OPERATIONS RECORD BOOK

APPENDIX

R.A.F. FORM 541.

DETAIL OF WORK CARRIED OUT

BY 420 (RCAF) SQUADRON.

SECRET

PAGE NO. 2.

(7472) Wt. 24229/1650. 180m. 8/40. P.I. 51-7751.

FOR THE MONTH OF JUNE, 1942

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME UP	TIME DOWN	DETAILS OF SORTIE OR FLIGHT	REFERENCES.
1/2 June	Hampden 384 M	Sgt. Croft, W.B. F/S. Gurd, R.E.E. F/S. Tuill, J.D. Sgt. Jones, W.J.	Bombing	23.37	04.55	Alternative, TOWN OF ESSEN, attacked at 01.30 hours, 11,000 feet, 9/10ths cloud. Identified target by fires after pin-pointing on Rhine. Bombs thought to have fallen in industrial area. Pilot's report: Going to target - no interference. Coming back we struck two defended areas, one on the Coast and the other inland. Heavy and light flak over target, few searchlights. Many fires at target.	
2/3 June	Hampden 422 J	P/O. Andersen, L.S. Sgt. Fogg, E. F/S. Marsh, F.P. Sgt. Brown, S.	Bombing	23.41	04.14	Main target, ESSEN "B", attacked. Time 01.42 hours. Height 11,500 feet. Bombs 360 x 4 lb. incendiary and 2 x 500 Wing Bombs. Unable to pin-point owing to haze but believed it was target on approximate ETA and flares were seen. Pilot's report: Could not get a safe height with Wing Bombs so jettisoned them safe.	
2/3 June	Hampden 202 K	F/S. Cybulski, S.J. Sgt. Firminger, L. Sgt. Mann, L.E. Sgt. Nidelman, B.D.	Bombing	23.29	04.35	Main target, ESSEN "B", attacked. Time 01.40 hours. Height 12,000 feet. Bombs 360 x 4 lb. incendiary and 2x500 wing bombs estimated to have fallen in South part of town. Target not illuminated by white flares which were useful as a positionary point. Weather - no cloud, very hazy. visibility good.	
2/3 June	Hampden 4086 H	Sgt. Croft, W.B. F/S. Gurd, R.E.E. F/S. Tuill, J.D. Sgt. Jones, W.J.	Bombing	23.35	05.11	Main target, ESSEN "B", attacked. Time 0200 hours. Height 10,000 feet. Bombs, 360 x 4 lb. incendiary and 2 x 500 lb. wing bombs believed to have fallen in South part of town, but accurate pin-pointing impossible due to haze. Bomb bursts not seen but scattered fires seen over town.	
2/3 June	Hampden 185 A	P/O. Adilman, B.M. P/O. Moody, A.H. Sgt. Gault, C. Sgt. Flegar, W.W.	Bombing	23.27	02.35	No target attacked. Aircraft returned early with engine (Port) trouble - excess of oil temperature (100°) and oil pressure. 2 x 500 lb. bombs jettisoned safe in sea in position 52°15' N, 03°50'E.	
2/3 June	Hampden 267 V	Sgt. Johnstone, A.T. Sgt. Law, H.N. Sgt. Tilling, C. Sgt. Price, J.J.	Bombing	23.28	01.07	No target attacked. Aircraft returned early with engine trouble from position 52°37'N, 04° 54' E., and 2 x 500 lb. wing bombs jettisoned safe at this point. 360 x 4 lb. incendiaries brought back to base.	
2/3 June	Hampden 1257 C	F/S. Kaufman, W.J. F/S. Stewart, R.R. Sgt. Greenaway, A.J. Sgt. Earl, W.H.	Bombing	23.39	00.40	No target attacked. Aircraft returned early to base - inter-communication u/s. Bombs, 360 x 4 lb. incendiary and 2 x 500 lb. wing bombs brought back to base.	
2/3 June	Hampden 390 Z	Sgt. Ellis, G.H. Sgt. Waddell, H.G. Sgt. Waddington, JH Sgt. Beresford, G.J.	Mining	22.59	05.02	Task successfully carried out. Parachute not seen to open. Vegetable seen to strike water. 8 bundles P.46 nickels dropped. No cloud, sea haze.	
2/3 June	Hampden 132 U	Sgt. Craton, J.D. Sgt. Henry, A.M. Sgt. Copeland, H.R. Sgt. Cassill, W.B.	Mining	22.54	05.06	Task successfully carried out. Parachute seen to open and vegetable strike water. 3 bundles P.46 nickels dropped. Visibility 4 to 6 miles, sea haze. Front gunner fired at flak ships and at searchlights at western end of Isle de Groix.	

