

# OPERATIONS RECORD BOOK

APPENDIX  
R.A.F.  
FORM 541

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

**SECRET**

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\*12345-25111 Wt. 2722-1155 728 1074 T.S. 200

FOR THE MONTH OF November, 1944.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
2.12.44.	Halifax NA185 'A'. Target:Hagen.	P. J.3746 P/O C.A. Chartier. And crew.		1721	0016	Bombing Load. 6 x 1000 lbs. M.C.(P.D. .025.) 3 x 1000 lbs. ANM 65 (P.D. .025). T: 2108.0 hrs. H: 18,000 ft. See Homing. NOTHING could be seen of ground detail, so homed on gee. Reflection of bomb bursts could be seen and were fairly well concentrated in one area. Considerable icing on way into target, at heights specified.	See Appendix 14
2.12.44.	Halifax NA680 'B'. Target:Hagen.	P. J.3740 P/O J.S. McGuire. And crew.		1715	2339	Bombing Load. Same as 'A'. T: 2107.6 hrs. H: 18,000 ft. No results. Target obscured by cloud. Ran into severe icing about 170 miles from French coast on the way to target. Landed at Downham Market, due to shortage of petrol and engine failure.	See Appendix 14
2.12.44.	Halifax NA181 'D'. Target:Hagen.	P. J.20559 P/O W.E. Mitchell. And crew.		1720	0025	Bombing Load. 7 x 1000 lbs. ANM59 (P.D. .025) 2 x 1000 lbs. ANM59 (P.D. .025) T: 2106.7 hrs. H: 18,000 ft. See Homing. Cloud very thick and ground detail completely obscured. Bombed on gee homing. Bomb and photo-flash reflections seemed to be well concentrated. Quite a number of vapour trails made by very fast aircraft seen forming at 25/30000ft. in circle around target area.	See Appendix 14
2.12.44.	Halifax M2907 'F'. Target:Hagen.	P. C.841 W/C P.W. Ball. And crew.		1718	0013	Bombing Load. Same as 'A'. T: 2105.3 hrs. H: 18,000 ft. Gee fix. Bombing was fairly well concentrated on a small area but some bomb bursts were seen badly scattered. No markers seen being released or burning. Picked up rime ice letting down through cloud on leaving target almost as far as the French coast. Not severe and gave no trouble. Numerous aircraft on both sides of us over the English channel, fired colours of the day. Many contrails of aircraft above us over target. Fighter flares seen over France.	See Appendix 14
2.12.44.	Halifax M2949 'G'. Target:Hagen.	P. J.29194 P/O G.K. Grier. And crew.		1722	0029	Bombing Load. Same as 'A'. T: 2109.5 hrs. H: 18,000 ft. Gee fix. Glare of photo flashes only thing seen.	See Appendix 14
2.12.44.	Halifax NR156 'H'. Target:Hagen.	P. J.22339 P/O A. Cruickshank. And crew.		1716	0030	Bombing Load. Same as 'A'. T: 2107.1 hrs. H: 18,000 ft. Gee fix and bomb bursts. No markers seen. Bombing badly scattered over an area of 3/4 miles in diameter. Bomb doors broken by falling bombs. Presumed to have fallen out between time of release and visual inspection leaving target area.	See Appendix 14
2.12.44.	Halifax NR219 'J'. Target:Hagen.	P. J.35420 P/O E.E. Millbank. and crew.		1723	0038	Bombing Load. 6 x 1000 lbs. ANM 59 (P.D. .025). 3 x 1000 lb. ANM 65 P.D. .025) T: 2106.0 hrs. H: 17,000 ft. See Homing. There seemed to be plenty of action right on the target. Good concentration of bomb bursts. Flak seemed to be coming up on either side during run up. 1 x 1000 lb. ANM59 P.D. .025 hung up over target. <i>Target hanging back</i>	See Appendix 14

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
2.12.44.	Halifax NR23 'L'. Target: Hagen.	P. J. 28542 P/O S.H. McFadden. And Crew.		1717	0036	Bombing Load. Same as 'A'. T: 2105.8 hrs. H: 18,000 ft. No marking seen. Several glows on cloud, which appeared in two separate concentrations.	See Appendix 14
2.12.44.	Halifax NR23 'L'. Target: Hagen.	P. J. 85609 P/O D.D. McNeill. And Crew.		1712	0019	Bombing Load. Same as 'J'. T: 2107.1 hrs. H: 17,200 ft. No marking seen over target. No results seen.	See Appendix 14
2.12.44.	Halifax LR766 'Q'. Target: Hagen.	P. J. 37121 P/O D.L. Stewart. And Crew.		1719	0034	Bombing Load. Same as 'J'. T: 2106.8 hrs. H: 17,300 ft. Target totally obscured; nothing seen. Glours of the day frequently seen from Sigsbee line to English coast when no flag apparent.	See Appendix 14
2.12.44.	Halifax LW552 'S'. Target: Hagen.	P. J. 88250 P/O T.A. Dornally. And Crew.		1708	2333	Bombing Load. Same as 'J'. T: 2102.0 hrs. H: 17,000 ft. Gee homing. Glow of numerous photo flashes seen, which seemed well concentrated. All other details obscured. 1 x 1000 lbs. (T.D. 023) Safe, 2048 023 223 hrs. 7,000 ft. Bomb booms damaged by falling bomb.	See Appendix 14
2.12.44.	Halifax NA611 'F'. Target: Hagen.	P. J. 87335 P/O D.O. McTaggart. And Crew.		1711	0020	Bombing Load. 6 x 1000 lbs. M.C. (T.D. 023). 2 x 1000 lbs. Bomb flashes through cloud. Starboard outer engine feathered on return. Cylinder head temperature dropped below minima. <del>From 2108 to 2117 hrs. 17,000 ft. 065,760 ft. 1A</del>	See Appendix 14
2.12.44.	Halifax NR72 'V'. Target: Hagen.	P. J. 18869 P/O Hms, J.W. And Crew.		1713	0031	Bombing Load. Same as 'J'. T: 2107.2 hrs. H: 17,000 ft. Gee fix. In heavy cloud all that was seen was glow of scattered reddish explosions. Extremely heavy icing in and out of target. From Sigsbee line to Orfordness, colours of the day were often seen being fired from aircraft. Numerous aircraft seen with navigation lights illuminated from English coast to 5050N - 0640 on track in.	See Appendix 14
2.12.44.	Halifax NR72 'V'. Target: Hagen.	P. J. 27555 P/O E. Strolawski. And Crew.		1714	0031	Bombing Load. Same as 'A'. T: 2107.0 hrs. H: 17,000 ft. Gee homing. Cloud completely obscured target and No I.F. were seen. Bombed to bomb at 16,000 ft, but bombed from top of cloud at 17,500 ft. Only flashes seen were photo flashes. All else obscured by cloud.	See Appendix 14
2.12.44.	Halifax NR72 'V'. Target: Hagen.	P. J. 8316 P/L J.E. McAllister. And Crew.		1712	0019	Bombing Load. Same as 'A'. T: 2105.0 hrs. H: 16,000 ft. Gee fix. Cloud obscured target, nothing else seen. One bomb went through bomb bay doors, presumably over target. Icing before target bay.	See Appendix 14
2.12.44.	Halifax NR72 'V'. Target: Hagen.	P. J. 26674 P/O L.H. Batches. And Crew.		1709	0019	Bombing Load. Same as 'A'. T: 2106.6 hrs. H: 17,000 ft. Gee homing. Red coloured explosions faintly seen through dense cloud. Course as ordered from 5240N - 0732E. To North Pickingham to refuel - to Base. 2000 hrs. two 4 engine aircraft near Sigsbee line seen with navigation lights on.	See Appendix 14

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\*1276-5211: Wt. 2250-1284: Form 812: T.S. 700  
\*1276-5211: Wt. 4400-1381: Form 1244: T.S. 700

FOR THE MONTH OF December, 1944.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
4.12.44.	Halifax NA135 'A'. Target: Karlsruhe.	P. J. 87460 P/O And Crew.	C.A. Chartier.	1651	2322	Bombing Load. 2 x 1000 lbs. G.P. AM 65 (Nose Inst.). T: 1935.2 hrs. H: 17,000 ft. Green T.L.'s seen cascading on run up, but had faded at time of bombing. The target appeared well ablaze. Bombing appeared somewhat scattered. Ined. fires numerous over a large area.	See Appendix 15
4.12.44.	Halifax NA134 'D'. Target: Karlsruhe.	P. E. 20559 P/O And Crew.	L.R. <del>Chartier</del> <i>Becher</i>	1652	2334	Bombing Load. Same as 'A'. T: 1936.0 hrs. H: 17,000 ft. No markers seen burning as ground was obscured by cloud glow on cloud was too widespread. One exceptionally large explosion observed at 1939 hrs. Few small flak holes in tail end of fuselage and fin and rudder. At approx. 4930N 0720E on homeward route 2025 hrs. 10,000 ft. on track to target. When flares were thought to be course homeward, but when again within 600 range found we were at 4930N 0720E then to 4930N 0700E then to 4954N 0747E and to base on track. Tracer fire directed downward at fighter flares on homeward route over France.	See Appendix 15
4.12.44.	Halifax ME2949 'B'. Target: Karlsruhe.	P. J. 26674 P/O And Crew.	L.R. Balohar.	1647	2346	Bombing Load. Same as 'A'. T: 1934.0 hrs. H: 17,000 ft. Red T.L.'s well concentrated, but bombing seemed short by approx. a mile. One very large fire, with particularly towering plume which lasted fully 15 minutes, lighting area of 10 mile radius.	See Appendix 15
4.12.44.	Halifax ME2949 'G'. Target: Karlsruhe.	P. J. 85060 P/O And Crew.	J.L. Britt.	1648	2324	Bombing Load. Same as 'A'. T: 1932.5 hrs. H: 17,000 ft. Centre of glow of T.L.'s red, and green vaguely visible through cloud. On run up T.L.'s red and green seen cascading. Fires developing rapidly, with numerous scattered incendiary fires. Green T.L. estimated to be very accurate. During run up and while over city three successive explosions were observed. After attack turning off target, western edge of city seen well on fire.	See Appendix 15
4.12.44.	Halifax HR156 'H'. Target: Karlsruhe.	P. J. 22339 P/O And Crew.	A. Cruickshank.	1716	2213	Bombing Load. 2 x 1000 lbs. G.P. AM 65 Nose Inst. 12 600's 90 x 4 Ined. 100 x 560's. T: 1935.7 hrs. H: 17,000 ft. Fires in built up area. Target area well lit by fires. One particularly large one billowing smoke. Landed at Woodbridge as brakes went w/s at 2245 hrs.	See Appendix 15
4.12.44.	Halifax NA124 'I'. Target: Karlsruhe.	P. J. 14816 P/L And Crew.	J.E. Northrup.	1644	2345	Bombing Load. Same as 'A'. T: 1935.3 hrs. H: 18,000 ft. Undershot centre of green T.L.'s by 1 second. There were few T.L.'s which appeared fairly well placed. Several fires were seen covering a large area.	See Appendix 15

