th Bty "	-	-	130	-	150	-	9	63		
27th Bty "	-	-	145	-	146	5				
107th Bty "	-	-	150	-	158	-				
8th F.A.B. H.Q.	-	-	55	-	26	-				
29th Bty "	-	-	144	-	140	4				
30th Bty "	-	-	122	-	123	-	9	63		
31st Bty "	-	-	156	-	124	9				
108th Bty "	-	-	142	-	107	6				
H.Qs., 3rd DAC.	-	-	50	2	14	23				
No. 1 Sect: "	-	-	108	-	30	157	6	30		
No. 2 Sect: ""	-	-	125	-	132	67				
5th T.M. Bty.	-	-	33	-	-	-				
6th "	-	-	32	-	1	3	-	-	own transport.	
3rd D.A.H.Q.	-	-	126	2	14	6				
" Sigs.	-	-	36	-	15	-	1	5		
Town Commandant.	Maubeuge.	-	140	1	5	-	1	4		
161st Labor Coy.	-	-	126	6	1	2	-	-	own transport.	
275th Railway Coy.	-	-	155	1	1	-	-	-	"	
No. 4 R.T.C., R.E. Details.	-	-	28	-	-	-	-	-	"	
K.O.I.L.I.	-	-	145	-	-	-	-	-	"	
S.S. Unit 509 (American)	-	-	28	-	-	-	-	-	"	
Area Commandant.	Louvroil.	-	6	-	-	-	-	-	"	
263rd Railway Coy.	-	-	57	-	-	-	-	-	"	
Corps Ammun Dump.	-	-	45	-	-	-	-	-	"	
			2666	102	1375	286	128	167		
D. D. & L., London, E.C.										
(10340) WFW5300/1715 750,000 3/18 E 2688 Form C/2118/16.										



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INTELLIGENCE SUMMARY.

23rd Coy, A.A.S.C.

(Erase heading not required.) 2 Coy -3rd Div: Train.

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Place	Date	Hour	Summary of Events and Information						Remarks and references to Appendices
Unit.			Location of Q.M. Stores.	Average strength.			No. of vehicles.	Distance Covered.	
				Men.	H.D.	L.D.			
38th Battalion.			Vismes au Val	420	9	46	-	- 14 miles	Train transport from
39th "			Boullancourt	363	8	44	-	-	" Railhead to
40th "			Tours eu v.	466	9	45	-	-	" Refilling Points
10th Bde H.Qs.			Martainneville	48	-	19	-	-	" a 14 mile trip
10th Bde Sig Sect:			"	40	-	6	-	-	" and
10th T.M.B.			"	15	-	2	-	-	
23rd A.A.S.C.			Rambures.	96	39	14	1	5	
3rd Mob Vet Sect:			Villers sur M.	18	-	15	-	-	Units transport from
3rd Div: Agric: School			Rambures.	54	-	-	1	5	Refilling point to
3rd Div: A.P. Corps.			Blangy	61	-	24	-	-	Q.M. Stores.
3rd M. Gn. Bn.			Gamaches	230	3	64	-	-	
9th M.Gn. Coy.			"	172	2	49	-	-	
10th "			"	152	2	52	-	-	
11th "			"	191	2	50	-	-	
3rd Div: Canteen.			Grebault	16	-	-	1	3	
10th Fld. Amb.			Vismes au Val.	107	16	17	-	-	
				2449	90	448	3	13	



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Place	Date	Hour	Summary of Events and Information								Remarks and references to Appendices
U n i t.			Location of Q.MS Stores.	Average strength.				No. of Vehicles.	Average Mileage.		
				Men.	H.D.	L.D.	Mules.				
33rd Battalion.			Chepy - Chepy.	595	9	14	29	-	-	M.T. used from Rail-head to Refilling Point. Average distance to Railhead 12 Kilos. First Line Transport used from Refilling Point to Units.	
34th "			Mainnay - Mainnay	566	8	15	29	-	-		
35th "			Feuquieres - Feuquieres	609	9	8	38	-	-		
9th Bde H.Qs.			Acheux - Acheux	154	-	23	12	-	-		
24th Coy, A.A.S.C.			Rambures - Rambures	103	41	13	-	-	-		
9th Field Amb.			Valines - Valines	137	16	19	-	-	-		
9th " Engrs.			Aigneville - Aigneville	151	-	46	21	-	-		
10th " Amb.			Toeufles - Vismes	126	16	18	-	-	-		
10th " Engrs.			Moyenville - Moyenville	137	-	64	-	-	-		
3rd Div: Reinf: Wing			Villers sur Mareuil.	104	6	-	-	-	-		
3rd Div: T.H.Qs.			Rambures - Rambures.	30	2	3	-	-	-		
				2712	107	223	129				

M.T. used from Rail-head to Refilling Point.  
Average distance to Railhead 12 Kilos.  
First Line Transport used from Refilling Point to Units.



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## INTELLIGENCE SUMMARY.

25<sup>th</sup> May. A. A. S. b (Erase heading not required.)

3rd Div. Train

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Place	Date	Hour	Summary of Events and Information							Remarks and references to Appendices
U n i t.	Map Location Q.M. Stores.	Average strength.				No. of vehicles.	Distance Covered.	R e m a r k s		
		Men.	H.D.	L.D.	Mules.					
41st Battalion.	St. Maxent	699	5	21	26	2	10			
43rd "	Transloy	541	9	20	21	2	7			
44th "	Cerisy	407	8	20	21	2	8			
11th Fld. Coy.	Bernapre	154	-	44	24	1	7			
11th Fld. Amb.	Biencourt	154	19	17	-	1	9			
11th Bds H.Qs.	Rambures.	74	-	15	10	1	6			
11th Sig: Sect:	"	50	-	6	-	)				
25th A.A.S.C.	Villeroy	129	66	17	-	2	5			
3rd Pion: Bn.	Huppy	370	7	31	40	2	12			
3rd Div: Baths	"	17	-	-	-	-	-			
3rd Div: Sig: Coy.	Foucaucourt	166	-	55	-	1	7			
3rd D.A.C., S.A.A.	Senarpont	126	-	16	158	2	10			
3rd Div: H.Qs.	Oisemont/Blangy.	217	8	29	1	2	9			
3rd Div: Eng: H.Qs.	Oisemont.	34	-	8	-	1 limber	2			
3rd A.A.O.C.	"	53n	-	-	-	-	-			
3rd San: Sect:	Foucaucourt	12	-	-	-	-	1			
3rd Div: Sal: Coy.	Villers sur Mareuil.	6	-	-	-	1 limber	3			
3rd Div: Cooees.	Oisemont.	40	-	-	-	-	-			
3rd Div: T.H.Qs.	Rambures.	30	2	4	-	1 limber	6			
		3669	124	293	301	21	101			



