

The development of a field detector of arsenical smokes continued.

Physiological tests were carried out on thirty military personnel as follows:

Determination of service-time of impregnated clothing treated with a new chemical.

Batch testing of facepiece disinfectants.

The following schedule of production was maintained at the Container Assembly Plant during the week:

Containers	1,800 per diem
Assembly to facepieces and shipping	2,000 per diem

(d) Signal Engineering, etc.

- (i) Suppression tests carried out on two of the I.T. Mk. III Tanks, at Angus Shops proved satisfactory over the band 1 - 10 megacycles. This will be satisfactory for Tanks utilized in Training. It is intended to clear the tanks over the band 1 - 20 megacycles for operation in the field.
- (ii) General Staff representatives, present when stowage arrangements for the Cruiser Tank M3 were inspected, were in agreement on all points concerning wireless stowage, with the exception that the "gunner" could not utilize headphones conveniently while in the "action" position.
- (iii) One officer attended a conference dealing with Tank Suppressional Methods held at U.S. Signals Lab., Fort Monmouth, N.J.
- (iv) It is anticipated that 10 hand-made models of the Wireless Set No. 19 Mk. II will be available for test 1st December, 1941.
- (v) Three officers and six other ranks, graduates from S.A.A.D. (Wireless Wing), Halifax, joined the Army (R.D.F.) group employed at National Research Council.

25. MECHANIZATION

(a) Design

- (i) Scout Car - Pilot model demonstrated at Oshawa, 24th August.
- (ii) Recce. Car - The first pilot model equipped with a 270 cu. in. engine, which is now standard for this vehicle, is undergoing performance tests. The tests indicate that the present cooling system will be satisfactory. Initial stowage arrangements are being made.
- (iii) Armoured Car - Pilot chassis is still undergoing cooling tests in laboratory. Pilot wood mock-up hull has been completed and is ready for stowage. Browning machine gun adapters are being completed.
- (iv) Heavy Utility Car - Alterations requested at the last inspection have been completed and pilot body inspected at Oshawa, 24th August. Tooling for production of basic body and chassis has been started.

Arrangements are being made with the manufacturer to utilize this vehicle also as a wireless vehicle and as a light ambulance.