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
4.12.44.	Halifax NR249 'J'. Target: Karlsruhe.	P. J. 35420 P/O E.R. Millbank. And Crew.		1643	2327	Bombing Load. Same as 'A'. T: 1934.6 hrs. H: 18,000 ft. Centre of glow of fires. Green T.L.'s were seen below cloud, but were obscured before bombing time was reached. Four or five large fires seen, with <del>add</del> small explosions. Dense smoke over target. Mid upper damaged own aerial when firing at enemy aircraft.	See Appendix 15+28
4.12.44.	Halifax NR247 'K'. Target: Karlsruhe.	P. J. 35609 P/O D.P. McNeill. And Crew.		1645	2339	Bombing Load. 2 x 1000 lbs. G.P. ANM 65 Nose Inst. 12 x 90 x 4 lbs. Inod. 10' 'X' Type. T: 1934.7 hrs. H: 18,000 ft. Centre of fires. There were only 1000 green T.L.'s and they were off approx. 1/4 mile to front of the centre of fires which were believed to be concentrated on the N/P and covered a large area. 162 x 4 lbs. and 18 x 4 lbs. 'X' type, hung up over target. <i>might hang up fuel</i>	See Appendix 15
4.12.44.	Halifax NR153 'L'. Target: Karlsruhe.	P. J. 23542 P/O S.H. McPadden. And Crew.		1649	2337	Bombing Load. Same as 'A'. T: 1935.0 hrs. H: 18,000 ft. Slightly under-shot green T.L.'s. Great many fires. Many bomb bursts, few green T.L.'s well concentrated. About 12 aircraft with navigation lights on over target. Colours of day shot off by several aircraft over Woodbridge on way home.	See Appendix 15
4.12.44.	Halifax NR243 'M'. Target: Karlsruhe.	P. J. 13316 P/L J.E. McAllister. And Crew.		1650	2334	Bombing Load. Same as 'K'. T: 1934.0 hrs. H: 18,000 ft. Green T.L.'s, centre of concentration. Evidently a smoke screen or low cloud over target. No red T.L.'s, green T.L.'s scattered. Aimed for centre of all green T.L.'s. 263 x 4 lbs. 27 x 4 lbs. 'X' type Inod. hung up over target. Aircraft above with navigation lights on. Heavy aircraft came in to attack, but did not fire. 493N 04303, 1337.5 hrs. 18,000 ft. Colours of day shot off over Woodbridge by several aircraft on way home.	See Appendix 15+24
4.12.44.	Halifax NR246 'P'. Target: Karlsruhe.	P. J. 26751 P/O J.R. McQuiston. And Crew.		1640	2352	Bombing Load. 2 x 1000 lbs. G.P. ANM 65 (Nose Inst.). T: 1934.3 hrs. H: 19,000 ft. T.L.G. fell well to port of the glow. Bombing seemed well concentrated on the markers. Fighter flares marked run into target. Route satisfactory.	See Appendix 19.
4.12.44.	Halifax NR52 'S'. Target: Karlsruhe.	P. J. 33250 P/O P.A. Donnelly. And Crew.		1655	2331	Bombing Load. Same as 'A'. T: 1934.0 hrs. H: 19,000 ft. Centre of glow below cloud. Few T.L.'s seen, but many scattered fires. One big fire with towering flame and smoke to 2000 ft. No explosions seen. One heavy concentration of incendiaries seen three miles due west of target to edge of river. 12 1000 lbs. G.P. ANM 65 (Nose Inst.) hung up over target. 5133N 02128, 2123.7 hrs. H: 7,000 ft. Safe.	See Appendix 15

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R.A.F.  
FORM 561.

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1745-5211 WL 4189-5181 700 813 T.S. 700  
1745-5211 WL 4189-5181 700 813 T.S. 700

FOR THE MONTH OF December, 1944.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
4.12.44.	Halifax NA186 'U'. Target: Karlsruhe.	P. J. 18869 P/O J.W. Tims. And Crew.		1657	2320	Bombing Load. 2 x 1000 lbs. S.A.P. ANI 59 (Nose Inst.). T: 1934.2 hrs. H: 19,000 ft. Centre of fires, there was one cluster of green T.L.'s, but approx. 2 miles to port of concentration of green T.L.'s, but approx. 2 miles to port of concentration of green T.L.'s, but approx. 2 miles to port of bombing. 1 x 1000 lbs. S.A.P. ANI 59 (Nose Inst.) hung up over target. 5133N - 0245E, 2459 hrs. 19,000 ft. safe.	See Appendix 73
4.12.44.	Halifax NR122 'X'. Target: Karlsruhe.	P. J. 57121 P/O D.J. Stewart. And Crew.		1656	2334	Bombing Load. Same as 'A'. T: 1931.6 hrs. H: 19,000 ft. Centre of green T.L.'s. There was only one cluster of green T.L.'s, which were in the centre of the concentration of fires which lit up a large area. Bombing appeared well concentrated. Landed at Woodbridge due to hydraulic failure.	See Appendix 73
4.12.44.	Halifax M2861 'Z'. Target: Karlsruhe.	P. J. 20025 P/L G.A. Thompson. And Crew.		1654	2333	Bombing Load. Same as 'A'. T: 1933.5 hrs. H: 19,000 ft. Centre of red T.L.'s. Markers were few in number, but well in the concentration of fires which lit up the clouds. Good concentration of bombing.	See Appendix 73
5.12.44.	Halifax NA181 'D'. Target: Soest.	P. J. 20559 P/O W.E. Mitchell. And Crew.		1745	0018	Bombing Load. 2 x 1000 lbs. ANI 65 (Nose Inst.). 7 x 1000 lbs. ANI 72 (T.D. 025). T: 2118.5 hrs. H: 19,000 ft. Red T.L.'s. Arrived on target approx. 14 minutes early. Saw one red T.L. Saw several bomb bursts in location of T.L. Could not see ground detail. After passing target saw things beginning to light up, and some fires starting. Some fighter flares over target. Searchlights in our territory lit up route. Wars flying at 19,000 ft. (5030N - 0305E), 2030 hrs.	See Appendix 73
5.12.44.	Halifax M2907 'F'. Target: Soest.	P. J. 20025 P/L G.A. Thompson. And Crew.		1737	0027	Bombing Load. Same as 'E'. T: 2120 hrs. H: 19,000 ft. Red T.L.'s. Only one group of T.L. red seawell concentrated. Several glows could be seen through cloud. No further results observed. Bomber stream fairly well concentrated.	See Appendix 76
5.12.44.	Halifax M2949 'G'. Target: Soest.	P. J. 2559 P/L T. Mear's. And Crew.		1742	0028	BOMBING LOAD. Same as 'D'. T: 2122.0 hrs. H: 19,000 ft. Centre of concentration of red T.L.'s. Red and Green T.L.'s., seemed well concentrated and numerous bomb bursts were seen in the immediate locality. Ground detail obscured. Patchy cloud around target.	See Appendix 76
5.12.44.	Halifax NA124 'I'. Target: Soest.	P. J. 11316 P/L G.R. Northrup. And Crew.		1730	0023	Bombing Load. Same as 'D'. T: 2120.6 hrs. H: 19,000 ft. One patch of cloud completely obscured target. T.L.'s. and concentrated fires were seen after leaving area. 1 x 1000 lbs. ANI 65 (Nose Inst.) hung up over target, at 5133N - 0245E, 2308.5 hrs. 6,600 ft. Fighter flares seen in target area as well as run up and leg out.	See Appendix 76