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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			<p><u>Location of H.Qs. and Companies of 3rd Aust. Div: Train during the month of February, 1919.</u></p> <p>Train H.Qs. - 1-28 - RAMBURES.</p> <p>22nd Coy. - 1-28 - LOUVROIR/Sheet 62B.</p> <p>23rd Coy. - 1-28 - RAMBURES.</p> <p>24th Coy. - 1-28 - "</p> <p>25th Coy. - 1-28 - VILLEROY.</p> <p>-----</p> <p><u>Personnel - accommodation:-</u> Billets, Barns etc.</p> <p><u>General:-</u> <u>Casualties</u> - Nil.</p> <p><u>Evacuations to Hosp. etc.</u> - 23 O.Rs evacuated to Hospital during month of February suffering from Pneumonia, Influenza, Bronchitis and minor ailments.</p> <p>10 off 15 O.Rs proceeded to A.G.B.D. en route to Australia for Demobilization.</p> <p>1 " proceeded to A.G.B.D. en route to England for discharge in U.K.</p> <p>1 " proceeded to A.G.B.D. en route to U.K. for non Military Employment.</p> <p><u>Reinforcements-</u> Nil.</p>	



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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices																								
			<p><u>GENERAL (Contd):-</u></p> <p>27 O.Rs transferred to strength of Div: Train from Inf: Btns &amp; appointed Drivers.</p> <p>2 " rejoined Unit from A.G.B.D. (ex Hosp.)</p> <p>---</p> <p>During the month of February, 1919 the following was salvaged and returned to Base:-</p> <table border="0"> <tr> <td><u>Tea Lead</u></td> <td>-</td> <td>293 lbs.</td> <td><u>Cartons</u></td> <td>-</td> <td>95 lbs.</td> </tr> <tr> <td><u>Cardboard</u></td> <td>-</td> <td>564 lbs.</td> <td><u>Paper</u></td> <td>-</td> <td>286 lbs.</td> </tr> </table> <p>---</p> <p><u>ANIMALS.</u></p> <p><u>Horses evacuated during month of February, 1919.</u></p> <table border="0"> <tr> <td><u>R.</u></td> <td><u>L.D.</u></td> <td><u>H.D.</u></td> <td></td> </tr> <tr> <td>6</td> <td>2</td> <td>22</td> <td>- disposed of by sale.</td> </tr> <tr> <td>-</td> <td>1</td> <td>4</td> <td>- evac. from M.V.S.</td> </tr> </table> <p><u>Horses taken on strength from Remount Depots.</u></p> <p>NIL.</p>	<u>Tea Lead</u>	-	293 lbs.	<u>Cartons</u>	-	95 lbs.	<u>Cardboard</u>	-	564 lbs.	<u>Paper</u>	-	286 lbs.	<u>R.</u>	<u>L.D.</u>	<u>H.D.</u>		6	2	22	- disposed of by sale.	-	1	4	- evac. from M.V.S.	
<u>Tea Lead</u>	-	293 lbs.	<u>Cartons</u>	-	95 lbs.																							
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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			<p><u>General (contd) - SUPPLIES:-</u> Railhead throughout the month of February has been OISEMONT - transport of the Train being used to convey supplies to Refilling Points of the 10th &amp; 11th Brigades and M.T. for the 9th Brigade.-</p> <p>No changes have occurred in the locations of Refilling Points:- 9th Brigade - TOURS, 10th Brigade - VISMES, 11th Brigade - OISEMONT; first line transport have conveyed rations from Dumps to Q.M. stores and in special instances with several units of 11th Brigade Group wagons of the Train have also transported daily to Q.M's stores.</p> <p>During the month, the pack has been very satisfactory a full supply of requirements arriving daily, Bread and Meat have reached Railhead in excess of the normal ration 12 &amp; 8 ozs. respectively - the extra oz4 per man being availed of in lieu of the equivalents Preserved Meat &amp; Biscuits authorised. Advantage has been taken of authority granted for Flour to be drawn in lieu of biscuits an average of 560 lbs. being issued daily since receipts of authorisation to do so.</p> <p><u>Fuel:</u> Coal to meet the full ration to units and approved sundry requirements for Baths etc. has arrived on Pack during the month; Fuelwood has been drawn from A.F.D.C.O., R.E. Coy, GUIMERVILLE by M.T. also 12 G.S. wagons daily from No. 3 Section 3rd D.A.C. supplemented by further transport of the Train realising a minimum daily ration of 3½ lbs. to units and during the period 10th to 21st. inst. this was increased by approx. 50% in accordance with authority granted for 25% increase on general fuel ration during severe weather and supplied in terms of fuelwood. During the latter three weeks of the month office fires have been supplied with a 25% increase of Coal realising an issue of 250 lbs. per fire place per week.</p> <p><u>Vegetables:</u> Regular supplies of good quality Potatoes &amp; Onions have arrived from Base sufficient to maintain an 8 oz. issue of fresh commodities no necessity occurring for dried substitutes being issued.</p> <p><u>Forage:</u> Owing to labor and transportation difficulties commencing on the 8th inst. Hay was reduced on pack by 2 lbs. per animal and the Oat ration simultaneously increased by 1½ lbs. During the month a total of 14½ tons. of Bran &amp; 3260 Kilos. of Horse Turnips have been issued as supplements also 41093 lbs. of Locust Beans all of which have</p>	