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Date	Aircraft Type & Number	Crew	Duty	Time Up	Time Down	Details of Sortie or Flight	References.
2/3 June	Hampden 258 W	Sgt. Kennedy, W.W. Sgt. May, J.W. Sgt. Trendell, E.L. Sgt. Goldstone, J.P.	Mining	22.51	23.24	Aircraft returned to base after being airborne only to position approximately Bottesford	
2/3 June	Hampden 260 O	Sgt. Harrison, E. (RAF) Sgt. Gething, J.S. (RAF) Sgt. Nall, L.C. (RAF - PSW) Sgt. Laing, G.J. (RAF)	Mining			Aircraft failed to return, no message received.	
3/4 June	Hampden 202 K	F/S. Hynam, C.B. Sgt. Grant, N. F/S. Hecker, E.L. Sgt. Wilkinson, R.G.	Bombing	2300	2331	Target, BREMEN "A", not attacked. Aircraft would not climb. Pilot crossed coast and jettisoned bombs at position 53°09' N. 00° 05' E. Incendiaries ignited, 2 x 500 lb. wing bombs dropped "safe" at 2317 hours.	
3/4 June	Hampden 422 J	Sgt. Johnstone, A.T. Sgt. Law, H.N. Sgt. Tilling, G. Sgt. Price, J.J.	BOMBING	2307	0212	Target, BREMEN "A", not attacked. Returned from 53°00'N. 04°20'E. 2 x 500 lb. wing bombs jettisoned safe in Wash. 360 x 4 lb. incendiary brought back to Base. Engine continued to overheat, temperature 250°, and aircraft could not maintain height over 9,500 feet.	
3/4 June	Hampden 5332 T	Sgt. Hudson, J. Sgt. Smith, T.E. Sgt. Crothers, T.E. Sgt. Judge, D.W.	Mining "Beaches"	2324	0542	1 Assembly 22 vegetable dropped in allotted position from 1,000 feet. Time 02.32 hours. Parachute was seen to open and vegetable to enter the water. Pilot's report: Arrived Herbeubiere and pin pointed. Starboard motor was mis-firing, therefore did not descend below 1,000 feet to drop vegetable. Navigation excellent.	
3/4 June	Hampden 485 A	Sgt. Townsend, P.E. Sgt. Gauthier, JAV F/S. Bull, P.E. Sgt. Hollowell, RH	Gardening "Beaches"	2328	0705	No target attacked. Mines jettisoned "safe" 47°23'N. 03°03'W. at 04.30 hours from 600 feet. Dropped 4 bundles F.39 nickels at Guingamp.	
4/5 June	Hampden 5332 T	Sgt. Wilde, C.G. Sgt. Bond, A.D. Sgt. Crothers, T.E. Sgt. Pass, J.	Bombing	2237	0323	No target attacked owing to poorvisibility due to thick haze up to 10,000 ft. in target area. On way out 2 x 250 lb. bombs jettisoned "safe". 6 x 250 bombs brought back to base.	
4/5 June	Hampden 258 W	Sgt. Kennedy, W.W. Sgt. May, J.W. Sgt. Trendell, E.L. Sgt. Goldstone, J.P.	Bombing	2244	0346	Target, Docks and Shipping at DIEPPE, not attacked - visibility nil. Haze and too dark to identify. 8 x 250 lb. bombs brought back to base.	
4/5 June	Hampden 422 J	Sgt. Graton, J.D. Sgt. Henery, A.M. Sgt. Gopeland, H.R. Sgt. Council, W.R.	Bombing	2233	0250	Target, Docks and Shipping at DIEPPE, not attacked owing to poor visibility, which made ground identification impossible. 4 x 250 lb. bombs jettisoned "safe" in sea on return, due to engine trouble. 4 x 250 lb. bombs brought back to base.	

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(7473) Wt. 24229/1650. 180m. 8/40. P.I. 51-7781.

FOR THE MONTH OF JUNE, 19 42.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME UP	TIME DOWN	DETAILS OF SORTIE OR FLIGHT	REFERENCES.
5/6 June	Hampden 132 U	F/L. Smith, L.K. Sgt. Wrakes, J Sgt. Wills, H.F.R.J. Sgt. Howard, J.A.	Bombing	23.00	02.25	Target, ESSEN "B", not attacked on account of engine trouble. 2 x 500 lb. wing bombs jettisoned safe in sea, 32 x 30 lb. incendiary brought back to base. Returned from Callantsoo, Dutch coast.	
5/6 June	Hampden 1257 C	F/S. Cybulski, S.J. Sgt. Firsinger, L. Sgt. Mann, L.R. P/O. Sullivan	Bombing	23.05	04.35	Alternative target, TOWN OF ESSEN, attacked. Height 12,000 feet. Heading 180°M. Target identified on D.R. position and River Rhine. Bomb load 2 x 500 wing bombs dropped on believed Bergen-Alkmaar aerodrome because of engines over-heating, 32 x 30 lb. incendiaries dropped over target area. Pilot's report: Numerous cones were seen in target area with heavy flak bursting in apex. Few searchlights in the presumed belt north of Essen.	
5/6 June	Hampden 7865 L	Sgt. Reid, I.M. Sgt. Grabham, A.J. Sgt. Waddington, JN Sgt. Dunn, O.J.	Mining Nectarine I	2304	02.47	One assembly 22 vegetable planted in allotted position. Height 700 feet. Time 00.50 hours. Heading 03.10. Parachute seen to open and vegetable to strike water. Visibility dark - no cloud - sea haze.	
5/6 June	Hampden 5332 T	Sgt. Hudson, J. Sgt. Smith, T.E. Sgt. Moritz, F.J. Sgt. Judge, D.H.	Mining Nectarine I	23.01	02.53	Vegetable Assembly 1 set 5 planted in allotted position. Height 500 feet. Time 01.01 hours. Heading 340°M. Parachute seen to open and vegetable to strike water. Visibility 5 miles - dark - no cloud - very hazy.	
5/6 June	Hampden 384 M	Sgt. Hannah, T.J. Sgt. Chapman, W.J. F/S. Bull, P.E. Sgt. Thompson, J.A.	Mining Nectarine I	23.03	03.26	One vegetable assembly 22 planted in allotted position. Height 600 feet. Time 01.25 hours. Heading 020°. Parachute seen to open and vegetable to strike water. Visibility 5/7 miles - dark - no cloud - very hazy.	
6/7 June	Hampden 258 W	F/S. Maitland, W.J. Sgt. Garrett, E.W. P/O. Danes, A.E. P/O. Durocher, J.E.	Bombing	23.16	04.30	Main target, ESSEN "A", attacked. Time 01.25 hours. Height 11,000 feet. Bombs 360 x 4 lb. incendiary and 2 x 500 wing bombs released and seen to burst and cause fires in target area. Target clearly identified with help of white flares and in good visibility with no cloud.	
6/7 June	Hampden 267 V	P/O. Adilman, B.M. P/O. Moody, A.H. Sgt. Gault, C. Sgt. Earl, W.H.	Bombing	23.14	04.26	Main target, ESSEN "A", attacked. Height 12,000 feet. Time 01.30 hours. 360 x 4 lb. incendiary and 2 x 500 lb. wing bombs seen to fall in target area. No results observed. Target clearly identified in good visibility with no cloud. Flares very useful for lighting up target although we reached target before flares were released.	
6/7 June	Hampden 422 J	F/S. Hyman, G.S. Sgt. Grant, N. F/S. Hooker, R.L. Sgt. Morrow, G.C.	Bombing	23.25	03.50	Main target, ESSEN "A", attacked. Time 01.40 hours. Height 13,500 feet. 360 x 4 lb. incendiary and 2 x 500 lb. wing bombs seen to fall on east side of town and incendiaries seen to light. Visibility good and target was identified by pin-points and flares, which were useful for guiding us to target and illuminating it.	