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				Up	Down		
5.12.44.	Halifax MK249 'J'. Target: Soest.	P. J.35420 P/O And Crew.	E.R. Millbank.	1743	0230	Bombing Load. Same as 'D'. T: 2120.3 hrs. H: 18,000 ft. Centre concentration of green T.L.'s. Saw good concentration of green T.L.'s through hole in cloud. Red T.L.'s seen on approaching target, but these went out before completing bombing run. Saw six large explosions with orange flames and black smoke at 2124 hrs. Numerous bomb bursts well scattered south of T.L.'s. On lag into target several fighters flares dropped, but no indication that fighters knew route of bomber stream. Landed Hardwick, refuelled and returned to base.	See Appendix 16
5.12.44.	Halifax MK247 'K'. Target: Soest.	P. J.35609 P/O And Crew.	S.H. McNeill.	1741	0040	Bombing Load. Same as 'D'. T: 2124.8 hrs. H: 18,000 ft. Centre of target. Markers well concentrated. Good fires under way after we left target, and were able to see under the cloud. Fighter flares on run into target. Route satisfactory.	See Appendix 16
5.12.44.	Halifax MK458 'L'. Target: Soest.	P. J.28542 P/O And Crew.	S.H. McPadden.	1741	0024	Bombing Load. Same as 'D'. T: 2120.4 hrs. H: 18,000 ft. Centre of green T.L.'s. We saw red T.L.'s, but they went out before we bombed so we bombed the green T.L.'s. Bombing appeared fairly well concentrated, although results were obscured by cloud.	See Appendix 16
5.12.44.	Halifax MK483 'M'. Target: Soest.	P. J.48486 P/O And Crew.	W.V. Brown.	1806	0021	Bombing Load. 1 x 4000 lbs. AM 65 (T.D. .025). 2 x 4000 lbs. AM 65 (Rose Inst). 6 x 1000 lbs. AM 59 (T.D. .025). T: 2120.7 hrs. H: 18,000 ft. Centre of red T.L.'s. Marking was well concentrated and plentiful. Several fires could be seen in a concentrated area.	See Appendix 16
5.12.44.	Halifax MK612 'P'. Target: Soest.	P. J.26674 P/O And Crew.	L.R. Belcher.	1800	0033	Bombing Load. Same as 'D'. T: 2122.6 hrs. H: 18,000 ft. Centre of red T.L.'s. Several alphas of T.L.'s red seen, appeared slightly scattered. No. T.L. green could be seen. On bombing run good. Several fires burning, taking good hold. One small explosion seen, at 2122 hrs, flared up and died down rapidly. 043N - 0704E, 2245 hrs. 8,000 ft., two small holes in bomb door and fuselage, due to flak. On route to target.	See Appendix 16
5.12.44.	Halifax MK766 'Q'. Target: Soest.	P. J.90221 P/O And Crew.	W.D. Lane.	1746	2120	Bombing Load. Same as 'D'. This aircraft returned early. Over base port outer began to give trouble, cutting out and in. Later discovered it was using fuel too rapidly. At 0410N - 0430E port inner started to cut and backfire. On taking off from base the port outer engine gave trouble and used fuel at a high rate. Endeavoured to make target on three engines after feathering port outer. Port inner later began to cut and aircraft lost height to 8,000 ft., endeavoured to shoot into target, but found that speed and fuel consumption would not permit. Turned back and jettisoned bombs, and landed Hardwick. (continued at 5123 N 0212E, 2000 ft. 8.00 ft. over)	See Appendix 16

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APPENDIX

R.A.F.  
FORM 541.

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\*1275-5111) Wt. 2220-1124 700 1144 T.S. 700  
\*1370-5111) Wt. 2200-1124 1900 1144 T.S. 700

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
5.12.44.	Halifax NA607 'B'. Target: Soest.	P. J. 8820 W/O T.A. Donnelly. And Crew.		1744	0014	Bombing Load. Same as 'M'. T: 2120.4 hrs. H: 17,000 ft. Centre of wall concentrated red and green T.L.'s. Three or four small clusters of T.L.'s red and green seen well concentrated. Several orange explosions seen approx. 2 minutes after bombing. After leaving target few fires seen. Few incendiaries seen burning short of target. A very good attack well concentrated. Too many own searchlights, operated over France.	See Appendix 16.
5.12.44.	Halifax <sup>NA1816 'H'</sup> NA606 'B'. Target: Soest.	P. J. 18869 W/O J. E. Tims. And Crew.		1740	0008	Bombing Load. Same as 'M'. T: 2120.6 hrs. H: 17,000 ft. Centre of green T.L.'s. Marking was plentiful and well placed. Bombing appeared well concentrated around marshalling yards. The whole area was lit up by fires. One large explosion was seen.	See Appendix 16.
5.12.44.	Halifax LW552 'B'. Target: Soest.	P. J. 3740 W/O J.S. McQuira. And Crew.		1708	2331	Bombing Load. Same as 'D'. T: 2120.3 hrs. H: 17,000 ft. Centre concentration green T.L.'s. One red T.L. seen on run up which went out before arrival at A/P. Green T.L.'s quite numerous and well concentrated. Bombing well concentrated around T.L.'s. Fairly large fire seen to port of T.L.'s. One large explosion with orange flame at 2118 hrs. N.W. of target. Cloud of black smoke over target. Large number of fighter flares on leg before target, and after target.	See Appendix 16.
5.12.44.	Halifax <sup>22248 'D'</sup> NA606 'B'. Target: Soest.	P. J. 26751 W/O J.E. McQuiston. And Crew.		1739	0011	Bombing Load. Same as 'D'. T: 2121.0 hrs. H: 17,000 ft. Red T.L.'s seen, but went out on approach. Green T.L.'s well concentrated. Quite a number of bomb bursts in target area. Ground detail obscured by haze and broken cloud. Large explosion with red flame seen as leaving target area. Fighters were out, but apparently unable to find bomber stream. Flares seen all over sky, but fighters not close.	See Appendix 16.
5.12.44.	Halifax <sup>NA1850 'D'</sup> NA606 'B'. Target: Soest.	P. J. 87460 W/O G.L. Christie. And Crew.		1751	2530	Bombing Load. Same as 'D'. T: 2125.4 hrs. H: 18,000 ft. Centre of concentration of red T.L.'s. Red and Green T.L.'s were somewhat scattered. Number of bomb bursts and numerous fires in target area around the T.L.'s. Patchy cloud over target. Dog legging to lose time collided with another Halifax approx. 5140N - 0600E, 2040 hrs. 19,000 ft. heading 105 E. Astra dome and top section of fuselage torn away, instrument panel shattered. Coned in searchlights, and hit by flak, approx. 50 holes of varying sizes distributed over whole surface of aircraft, 5140N - 0226E, 2045.0 hrs. 19,000 ft. heading 033 E. Consequent evasive action threw off course.	See Appendix 16.

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				Up	Down		
6.12.44.	Halifax NZ222 'G'. Target: Osnabruck.	P. J. 37335 P/O And Crew.	McTaggart, D. G.	1653	2226	Bombing Load. 1 x 500 lbs. G.P. 37 Pist. 15 x 500 lbs. G.P. (T.D. .025). T: 1948.5 hrs. H: 20,000 ft. No T.L.'s or sky markers were seen on run up, and bombed on go. Fire glows closely concentrated. One minute flying after bombing, T.L.'s red were seen below. No other results were observed. All bombing seemed to be scattered. Experienced static electricity over target. Moderate icing encountered over the continent.	See Appendix 17
6.12.44.	Halifax NZ222 'D'. Target: Osnabruck.	P. J. 20599 P/O And Crew.	W.R. Mitchell	1647	2239	Bombing Load. 1 x 500 lbs. G.P. 37 Pist. 4 x 500 lbs. G.P. (T.D. .025). 11 x 500 lbs. M.C. (T.D. .025). T: 1948.2 hrs. H: 21,000 ft. No T.L.'s or sky markers seen. A good sea fix was obtained, and Navigator satisfied that bombs were released over target. Three separate white glows faintly seen through cloud in same area as bombed. No further results could be seen. Weather and visibility very poor.	See Appendix 17
6.12.44.	Halifax NZ416 'E'. Target: Osnabruck.	P. J. 2999 P/L And Crew.	T. Meays	1646	2284	Bombing Load. 16 x 500 lbs. G.P. (T.D. .025). T: 1948.9 hrs. H: 21,000 ft. Glow on clouds. No signs or ground markers. Solid cloud through which a glow could be seen. Some flak bursting through cloud in the vicinity of glow. No other detail observed.	See Appendix 17
6.12.44.	Halifax NZ907 'F'. Target: Osnabruck.	P. J. 20025 P/L And Crew.	G.A. Thompson	1644	2240	Bombing Load. 1 x 500 lbs. M.C. 37 Pist. 15 x 500 lbs. G.P. (T.D. .025). T: 1948.9 hrs. H: 21,000 ft. Centre of glow on cloud. No markers seen. Several glows on cloud covering a large area. No results seen.	See Appendix 17
6.12.44.	Halifax NR196 'H'. Target: Osnabruck.	P. J. 22399 P/O And Crew.	A. Cruickshank	1634	2232	Bombing Load. Same as 'G'. T: 1948.9 hrs. H: 21,000 ft. Centre of one cluster of T.L.'s red. Intended to bomb on T.A. and go, but observed one cluster of T.L.'s red on run up, which were just short of glows which could be seen through cloud. No definite results of bombing observed. Bombing seemed scattered. Static Electricity experienced on homeward route over the North Sea. Some icing over the continent.	See Appendix 17
6.12.44.	Halifax NR249 'J'. Target: Osnabruck.	P. J. 35420 P/O And Crew.	E.R. Millbank	1702	2018	Bombing Load. 12 x 500 lbs. M.C. (T.D. .025). 4 x 500 lbs. G.P. (T.D. .025). Took-off five minutes after last possible take-off time. After setting course Navigator estimated that we would be 30 minutes late a last concentration point. Icing made it difficult to hold height and speed, and impossible to make up time. Navigator estimating time on target was 1800 hrs. 12 x 500 lbs. M.C. T.D. .025. 4 x 500 lbs. G.P. (T.D. .025). Jettisoned to lighten aircraft. 5407N - 0130E.	See Appendix 17