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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			<p><u>GENERAL (contd) SUPPLIES:-</u></p> <p>arrived on pack train.- General: Rations drawn on 27-1-19 for Reserve at 9th Brigade Refilling Point during Thaw Precautions were underdrawn at Railhead on 17 &amp; 18-2-19 and having regard for units preference for Bread &amp; Fresh Meat - the deduction of biscuits &amp; Preserved Meat was regulated over a period of several days, a small proportion of the latter mentioned commodities being absorbed each day.</p> <p><u>Requisitioning and Purchases:-</u> Nothing of requirements being available locally, requisitioning has been "Nil".</p> <p>-----000-----</p>	



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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			<p><u>GENERAL:-</u> The accommodation as reported in JANUARY War Diary continued good.</p> <p>During the month a considerable amount of outside transport was done by the Train Companies in Cartage of R.E. Material and fuel wood in addition to the cartage of extra blankets, equipment, etc., of Units concentrating and returning Stores to D.A.D.O.S.</p> <p>22nd. Company, A.A.S.C. continued to work as heretofore in the Northern Area detached with the Divisional Artillery - Railhead being BEAUMONT with Refilling Point at HAUTMONT, supplies being taken from Railhead to Refilling Point by M.T. and thence to Unit Lines by Train Transport. The Company was visited by C.O. Train during the month.</p> <p><u>Demobilisation and Repatriation:-</u> Owing to the number of horses in the Unit and the amount of transport work to be done it was not possible to spare men for the first Quota of men being demobilised in this Division - arrangements being made, both with the Division and with Corps and Artillery for the 22nd. Company to get proportionately larger allotments in the later Quotas after the disposal of some of the Train Horses. During the Month a number of "Z" Horses were sold from the 22nd. Company, A.A.S.C., for an average price of 1645 francs - the highest price paid being 2800 francs and the lowest 650 francs - the latter animals' legs being much the worse for wear etc.</p> <p><u>School of Agriculture:-</u> The Third School assembled on 2nd. February at RAMBURES and the interesting and practical work on the lines laid down in the Unit War Diaries for the past three months was continued in accordance with the "Records of Work" shown in the appendices "A" and "B" attached hereto.</p> <p><u>School of Cookery:-</u> This school continued its good work, a useful building constructed of old material from old unoccupied Army Shelter Sheds being erected by the pupils of the two above mentioned schools with the assistance of 4 A.E. Sappers. A Store Room, kitchen and demonstrating room and also separate rooms for the Instructors and Students used as Mess and Recreation Rooms being completed in a few days, both schools with</p>	



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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
			<p><u>GENERAL - (continued):-</u></p> <p>personnel of Train Headquarters messing together in order to provide a larger quantity of food for demonstration purposes, extras being provided at a very small cost per head giving a fair variety of food to the general satisfaction of all.</p> <p>During the month the Divisional Arts and Crafts Exhibition was held at which a number of entries showing a good variety of leather and wood work, by the Divisional Train Artificers produced very favourable comment by visitors, several prizes being won by the Train.</p>	



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# WAR DIARY

OF

Third Australian Divisional Train.

FOR

FEBRUARY

1919.

## LIST OF APPENDICES.

No.

Subject.

(a) Syllabus of work for the following periods of the 3rd Divisional Agricultural School for the civil training of members of the A.I.F. in the various branches of Agriculture, Veterinary work, horsemanship including practical instruction in handicraft likely to be useful in farm work in Australia.

Syllabus for period	3rd.	to 8th.	Feb.	1919.
"	"	10th.	to 15th.	" "
"	"	17th.	to 22nd.	" "
"	"	24th.	to 1st.	March "

(b) Reports of the work referred to in "A" the periods being varied as under:-

Report of work for period	3rd.	to 15th.	Feb.	1919.
ditto			17th.	Feb. to 1st. March 1919

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3rd Australian Division Agricultural School.R A M B U R E S.Third Course Commencing Feb. 3rd, ending March 15th 1919.Three terms of a fortnight duration.Record of work 1st Term

<u>Date</u>	<u>Time.</u>	
2-2-19		Twenty-six students (3 Officers & 23 O.Rs.) from the various units of the Division assembled at RAMBURES.
3-2-19	9am/12 noon. 2pm/ 3 pm.	Practical work in Artificers Shops. Lecture by Lieut. Henrick J. - <i>Introductory - School Hims.</i> <u>General Agriculture:-</u> Three types of products:- Primary; Secondary; Manufactured. Points essential for Success:- Business methods; Practical knowledge of Farm stock & use of farm implements; knowledge of principles underlying farm practices. Two primary points in production:- Soil - Climate; Origin of Soil; Weathering of Rocks - Chemical - Physical (Mechanical). Sedentary & Transport Soils. Fertile soil contents:- Weathered rock (containing mineral plant food)- Humus - bacteria. Lecture by Cpl. Ridge V.F. - <u>"Orcharding - Introductory.-"</u> Importance of industry- Profits from - Considerations regarding soils, sites, planting; types and varieties of trees, pruning; spraying, picking and marketing. Scientific knowledge necessary on account of pests & sprays. Overproduction a myth in Australia - Import oranges, apples etc. No necessity. Use of cold storage. Overseas shipments.
4-2-19.	9am/12noon. 2pm/ 3pm.  3pm/4pm.  5pm/6pm.	Practical work in Artificers shops. Lecture by Lieut. Henrick J.O. - <u>Resources &amp; Classification of Soils:-</u> Resources of soil:- Available & Reserve Plant Foods. Profits in Agriculture - Maintenance of Fertility & producing extra crop. Classification of Soils. Farmers' Classifications. Alluvial Soils. Nature & Derivation. Mechanical & chemical Analyses of Soils. Lecture by Sergt. Dowden B.L. - <u>Dairying Industry in Australia.</u> Third industry in Australia - One of the best paying - Labour problem not as big as bogey as some think. Separators - Milking machines. Improvement of Return - feeding - culling on tests - Margarine competition - can't compete with 1st. class butter - supply 1st. class cream. Dairy Legislation - Pure Food Act Dairy - Supervision Act - supervisor disinterested, good adviser.  <u>Lecture by L/Cpl. NUTTALL:-</u> <u>Apiculture in AUSTRALIA.</u> As a hobby - side line - main industry.