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Date	Aircraft Type & Number	Crew	Duty	Time Up	Time Down	Details of Sortie or Flight	References.
6/7 June	Hampden 1257 C	Sgt. Kennedy Sgt. May Sgt. Flager Sgt. Goldstone	Bombing	23.23	03.50	Main target, ESSEN "A", attacked. Time 01.15 hours. Height 12,000 feet. 360 x 4 lb. incendiary and 2 x 500 wing bombs seen to fall in Dock area, bursts clearly observed and incendiaries seen to burn. Visibility good, no cloud and target was easily identified. Flares very effective in illuminating and guiding to target area.	
6/7 June	Hampden 5332 T	Sgt. Wilde Sgt. Bond Sgt. Crothers Sgt. Harris	Bombing	23.21	04.38	Main target, ESSEN "A", attacked. Time 01.40 hours. Height 13,000 feet. 360 x 4 lb. incendiaries and 2 x 500 lb. wing bombs seen to burst well in target area. No cloud, visibility fairly good and target was clearly identified. Flares very effective as guides to target which was well illuminated. Fires well distributed throughout target area.	
6/7 June	Hampden 4086 H	Sgt. Townsend Sgt. Gauthier Sgt. Trendell Sgt. Hollowell	Bombing	23.18	04.56	Alternative, TOWN OF ESSEN, attacked. Time 02.00 hours. Height 14,000 feet. 360 x 4 lb. incendiaries dropped in town on edge of large fire and observed to start fires. One large fire seemed to spread over town with a thick brownish-black smoke rising to approximately 5,000 feet. Main target not attacked because it appeared to be well alight. 2 x 500 lb. wing bombs jettisoned safe in position 53°25' N. 02°25'E. at 00.37 hours owing to starboard engine overheating and preventing aircraft from gaining height.	
6/7 June	Hampden 786 L	Sgt. Croft F/S. Gurd F/S. Tuill Sgt. Jones	Bombing	23.29	04.40	Main target, ESSEN "A", attacked. Time 01.40 hours. Height 11,000 feet. 360 x 4 lb. incendiary and 2 x 500 lb. wing bombs estimated in target area. Bursts observed and large fire started when we left. Visibility very good and target was clearly identified by flares which were very effective for guiding us to target and for illuminating it.	
8/9 June	Hampden 422 J	Sgt. Hudson Sgt. Smith F/S. Tuill Sgt. Judge	Bombing	23.10	03.44	Target allotted, ESSEN "F". No target attacked. Aircraft returned early. Furthest point reached estimated Dutch coast North of Ymuiden, but could not pin-point exact position and captain decided to return.	
8/9 June	Hampden 228 P	Sgt. Kennedy Sgt. May Sgt. Flager Sgt. Watt	Bombing	23.09	04.26	Alternative, TOWN OF ESSEN, attacked with 360 x 4 lb. incendiaries. Height 12,000 feet. Time 01.16 hours Heading 315°. Last resort, any built up area in Germany, attacked with 2 x 500 lb. wing bombs on outskirts of Hamborn. Height 10,000 feet. Time 00.47 hours. Heading 128°. Reason for not attacking primary cones of searchlights prevented run-up from pin-points. Bursts of incendiaries seen and fires observed spreading. Defence of main target very intense, entirely circled by cones of searchlights.	

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(7472) Wt. 24229/1650. 180m. 8/40. P.I. 51-7751.

FOR THE MONTH OF JUNE, 19 42

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME UP	TIME DOWN	DETAILS OF SORTIE OR FLIGHT	REFERENCES.
8/9 June	Hampden 267 V	Sgt. Craton Sgt. Henry Sgt. Morris Sgt. Couzill	Bombing	23.11	04.45	Alternative, TOWN OF ESSEN attacked, with 2 x 500 lb wing bombs and 360 x 4 lb. incendiaries (part of one S.B.C. hung up). Height 13,000 feet. Time 01.12 hours. Heading 240°. Target identified by pin-point on river and circle of flares(the latter being an excellent guide and confirmed position). The target was in bomb sights when bombs released but owing to amount of flak bombs were not seen to burst. Some small fires observed on leaving target.	
8/9 June	Hampden 258 V	Sgt. Townsend Sgt. Gauthier Sgt. Trendell Sgt. Hollowell	Bombing	23.06	04.42	Alternative, TOWN OF ESSEN, attacked with 2 x 500 lb. and 360 x 4 lb. incendiaries. Height 14,000 feet. Time 01.23 Heading 180°. Reason for not attacking primary unable to make visual pin-point within town. Target identified by D.R. and confirmed by flare party due zero hour. Bombs believed to have fallen north of aiming point. Fires seen, spreading in size.	
8/9 June	Hampden 136 N	Sgt. Reid I M (RCAF - killed) Sgt. Grabham A J (RAAF - killed) Sgt. Copeland H R (RCAF) Sgt. Bunn C. J. (RAF)				Aircraft missing. No signals received.	
17/18 June	Hampden 258 V	Sgt. Townsend Sgt. Gauthier Sgt. Trendell Sgt. Hollowell	Mining Beach	22.17	01.33	Aircraft returned early and brought 1 vegetable assembly 22 back to base. Both engine driven generators failed. Aircraft reached point approximately 15 miles before Chesil Beach and returned to base. 2 star cartridge fired to douse searchlights East of Yeovil.	
17/18 June	Hampden 228 P	F/S. Hyman Sgt. Grant F/S. Hooker Sgt. Gagan	Mining Beach	22.14	05.15	One vegetable Assembly 1 set 3 dropped in allotted position. Height 800 feet. Time 01.46 hours. Heading 260°. Visibility fair. Thick cloud 4000 feet and thick haze almost down to sea. Rear gunner saw parachute open and vegetable enter water. 8 bundles P.61 nickels dropped. Flares dropped by aircraft on town of St. Nazaire blinded us - could not see coast.	
17/18 June	Hampden 267 V	Sgt. Johnstone Sgt. Saw Sgt. Tilling Sgt. Price	Mining Beach	22.09	04.43	One vegetable assembly 2 brought back to base as failed to find any pin-point on coast owing to low cloud. Visibility dark, 8/10th cloud 1500 feet, top 5000 feet. 8 bundles P.61 nickel dropped over PORTIVY.	
17/18 June	Hampden 1314 S	P/O. Burt P/O. Pennington Sgt. Harrington Sgt. Waddington	Mining Beach	22.16	04.45	One vegetable assembly 2 brought back to base as no coastal pin-point could be found. Visibility - dark - 7/10th cloud with gaps - base 1500 feet. 8 bundles of nickel P.61 dropped over GUINCAMP.	