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\*1276-5111 Wt. 2222-2224 700 lbs. T.A. 700  
\*1279-5111 Wt. 2207-2214 1300 lbs. T.A. 700

FOR THE MONTH OF December, 1944.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
6.12.44.	Halifax M2947 'K'. Target: Osnabruck.	P. J. 11816 P/L J.R. Northrup. And Crew.	J.R. Northrup.	1705	2249	Bombing Load. 1 x 500 lbs. G.P. (37 Pist.). 14 x 500 lbs. G.P. (T.D. .025). T: 1949.5 hrs. H: 18,000 ft. No markers seen. Target totally obscured by cloud. Due to lack of brake pressure landed at Carnaby.	See Appendix 17
6.12.44.	Halifax M2948 'L'. Target: Osnabruck.	P. J. 23542 P/O S.H. McFadden. And Crew.	S.H. McFadden.	1703	1945	Bombing Load. 15 x 500 lbs. G.P. (T.D. .025). 1 x 500 lbs. G.P. (L.D.) 37 Pist. This aircraft returned early due to hydraulic failure on take-off, could not raise undercarriage. 5406H - 01428, 1742.4 hrs. 3,000 ft. 1 x 500 lbs. G.P. (L.D.) 37 Pist. 7 x 500 G.P. (T.D. .025) jettisoned to lighten aircraft.	See Appendix 17
6.12.44.	Halifax M2483 'M'. Target: Osnabruck.	P. J. 13316 P/L J.E. McAllister. And Crew.	J.E. McAllister.	1704	1855	Bombing Load. 11 x 500 lbs. G.P. (T.D. .025). This aircraft returned early, due to hydraulics being w/s, could not raise undercarriage. 5440H - 01228, 1738 hrs. 4,000 ft. 11 x 500 lbs. G.P. (T.D. .025) jettisoned to lighten aircraft.	See Appendix 17
6.12.44.	Halifax M2946 'O'. Target: Osnabruck.	P. J. 53609 P/O D.D. McNeill. And Crew.	D.D. McNeill.	1627	2238	Bombing Load. Same as 'O'. T: 1950 hrs. H: 20,000 ft. Centre of fires. No markers seen. No ground detail could be seen, but fires were easily seen through break in cloud.	See Appendix 17
6.12.44.	Halifax M2948 'P'. Target: Osnabruck.	P. J. 26674 P/O L.R. Belcher. And Crew.	L.R. Belcher.	1632	2249	Bombing Load. Same as 'O'. T: 1947.1 hrs. H: 19,000 ft. Centre of glow on cloud. The red T.L.'s disappeared into cloud, and left a glow on the cloud. No other markers seen. A large surface of the cloud was lit up by glow. No definite results seen.	See Appendix 17
6.12.44.	Halifax M2947 'Q'. Target: Osnabruck.	P. J. 88250 P/O T.A. Donnelly. And Crew.	T.A. Donnelly.	1611	2246	Bombing Load. Same as 'O'. T: 1949.1 hrs. H: 19,000 ft. Glow on cloud. Great number of photo-flashes going off in fairly good concentration. After bombing noticed some green T.L.'s through break in cloud. Also saw some fires through break in clouds. Searchlights in France spotting route on way to target. One flashing 'K'.	See Appendix 17
6.12.44.	Halifax LW552 'S'. Target: Osnabruck.	T: J. 3740 P/O J.S. McGuire. And Crew.	J.S. McGuire.	1636	2236	Bombing Load. 1 x 500 lbs. G.P. (37 Pist.). 9 x 500 lbs. G.P. (T.D. .025). T: 1949.7 hrs. H: 19,000 ft. Near edge of glow on cloud. No markers seen. Several bomb bursts could be seen, and appeared scattered. A large broken glow on cloud covered the target area. The Port outer engine cut out at the English coast homeward and wouldnt feather.	See Appendix 17

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
6.12.44.	Halifax <del>NR496</del> *U* Target: Onabruok.	P. J.37121	E/O D.J. Stewart.	1629	2242	Bombing Load. 1 x 500 lbs. G.P. 37 Plst. 15 x 500 lbs. G.P. (T.D. 025). T: 1949. H: 19,500 ft. Centre of red and green T.I.'s. The green T.I.'s were to port of the fires, and the red T.I.'s were on the east side to the fires, which covered an area of about 4 square miles. Bombing appeared scattered.	See Appendix 17
6.12.44.	Halifax <del>NR496</del> *U* Target: Onabruok.	P. J.26751	E/O J.H. Ho-Jinton.	1620	2233	Bombing Load. Same as *G*. T: 1947.8 hrs. H: 19,600 ft. Centre of green T.I.'s. Three clusters of green T.I.'s, were seen, and several bomb bursts rather scattered.	See Appendix 17
17.12.44.	Halifax <del>NR222</del> *G* Target: Duisburg.	P. J.20025	E/L Thompson, T.A.	0249	0941	Bombing Load. 1 x 2000 lbs. H.C. N.I. (M11). 2 x 1000 ANM 77 T.D. 025. 10 x 500 lbs. G.P. (T.D. 023). T: 0616.5 hrs. H: 14,000 ft. Centre of cluster of red T.I.'s. Cloud presented observation. 4 x 500 lbs. jettisoned safe 5028N - 0409E. 0457 hrs. 13,000 ft. Port Outer engine W/E. Photo sparked. Fairly good photo flash fell when bombs jettisoned. Landed at Waddington.	See Appendix 18
17.12.44.	Halifax NA181 *D* Target: Duisburg.	P. J.20059	E/O Mitchell, W.R.	0239	0919	Bombing Load. Same as *G*. T: 0623.0 hrs. H: 20,000 ft. No markers were seen, and outside of large glow seen reflecting through cloud, no results were observed. One small flask hole in bomb doors, over target poor concentration of aircraft with scattered bombing.	See Appendix 18
17.12.44.	Halifax <del>NR446</del> *H* Target: Duisburg.	P. J.28606	E/O D.W. Palcover.	0236	0852	Bombing Load. Same as *G*. T: 0629 hrs. H: 19,500 ft. Red T.I.'s seen going down at 0622 hrs. One large explosion seen immediately after bombing causing clouds to become white. Route altered as ordered. Electric storms and thunder clouds were encountered, cloud being solid up to 20,000 ft. from French coast to target and return. Landed at Wigley.	See Appendix 18
17.12.44.	Halifax <del>NR907</del> *H* Target: Duisburg.	P. J.12098	E/L A.E. Winmill	0237	0917	Bombing Load. Same as *G*. T: 0620.1 hrs. H: 19,500 ft. Red glow seen, believed to have been fires below cloud. See was only partly serviceable. Photo flash hung up. Landed at Waddington.	See Appendix 18
17.12.44.	Halifax <del>NR156</del> *H* Target: Duisburg.	P. J.22339	E/O A. Cruickshank.	0218	0849	Bombing Load. Same as *G*. T: 0618.9 hrs. H: 19,500 ft. Fire glow beneath cloud. Believed in target area 0618 hrs. 19,500 ft. astra dome damaged as if by heavy flak. Not observed until clear of target.	See Appendix 18
17.12.44.	Halifax NA181 *I* Target: Duisburg.	P. J.11816	E/L J.R. Northrup.	2226	0741	Bombing Load. Same as *G*. T: 0536 hrs. 18,000 ft. Route as ordered to 1930W - 0523E, and back to base. The pilot felt a faint dizziness after take-off which got worse as the aircraft climbed to 18,000 ft. When he had a cold sweat and could not see the instruments. He could not keep control of the aircraft so abandoned the mission. Draft back 17.12.44 0618 hrs. 19,500 ft. 0512.0 hrs. 18,000 ft. 2226 hrs. 0741 hrs. 18,000 ft. 0512.0 hrs. 18,000 ft.	See Appendix 18

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(1946-5111) Wt. 2820-1164 700 810 T.A. 700  
(1939-5111) Wt. 4067-3181 1200 1164 T.A. 700

