Effect of chordwise vanes on amplitude of tail buffeting
By Allen R. Stokke.
Nov.10,1947, 10 p.incl.4 figs. (curves,photos.,line
drawings.)
-Confidential-
NACA RM No.L7H11.

Wings - North American P-51D

Flight tests
Air-flow behavior over the wing of an XP-51
airplane is illustrated by wind-tunnel tests,
as described and interpreted by R.R. Gilruth.
Apr.11,1947. 6 p.,5 figs. (photos.,diagrams,
curves)

Wings - North American P-51

Flight tests
Preliminary trials of a means for testing
aerodynamic bodies in the transonic speed range.
By R.R. Gilruth.
Sept., 1947. 5 p., 6 figs. (curves,diagrams,graph)
SECRET - REJECTED SB

Wings - North American P-51D Mustang

Flight tests
Static strength tests on "Mustang" P-51 D wings, by
Dec.,1950. 14 p.,illus. RESTRICTED

Dept. of Supply, Aeronautical Research
Lab., Structures & Materials Note 185.

7161.

Preliminary surveys were made of the velocity
gradients above the wings of two P-51 type airplanes
Wings - North American P-51F

Static test of .4 scale model wing for model XP-51F airplane (N.A.A. model no. NA-105) class-single seat fighter, by Berry O. Jacobsen. (Contract ac-37857)
Aug. 24, 1943. 11 p., illus. Confidential

Engineering Dept. NA-5852.

1115.1
North Amer.
P-51F/1

Wings - North American P-51H

Mean aerodynamic chord calculations for the P-51H airplane, N.A.A. model no. NA-126. Contract W-33-038 ac-1752.
July 15, 1944. 6 p., illus.

Engineering Dept. NA-6238.

1425
North Amer.
P-51H/1
Airplanes - North American P-51

(0mer.)


Three-view and specification (1 unit).


Footnote: For summary.

Airplanes - North American P-51 Mustang

(0mer.)

North American P-51 Mustang, Teil 2.

Technical data and performance, three-view of the NAA P-51 D-5 Mustang.


Airplanes - North American P-51 Mustang 1 1965

Flight & wind tunnel tests (Exp.) (Amer.)

Correlation of British and American wind-tunnel and flight-test data on the variation of drag coefficient with Mach number. By T.F. Walkowicz. Mar.6, 1945. 7 p. incl. app. (3 figs. (curves))

Confidential

Army Air Forces Serial TSEAL-2-4539-1-6. (E.O.H.R.)

In confidential file

(To present available British and American wind-tunnel and flight-test data on the variation of total and profile drag coefficients with Mach number for the XP-51 (Mustang I))

Airplanes - North American P-51

(0mer.)
Flying qualities and stalling characteristics of North American XP-51 airplane, (A.A.F., No.41-33), by Maurice D. White, Herbert M. Hoover and Howard W. Cariss, Apr.13,1943, 43 p.,incl.charts, tabs., 4 tabs., 55 blueprint figs. (photos., line diagram., curves)

NACA No. for AAF NACOM 1104
Issued as: NACA W. 1-566
9158

Wind tunnel test conditions and results at the Taylor Model Basin on a A.S.W. model of a Pardel configuration, by Robert Lopez, Feb.6,1951, 24 p.,illus. LAL

Pardel Development Corp., New York. H-6103
Effects of Mach number on the span load distribution of a 1/3-scale model of the North American XP-51 airplane with aileron deflected.

By Robert C. Robinson.

Jan. 8, 1946. 12 p. incl. tab.
3 p. (figs., legends), 15 figs. (line + No tabs., curves, photo., diagr.)

Confidential.

Issued as: NACA TN 1129, Sept. 1946.

4076

Airplanes - North American P-51

Flight tests

Flight investigation at high speeds of the drag of three airfoils and a circular cylinder representing full-scale propeller shanks, by William H. Barlow.

1946. 117 p. incl. 18 figs. (curves, photos., diagr.)

NACA Rept. 952.