Date.	Time.	
4-2-19	5 p.m./6 p.m.	Lecture by Cpl. NUTTALL P.E. (contd) <u>Apiculture in Australia.</u> Profits; Scope of Industry Experience. Start - in small way with few hives - Use artificial increase - Number of hives per acre. Out apiaries - Distance bees work in. Points necessary for success. Occupation for Returned soldiers.
5-2-19	9 a.m./12 noon. 2 p.m./ 3 p.m.	Practical work in Artificers shops. Lecture by Sergt. SKEWES N.L. - <u>Pigs for Pork as a sideline;-</u> Pigs in conjunction with "small paddock rotations". Points of Berkshire) Pork Pigs - not grazers " Yorkshire) Large Black - Grazing Pig. Tamworth, Bacon Pig. Choice of Boar - Sow. Consider market then choose types. Running boar with sows and keeping boar shut up.- Topping up in pens & Topping up in small fields on feed crops. Foods & Feeding. Balanced ration. Green crops Feeding young pigs. Castration. Putting on Market - Discussion.
	3 p.m./ 4 p.m.	Lecture by Cpl. RIDGE V.F. - <u>Types of fruit for various climates &amp; altitudes. Locality &amp; Soils.</u> Tropical, semi tropical & temperature climate fruits. Fruits for Coast, Highland, Inland. Locality - Nearness to Transport. Settle in established orchard district. Dont pioneer Means of support during years orchard not bearing. Sites. Aspect for morning sun - Protection from prevailing winds. Soils. Sandy loams, granites etc.
6-2-19	9 a.m./12 noon. 2 p.m./ 3 p.m.	Practical work in Artificers shops. Lecture by Lieut. Henrick J.O. - <u>Pore space Moisture &amp; Temperature of Soils.</u> Pore space - meaning - Ideal ratio of air to moisture. Soil moisture; Necessity - Three ways present in soil - conservation - water holding capacity - how influenced. Soil mulch. Soil temperature. How soil receives heat; how loses heat. Effect of color on Temperature; Effect of size of particles and mans treatment.
	3 p.m./ 4 p.m.	Lecture by Corpl. NUTTALL P.E. - <u>Localities and laying out an Apiary.</u> Selection of locality - Coast inferior to inland districts. Eucalypts chief producers - 1st class honey. Natural flora & orchards; lucerne. Laying out Apiary. Easterly aspect, against prevailing winds; low-stands - wire fencing. Out - apiaries. Benefits of out apiaries.
	5 p.m./ 6 p.m.	Lecture by Sgt. DOWDEN B.L. - <u>Dairy type, Principal Breeds.</u> Points of Typical Dairy Cow. Characteristics & milking qualities of; Jersey Guernsey; Alderney; Ayrshire; Shorthorn; Illawarra; Devon; Red Pole; Durham; Pole; Angus; Kerry & Dexterkerry. General crosses in Australia. Popular crosses.



Date.	Time.	
6-2-19.	5 p.m./ 6 p.m.	Dairy Type - Principal Breeds by Sgt. DOWDEN (contd) Popular crosses:- Jersey-Ayrshire, Jersey-Shorthorn, Shorthorn-Ayrshire, Obtaining good herd. Breeding..Starting buy good heifers from noted dairyman.
7-2-19	9 a.m./ 12 noon. 2 p.m./ 4 p.m.	Practical work in Artificers shops. Lecture by Sergt. SKEWES M.L. - <u>Pigs for Pork as a sideline.</u> - Killing & Dressing for market. Berkshires. Type of Boar. Crosses for Porkers Rotation Crop Feeding. Results of definite trials Figures obtained. Killing & Dressing. Best method for thorough bleeding. Precautions for scalding; dressing; marketing;
8-2-19.	9 a.m./ 12 noon.	Practical work in Artificers shops.
10-2-19.	9 a.m./ 12 noon. 2 p.m./ 3 p.m.	Practical work in Artificers shops. Lecture by Cpl. RDDGE V.F. - <u>Windbreaks &amp; Preparation of Land for Orcharding.</u> Windbreaks. Ornamental trees; hedge plants; paying trees. Drainage - Importance of Subsoil. Clearing. depth to take out roots. Ploughing. Fencing. Permanent type for keeping out stock rabbits etc, illustrated.
	3 p.m./ 4 p.m.	Lecture by Sergt. DOWDEN B.L. - <u>Dairy Farm Buildings. Care &amp; Management of Dairy stock.</u> Plan out buildings. Allow for extensions. Central position. Distance from house. Drainage of sheds lower than living quarters. Types of sheds flooring - aspect - protection from prevailing winds - drains. Care & Management. Foods, water, shelter, Water in troughs, not direct access to dams. Shelter. In hot areas trees or shed roof. Cold districts shelter from winds etc. Perhaps rug. Young heifers. 1st calf from 2-2½ years - frame developed by them. Develop milking habit. Care before & after calving. Advisable not to use dogs. Cleanliness in milking. Care of sore teats.
	5 p.m./ 6 p.m.	Lecture by Lieut. HENRICK J.O. - <u>Organisms, Texture &amp; Structure of Soils.</u> Decay of organic matter in Soil:- Cause - Organisms. Numbers present in arable land. Two classes( Aerobic - Oxygen require. (Anaerobic- Live in absence of oxygen. Three Types(Free nitrogen fixing) Aerobic. (Nitrification bacteria) (Denitrification bacteria - Anaerobic. Free nitrogen fixing bacteria(Symbiotic(in nodules on legume roots.) Free in soil. Nitrification bacteria(Nitrite formers. (Nitrate formers. Denitrification bacteria. Bad; break down nitrates. Conditions under which various types flourish. Texture of soils - Structure - How farmers affects structure by tillage., green manuring, liming etc. Reasons why Good structure gives better results than poor structure. Explained on points brought out in previous lectures on Plant Foods, Pore Space, moisture Temperature & Organisms in Soil.