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Date	Aircraft Type & Number	Crew	Duty	Time Up	Time Down	Details of Sortie or Flight	References.
17/18 June	Hampden 185 A	F/S. Kaufman Sgt. Stewart Sgt. Greenaway Sgt. Wrytock	Mining Beaches	22.12	05.18	One vegetable assembly 1 set 11 brought back to base owing to technical failure. Visibility very poor 8 bundles F.61 nickels dropped 10 miles north of Lorient. Flares dropped by bombing aircraft made pinpointing more difficult. Jettison action failed.	
17/18 June	Hampden 4086 H	F/L. Jacobs F/O. McDougall Sgt. Murray Sgt. Wills	Mining Beaches	22.06	05.21	One vegetable assembly 22 planted in allotted position. Height 600 feet. Time 01.40 hours. Heading 140°M. Target identified by coastline in target area. Vegetable known to have released correctly but too dark to see it hit the water. 8 bundles of F.61 nickels, 2 of F.39 dropped in vicinity of PONTIVY.	
17/18 June	Hampden 132 U	F/S. Cybulski Sgt. Crawford Sgt. Mann F/O. Sullivan	Mining Beaches	22.07	05.40	One vegetalbe assembly 2 planted in allotted position. Height 600 feet. Time 01.33. Heading 326° M. Target identified by pin-pointing on St. Gildas Point. Vegetable ~~was seen to~~ release aircraft and parachute to open. 8 bundles F.61 nickel dropped in Pontivy area. The bombing of St. Nazaire was a great aid as it diverted attention of the guns and searchlights, which could have played upon the minelayers.	
17/18 June	Hampden 202 K	Sgt. Hannah Sgt. Chapman F/S. Ball Sgt. Grant	Mining Beaches	22.19	05.33	One vegetable assembly 22 planted successfully in allotted position. Height 600 feet. Time 01.44. Heading 350 °. Visibility 4/10th cloud with gaps, sea haze below. 8 bundles of F.61 nickels dropped at intervals from N. French coast.	
17/18 June	Hampden 5338 T	Sgt. Lundeen Sgt. Desjardins Sgt. Henderson Sgt. Morris	Mining Beaches	22.08	06.00	One vegetable assembly 22 brought back to base as unable to pinpoint. Cloud base below 5000 feet, visibility very poor. 8 bundles of Nickel F.61 dropped at Pontivy.	

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For the Month of JUNE, 19 42

Date	Aircraft Type & Number	Crew	Duty	Time Up	Time Down	Details of Sortie or Flight	References.
19/20 June	Hampden AE 401 Q	F/L. Jacobs, D.S. P/O. McDougall, T. Sgt. Murray, R.M. Sgt. Davidson, R. (Killed) RCAF	Bombing	23.29	05.04	Built up area believed OSNABRUCK attacked at 02.20 hours, 8,000 feet. Area covered by cloud which prevented identification of town or aiming point. Considered to have been OSNABRUCK as flares seen just before ETA. Fires seen to be burning after leaving. (360 x 4 lb. incendiary and 2 x 500 GP). Pilot's report: Hit by light flak in position 52° 35'N 04°20'E. approximately, on return journey. Two very accurate bursts causing severe wounds to rear gunner. Aircraft damaged seriously - height 4,000 feet. Flak bursts in rear gunners cock-pit and wings. Undercarriage and flaps unserviceable due to flak ship.	
19/20 June	Hampden 390 X	P/O. Rayne, R.N. Sgt. Timmis, S.N. Sgt. Axford, N.F. Sgt. Watt, A.D.F.	Bombing	00.15	04.00	No target attacked owing to late take-off. 2 x 250 GP jettisoned safe in sea. 360 x 4 lb. incendiaries brought back. Pilot's report: The aircraft in which we originally were detailed to fly failed to start. We got into the spare aircraft and took off very late. We were still 20 minutes from Emden when our allotted time over target was up so we had to turn back. It was disappointing, as we were on track the whole time.	
19/20 June	Hampden 1257 C	P/O. Maitland, W.J. Sgt. Garrett, W.E. P/O. Danes, A.E. Sgt. Earl, W.H.	Bombing	23.32	04.15	Town of EMDEN attacked at 01.42 hours, 10,000 feet, with 2 x 500 lb. GP and 360 x 4 lb. incendiaries. Bullart and some dock area could be seen through a break in cloud with the aid of recognition flares, and bombs were dropped somewhere in town.	
19/20 June	Hampden 1314 S	P/O. Burt, J.B. P/O. Pennington, J.S. Sgt. Harrington, J. Sgt. Dorland, P.	Bombing	23.44	02.42	Aircraft returned from position 53°28'N, 03°40'E. Port engine overheated (105°). 2 x 500 GP jettisoned safe at turning point 360 x 4 lb. incendiaries brought back.	
19/20 June	Hampden 225 N	P/O. Andersen, L.S. Sgt. Fogg, H. P/O. Marsh, F.P. P/O. Durocher, J.E.	Bombing	23.39	04.20	Town of EMDEN attacked at 01.43 hours, 11,000 feet. 10/10ths cloud over target. Believed to be the target due to the dummy fire W. of town seen through break in cloud, abundance of flares, plus searchlights and flak. 260 x 4 lb. incendiaries dropped on target. 2 x 500 lb. wing bombs jettisoned as aircraft would not climb over 8,000 feet. Pilot's report: We had a new aircraft and the meters were very hot. Lack of oxygen due to leaks. The generator went unserviceable, and consequently our lights and IFF packed up.	
19/20 June	Hampden 228 P	Sgt. Hannah, T.J. Sgt. Chapman, E.J. F/S. Ball, P.E. Sgt. Grant	Bombing	23.37	04.44	Last resort - Flak concentration in neighbourhood of EMDEN attacked at 01.42 hours, 14,000 feet. Unable to pinpoint owing to 10/10th cloud. No ground details or or fires seen.	
19/20 June	Hampden 4086 H	Sgt. Hudson, J. Sgt. Wreakes, J. Sgt. Judge, D.W. Sgt. Churchill, E.F.	Bombing	23.33	04.20	Town of EMDEN attacked at 01.35 hours, 12,000 feet. 360 x 4 lb. incendiaries. 2 x 500 lb. wing bombs jettisoned safe at 53°40'N 04°00'E. Could not maintain height and speed. Target identified by flares and flak. Did not see incendiaries land owing to 10/10th cloud, but saw glow on cloud.	