FOR THE MONTH OF December, 1944

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
17.12.44.	Halifax MK249 'J' Target: Duisburg.	P. J. 87480 P/O	G.A. Chartier.	0230	0859	Bombing Load. Same as 'G'. T: 0622.6 hrs. H: 19,000 ft. Glow of fires. Explosions seen lighting up cloud. Small noise in port rudder. Cause unknown. Landed at Waddington.	See Appendix 13
		And Crew.					
17.12.44.	Halifax MK247 'K' Target: Duisburg.	P. J. 25454 P/O	G.K. Grier.	0214	0951	Bombing Load. Same as 'G'. T: 0625.6 hrs. H: 19,000 ft. No markers seen. Target totally obscured by cloud. Landed at Bottesford.	See Appendix 13
		And Crew.					
17.12.44.	Halifax MK248 'L' Target: Duisburg.	P. J. 28542 P/O	S.H. McFadden.	0238	0944	Bombing Load. Same as 'G'. T: 0619.2 hrs. H: 19,000 ft. Glow of fires and estimated position of T. T. which disappeared. Bomb flashes and one explosion lasting 10/15 seconds - 0626 hrs. Landed at Waddington.	See Appendix 13
		And Crew.					
17.12.44.	Halifax MK243 'M' Target: Duisburg.	P. J. 2939 P/L	Mears, T.	0229	0852	Bombing Load. Same as 'G'. T: 0619 hrs. H: 19,000 ft. Glow of fires below ground. Glow of fires through clouds only. Target indicators seen dropped and disappeared into cloud. No markers could be picked up on which to bomb. Landed at Waddington.	See Appendix 13
		And Crew.					
17.12.44.	Halifax MK246 'O' Target: Duisburg.	P. R12357 W/O	McKenzie, J.S.	0245	0905	Bombing Load. Same as 'G'. T: 0620 hrs. H: 18,500 ft. Glow of fires through cloud. No ground detail seen due to cloud. 1 x 1000 lbs. H.C. jetisoned safe 3015N - 3015N, 0800 hrs. 11,000 ft. due to hang-up over target. No markers seen so bombed on gee as briefed. Many bomb bursts seen in target area through cloud. Landed Litchfield.	See Appendix 13
		And Crew.					
17.12.44.	Halifax MK246 'P' Target: Duisburg.	P. J. 24438 P/O	W.E. Goodwin.	0215	0920	Bombing Load. Same as 'G'. T: 0622 hrs. H: 19,500 ft. Numerous bomb bursts close to T.I.'s. 10/10 cloud base diverted to target. <i>Diverted to target. 10/10 cloud base diverted to target. 10/10 cloud base diverted to target. 10/10 cloud base diverted to target.</i>	See Appendix 13 & 15
		And Crew.					
17.12.44.	Halifax MK174 'R' Target: Duisburg.	P. J. 90221 P/O	W.D. Leno.	0243	0922	Bombing Load. Same as 'G'. T: 0621.1 hrs. H: 18,050 ft. Near edge of glow on cloud. Saw red T.I.'s going down some minutes before arrival at target. Did D.R. run to target and at time of bombing saw red glow on cloud. Bombed near edge of glow. Saw a number of flashes reflected on cloud in target area. Visibility poor.	See Appendix 13
		And Crew.					
17.12.44.	Halifax MK111 'T' Target: Duisburg.	P. J. 85060 P/O	J.L. Britt.	0255	0908	Bombing Load. Same as 'G'. T: 0623.4 hrs. H: 20,000 ft. Glow of fires below cloud. Gee u/s and A.P.I. u/s. 10/10 cloud tops 21,000 ft. Red T.I.'s. Diverted to Waddington.	See Appendix 13
		And Crew.					
17.12.44.	Halifax MK186 'U' Target: Duisburg.	P. J. 13869 P/O	J.W. Timms.	0223	0840	Bombing Load. Same as 'G'. T: 0621.5 hrs. H: 20,800 ft. No markers seen, a large glow on cloud could be seen. Bombing appeared non-bered, no definite results due to cloud. 10/10th cloud in layers. Landed at Waddington.	See Appendix 13
		And Crew.					

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
17. 12. 44.	Halifax NR172 'V' Target: Duisburg.	P. J. 26751	P/O J.H. McQuiston. And Crew.	0225	0346	Bombing Load. Same as 'O'. T: 0649.2 hrs. H: 18,500 ft. Fire glow, red T.I.'s and green T.I.'s faintly visible through cloud. Oxygen supply defective. 10/10 cloud, tops about 6,000 ft. broken cloud at 19,000 ft. cleared as target was reached. Diverted to Waddington.	See Appendix 13
17. 12. 44.	Halifax M2632 'W' Target: Duisburg.	P. J. 86341	P/O O.E. Lindquist. And Crew.	0231	0350	Bombing Load. Same as 'O'. T: 0648.5 hrs. H: 17,000 ft. Saw red T.I.'s on leaving the target, but no markers were seen when bombing. No results seen due to cloud. 10/10 cloud, tops 14,000 ft. Visibility fair.	See Appendix 13
17. 12. 44.	Halifax M2361 'Z' Target: Duisburg.	P. J. 83172	P/O S.W. Moore's. And Crew.	0222	0326	Bombing Load. Same as 'O'. T: 0624 hrs. H: 17,000 ft. Bomb bursts appeared to be concentrated. Bombed the target, believed few holes in elevator. Photo flash did not drop. 10/10 cloud, visibility poor. Diverted to Skellingthorpe.	See Appendix 13
24. 12. 44.	Halifax NA610 'B' Target: Dusseldorf.	P. J. 5060	P/O J.L. Britt. And Crew.	1150	1620	Bombing Load. 9 x 1000 lbs. G.F. 4 x 500 lbs. T: 1454.4 hrs. H: 16,000 ft. Red T.I.'s. Bomb bursts and lots of smoke visible. Slight hole from heavy flak over Dusseldorf. A very good prang. Diverted to Foulsham.	See Appendix 19
24. 12. 44.	Halifax M2416 'B' Target: Dusseldorf.	P. J. 28606	P/O Falconer, D.W. And Crew.	1155	1724	Bombing Load. Same as 'B'. T: 1447 hrs. H: 18,000 ft. Good concentration of bombs going down. 4 x 1000 lbs. G.F. jettisoned 90 miles east of Flamborough Head, 1624 hrs. 6,000 ft. bomb failed up believed electrical failure. 4 x 500 lbs. brought back. Failure of bomb dropping equipment camera failed to function. Hydraulic trouble affecting undercarriage and tail wheel. Very good prang. Large volumes of smoke seen when leaving target. Diverted to Foulsham.	See Appendix 19
24. 12. 44.	Halifax M2907 'B' Target: Dusseldorf.	P. J. 12038	P/L A.E. Minnill. And Crew.	1148	1616	Bombing Load. Same as 'B'. T: 1451.8 hrs. H: 18,000 ft. Red T.I.'s overshoot by two seconds as per master-bomber instructions. Much smoke over target area, red T.I.'s and bombs seen close together. Green T.I.'s slightly closer to runways. Aircraft received diversion at 1520 hrs. to land at Foulsham. Satisfactory trip.	See Appendix 19
24. 12. 44.	Halifax NA124 'B' Target: Dusseldorf.	P. J. 11816	P/L J.R. Northrup. And Crew.	1154	1602	Bombing Load. Same as 'B'. T: 1452 hrs. H: 17,500 ft. Bombed southern intersection of aerodrome and runways. Red and Green T.I.'s were well grouped together, one stick of bombs seen just before bombing on E.W. runway. Believed aircraft hit by heavy flak just before bombing target. Diverted to Foulsham.	See Appendix 19
24. 12. 44.	Halifax NR239 'V' Target: Dusseldorf.	P. J. 20045	P/L C.A. Thompson. And Crew.	1151	1609	Bombing Load. Same as 'B'. T: 1451.9 hrs. H: 17,500 ft. Bombed centre of group of Green T.I.'s. Good concentration of bombs bursting on target, and fires seen burning. Damage to port wing and port wheel by heavy flak over target. Very good concentrated attack. Diverted to Foulsham.	See Appendix 19

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(1170-221) Wt. 2250-2281 70W Sig. T.A. 700  
(\*1170-221) Wt. 4400-4381 150W Sig. T.A. 700

FOR THE MONTH OF December, 1944

DATE	AIRCRAFT Type & Number	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
24.12.44.	Halifax M2947 'K'. Target: Dusseldorf.	J. 29194 P/O G.K. Cris. And Crew.	Cr.	1145	1626	Bombing Load. Same as 'B'. T: 1451.45 hrs. H: 17,500 ft. Bombed large hangar on south side of aerodrome. Good concentration of bombs and much smoke. Severe flak damage to port inner engine. Very good effort. Diverted to Foulsham.	See Appendix 19
24.12.44.	Halifax M223 'L'. Target: Dusseldorf.	P. J. 20599 P/O W.R. Mitchell. And Crew.	W.R. Mitchell.	1150	1606	Bombing Load. Same as 'B'. T: 1452.6 hrs. H: 17,000 ft. Red T.I.'s appeared well concentrated, but smoke prevented full appreciation of attack. Received diversion signal at 1920 hrs., and landed at Foulsham. Much interference on the R/T.	See Appendix 19
24.12.44.	Halifax M2483 'M'. Target: Dusseldorf.	P. J. 43486 G/L W.F. Brown. And Crew.	W.F. Brown.	1152	1603	Bombing Load. Same as 'B'. T: 1451.7 hrs. H: 17,000 ft. Bombed main runways and markers. Bombs fell in centre of field. A very good concentration of aircraft and attack considered good. Weather perfect. Diverted to Foulsham.	See Appendix 19
24.12.44.	Halifax M2456 'P'. Target: Dusseldorf.	P. J. 36341 P/O G.E. Lindquist. And Crew.	G.E. Lindquist.	1126	1611	Bombing Load. 7 x 1000 lbs. G.P. 4 x 500 lbs. G.P. T: 1451 hrs. H: 13,000 ft. Red T.I.'s. Good concentrated bombing, and much smoke. Diverted to Foulsham.	See Appendix 19
24.12.44.	Halifax M474 'R'. Target: Dusseldorf.	P. J. 38250 P/O T.A. Donnelly. And Crew.	T.A. Donnelly.	1447	1627	Bombing Load. Same as 'B'. T: 1451.6 hrs. H: 16,500 ft. Bombed centre of red T.I.'s. Good concentration of bombs on airfield, and much smoke. Slight heavy flak damage. Landed at Foulsham.	See Appendix 19
24.12.44.	Halifax M611 'T'. Target: Dusseldorf.	P. J. 37335 P/O L.O. McTear. And Crew.	L.O. McTear.	1159	1612	Bombing Load. Same as 'B'. T: 1451.7 hrs. H: 17,000 ft. Bombed centre of triangle of runways. Bombing was well concentrated. Slight hole in port main plane by flak over Dusseldorf airfield. Very good attack. Landed at Foulsham.	See Appendix 19
24.12.44.	Halifax M186 'U'. Target: Dusseldorf.	P. J. 13369 P/O J.W. Tims. And Crew.	J.W. Tims.	1157	1613	Bombing Load. Same as 'B'. T: 1451.3 hrs. H: 16,000 ft. Bombed aerodrome buildings and red T.I.'s. Red T.I.'s were grouped on and around the airfield buildings, and green T.I.'s seen on runways. Aircraft holed by heavy flak on leading edge of port tail plane over Dusseldorf airfield, 1453 hrs. 16,000 ft. Landed at Foulsham.	See Appendix 19
24.12.44.	Halifax M172 'V'. Target: Dusseldorf.	P. J. 26674 P/O L.R. Bekker. And Crew.	L.R. Bekker.	1202	1624	Bombing Load. Same as 'B'. T: 1451.3 hrs. H: 17,500 ft. Bombed airfield buildings and hangars. Explosion seen in centre of buildings and bombs falling on airfield. Very good concentrated bombing. Landed at Foulsham.	See Appendix 19