Date	Time.	
11-2-19.	9 a.m./12 noon. 2 p.m./ 3 p.m.	<p>Practical work in Artificers shops. Lecture by Sergt. SKEWES - <u>Food Cycle</u> <u>Introductory to Food &amp; Feeding.</u> Explanation of Carbohydrates, Proteins, Fats &amp; Ash. Ash contents. Effects of these different constituents when taken in by animals &amp; humans.</p>
	3 p.m./ 4 p.m.	<p>Explanation of the effects of various foods, treated in various ways for feeding. Lecture by Cpl. NUTTALL P.E. - <u>Bees and their Management.</u> Anatomy of Bee - Head &amp; appendages &amp; Thorax - Abdomen &amp; appendages. Types of Bees - Two native types - Imported types. Blacks; Carnolians; Cyprians; &amp; Italians Three classes in hive - queen, workers, drones, Normal life period of each class. Handling of the bees &amp; hives. Precaution necessary.</p>
12-2-19	9 a.m./12 noon. 2 p.m./ 3 p.m.	<p>Practical work in Artificers shops. Lecture by Sergt. SKEWES N.L. - <u>Phosphatic Potassic &amp; Nitrogenous Fertilizers.</u> Phosphates - natural sources; Superphosphate Thomas Phosphate. Treatment to render plant food available. Potash. Original deposits - treatment &amp; final article as Kainit, sulphate of Potash &amp; Muriate of Potash. Nitrogenous Fertilizers. Sources of supply. Mining treating &amp; evaporating Nitrate of Soda. Sulphate of Ammonia - Produced from bye-products of coal gas. Effects of Phosphatic, Potassic &amp; Nitrogenous Fertilizers on crops.</p>
	3 p.m./4 p.m.	<p>Lecture by Sergt. DOWDEN B.L. - <u>Foods &amp; Feeding of Dairy Stock</u> How animals use food. Uses of food. Quantity required for dairy cows. Nutritive Value &amp; Composition - Carbohydrates - Proteins - Fats - Ash. Nutritive Ration - Relative value - Digestibility Bulk - Palatability. Foods in common use in Australia - Green Fodders - Hay - Concentrated Foods. Examples of Mixed Rations.</p>
	6.30/7.30 p.m.	<p>Lecture by Lieut. HENRICK J.O. - <u>Causes of Fertility &amp; Sterility in Soils.</u> Fertility - Factors constituting Fertility. Partial &amp; Complete Sterility - Causes. Lack of Water - Low Rainfall. Dry farming method. Arid Areas - alkali lands - Causes of Black &amp; White Alkali. Precautions necessary when using irrigation in arid areas. Sour land - Remedies. Unoxidized Iron Salts - Remedies. Faulty use of Fertilisers - Remedies.</p>



Date	Time.	
13-2-19	9 a.m./12 noon. 2 p.m./ 3 p.m.	<p>Practical work in Artificers shops.</p> <p>Lecture by Lieut. HENRICK J.O. - <u>Action of Soil on Salts. Fate of Water soluble Manures &amp; Fertilizers.</u></p> <p>Nitrogenous, Phosphatic (Super) &amp; Potassic water soluble manures &amp; Fertilizers.</p> <p>Nitrogenous - three types. Salts of ammonia. Organic (smelly) nitrogen &amp; Inorganic Nitrogen Compound. First two types in Compost heaps. Making &amp; Care of Farmyard Manure Heaps.</p> <p>Action of soils - Absorption - Chemical - Physical. Organic Compound of Nitrogen held by Physical Absorption. Made use of in Septic Tanks.</p> <p>Inorganic Compounds as Nitrates not retained. Salts of Ammonia, Super &amp; Potassic Compounds retained by Chemical Processes in the soil. Times to use various Compounds.</p>
	3 p.m./ 4 p.m.	<p>Lecture by Sergt. SKEWES N.L. - <u>Bonedust</u></p> <p>Early experiments; constitution of bone.</p> <p>Lime compounds; cartilage producing nitrogen.</p> <p>Steaming for fats &amp; gelatine. Crushing of Bone</p> <p>Treatment with Sulphuric Acid for making Super</p> <p>Action of Bonedust. Influence on Plant life.</p>
14-2-19	9 a.m./12 noon. 2 p.m./ 4 p.m. 6-30 /7-30	<p>Practical work in Artificers shops.</p> <p>Bath Parade - RAMBURELLES.</p> <p>Lecture by Cpl. RDIGE V.F. - <u>Propagation of Orchard Plants - Class of Trees to buy.</u></p> <p><u>Propagation of Orchard Sexual - asexual.</u></p> <p>Sexual. Self fertilizing &amp; Cross fertilizing.</p> <p>Asexual. Layering - Obtaining Stocks of Northern spy - Cuttings - often used in vineyards.</p> <p>Budding &amp; Grafting - Times for budding &amp; grafting.</p> <p>Propagation of Apples, Peaches, Apricots, Plums, Pears, Vines etc.- Stocks used - Class of tree to buy.</p> <p>Yearling trees advisable. May also buy dormant budded trees especially if yearling trees scarce.</p>
15-2-19	9 a.m./12 noon. 2 p.m./ 4 p.m.	<p>Practical work in Artificers Shops.</p> <p>Lecture by Lieut. WILLIS - <u>Internal Combustion Engines. Pumps. Types of work on farm for which Internal Combustion Engine can be used.</u></p> <p>Petrolengine - Kerosene engine. Four cycle &amp; two cycle engines.</p> <p>Four cycle engine - Explanation - entry of gases - explosion. Care of sparking plug, valves &amp; valve seatings. Attention to lubrication</p> <p>Engine cooling apparatus. Vertical &amp; Horizontal engines. Amount of different kinds of farm work done by 1 B.H.P. (Brake horse power).</p> <p>Two cycle engine. Explanation - how differ from 4 cycle - drawbacks.</p> <p>Kerosene Engines. Method of obtaining the kerosene in a gaseous state.</p> <p>Pumps on the farm.</p>

*J. A. Henrick, Lt.*  
*O.C. 3rd Div. Agric School*



## 3rd Australian Divisional Agricultural School

R A M B U R E S.