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Date	Aircraft Type & Number	Crew	Duty	Time Up	Time Down	Details of Sortie or Flight	References.
19/20 June	Hampden 5332 T	Sgt. Craton, J.D. Sgt. Henry, A.M. Sgt. Goudill, N.B. Sgt. Brown, S.	Bombing	23.40	04.29	Town of EMDEN attacked at 01.55 hours, 12,500 feet. 9/10th cloud over area. Identified by reflection of flares on Emden Estuary, incendiaries burning in dock area, and through small break in clouds. No ground detail visible but feel confident bombs fell in town area. One burst and incendiaries seen and several fires but impossible to pin-point. Dummies in position as expected. Flares ineffective due to cloud.	
19/20 June	Hampden 267 V	Sgt. Johnstone, [illegible] F/S. Law, H.N. Sgt. Tilling, G.E. Sgt. Price, J.J.	Bombing	23.23	04.55	Town of OSNABRUCK attacked at 02.00 hours, 10,000 feet, 360 x 4 lb. incendiaries and 2 x 500 GP. Little or no cloud. Thick haze. Fair visibility. Identified by flares dropped over a built up area. Bursts observed by rear gunner in this area. No fires seen.	
19/20 June	Hampden 132 U	F/S. Cybulski, S. Sgt. Crawford, W.S. Sgt. Mann, L.E. P/O. Sullivan, J.P.	Bombing	23.25	04.53	Aiming point "B", OSNABRUCK, attacked at 02.00 hours, 13,000 feet. No cloud. Visibility good due to flares dropped. Identified by [illegible] and recognition flares and pin-pointing on Weser River. Bombs fell approximately in centre of town. Streets and [illegible] area submerged. Many fires seen. Pilot's report: Approximately [illegible] of OSNABRUCK a bomber was shot down by pre[illegible]. Only about 5 bursts were seen, then aircraft was [illegible] fire and exploded on hitting ground. [illegible] was flying at about 16,000 feet and above 10/10ths cloud.	
19/20 June	Hampden 206 L Flying logged Hdqs AF255	F/L. Ferris, W.D. Sgt. Gatty, M.R. Sgt. Morris, R.S. Sgt. Collard, C.	Bombing	23.42	04.45	Town of EMDEN attacked at 01.47 hours, 10,000 feet, 10/10ths cloud. Identified coast line and sea flares. Aimed bombs (360 x 4 lb. incendiary and 2 x 500 lb. GP) at fire seen through break in clouds. Incendiaries seen shortly afterwards slightly to West of red fire. Flares and only partly effective due to cloud. Moderate to intense light flak from Frisians. Pilot's report: Damaged Ju.88. Rear gunner seriously but not believed dangerously injured. W/Operator slight injuries. 2 outer starboard tanks, main plane, starboard tyre, undercarriage main struts and cross member and all blades of propellers damaged.	
20/21 June	Hampden 330 Z	Sgt. White, C.C. P/O. Ring, G.A. Sgt. Smith, D.R. Sgt. Greenaway, A.J	Bombing	23.08	04.35	Alternative - TOWN OF EMDEN - attacked with 2 x 250 GP and 360 x 4 lb. incendiaries. Height 12,000 feet. Time 01.24 hours. Heading 070°. Good visibility. Primary not attacked as cloud obscured target area and prevented observation of ground detail. Emden identified by D.R. and flares. Bomb load estimated to have fallen in town but 9/10 cloud prevented pin-pointing.	
20/21 June	Hampden 185 A	Sgt. Ellis, G.H. Sgt. Haddell, E.G. - KIAP Sgt. Hickman, E.P. Sgt. Still, L.G. - KIAP	Bombing			Aircraft missing. No messages received.	

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OPERATIONS RECORD BOOK

APPENDIX

R.A.F. FORM 541.

DETAIL OF WORK CARRIED OUT

BY 420 (RCAF) SQUADRON

SECRET

PAGE NO. 6

(7472) Wt. 24229/1650. 180m. 8/40. P.I. 51-7791.