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
24.12.44.	Halifax NR122 'X' Target: Dusseldorf.	P. J.37482 E/O And Crew.	J.S. McQuira.	1201	1623	Bombing Load. Same as 'B'. T: 1452.5 hrs. H: 15,500 ft. Bombed south edge of green T.I.'s. Very concentrated bombing around markers. Slight heavy flak damage. Diverted to Foulham.	See Appendix 19
24.12.44.	Halifax NR476 'Y' Target: Dusseldorf.	P. J.2939 E/L And Crew.	T. Moore.	1155	1620	Bombing Load. Same as 'B'. T: 1452 hrs. H: 15,000 ft. Red T.I.'s were well concentrated, no green T.I.'s seen. Several bursts of heavy flak above and below aircraft. Hits received in tail plane, fuselage, top flexiglass in nose and pilots escape hatch. Aircraft received diversion signal at 1520 to land at Foulham.	See Appendix 19
24.12.44.	Halifax NR361 'Z' Target: Dusseldorf.	P. J.38172 E/O And Crew.	S.W. Moore.	1201	1615	Bombing Load. Same as 'B'. T: 1455 hrs. H: 16,000 ft. Bombed position where green T.I.'s entered smoke haze. Good concentration of bombs bursting and fires. A very good attack. Diverted to Foulham.	See Appendix 19
23.12.44.	Halifax NR386 'A' Target: Oslagen.	P. J.29194 E/O And Crew.	G.K. Grier.	0305	0857	Bombing Load. 7 x 1000 lbs. M.C. T.D. .025. 2 x 1000 lbs. S.A.P. 159 T.D. .025. 3 x 500 lbs. G.P. T.D. .025. T: 0631.3 hrs. H: 20,000 ft. Bombed centre of mixed red and green T.I.'s. T.I.'s could be seen cascading on approach to target and during bombing run flow from T.I.'s could be seen vaguely. Only one mixed cluster of T.I.'s red and green seen. After attack other T.I.'s green were seen cascading. No results observed.	See Appendix 20
23.12.44.	Halifax NA610 'B' Target: Oslagen.	P. J.38172 E/O And Crew.	S.W. Moore.	0300	0858	Bombing Load. 1 x 2000 lbs. H.C. (Nose Inst.) 3 x 1000 lbs. M.C. (T.D. .025). 8 x 250 lbs. G.P. (Tail Inst.) T: 0632 hrs. H: 20,000 ft. Bombed centre bunch of T.I.'s green just cascading. Three clusters of T.I.'s were seen and we bombed the centre of all three which happened to be T.I.'s green. No bombing results observed. Very good concentration of aircraft over target. Detonated 1 x 1000 lbs M.C. (T.D. .025). 1 x 250 lbs. G.P. tail inst. due to hang up over target. Bomb doors damaged by own bomb which hung up.	See Appendix 20
23.12.44.	Halifax NA181 'D' Target: Oslagen.	P. J.20559 E/O And Crew.	W.R. Mitchell.	0311	0908	Bombing Load. 9 x 1000 lbs. M.C. (T.D. .025). 3 x 500 lbs. G.P. (T.D. .025). T: 0632.3 hrs. H: 20,000 ft. Bombed estimated centre of T.I.R. Red markers were in two groups. One good concentration with one set off to starboard. Green T.I.'s later cascaded into the main concentration of red. Bombing seemed accurate. No ground detail visible for fog. Some fighter flares seen on run-up and run-out of target.	See Appendix 20
23.12.44.	Halifax NR416 'B' Target: Oslagen.	P. J.37482 E/O And Crew.	J.S. McQuira.	0923	0911	Bombing Load. Same as 'B'. T: 0631.5 hrs. H: 19,000 ft. Bombed centre of T.I.R. T.I.R. were inside larger circles of greens. Some explosions larger than average. Flares seen more orange in colour in centre of T.I.'s.	See Appendix 20

# OPERATIONS RECORD BOOK

APPENDIX

R.A.F.  
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 413 (R.C.A.F.) Squadron

**SECRET**

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12313-9311) W1. 2721-4156 738 1064 T.S. 800

FOR THE MONTH OF December, 19 44.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
23. 12. 44.	Halifax MZ907 'P'	E. J. 12038 P/L A. L. Wrennill		0258	0905	Bombing Load. Same as 'B'. T: 0632.8 hrs. H: 20,000 ft. Bombed centre of red T.I.'s. Only T.I.'s red seen during bombing run and after own attack. T.I.'s green were seen cascading on either side of the T.I.'s red. Bombing appeared to be right on the markers. No further results of bombing seen.	See Appendix 20
		And Crew.					
23. 12. 44.	Halifax MZ949 'G'	P. J. 2939 P/L T. Moore.		0340		Mid Under gunner, CAN .R.262752 P/S Russell J.A. sighted ME.109 on port quarter down at 400 yards range, time 06.05 hrs. height 30,000 ft. heading 048T, position 5015N 0605E. Rear Gunner CAN.R.261435 Sgt. Taylor J.E. opened fire and fighter broke off attack at 200 yds. When resumed course was given Rear Gunner sighted ME.109 above port quarter up and fired a short burst and fighter broke off attack to starboard down. Target area 637, unidentified twin engine aircraft sighted by Mid Upper Gunner coming up from directly below and firing at bomber. Evasive action corkscrew port taken and fire from fighter passed underneath bomber. Rear Gunner and Mid Upper Gunner fired 100 rounds each.	10,000 ft. See Appendix 20 + 26.
		And Crew.					
23. 12. 44.	Halifax NR156 'H'	P. J. 18186 S/L W.P. Brown.		0314		1 x 4000 lbs. green T.I.'s. Appendix 20	See Appendix 20
		And Crew.					
23. 12. 44.	Halifax NA124 'I'	P. J. 14316 P/L J.R. Northrup.		0312		19,000 ft. Lots of T.I.'s. See Appendix 20	See Appendix 20
		And Crew.					
23. 12. 44.	Halifax NR249 'J'	P. J. 20025 P/L C.A. Thompson.		0304		19,000 ft. No results could be observed due to haze below. During bombing run T.I.'s red were being back by cascading T.I.'s green, which seemed to be very closely concentrated.	See Appendix 20
		And Crew.					
23. 12. 44.	Halifax MZ946 'O'	P. J. 18869 P/O J.W. Sims.		0309		Bombing Load. Same as 'D'. T: 0638.8 hrs. H: 19,000 ft. Bombed centre of red T.I.'s. Several clusters of T.I.'s seen of which one was T.I.'s reds which we bombed. There were no definite results of bombing observed. During a dog leg to waste some time due to being slightly early, compass went w/s just before reaching target.	See Appendix 20
		And Crew.					
23. 12. 44.	Halifax MZ456 'P'	P. J. 26674 P/O L.E. Balcher.		0331	0933	Bombing Load. Same as 'B'. T: 0631.8 hrs. H: 18,000 ft. Bombed centre of T.I.'s red. Green T.I.'s approx 1/2 mile overshoot of red T.I.'s. No results could be observed. One fix found to be exactly where markers were seen.	See Appendix 20
		And Crew.					
23. 12. 44.	Halifax PH174 'R'	P. J. 83230 P/O T.A. Donnelly.		0324	0901	Bombing Load. Same as 'B'. T: 0635.7 hrs. H: 18,000 ft. Bombed centre of red and green T.I.'s. They were well concentrated. Glow of same clearly seen through haze. Bombing seemed well concentrated, and glow of fires visible. Approx. 4 sticks of bombs seen to fall approx. one mile short.	See Appendix 20
		And Crew.					

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DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron.

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\*12321-2211) W.L. 8722-1155 75W 1044 T.S. 800

FOR THE MONTH OF December, 19 44.