Report on work of second period 17-2-19 to 1-3-19.

Date.	Time.	
17-2-19	9 a.m./12 noon.	Practical work in Artificers shops. Men of Previous term in Saddlers to Farriers; Farriers to Wheelwrights; Wheelwrights to Saddlers.
	2 p.m./ 3 p.m.	Lecture by Sergt. DOWDEN B.L. - <u>"Dairy Hygiene"</u> Necessity of cleanliness - Germs in Milk - Milk; Ferments - Ferments affecting Milk Sugar. Albumenoids - fats. Lactic acid - putrefaction - peptonising - ptomaines; How bacteria enter milk - Bacteria in milk. Abnormal & normal diseases. Control of fermentation. Paving of Sheds & yards + Impervious floor Healthy cans & milkers - limewashing. Storing & cooling milk - Care of vessels, milking machines & separators. Conditions affecting completeness of separation - keeping milk & cream.
	3 p.m./ 4 p.m.	Lecture by Cpl. NUTTALL P. - <u>"Hives &amp; Frames"</u> - Method of wiring frames & insertion of foundation wax. Do not use starters.- Supers, Half & full depth.- Use of half depth supers for surplus honey.
	6-30 /7-30 p.m.	Lecture by Lieut. HENNRICK J.O. - <u>"Tillage , Implements of Tillage"</u> Tillage - open - intertillage - Deep & shallow tillage - Main operations of tillage - Effects of tillage:- Improving physical condition of soil - moisture saving - hastening chemical action in soil. Deep tillage - Ploughing - Subsoiling. Ploughing: objects - depth of ploughing - depends on nature of soil & root system of crops to be grown - Subsoil limits.
18-2-19	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./ 3 p.m.	Lecture by Sergt2 SKEWES N.L. - <u>"Manures &amp; Guanos:-"</u> Stable manure - composition - plant food value. Farmyard manure - poultry excreta - value as manure Don't use lime with manures as releases nitrogen as Ammonia.- Guanos - droppings of sea birds - rough composition - richer than domestic bird droppings. Fish Manure - whole fish - waste from whaling & fish works. Sewage - value - uses made of it in Victoria & Sth Australia - Best way of using excreta on farm.
	3 p.m./ 4 p.m.	Lecture by Sgt. SKEWES N.L. - <u>"Lime in Agriculture. Unit Values; Limestone - Slack lime - Quicklime - Method of applying lime to the soil - action on soil - necessary for bacteria &amp; releasing plant foods.</u> Unit values of fertilisers - how obtained



Date	Time.	
18-2-19	3 p.m. / 4 p.m.	Lecture by Sgt. SKEWES N.L. (contd) Man can get an idea of the value of mixed fertilisers - known <del>whether</del> getting value for money.
19-2-19	9 a.m. / 12 noon. 2 p.m. / 3 p.m.	Practical work in Artificers shops. Lecture by Lieut. HENRICK J.O. - " <u>Implement</u> s of Deep & <u>Shallow</u> Tillage. Rolling: Types of ploughs - Multiple ploughs in Australia - Labor & extensive agriculture-- Relative merits of mouldboard & disc - Depends on class of soil & cleanliness or otherwise of land. Subsoiling - where useful - where harmful - how done. <u>Shallow</u> Tillage - Harrows & cultivators - objects of harrowing & cultivating - Types:- Spike - Toothed - spring toothed - disc - where each gives best results. Compacting tillage - Rolling - uses of roller - crush clods - get quick even germination in dry sowing - compact loose soils - Harrow surface after rolling.
	3 p.m. / 4 p.m.	Lecture by Sergt. DOWDEN B.L. - " <u>Herd</u> Improvement" Necessity for improvement - Methods of increasing yield - feeding & management - selection & breeding - Variation - selection - testing hereditary powers - effects of crossing - dominant factors - factors which blend - selection of sire - essential qualities.
	6-30 / 7-30	Lecture by Sergt. RIDGE V.F. - " <u>Laying</u> out a Commercial Orchard" Simple methods of laying out - Square planting - Diagonal squares - Triangle system - arguments for & against - planting of quick growing trees as "Fillers" while permanent trees are growing. Distances apart of trees - Laying out trees by planting wire - by sighting into position - by ploughing - Difficulties of uneven ground - ways of overcoming. Double pegging - uses of planting board - depth of planting - how to plant.-
20-2-19	9 a.m. / 12 noon. 2 p.m. / 4 p.m.	Practical work in Artificers shops. Baths parade - RAMBURELLES.
21-2-19	9 a.m. / 12 noon. 2 p.m. / 3 p.m.	Practical work in Artificers shops. Lecture by Sergt. DOWDEN - " <u>Rearing</u> Dairy Heifers" Why necessary - Cost of rearing - Shelter - Bedding - Drafting - Foods & feeding - Essential Rules for success - Cleanliness - Regular times of feeding & regular quantities milk feed at correct temperature; When to take calf from Mother - When to feed - Substitutes for fat; Methods of dehorning & earmarking; When to wean - Troubles and remedies for scoures - ringworm - lice - black leg - lungworm.
	3 p.m. / 4 p.m.	Lecture by Sergt. RIDGE V.F. - " <u>Pruning</u> " Why practical experience necessary - Type of tree to aim at - Explanation of spur system & how different trees bear - Equipment required - Reasons for summer & winter <del>pruning</del> - Time to prune - how cuts should