FOR THE MONTH OF JUNE, 1942

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME UP	TIME DOWN	DETAILS OF SORTIE OR FLIGHT	REFERENCES.
21/22 June	Hampden AT 225 N	Sgt. Lundeen, C.B. Sgt. Desjardins, R. Sgt. Grothers, T.E. Sgt. Owen, R.A.	Mining Artichokes	23.13	02.20	Area not reached. Aircraft returned from Bridgeport. Starboard generator failure and R/T partially unserviceable. 1 Assembly 22, 2 x 250 lb. bombs and nickels were brought back to base. Landed at Colehy.	
21/22 June	Hampden AE 132 U	F/S. Cybulski, S.J. Sgt. Crawford, W.S. Sgt. Mann, L.R. P/O. Sullivan	Mining Artichokes	23.17	05.16	One Assembly 22 vegetable successfully planted in allotted position. The parachute was seen to open. Time 02.15 hours. Height 700 feet. 2 x 250 lb. bombs were dropped on an aerodrome, position 48°48'N. 03°08'W. - lights went out. 8 bundles F.61 nickels were dropped over GUIDEAMP.	
21/22 June	Hampden P 1314 H	P/O. Cook, R.G. F/S. Bumstead, G.A. Sgt. Waddington, JN Sgt. Donahue, J.N.	Mining Artichokes	22.55	05.15	One Assembly 22 vegetable successfully planted in allotted position. The parachute was seen to open and the vegetable to strike the water. Time 02.18 hours. Height 700 feet. 2 x 250 lb. bombs dropped on an aerodrome 10 miles East of Lorient, but were not seen to burst owing to searchlight glare. Time 02.34 hours. Height 7,000 feet. 6 bundles F.61 nickels dropped over PONTIVY.	
21/22 June	Hampden L.4086 H	F/L. Ferris, W.D. F/S. Gattey, H.B. Sgt. Wills, F.E.J. Sgt. Howard, S.A.	Mining Artichokes	23.15	05.35	One vegetable Assembly 22 planted successfully in allotted position. Parachute seen to open. Height 500 feet. Time 02.32 hours. Wing bombs (2 x 250 lbs.) brought back to base. 8 bundles of F.61 nickels dropped over PONTIVY.	
21/22 June	Hampden AE 390 ß Z	P/O. Rayne, R.N. Sgt. Timmis, J.N. Sgt. Axford, N.F. Sgt. Watt, A.D.F.	Mining Artichokes	22.59	05.35	One assembly 1 set No. 10 vegetable successfully planted in allotted position. Vegetable seen to drop and parachute to open. Height 600 feet. Time 02.11 hours. 2 x 250 wing bombs brought back to base, no suitable opportunity for use arising. 6 bundles F.61 nickels dropped towards PONTIVY.	
21/22 June	Hampden P 5332 T	Sgt. Craton, J.D. Sgt. Henry, A.M. Sgt. Coucill, W.B. Sgt. Brown, S.	Mining Artichokes	23.16	05.41	One vegetable Assembly 22 planted successfully in allotted position. Parachute not seen to open owing to attention being distracted by a flak ship. Time 02.28 hours. Height 400 feet. 2 x 250 lb. wing bombs dropped near to flak ship lying off Eastern end of ISLE de GROIX. 8 bundles F.61 nickels dropped in ST. BRIEUX area.	
21/22 June	Hampden AE 267 V	Sgt. Croft, W.R. F/S. Gard, R.E.E. F/S. Tuill, L.D. Sgt. Jones, E.J.	Mining Artichokes	23.18	06.50	One vegetable Assembly 22 brought back to base - unable to locate target. 2 x 250 lb. bombs dropped on, or near, a flak ship. 8 bundles of F.61 nickels dropped over ST. BRIEUC area.	
21/22 June	Hampden AT 228 P	Sgt. Townsend, P.E. Sgt. Gauthier, JAV Sgt. Trendell, R.L. Sgt. Hollowell, E.M.	Mining Artichokes	23.00	05.57	Vegetable was brought back to base owing to Quiberon being missed and no time left to search. The wing bombs were also brought back to base. 8 bundles F.61 nickels were dropped over VANNES area.	

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Date	Aircraft Type & Number	Crew	Duty	Time Up	Time Down	Details of Sortie or Flight	References.
23/24 June	Hampden AE 378 R	Sgt. Kennedy, W.W. Sgt. Wreakes, J. Sgt. Goldstone, J.P. Sgt. Williams, J.M.	Mining Artichokes	23.23	02.40	Aircraft returned early (from Bridgeport). Starboard engine overheating and cutting. Vegetable and wing bombs brought back to base.	
23/24 June	Hampden AE 390 Z	Sgt. White, G.E. P/O. Ring, G.E. Sgt. Leakley, R. Sgt. Smyth, D.B.	Mining Artichokes	23.15	01.45	Aircraft returned early (from Harwell). Flames from Port engine - cause at present unknown. Vegetable brought back to base.	
23/24 June	Hampden AD 786 L	F/S. Riley, F.S.-DFM F/S. Germain, H. Sgt. Johnson, G.D. RAF Sgt. Little, E.C.	Mining Artichokes	23.25		Aircraft crashed at Booth by Pagnall at 00.05 hours - mine and bombs believed to have exploded. Pilot seriously injured - remainder of crew killed.	
23/24 June	Hampden P 1257 C	P/O. Burt, J.B. P/O. Pennington, S. Sgt. Harrington, JB Sgt. Dorland, J.R.	Mining Artichokes	23.30	05.40	Vegetable not planted - lost course after leaving English coast. 2 x 250 GP dropped on light flak and searchlight concentration. Height 8,000 feet. Time 02.20 hours. Heading 200° M. Nothing seen of bomb bursts owing to evasive action. One assembly 22 brought back to base. 8 bundles F.61 nickels dropped S.W. of MORLAIX.	
23/24 June	Hampden P 1314 S	P/O. Cock, R.G. F/S. Bastead, G.A. Sgt. Champion, F.J. Sgt. Donahue, J.	Mining Artichokes	23.13	05.36	One vegetable assembly 22 planted in allotted position. Height 500 feet. Time 02.20 hours. Heading 300°. Rear gunner saw parachute open. Target identified by pin-point from Point de Gavre. 2 x 250 GP brought back to base. 9 bundles of nickel F.61 dropped in Brest canal zone. Pilot's report: Mostly all heavy flak firing from Lorient even while flying at 500 feet. More than anticipated between Quiberon and Lorient.	
23/24 June	Hampden AT 132 U	F/L. Ferris, W.D. F/S. Gattey, E.R. Sgt. Wills, F.E.J. Sgt. Howard, J.A.	Mining Artichokes	23.28	06.06	One vegetable Assembly 22 planted 47°40'30" N. 03°24'W. Height 300 feet. Time 02.36. Vegetable not planted in allotted position owing to intense flak from mainland coast, Isle de Groix and from 5 flak ships between above. Parachute seen to open and vegetable to strike water. 8 bundles of F.22 nickels dropped over Pontivy. T39 fixed aerial shot away - heavy flak, Lanmion, 1000 feet. Wing bombs brought back to base.	
23/24 June	Hampden AT 228 P	Sgt. Townsend, FE. P/O. Grant, A.T. Sgt. Trendell, E. Sgt. Holloway, EM	Mining Artichokes	23.15	06.00	One vegetable assembly planted in allotted position. Height 750 feet. Time 02.38. Visibility slight mist. Parachute seen to open and bagetable to strike water. 1 x 250 GP aimed at stationary cargo ship approximately 4,000 tons. No observed results. 1 x 250 GP brought back to base. 8 bundles of F.61 nickel dropped at St. Brieuc and Treuret.	
23/24 June	Hampden	Sgt. Lundeen, G.B. Sgt. Desjardins, R. Sgt. Brown, S. Sgt. Henderson, D.A.	Mining Artichokes	23.24	06.58	Lost course after crossing French coast. One assembly 22 and 2 x 250 GP brought back. 8 bundles F.22 nickels dropped over Brittany	