4105.4 45

Issued as: NACA MR L5105 CRM for AAF ATSC, Sept. 14, 1945 (Title varies)

4105.4 45a

Issued as: NACA TN 1129, Sept. 1946

4105.4 45b

Wings - North American P-51

Wind-tunnel tests (NACA-2-din. pressure)

Wind-tunnel investigation of profile drag and lift of an intermediate wing section of the XP-51 airplane with beveled trailing-edge and contour ailerons, by Frank T. Abbott, Jr. and William J. Underwood.

Jan. 27, 1946. 6 p., 2 blueprint tabs.
14 blueprint figs. (diagrs., curves)

NACA LMR for AAF MatCom

1115.5

North Amer.
P-51/1

Issued as: NACA WR L-615

1115.5

North Amer.
P-51/1

4076

Airplanes - North American P-51

Wind tunnel tests (All High-speed-101) (Amor.)

The effect of Mach number on the aerodynamic characteristics of the XP-51 airplane as determined from tests of a 1/3-scale model, by Robert C. Robinson and Henry Jassen.

2 p. (figs., legends), 14 figs. (line + No tabs., curves)

NACA, AAL MR A5103 CRM for AAF ATSC

1105.5

North Amer.
P-51/1

Issued as: NACA, AAL WR A-76 (Title varies)

34
Airplanes - North American P-31

(AMER.)

An automatically variable control linkage and its effect on the lateral-control characteristics of a high-speed fighter airplane. By Harry Z. Murray and Clarence L. Gillis.

MAY, 1944. 12 p., incl. char., 2 appendices, tab., 3 figs. (curves, diagrs.)

Restricted

NACA Rept No. 1162.

(Effect of variable linkages on an airplane having the geometric characteristics in performance of the P-31, and chosen as representative fighter airplanes.)

Airplanes - North American P-31 Mustang

(AMER.) (Card 2)


Flight, Jan. 6, '44, p. 126. Photos, silhouette line draw.


Aero Digest, Jan. 1, '44, p. 49-51. Plan & constr. Legs & legs only. (Reproduced from Aeroplane)

Airplanes - North American P-31

Flight tests (Experimental) (AMER.) North Amer.

Air-flow behavior over the wing of an XP-31 P-31/1 airplane as indicated by wing-surface tufts at subcritical and supersonic speeds. - By Dr. P. Isley.

April, 1947. 9 p., 7 figs. (photos, charts, curves)

NACA Rep No. 1670.

Airplanes - North American P-51

(AMER.)

NACA Report # 916.

(This "propellerless" airplane was tested by the Northrop P-61 "Black Widow" in drag tests at Edwards A.F.B.)
Airplanes - North American P-51 Flight tests (Amer.) North Amer. P-51/4
Flight measurements by various methods of the drag characteristics of the XP-51 airplane.
By Henry A. Pearson and Dorothy E. Beadle.
June 26, 1946. 18 p., incl. tabs., 2 tabs., incl. char., 7 blueprint figs., (photos., line dwgs., diagr., tabs., curves, graphs)
Confidential
NACA MR No. L6F12 CMR for AAF AirMatCom.
In-confidential file
Issued as: NACA MR L-721, 17 p., illus. 1105.4
North Amer. P-51/4

Airplanes - North American P-51 Mustang
(Amer.)
"Mustang" acquires added fire-power. (The North American P-51 has recently been equipped with a .50-cal. machine gun, making it capable of destroying locomotives and small merchant ships. It still retains its basic qualities as a fighter at altitudes up to 15,000 feet.)
Aero Digest, Aug., 1943, p. 127; Photos.

Airplanes - North American P-51 Flight tests (Experimental) (Amer.)
Flight measurements of internal cockpit pressures in several fighter-type airplanes.
By Edward C. B. Dunforth, III and John P. Reeder. (ThD no. NACA 2417)
Feb. 15, 1946. 11 p., incl. tabs., 11 figs., (photos, curves)
Issued as: NACA T.N. 1173, Feb., 1947.

Airplanes - North American P-51
Flight tests (Amer.)
Preliminary tests of several airfoil models in the transonic speed range.- By K.R. Gilruth and J.W. Wetmore.
May, 1945. 10 p., 13 figs., (curves, diagrs.)
Confidential
NACA ACR No. L5t03.
In-confidential file.