Date.	Time.	
21-2-19.	3 p.m./ 4 p.m.	Lecture by Sgt. RIDGE V.F. - " <u>Pruning</u> " (contd) be made - Treatment of young trees.
	6-30 / 7-30	Lecture by Cpl. NUTTALL - " <u>Appliances - Apiculture</u> " Cost - description & use of - Where & how to obtain - Smoker - veil - hand cart - uncapping box - extractor tanks - honey boards - wax extractor - drone traps - bee escapes - hammer - chisel - saw & nails.
22-2-19.	9 a.m./12 noon.	Practical work in Artificers shops.
24-2-19.	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./ 3 p.m.	Lecture by Sgt. RIDGE V.F. - " <u>Green Manuring, Fallowing &amp; Rotation of Crops.</u> " Bare fallowing: objects of - Rest the soil, clean soil of weeds, plant foods become available - heavy soil in good condition - conserve moisture - Time to fallow - leave in rough state during winter. <u>Green Manuring</u> : reasons for - Benefits of - <u>Rotation of crops</u> : Advantages - 4 course Norfolk system - large area rotation - land sickness.
	3 p.m./ 4 p.m.	Lecture by Sergt. DOWDEN B.L. - " <u>Commercial Dairying</u> " Advantages & disadvantages of retailing milk - treatment of milk for city consumption - health of stock - cleanliness - supplying to cheese factory - Condensed milk - concentrated milk - cream for butter factory.
	6-30 / 7-30	Lecture by Cpl. KENNAN A.P. - " <u>Farm A/cs</u> " Reasons why system of accounts is necessary - Explanation of Cash Book - Journal - Ledger - Bills Payable - Bills Receivable.
25-2-19	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./ 3 p.m.	Lecture by Cpl. NUTTALL - " <u>Artificial Queen Rearing</u> " Necessary to re-queen hives every 18 months or 2 years - Breeding for own use - breeding for sale - markings of queens - rearing by use of drone - comb - Book on subject by E.M. Dolittle.
	3 p.m./ 4 p.m.	Lecture by Capt. RANDLE - " <u>Care of Horses</u> " Grooming objects of - conditions of skin - tools required & their use - method - essentials - Washing - clipping - bedding - Principles of feeding - watering - importance of grazing - Wind sucking - thin horses, causes of.
26-2-19	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./ 3 p.m.	Lecture by Sergt. RIDGE V.F. - " <u>Choosing Varieties</u> " Go to experienced men in district - How many to plant - large - number not advisable, with reasons - peaches & stone fruits - Government experts - Oranges - Lemons - Effect of growing different kinds of fruit for pollinisation - Reasons of failure of trees to bear - will if planted alone - Care of young trees - lime wash - Implements required for cultivation.
	3 p.m./ 3-30	Explanation by Lieut-Col. S. KING, D.S.O. of what the Governments of Australia are doing for men who are going on the land.



Date	Time.	
26-2-19	3-30/ 4 p.m.	Lecture by Sgt. DOWDEN B.L. - " <u>Irrigation</u> " Crops most suitable - cultivation & drainage - surface ditches - bore water - sprinklers & pipes - furrow system.
	6-30/7-30	Lecture by Cpl. KENNAN A.P. - " <u>Farm a/cs</u> " Number of simple entries put through Journal & ledger - at the end of period closing entries put through - profit & loss account & balance sheet prepared. Explanation of depreciation etc.
27-2-19	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./ 3 p.m.	Lecture by Sgt. RIDGE V.F. - " <u>Wheat</u> " Prospects of industry in Australia - How to increase yield - Suitable area - soil - climatic conditions - clearing - preparation of soil - selection of seed - grading seed - Pickling seed - why necessary - preparation of various pickles - methods of pickling.
	3 p.m./4p.m.	Lecture by Capt. W. RADDLE - " <u>Points of the Horse &amp; Selection</u> " Description of main points - good & bad points to notice when selecting.
28-2-19	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./4p.m.	Bath Parade - RAMBURELLES.
	6-30 /7-30	Lecture by Sgt. DOWDEN B.L. - " <u>Milk Testing</u> " Why necessary - history of testing - Explanation of Badcock tester - appliances - How to carry out milk test - cream test - skim - Milk test - care of glassware.
1-3-19	9 a.m./12noon.	Practical work in Artificers shops.

*J. H.akin*  
*of C & 3rd Aust. Divisional Agricultural*  
*School*



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THIRD DIVISIONAL AGRICULTURAL SCHOOL.

Third School - RAMBURES.

Syllabus for week ending 8.2.19:-

Date.	Time.	Particulars.
1919.		
Mon. 3rd. Feb.	9-30/Noon. 2-3 p.m. 3-4 p.m. 5-6 p.m.	Practical work - Artificers Shops. <u>Lieut. HENRICK:-</u> General Agriculture - "Origin of Soil". <u>Cpl. RIDGE:-</u> Introductory to Orchardring in AUSTRALIA. N i l.
Tue. 4th. Feb.	9-30/Noon. 2-3 p.m. 3-4 p.m. 5-6 p.m.	Practical work - Artificers Shops. <u>Lieut. HENRICK:-</u> Resources and classifica- tion of soil. <u>Sgt. DOWDEN:-</u> Dairying Industry in AUST- RALIA. <u>Cpl. NUTTALL:-</u> Apiculture in AUSTRALIA.
Wed. 5th. Feb.	9-30/Noon. 2-3 p.m. 3-4 pm.	Practical work - Artificers Shops. <u>Sgt. SKEWES:-</u> Pork as a side line. <u>Cpl. RIDGE:-</u> Climate, locality and soils for various fruits.
Thu. 6th. Feb.	9-30/Noon. 2-3 p.m. 3-4 p.m. 5-6 p.m.	Practical work - Artificers Shops. <u>Lieut. HENRICK:-</u> Moisture & temperature of soils. <u>Cpl. NUTTALL:-</u> Localities - Apiculture. <u>Sgt. DOWDEN:-</u> Dairying, Breeds - Dairy Type.
Fri. 7th. Feb.	9-30/Noon. 2-3 p.m. 3-4 p.m.	Practical work - Artificers Shops. <u>Sgt. SKEWES:-</u> Pork as a side line (cont). Bath Parade - RAMBURES.
Sat. 8th. Feb.		N i l.

*J. H. Henrick. Lt  
O.C. 3rd Div. Agric. School.*



## 3rd Australian Divisional Agricultural School

*Syllabus for*R A M B U R E S.

Second week of 1st Period; 3rd School - Feb. 10th/16th, 1919.