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(7472) Wt. 24229/1650. 180m. 8/40. P.I. 51-7751.

FOR THE MONTH OF JUNE, 19 42

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME UP	TIME DOWN	DETAILS OF SORTIE OR FLIGHT	REFERENCES.
23/24 June	Hampden P 5332 T	Sgt. Wilde, G.A. Sgt. Bond, A.D. Sgt. Grothers, T.E. Sgt. Pass, J.	Mining Artichokes	23.20	04.50	One assembly 22 vegetable planted in allotted position. Height 1000 feet. Time 02.30 hours. Parachute seen to open and vegetable to strike water. 2 x 250 GP bombs brought back to base as no target was found. 8 bundles P.22 dropped over LOUDEAC and PONTIVY. Aircraft landed at Colerne.	
25/26 June	Hampden P 1257 C	W/C. Brodshaw, DAR Sgt. Gattey, H.R. F/O. Wayland, JAH F/L. Bishop, J.W.	Bombing	22.59	05.09	Last resort target attacked - believed Norden, North of BREMEN. Time 02.10 hours. Height 10,000 feet. Bombs, 2 x 500 GP and 360 x 4 lb. incendiaries seen to light up but no resultant fire seen. 2 x 500 lb. bombs jettisoned safe 10 miles East of Cromer owing to engine overheating, and therefore making it more possible to gain height. Did not bomb BREMEN as hoped Wilhelmshaven clear, but conditions similar.	
25/26 June	Hampden AT 228 P	F/L. Rynan, G.S. F/L. Grant, N. F/L. Hooker, E.L. Sgt. Gagan, B	Bombing	23.08	04.45	Target attacked - believed TOWN OF BREMEN. Time 01.42 hours. Height 11,500 feet. Identified from glow from fires under cloud, corresponding with ETA. Incendiaries seen and flashes.	
25/26 June	Hampden AE 202 K	F/L. Jeache, D.S. F/O. McDougall, T.R. Sgt. Skinner, A.J. Sgt. Berresford, G.V.	Bombing	23.05	~~04.45~~ 05.13	Target attacked - TOWN OF BREMEN. Time 01.40 hours. Height 12,500 feet. 2 x 500 lb. and 360 x 4 lb. incendiaries Fires seen burning on ETA. No target seen owing to cloud, No bursts seen, but glow from incendiaries below cloud.	
25/26 June	Hampden AT 225 N	Sgt. Creton, J.D. Sgt. Henry, A.A. Sgt. Goudill, W.R. Sgt. Harris, S.V	Bombing	23.14	05.37	Target attacked - TOWN OF BREMEN. Time 01.48 hours. Height 12,000 feet. Bombs 2 x 500 lbs. and 360 x 4 lb. incendiaries should have gone among glows seen under cloud. 3 or 4 glows seen under cloud coincided with ETA - believed town of Bremen.	
25/26 June	Hampden AE 267 V	Sgt. Johnstone, GD F/L. Law, H.N. Sgt. Tilling, S. Sgt. Price, J.J.	Bombing	23.15	05.15	Target attacked - TOWN OF BREMEN. Time 01.40 hours. Height 12,000 feet. Bombs, 2 x 500 lbs. and 360 x 4 lb. incendiaries, dropped on or near to large fires which illuminated clouds. Very large fire appeared to be burning in Town area.	
25/26 June	Hampden AE 422 J	F/O. Anderson, LS Sgt. Bugg, H. F/L. Marsh, P.D. F/O. Durocher, J.E.	Bombing	23.17	05.40	Target attacked - TOWN OF BREMEN. Time 01.47 hours. Height 11,00 feet. Bombs, 2 x 500 lbs. and 360 x 4 lb. incendiaries, believed to have fallen in S.W. part of town by location of fires. Target could only be identified by fires and amount of flak. Pilot's report: We were unable to get an accurate pinpoint, at any time during the trip due to 10/10ths cloud, but bombed on ETA, nearby fires and searchlights.	
25/26 June	Hampden AE390 Z	F/O. Rayne, R.N. Sgt. Timmis, J.E. Sgt. Axford, N.P. Sgt. Williams, JH	Bombing	23.06	05.57	Target attacked - believed TOWN OF BREMEN. Time 01.42 hours. Height 13,000 feet. Bombs, 2x500 lbs. and 360 x 4 lb. incendiaries. Bombs estimated to have fallen among glows. 2 flashes seen but could not be pinpointed.	