(P-51 airplane was used for tests)
Airplanes - North American P-51 Mustang

Flight tests

Lateral-control characteristics of North American XP-51 airplane (A.C. No. 41-38) with beveled trailing-edge ailerons in high-speed flight, by Herbert H. Hoover and Maurice D. White. Nov. 27, 1942. 13 p., 5 blueprint figs. (photos., curves)

NACA RMR for AAF MatCom

Issued as: NACA WR L-597

9694

Airplanes - North American P-51 Mustang


Confidential

NACA RMR for AAF MatCom

Issued as: NACA WR L-597

1104

North Amer. P-51/1

1104

North Amer. P-51/1
Flight tests of beveled-trailing-edge ailerons with various modifications on a North American XP-51 airplane (AAF No. 41-38), by Maurice D. White and Herbert H. Hoover.

29 blueprint figs. (diagrams, curves, photos, graph)

NACA RMR for AAF Mater.

Issued as: NACA WR L-550

9135

Airplanes - North American P-51 (Experimental)

Flight tests (Experimental) (Amer.)

Correlation of flight data on limit pressure coefficients and their relation to high-speed buffeting and critical tail loads, by Richard V. Rhode.

Sept. 1, 1944. 19 p., 16 figs. (curves, photos.)

NACA ACR L4127

Issued as: NACA WR L-269

9111.4

8792
Airplanes - North American P-51
Flight tests (Experimental) (Amor.)

Flight tests of modifications to improve the aileron control characteristics of a North American XP-51 airplane (A.C. No. 41-38) by M.D. White and Herbert H. Hoover.
June 20, 1942. 9 pl., 5 figs. (photos, diagr., tabs., curves)

NACA RMR for AAF
1136.3
North Amer. P-51/2
1136.3
North Amer. P-51/3

Issued as: NACA WR L-636
9304

Airplanes - North American P-51
Flight tests (Experimental) (Amor.) North Amer.

Flight tests of the effect of high-speed sealing the gaps in the oil and ethylene-glycol radiator scoop on the North American XP-51 airplane (A.C. No. 41-38) by Maurice D. White and Herbert H. Hoover.
Sept. 5, 1942. 3 pl. 2 figs. (photos, diagr., tabs., curves), 7 p. incl. tab., 4 figs. (photos, blueprint dia., curve).

NACA
1104.4
North Amer. P-51/1

Airplanes - North American P-51 Mustang

Fighter monoplane (low).
Ellison 1150-hp.

Western Flying, March, '42, p.69. Photos, wing span.
Aviation, Dec. '42, p.177. Photos, line draw., etc.
Western Flying, Apr. '43, p.136. Photos, dim. view.
Aviation, Dec. '43, p.163. Photos, silhouette line draw.
Dim. view, speed (approx.)
Western Flying, April '43, p.140. Photos, line draw., etc.

Airplanes - North American P-51 - Vibration

Commonly used (Amer.)

Flutter inspection of the North American P-51 P-51/1 airplane. By E.H. Kramer.
June 22, 1942. 16 p. incl. char., 4 tabs., 2 figs. (curves), 4 appendices.

Air Corps Serial BAC-51/P185-5. (E.S.M.R.) L.MAL

Airplanes - North American P-51 Mustang

Victory cites research gains. Describes NACA development of laminar flow high-speed wing as example of need for continuous work.


1111 L
226
Airplanes - North American P-51B
Flight tests
(Amer.) 207
Effect of Mach and Reynolds numbers on maximum lift coefficient. - By John R.
Spreiter and Paul J. Steffen.
Mar., 1946. 20 p. incl. tabs., ref. (16)
16 figs. (diagrams, photos, curves)
NACA, AAL T.N. 1044.

Airplanes - North American P-51B
Flight & wind tunnel tests (AAL-high-speed-16')
(Amer.)
Correlation of the drag characteristics of a P-51B airplane obtained from high-speed wind-tunnel and
flight tests, by James M. Nissen, Burnett L. Gadeberg
and William T. Hamilton.
Feb., 1945. 14 p. incl. char.
25 figs. (diagrams, line dwgs., photos, curves)
NACA, AAL AGR 4402.
Issued as: NACA, AAL WR A-62.
Issued as: NACA, AAL report. 915, 1948
(Titles vary)
9623
PRELIMINARY COMPARISON OF HIGH-SPEED WIND-TUNNEL AND FLIGHT-TEST RESULTS. Manley J. Hood. NACA, AAL.
July 21, 1944.
Airplanes - North American P-51B

Flight tests

(Amer.) North Amer.