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES.
				UP	DOWN		
23.12.44.	Halifax M2307 'P'. Target: Oplagen.	W. J. 12098 P/L A.L. Wainill And Crew.		0258	0905	Bombing Load. Same as 'B'. T: 0632.8 hrs. H: 20,000 ft. Bombed centre of red T.I.'s. Only T.I.'s red seen during bombing run and after own attack. T.I.'s green were seen cascading on either side of the T.I.'s red. Bombing appeared to be right on the markers. No further results of bombing seen.	See Appendix 20
23.12.44.	Halifax M2349 'G'. Target: Oplagen.	P. J. 13869 P/O J.W. Tims And Crew.		0258	0905	Bombing Load. Same as 'D'. T: 0634.8 hrs. H: 20,000 ft. Bombed centre of red T.I.'s. Markers were plentiful and well concentrated. Target and results totally obscured by cloud.	See Appendix 20 + 26.
23.12.44.	Halifax NR156 'H'. Target: Oplagen.	P. J. 13869 P/O J.W. Tims And Crew.		0258	0905	Bombing Load. 3 x 1000 lbs. M.C. (T.D. 025). 1 x 1000 lbs. M.69 (T.D. 025). 3 x 500 lbs. G.P. (T.D. 025). T: 0633.1 hrs. H: 19,000 ft. Bombed centre of green T.I.'s. T.I.'s fairly well concentrated. Glow of one large fire seen to build up and hold for approx 1/2 minutes.	See Appendix 20
23.12.44.	Halifax NA124 'I'. Target: Oplagen.	P. J. 13869 P/O J.W. Tims And Crew.		0258	0905	Bombing Load. Same as 'B'. T: 0632.4 hrs. H: 19,000 ft. Bombed centre set of T.I.'s red. Four or five sets of T.I.'s seen both red and green were seen but there were fairly close to each other. A glow was seen through cloud. No further results observed.	See Appendix 20
23.12.44.	Halifax M2349 'J'. Target: Oplagen.	P. J. 13869 P/O J.W. Tims And Crew.		0258	0905	Bombing Load. Same as 'B'. T: 0631.4 hrs. H: 19,000 ft. No results could be observed due to haze below. During bombing run T.I.'s red were being back by cascading T.I.'s green, which seemed to be very closely concentrated.	See Appendix 20
23.12.44.	Halifax M2346 'O'. Target: Oplagen.	P. J. 13869 P/O J.W. Tims And Crew.		0258	0909	Bombing Load. Same as 'D'. T: 0638.8 hrs. H: 19,000 ft. Bombed centre of red T.I.'s. Several clusters of T.I.'s seen of which one was T.I.'s red which we bombed. There were no definite results of bombing observed. During a dog leg to waste some time due to being slightly early, compass went w/s just before reaching target.	See Appendix 20
23.12.44.	Halifax M2456 'P'. Target: Oplagen.	P. J. 26674 P/O L.E. Balcher And Crew.		0331	0933	Bombing Load. Same as 'B'. T: 0631.8 hrs. H: 19,000 ft. Bombed centre of T.I.'s red. Green T.I.'s approx 1/2 mile overshoot of red T.I.'s. No results could be observed. One fix found to be exactly where markers were seen.	See Appendix 20
23.12.44.	Halifax PH174 'R'. Target: Oplagen.	P. J. 83230 P/O R.A. Donnelly And Crew.		0324	0901	Bombing Load. Same as 'B'. T: 0635.7 hrs. H: 18,000 ft. Bombed centre of red and green T.I.'s. They were well concentrated. Glow of same clearly seen through haze. Bombing seemed well concentrated, and glow of fires visible. Approx. 4 sticks of bombs seen to fall approx. one mile short.	See Appendix 20

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
28.12.44	Halifax NR172 'V' Target: Oplagen.	P. J. 5100 S/L And Crew.	J.C. Howay.	0907	0917	Bombing Load. Same as 'B'. T: 0632.5 hrs. H: 18,000 ft. Bombed headside of glow of T.I.R. Some T.I.'s cascaded right in amongst the main concentration of reds. No results could be observed because of cloud. 4 x 500 lbs. G.P. (Tail Inst.) jettisoned safe 7302H - 0040H, 0828 hrs. 5,000 ft. Hung up over target. Fighter fires marked route in and out of target.	See Appendix 20
28.12.44	Halifax NR122 'V' Target: Oplagen.	P. J. 5735 P/O And Crew.	D.C. McFarrart.	0903	0907	Bombing Load. Same as 'B'. T: 0633 hrs. H: 18,000 ft. Bombed concentration of red and green T.I.'s. The target was obscured by cloud. Markers well concentrated and numerous. No results seen.	See Appendix 20
29/30.12.44	Halifax NA600 Target: Trois-Dorf.	'A'. P. E. 166405 P/S And Crew.	McDiarmid, A.P.	1548	2234	Bombing Load. 16 x 500 lbs. G.P. (T.D. 025). T: 1923.5 hrs. H: 17,500 ft. Bombed centre glow of T.I.R. Arrived early on target and only one cluster of T.I.R. had cascaded at about 1916 hours. On second run markers included T.I.G. more plentiful. No results of bombing observed.	See Appendix 21
29/30.12.44	Halifax NA610 Target: Trois-Dorf.	'B'. P. J. 88849 P/O And Crew.	J. Hoexter.	1538	2224	Bombing Load. Same as 'A'. T: 1918.4 hrs. H: 17,000 ft. Bombed centre of red T.I.'s. Two clusters of T.I.'s red over target, cascading but could be seen fairly clearly. These two sets were closely grouped. No definite results of bombing observed.	See Appendix 21
29/30.12.44	Halifax NA831 Target: Trois-Dorf.	'D'. P. J. 20559 P/L And Crew.	W.R. Mitchell.	1530	2210	Bombing Load. Same as 'A'. T: 1919.2 hrs. H: 17,000 ft. Bombed red glow on clouds. Both red and green T.I.'s appeared concentrated. No bombing results could be ascertained but T.I.'s were first observed to go down at 17.46 hours.	See Appendix 21
29/30.12.44	Halifax NR307 Target: Trois-Dorf.	'E'. P. J. 12038 P/L And Crew.	A.H. Wirmill.	1539	2223	Bombing Load. Same as 'A'. T: 1920.5 hrs. H: 16,000 ft. Bombed centre of glow of T.I.R.'s. Glow of T.I.R.'s appeared plentiful and well concentrated with green T.I.'s cascading at 1921.0 hours. Overcast obscured any other results.	See Appendix 21
29/30.12.44	Halifax NR156 Target: Trois-Dorf.	'H'. P. J. 5100 S/L And Crew.	J.C. Howay.	1540	2223	Bombing Load. Same as 'A'. T: 1922.7 hrs. H: 18,000 ft. Bombed centre of glow of red T.I.'s. Red T.I.'s went down at 1915 hours followed by green T.I.'s. All T.I.'s appeared concentrated, but no results of attack were seen owing to cloud. Diverted to Dishforth.	See Appendix 21
29/30.12.44	Halifax NR249 Target: Trois-Dorf.	'J'. P. J. 20025 P/L And Crew.	C.A. Thompson.	1533	2220	Bombing Load. Same as 'A'. T: 1923.1 hrs. H: 19,000 ft. Red T.I.'s went down at 1915 hours followed by green T.I.'s at 1920 hours. T.I.'s appeared concentrated, but no results of the attack were seen owing to cloud. Diverted to Dishforth.	See Appendix 21

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ANNEX

A.F.P.  
FORM 541.

DETAIL OF WORK CARRIED OUT

By No. 415 (R.C.A.F.) Squadron

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1126-5111 WL 2222-112 700 814 T.S. 700  
1126-5111 WL 2222-112 1904 114 T.S. 700

FOR THE MONTH OF December, 1944

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
29/30.12.44.	Halifax NZ456	P. J. 26674	P/O L.R. Balohar.	1543	2219	Bombing Load. Same as 'A'. T: 1921.9 hrs. H: 19,000 ft. Bombed centre of glow of red T.I.'s through cloud. Appeared to be a concentrated attack. Both red and green T.I.'s were seen well on top of each other. One explosion occurred at 1921.0 hours giving off an orange flame. Bombing appeared to be well concentrated around the T.I.'s.	See Appendix 21
			And Crew				
29/30.12.44.	Halifax NR174	P. J. 38270	P/O T.A. Donnelly.	1536	2246	Bombing Load. Same as 'A'. T: 1918.5 hrs. H: 19,000 ft. T.I.'s red and green seen cascading one minute before bombing which enabled a good run on to target. After leaving target a glow was seen through cloud, and what appeared to be smoke rings.	See Appendix 21
			And Crew				
29/30.12.44.	Halifax NW532	P. J. 21438	P/O W.E. Goodwin.	1542	2235	Bombing Load. Same as 'A'. T: 1922 hrs. H: 20,000 ft. Bombed centre of red T.I.'s. No results of the attack were seen owing to cloud. Diverted to Dishforth.	See Appendix 21
			And Crew				
29/30.12.44.	Halifax NA611	P. J. 87335	P/O D.O. McTear.	1547	2202	Bombing Load. Same as 'A'. T: 1921.0 hrs. H: 20,000 ft. Glow of red T.I.'s seen through cloud. Red and green T.I.'s seen cascading, but only red glow could be seen through cloud. Sky Marker's seen, one on run up, the other after bombing. Had to dog-leg to kill time.	See Appendix 21
			And Crew				
29/30.12.44.	Halifax NZ261	P. J. 33172	P/O S.W. Hooper.	1534	2216	Bombing Load. Same as 'A'. T: 1920.7 hrs. H: 20,000 ft. Glow of T.I.'s red and green. T.I.'s were well concentrated and smoke was seen over cloud top over target. No other results observed.	See Appendix 21
			And Crew				
29/30.12.44.	Halifax NZ416	P. J. 28606	P/O D.W. Falconer.	1528	2230	Bombing Load. Same as 'A'. T: 1921.1 hrs. H: 17,000 ft. Bombed concentration of red T.I.'s with green T.I.'s bursting in the centre. No results of attack seen. Diverted to Dishforth.	See Appendix 21
			And Crew				
29/30.12.44.	Halifax NZ949	P. J. 29194	P/O G.K. Grier.	1544	2231	Bombing Load. Same as 'A'. T: 1920 hrs. H: 18,000 ft. Bombed red T.I.'s glowing underneath bank. No results of attack were seen. Diverted to Dishforth.	See Appendix 21
			And Crew				
29/30.12.44.	Halifax NA124	P. J. 11816	P/O J.E. Northrup.	1545	2215	Bombing Load. Same as 'A'. T: 1919.08 hrs. H: 18,000 ft. Bombed red and green T.I.'s. T.I.'s were very well concentrated. Visibility poor 10/10 cloud. Diverted to Dishforth.	See Appendix 21
			And Crew				
29/30.12.44.	Halifax NZ483	P. J. 53316	P/O J.E. McAllister.	1549	2225	Bombing Load. Same as 'A'. T: 1921.6 hrs. H: 19,000 ft. Bombed centre of glow of red T.I.'s. Red T.I.'s went down at about 1917 hrs. Followed by green T.I.'s. T.I.'s were concentrated, but no results of the attack were seen owing to 10/10 cloud. Diverted to Dishforth.	See Appendix 21
			And Crew				