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25/26 June	Hampden L 4086 H	Sgt. Gruft, E.B. F/S. Gurd, R.E.E. F/S. Ewill, J.D. Sgt. Jones, W.J.	Bombing	23.10	05.20	Primary target, FOCKE-WULF FACTORY AT BREMEN, attacked. Time 01.47 hours. Height 10,000 feet. Bombs, 2 x 500 and 360 x 4 lb. incendiaries. Position of factory estimated in relation to river. Large red fire seen at this position among burning buildings. Own incendiaries slightly undershot but seen to turn red.	
25/26 June	Hampden 132 U	F/S. Cybulski, S.J. Sgt. Crawford, W.S. Sgt. Mann, L.R. P/O. Sullivan, J.P.	Bombing	23.07	05.23	Target attacked - TOWN OF BREMEN. Time 01.39 hours. Height 10,000 feet. Bombs, 2 x 500 GP and 360 x 4 lb. incendiary. Target identified by D.R. and fires and flak concentrations. A large red fire surrounded by numerous other little fires was our chosen target. Bombs fell somewhere in BREMEN. 2 x 500 lb. were seen to burst - incendiaries not seen to burn. Pilot's report: "Chased twice by unidentified enemy aircraft, just prior to target area and shortly afterwards. Successful in eluding fighter by evasive action.	
25/26 June	Hampden P 5332 T	Sgt. Hudson, J. Sgt. Smith, T.R. Sgt. Judge, D.W. Sgt. Pond, F.	Bombing	23.19	05.32	Target attacked - TOWN OF BREMEN. Time 01.45 hours. Height 10,000 feet. Bombs, 2 x 500 lb. and 360 x 4 lb. incendiaries, searchlights and flak some. No results seen owing to cloud.	
25/26 June	Hampden P 1314 S	Sgt. Hannah, T.J. Sgt. Chapman, W.J. F/S. Bull, P.R. Sgt. Thompson, S.A.	Bombing	23.16	06.16	Target attacked - TOWN OF BREMEN. Time 02.13 hours. Height 11,000 feet. Bombs 2 x 500 lb. and 360 x 4 lb. incendiaries. Bombed by D.R. and confirmed by flak. Did not see where bombs went but believe added to general confusion.	
25/26 June	Hampden AE 378 R	W.O. Pinney, R.F.V. Sgt. Fisher, G. Sgt. Mackay, J. Sgt. Parsons, H.H.	Bombing	23.11	05.35	Target attacked - TOWN OF BREMEN. Time 01.45 hours. Height 9,000 feet. Bombs, 2 x 500 lb. and 360 x 4 lb. incendiary dropped in vicinity of fires, which illuminated clouds. Several fairly large fires appeared to be burning in town. Exact position not pinpointed owing to cloud. Pilot's report: Owing to cloud conditions it was impossible to see details on ground in target area. Fighter activity was evident and two 110's were seen. One made an interception with us, but evasive action prevented it opening fire. A lot of flak was seen on route back but was not directed at us. The flak was mostly light up to 12,000 feet with a moderate amount of heavy.	
26/27 June	Hampden AT 228 P	Sgt. White, G.G. P/O. Ring, G.A. Sgt. Lashley, J.J. Sgt. Smyth, D.R.	Mining Inner Artichokes	22.57	05.43	Task unfulfilled as aircraft engaged by defences and the pinpoint obtained off Quiberon Peninsula lost whilst evasive action was being taken. One vegetable assembly 22 and 2 x 250 GP jettisoned safe in deep water from 2500 feet at 02.17 hours. Visibility slight haze, no cloud. 8 bundles P.22 nickels dropped en route across France.	

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Appendix

R.A.F. Form 541.

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SECRET

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(7472) Wt. 24229/1650. 180m. 8/40. P.I. 51-7751.

For the Month of JUNE, 19 42

Date	Aircraft Type & Number	Crew	Duty	Time Up	Time Down	Details of Sortie or Flight	References.
26/27 June	Hampden P 1314 S	Sgt. Kennedy, W.W. Sgt. May, J.W. Sgt. Goldstone, J.P. Sgt. Watt, A.D.F.	Mining Inner Artichokes	22.55	05.08	One vegetable assembly 22 planted in allotted position. Parachute seen to open and vegetable seen to strike water. Height 400 feet. Time 01.44 hours. No cloud, visibility 4-5 miles. Position identified from pinpoint obtained between Isle de Groix and Point Louis (both visual simultaneously). Wing bombs dropped on flak and searchlight batteries at base of peninsual at 01.53 hours, from 7000 feet - bomb bursts were seen and flak decreased. 8 bundles of nickel P.66 dropped in vicinity of Pontivy.	
26/27 June	Hampden AT 228 P	F/S. Kaufman, W.J. F/S. Stewart, R.R. F/S. Frost, W.J. Sgt. Greenaway, A.J.	Mining Inner Artichokes	22.56	05.12	One vegetable assembly 22 planted in allotted position - parachute seen to open and strike water. Height 500 feet. Time 01.46 hours. Good visibility. Position identified by pinpointing on the Pointe de Gavres. 2 x 250 GP brought back to base, as no suitable target was found. 8 bundles of nickel P.22 dropped in vicinity of Lorient at 01.35 hours.	
26/27 June	Hampden AE 225 N	F/O. Maitland, W.J. Sgt. Garrett, R.W. F/O. Dunes, R.A. Sgt. Earl, W.H.	Mining Inner Artichokes.	23.00	05.31	One vegetable assembly 22 planted in allotted position. Height 500 feet. Time 02.03 hours. Parachute seen to open and vegetable to strike water. Visibility good in target area - slight haze with no cloud. Position identified by pinpoint on Quiberon and Isle de Groix, and Pointe Louis plainly seen on run-up. Wing bombs returned to base as no target could be found. 9 bundles of nickel P.22 dropped at intervals en route.	
26/27 June	Hampden L.4006 H	Sgt. Lundeen, C.B. Sgt. Williams, Sgt. Brown, S. Sgt. Henderson, D.A.	Mining Inner Artichokes	22.59	06.13	One vegetable assembly 2 planted in allotted position. W/Operator saw parachute open and vegetable strike water. Height 800 feet. Time 02.42 hours. Position identified by pinpointing Quiberon and Ile de Groix. 2 x 250 GP brought back to base. 8 bundles of nickel P.66 dropped in vicinity of Pontivy.	

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