Pressure surveys behind the propeller cells of a P-51B airplane at military power and high-speed level flight speeds. By T.J. Vogelweide.

Nov. 9, 1944

3 p., 2 blueprint tab.

1 blueprint fig. (photos, curves, diagrams)

Confidential

NASA NA No. L2K-2l.e CMR for AAF ATSD

in confidential file

Airplanes - North American P-51B

Flight tests

(Amer.) North Amer.

High-speed performance of a P-51B airplane at military rated power in the low blast. By Bernard E. Kilmany and T.J. Vogelweide.

Nov. 21, 1944

9 p., incl. app.

1 blueprint tab., 10 blueprint figs. (photos, curves)

Confidential

NASA NA No. L2K-2l.e CMR for AAF ATSD

in confidential file

Airplanes - North American P-51B

Flight tests

(Amer.) North Amer.


Dec. 18, 1944

18 p., incl. app.

1 tab., 2 p. (fig., legends)

21 blueprint figs. (photos, curves)

Confidential

NASA NA No. L2K-2l.e CMR for AAF ATSD

in confidential file
Airplanes - North American P-51B
Wind tunnel tests (AAL-High-speed-16') (Amer.)

Spanwise lift distribution at various Mach numbers for the P-51B airplane, by D.B. Parke.
Oct. 15, 1943. 8 p., illus. LAL

A&F NatCom (Wright Field) (E.D.H.R.) Serial
-51-Aer 194.

8895
North Amer. P-51B/1

Airplanes - North American P-51B
Wind tunnel tests (AAL-High-speed-16') (Amer.) 256
Note on compressibility effects on downward
at the tail at subcritical speeds. By Jack N.
Nielsen and Arnold H. Seeberg.
Mar. 1945. 8 p., 8 figs. (curves)
Confidential. L

A&F Co No 1500.
1 Confidential file NACA WQ - 11 Q

(Lift data obtained from tests of complete models of
P-51B and XP-51 airplanes in A&F high-speed wind
channel.)
FLIGHT REPORT OF PROCUREMENT, DEVELOPMENT, INSPECTION, PERFORMANCE, AND ACCEPTANCE OF XP-51B AIRPLANES.


Airplanes - North American P-51B

Investigation of the aftercooler system of the P-51B airplane for P-51B-1-NA series airplane (NA-102), contract AC-33923, fighter (monoplace), by P.L. Smith. Oct. 12, 1943. 16 p., illus. IFPL.


Airplanes - North American P-51B

Wind tunnel tests (All-High-speed) (Exp.) (Amer.)

Elimination of rumble from cooling ducts on the North American XP-51B airplane, by Howard F. Matthews. Aug. 9, 1943. 12 p., incl. tab., 4 tabs, 29 figs., photos, diagrs., curves, tabs.)

NACA AAL RMR for AAF MatCom

Issued as: NACA, AAL WR A-70 (Title varies)

1105.5
North Amer.
P-51B/1

1105.5
North Amer.
P-51B/1

Airplanes - North American P-51B (Experimental) (Amer.)

Preliminary engine cooling tests, XP-51B airplanes, by L.R. Festal. (Prelim. data) May 23, 1943. 4 p., illus. RESTRICTED IFPL.


3318
Directional stability and control flight tests on various modifications to the P-51B-1-NA airplane, N.A.A. model no. NA-102, fighter - monoplace. Mar. 9, 1944. (1), 39 p., illus. AAL.


Comparison of the energy method with the accelerometer method of computing drag coefficients from flight data, by Thomas L. Keller and Robert F. Keuper. Oct., 1945. 11 p., incl. 2 appendices, diagrs. 8 figs. (curves)

NACA, AAL CB 5H31c. 1105.4
Issued as: NACA, AAL WR A-57 1105.4

A comparison of two flight-test procedures for the determination of aileron control capabilities of an airplane, by Richard B. Skoog. July, 1945. 5 p., incl. tab. 7 figs. (curves)

NACA, AAL ARR 5E22. 1136.3
Issued as: NACA, AAL WR A-37 1136.3
Airplanes - North American P-51B-1-NA.
Flight tests (Amer.)