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				UP	DOWN		
29/30.12.44.	Halifax M2946 Target: Trois-Dorf.	'O'. P. J. 37482	P/O J. S. McGuire. And Crew.	1531	2219	Bombing Load. Same as 'A'. T: 1921.4 hrs. H: 19,000 ft. Red T.I.'s went down followed by green on run up. It appeared to be concentrated. A large orange explosion was reported at 1920 hours. Diverted to Dishforth.	See Appendix 21
29/30.12.44.	Halifax NR122 Target: Trois-Dorf.	'X'. P. J. 37121	P/O D. J. Stewart. And Crew.	1546	2229	Bombing Load. Same as 'A'. T: 1920.3 hrs. H: 20,000 ft. Bombed centre of red T.I.'s. No results of attack seen owing to 10/10 cloud. Diverted to Dishforth.	See Appendix 21
29/30.12.44.	Halifax M2176 Target: Trois-Dorf.	'X'. P. J. 26751	P/O J. H. McJiniston. And Crew.	1537	1820	Bombing Load. Same as 'A'. This aircraft returned early owing to hydraulic trouble. 16 x 500 lbs. G.P. (T.D. .025). Jettisoned 54000 - .02000, to lighten aircraft. Diverted to Dishforth.	See Appendix 21
30.12.44.	Halifax NA181 'D' Target: Cologne.	P. J. 20559	P/L W. E. Mitchell. And Crew.	1717	2330	Bombing Load. 1 x 2000 lbs. H.G. (Nose Inst.) 4 x 1000 lbs. M.G. (T.D. .025). 8 x 500 lbs. M.G. (T.D. .025). T: 2104.7 hrs. H: 20,000 ft. No ground markers seen. There were two red sky markers with green stars, so bombed on second one. No results seen due to 8/10 cloud.	See Appendix 22
30.12.44.	Halifax M2416 'B' Target: Cologne.	P. J. 28606	P/O D. W. Falconer. And Crew.	1733	2343	Bombing Load. Same as 'D'. T: 2102.7 hrs. H: 20,000 ft. Green T.I.'s were seen through cloud. Three sky markers were seen one ahead and one on either side. At the time of bombing T.I.'s red were seen to cascade. No results of bombing observed, but one large glow seen through clouds.	See Appendix 22
30.12.44.	Halifax M2907 'P' Target: Cologne.	P. J. 12038	P/L A. E. Winmill. And Crew.	1725	2351	Bombing Load. Same as 'D'. T: 2105.6 hrs. H: 20,000 ft. Centre of sky markers red with green stars. Sky marking was plentiful and well concentrated. There seemed to be two large very white fires below cloud and well together. Bombing appeared very good.	See Appendix 22
30.12.44.	Halifax M2949 'B' Target: Cologne.	P. J. 29194	P/O G. K. Grier. And Crew.	1734	2347	Bombing Load. Same as 'D'. T: 2105.5 hrs. H: 20,000 ft. Sky markers seemed scattered, there being approx. 1 mile width in radius of same. Clouds obscured results of bombing but glow of fires was seen on clouds about six miles past target.	See Appendix 22
30.12.44.	Halifax NR156 'H' Target: Cologne.	P. J. 13316	P/L J. E. McAllister. And Crew.	1715	2334	Bombing Load. Same as 'D'. T: 2105.5 hrs. H: 19,500 ft. No ground markers, but the sky markers were well concentrated. A large red glow could be seen on cloud which would indicate concentrated bombing.	See Appendix 22
30.12.44.	Halifax M124 'I' Target: Cologne.	P. J. 11816	P/L J. E. Northrup. And Crew.	1721	2336	Bombing Load. Same as 'D'. T: 2105.1 hrs. H: 19,500 ft. Three sets of sky markers which were close together. Bombing run good, and bombed centre of all sky markers. No ground markers were seen. Several glows could be seen through cloud indicating fires.	See Appendix 22

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A. F. FORM 541

DETAIL OF WORK CARRIED OUT

By Nos. 415 (R.O.A.F.) Squadron

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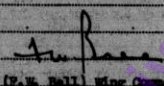
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1194-12111 W.L. 2222-1124 702 813 T.S. 780

FOR THE MONTH OF December, 1944

DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCES
				Up	Down		
30.12.44	Halifax MK249 'J' Target: Cologne	P. J. 20023 P/L And Crew	S.A. Thompson	1714	2332	Bombing load. Same as 'D'. T: 2104.0 hrs. H: 19,300 ft. Bombed centre of sky markers red with green stars. No ground markers seen, but the sky markers were well concentrated. Target totally obscured by cloud, but bombing appeared good from the glow on cloud as leaving target.	See Appendix 22
30.12.44	Halifax MK249 'J' Target: Cologne	P. J. 20270 P/O And Crew	P.A. Donnelly	1716	2341	Bombing load. Same as 'D'. T: 2103.3 hrs. H: 19,300 ft. Sky markers seemed scattered. T.L.'s which were seen cascading on run up were obscured by cloud before we could bomb these. Some good glows could be seen through cloud - see separate observations.	See Appendix 22
30.12.44	Halifax MK249 'J' Target: Cologne	P. J. 2100 P/L And Crew	P.C. Howe	1712	2337	Bombing load. Same as 'D'. T: 2102.0 hrs. H: 19,000 ft. Centre of concentration of sky markers red with green stars. Red T.L.'s were seen to go down 20 miles to port at 2070 hours, but ignored them since we were heading in on geo. No T.L.'s seen on track. Sky markers appeared concentrated. No bombing results could be ascertained.	See Appendix 22
30.12.44	Halifax MK246 'O' Target: Cologne	P. J. 21482 P/O And Crew	J.S. McGuire	1722	2349	Bombing load. Same as 'D'. T: 2107.3 hrs. H: 18,300 ft. No ground marking seen. Sky markers appeared scattered. Few green and orange explosions could be seen and bombing appeared well concentrated.	See Appendix 22
30.12.44	Halifax MK246 'P' Target: Cologne	P. J. 25674 P/O And Crew	L.E. Belcher	1726	2346	Bombing load. Same as 'D'. T: 2104.1 hrs. H: 19,000 ft. Numerous sky markers were seen but appeared to be somewhat scattered. Several glows from fires were seen from target area. After leaving target one T.L. red seen ascending.	See Appendix 22
30.12.44	Halifax MK266 'O' Target: Cologne	P. J. 21436 P/O And Crew	M.E. Goodwin	1724	2337	Bombing load. Same as 'D'. T: 2102.9 hrs. H: 18,000 ft. Fires seemed well concentrated. From estimates on geo sky markers would appear to have been approx. 1 minute early. Reflection of fires on cloud were observed over target, and for distance of 20 miles past target.	See Appendix 22
30.12.44	Halifax MK211 'T' Target: Cologne	P. J. 25731 P/O And Crew	J.H. Negeton	1710	2329	Bombing load. Same as 'D'. T: 2104.5 hrs. H: 18,300 ft. Three sky markers red were seen over target which seemed to be spread out. T.L.'s red which cascaded were not seen on bombing run. Navigator's geo fix places sky markers approx. 1/2 to starboard of target. No bombing results observed due to 10/10 cloud.	See Appendix 22
30.12.44	Halifax MK272 'T' Target: Cologne	P. J. 20249 P/O And Crew	J. Boshart	1728	2342	Bombing load. Same as 'D'. T: 2107.0 hrs. H: 18,300 ft. Made run on sky markers red, but on approach to target observed red glow 300 yds. to port which believed were red T.L.'s. Altered course and bombed on red glow. No results of bombing observed, due to 10/10 cloud.	See Appendix 22

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DATE	AIRCRAFT TYPE & NUMBER	CREW	DUTY	TIME		DETAILS OF SORTIE OR FLIGHT	REFERENCE
				Up	Down		
30.12.44	Halifax NR122 'X' Target: Cologne.	P. J. 37421 P/O And Crew	D. J. Stewart.	1719	2333	Bombing Load. Same as 'D'. T: 2405.2 hrs. H: 18,400 ft. Three sky markers seen, and picked port marker as other aircraft were bombing off our starboard wing. Fires of incendiaries could be seen burning through cloud.	See Appendix 22.
30.12.44	<sup>20/11/44</sup> Halifax NR123 'Y' Target: Cologne.	P. J. 27857 P/O And Crew	A. M. Piper.	1719	2345	Bombing Load. Same as 'D'. T: 2406.3 hrs. H: 18,000 ft. Bombed centre of concentration of red T.I.'s. The markers appeared to be somewhat scattered, but the target was well marked with both red and green T.I.'s and sky markers red with green stars. No bombing results could be seen although these appeared to be a glow of fires through cloud.	See Appendix 22.
30.12.44	Halifax NR261 'Z' Target: Cologne.	P. J. 88172 P/O And Crew	S. W. Moore.	1723	2340	Bombing Load. Same as 'D'. T: 2407.3 hrs. H: 18,000 ft. Fires appeared scattered and estimated approx. one mile starboard of gas fir. No results observed due to 10/10 cloud.	See Appendix 22.

  
 [E. H. Hall] Wing Commander,  
 Commanding,  
 No. 45 (Bomber) Squadron.