<u>Day &amp; Date.</u>	<u>Time.</u>	
<u>Monday</u> <u>10-2-19</u>	9 a.m./12 noon. 2 p.m./ 3 p.m. 3 p.m./ 4 p.m. 6-30 /7-30	Practical work in Artificers shops. Lecture by Cpl. Ridge - "Windbreaks Preparation of land for Orchard" Lecture by Sgt. Dowden - "Dairy Farm Buildings - Care and Management of Dairy Stock" Lecture by Lieut. Henrick - "Organ- isms, Texture & Structure of Soils"
<u>Tuesday</u> <u>11-2-19</u>	9 a.m./12 noon 2 p.m./ 3 p.m. 3 p.m./ 4 p.m.	Practical work in Artificers shops. Lecture by Sgt. Skewes - " <del>Fertiliser</del> - Food Cycle" Lecture by Cpl. Nuttall - "Bees & Their Management"
<u>Wednesday</u> <u>12-2-19</u>	9 a.m./12 noon 2 p.m./ 3 p.m. 3 p.m./ 4 p.m. 6-30 /7-30	Practical work in Artificers shops. Lecture by Sergt. Skewes - "Phosphor- ic Acid, Potash & Nitrogen" Lecture by Sgt. Dowden - "Dairying, Foods & Feeding" Lecture by Lieut. Henrick - "Action of Soil on Salts - Fertility & Sterility in Soils"
<u>Thursday</u> <u>13-2-19</u>	9 a.m./12 noon 2 p.m./ 3 p.m. 3 p.m./ 4 p.m.	Practical work in Artificers shops. Lecture by Lieut. Henrick - Tillage - Implements of Tillage" Lecture by Sgt. Skewes - "Bonedust"
<u>Friday</u> <u>14-2-19</u>	9 a.m./12 noon. 2 p.m./ 4 p.m. 6-30 /7-30	Practical work in Artificers shops. Bathing Parade. Lecture by Cpl. Ridge - "Propagation of Nursery stock"
<u>Saturday</u> <u>15-2-19</u>	9 a.m./12 noon. 2 pm. / 4 p.m.	Practical work in Artificers shops. Lecture by Lieut. Willis - 3rd Aust: Pioneer Bn. - "Internal Combustion Engines"

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3rd Australian Division Agricultural SchoolR A M B U R E S.Syllabus of work for period ending 23rd February, 1919.

<u>Date.</u>	<u>Time.</u>	<u>R e m a r k s.</u>
<u>Monday.</u> 17-2-19	9 a.m./ 12 noon. 2 p.m./ 3 p.m. 3 p.m./ 4 p.m. 6-30 /7-30	Practical work in Artificers shops. Lecture by Sgt. DOWDEN B.L. - " <u>Dairy Hygiene</u> " Lecture by Cpl. NUTTALL P. - " <u>Hives &amp; Frames</u> " Lecture by Lieut HENRICK, J.O. - " <u>Tillage. Implements of Tillage</u> "
<u>Tuesday.</u> 18-2-19	9 a.m./ 12 noon. 2 p.m./ 3 p.m. 3 p.m./ 4 p.m.	Practical work in Artificers shops. Lecture by Sgt. SKEWES, N.L. - " <u>Manures!</u> " Lecture by Sgt. SKEWES N.L. - " <u>Lime in Agriculture.</u> "
<u>Wednesday</u> 19-2-19.	9 a.m./ 12 noon. 2 p.m./ 3 p.m. 3 p.m./ 4 p.m. 6-30 /7-30	Practical work in Artificers shops. Lecture by Lieut. HENRICK J.O. - " <u>Implements of Tillage - Rolling</u> " Lecture by Sgt. DOWDEN - " <u>Herd Improvement</u> " Lecture by Sgt. REDGE V.F. - " <u>Laying out Commercial Orchard</u> "
<u>Thursday</u> 20-2-19.	-	Bath.
<u>Friday</u> 21-2-19.	9 a.m./ 12 noon. 2 p.m./ 3 p.m. 3 p.m./ 4 p.m. 6-30 /7-30	Practical work in Artificers shops. Lecture by Cpl. NUTTALL - " <u>Apiculture</u> " Lecture by Sgt. DOWDEN - " <u>Rearing Dairy Heifers</u> " Lecture by Sgt. RIDGE - " <u>Pruning</u> "
<u>Saturday</u> 22-2-19.	9 a.m./ 12 noon.	Practical work in Artificers shops.



3rd Australian Division Agricultural SchoolR A M B U R E S.Syllabus of work for period ending 1st March, 1919.

<u>D a t e.</u>	<u>T i m e.</u>	
24-2-19	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./ 3 p.m.	Lecture by Sgt. RIDGE - <u>Green Manuring &amp; Rotation of Crops.</u>
	3 p.m./ 4 p.m.	Lecture by Sgt. DOWDEN - <u>"Commercial Dairying"</u>
	6-30 /7-30	Lecture by Cpl. KENNAN - <u>"Farm Book-keeping"</u>
25-2-19	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./ 3 p.m.	Lecture by Cpl. RUTTALL - <u>"Apiculture Artificial Queen rearing"</u>
	3 p.m./ 4 p.m.	Lecture by Capt. RANDLE - <u>"Care of Horses"</u>
26-2-19	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./ 3 p.m.	Lecture by Sgt. RIDGE - <u>"Selection of Varieties Care &amp; cultivation young Orchard."</u>
	3 p.m./ 4 p.m.	Lecture by Sgt. DOWDEN - <u>"Irrigation &amp; Drainage"</u>
	6-30 /7-30	Lecture by Cpl. KENNAN - <u>"Farm Book-keeping"</u>
27-2-19.	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./ 3 p.m.	Lecture by Sgt. RIDGE - <u>"Wheat No. 1"</u>
	3 p.m./ 4 p.m.	Lecture by Capt. RANDLE - <u>"Points in Selection of Horses"</u>
28-2-19	9 a.m./12 noon.	Practical work in Artificers shops.
	2 p.m./ 4 p.m.	Bath Parade.
	6-30 / 7-30	Lecture by Sgt. DOWDEN - <u>"Milk &amp; Cream Testing"</u>
1-3-19.		