Engine cooling acceptance tests for model P-51B-1-NA airplane (N.A.A. model no. NA-102), fighter (monoplane),
by H.O. Owens.
July 23, 1943. 13 p., illus. LFPL
North Amer. Aviation, Inc., Inglewood, Calif. N-256
Engineering Dept. NA-5802
AAF, (AircraftCom, Wright Field) Contract
0-515-ac-33223.

(Add.1: Engine cooling acceptance tests, P-51B series airplanes, by E. Freschi)
3396(1)

Airplanes - North American P-51B-5
Flight tests (Amer.)

Engine cooling tests, P-51B-5 and P-51C-1 airplanes
for model P-51B-5-NA and P-51C-1-NT Series airplanes,
N.A.A. model no. NA-103, NA-104, fighter (monoplane),
by H.O. Owens.
Aug. 3, 1943. 18 p., illus. LFPL
North Amer. Aviation, Inc., Inglewood, Calif. N-256
Engineering Dept. NA-5750, Test 200B.
AAF, (AircraftCom, Wright Field) Contract
0-935-ac-9904.
AAF, (AircraftCom, Wright Field) Contract
0-935-ac-30479.

(Add.1: Engine cooling acceptance tests, P-51B-5 and P-51C-1 airplanes, by H.O. Rolleson)
3153(1)
Airplanes - North American P-51C-1
Flight tests (Amer.)

Engine cooling tests, P-51B-5 and P-51C-1 airplanes for model P-51B-5 and P-51C-1-71 series airplanes, N.A. model no. NA-103, NA-106, fighter (monoplane), by E.G. Ovens.
Aug. 13, 1943. 18 p., illus. IPFL


(Add.1: Engine cooling acceptance tests, P-51B-5 and P-51C-1 airplanes, by E.G., Wolleson)
Airplanes - North American P-51D
Flight tests

Longitudinal stability and control characteristics of a semispan model of a supersonic airplane configuration at transonic speeds from tests by the NACA wing-flow method, by Norman S. Silsby and James M. McKay.
Nov. 8, 1945. 30 p., incl. 16 figs. (curves, diagrs., photos.), tab.

NACA RM L830.

1104
577

Airplanes - North American P-51D
Flight tests

Compressibility dive tests on the North American P-51D airplane with an extended fin and a metal covered rudder with zero boost tab, by Ralph J. Munziato.
July 11, 1945. 69 p., illus. Confidential LAL
AAF, ATSG, (Wright Field) (Flight Sect., Memo., Rept.)
Serial TSCEP5E-1926.

8449

1104
North Amer., P-51D/1

Airplanes - North American P-51D
Flight tests

Effect of Mach number on the maximum lift and buffeting boundary determined in flight on a North American P-51D airplane. - By John P. Mayer.
June 12, 1947. 11 p., 8 figs. (photos., graphs, curves)

NACA RM No. 16110

1105
5a
North Amer.,
P-51D/1
Airplanes - North American P-51D

Flight tests


Apr. 11, 1947. 11 p. incl. tab.
12 figs. (diagrams, photos, curves)
Confidential.

NACA RM No. L7025a
In confidential file
Issued as: NACA RM No. L6009 C&R for AAF AirdatCom & Navy.
Apr. 11, 1946. Confidential
In confidential file

Airplanes - North American P-51D Mustang

1-pl. fighter monoplane (low)
Packard Rolls-Royce Merlin 66

Aeroplane, Oct. 6, 1944, p. 394-5; Wash line dwgs., dim., arm.
Aero Digest, July 15, 1945, p. 64-8, 131; Plan & constr. dwgs., dim., arm.

Airplanes - North American P-51D

Flight tests

Longitudinal stability and control characteristics of a semispan airplane model with a sweptback wing and tail from tests at transonic speeds by the NACA wing-flow method. - By Richard H. Sawyer and Lindsay J. Lina.

July 23, 1948. 42 p. incl. 20 figs. (curves, diagrams, photos.)
Confidential

NACA RM L5819.
7309

Airplanes - North American P-51D

Flight tests

Measurements of aerodynamic characteristics of a 35° sweptback NACA 65-009 airfoil model with ½-chord plain flap by the NACA wing-flow method. - By Harold I. Johnson.

Aug. 5, 1947. 15 p., 20 figs. (photos, diagrams, curves)
Confidential

NACA RM No. L7F13. 1104
528

NACA 65-009/3
**Airplanes - North American P-51D-5-NA**

**Flight tests**

(Amer.) North Amer.


May 17, 1945. 9 p. incl. charts.

13 figs. (line dwgs., photos., diagrs., curves) (blueprint)

Confidential

NACA RM No. L7H11.

1105.4

North Amer.

P-51D/3

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**Airplanes - North American P-51D-30**

**Flight tests**

(Amer.) North Amer.

ATSC cold weather tests, winter 1944-1945.

May 31, 1945. 21 p., illus.

Restricted

AAF, ATSC, Wright Field, TR 5230.

7635

1201

33
Airplanes - North American P-51F (Experimental) 1105.4
Flight tests (Amer.) North Amer.
Confidential memorandum report for War Air Forces Material Command. Restricted

Airplanes - North American P-51D-20-NA 1104
Flight tests (Amer.) North Amer.
Restricted

Airplanes - North American P-51F (Experimental) 1101
Restricted

In confidential file.
Airplanes - North American P-51C (Experimental)

Dec. 4, 1947. 20 p. incl. photos, charts, perf.
Restricted

USAF, Air Materiel Command, Wright-Patterson Air Force Base.
TR 5653.

1980

Airplanes - North American P-51H Mustang

THE NORTH AMERICAN AVIATION P-51H MUSTANG pt. I
David R. McLaren
AAMS Journal, v. 25, no. 2, Summer 1980
p. 129-139.

Includes cutaway drawing

The II model Mustang was the P-51 version which totally evolved as the end result of knowledge gained through combat experience and the observed shortcomings of its predecessor.
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<td>AERODYNAMIC DIMENSIONAL DATA ON THE P-51H AIRPLANE</td>
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<td>E. J. Horkey and L. L. Waite - June 13, 1944 - 34 p</td>
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<td>Aerodynamic load calculations for model P-51H airplane (E.A.A. Model NA-126), long range fighter, by Harvey J. Fago - Apr.13, 1944 - 101 p, illus. AAF</td>
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<td>Measurements of the lateral and directional stability and control characteristics of a P-51H airplane (AAF No.4-46164). - By Christopher C. Kraft, Jr. and J.P. Reeder.</td>
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<td>Jan. 27, 1948. 11 p.incl.tabs.</td>
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**Airplanes - North American P-51H Mustang**

(Amer.)

The North American P-51H... More than 50 aerodynamic and structural modifications are incorporated compared with the P-51D... New aerofoil section of lower drag...

Latest model of the Packard-built Merlin motor with a power output of over 2,000 h.p. The control system is greatly simplified, permitting the pilot to devote a minimum of attention to its operation.

**News of the week.**

*Airplane, Aug. 10, 1945, p. 166;lim., speed, range, arm.*

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**Airplanes - North American P-51H Mustang**

(Amer.)

The P-51H Mustang... Powered by a Packard-built Merlin of 2,000 h.p., it cruises with a top speed of over 400 m.p.h. and increased range and ceiling.

*Flight, Aug. 15, 1945, p. 167;photo & fig. only(speed).*

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**Airplanes - North American P-51H**

Effect of gunfire

Analysis and design of replica targets for acceptance and development of incendiary aircraft ammunition, by F. Tokosch & F. S. Thornley.

Jan. 29, 1932. 98 p., illus. LPTL

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**Airplanes - North American P-51H**

Flight tests

North American P-51H airplane - flight vibration survey, by D.C. Kernard, Jr.

July 11, 1945. 37 p., illus.

USN, TSO, (Wright Field) (E.D. J.K.) N-11096

Serial N2EN-12-3302-28-18, admal.


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