NASA Technical Paper 1805



NAŠA TP 1805 c.1

Low-Speed Aerodynamic Performance of an Aspect-Ratio-10 Supercritical-Wing Transport Model Equipped With a Full-Span Slat and Part-Span and Full-Span Double-Slotted Flaps

Harry L. Morgan, Jr.

APRIL 1981

NAS

FOR EARLY DOMESTIC DISSEMINATION

Because of its significant early commercial potential, this information, which has been developed under a U.S. Government program, is being disseminated within the United States in advance of general publication. This information may be duplicated and used by the recipient with the express limitation that it not be published. Release of this information to other domestic parties by the recipient shall be made subject to these limitations.

Foreign release may be made only with prior NASA approval and appropriate export licenses. This legend shall be marked on any reproduction of this information in whole or in part.

Review for general release March 31, 1983

FEDD DOCUMENT

Note that this document bears the label "FEDD," an acronym for "FOR EARLY DOMESTIC DISSEMINATION." The FEDD label is affixed to documents that may contain information having high commercial potential.

The FEDD concept was developed as a result of the desire to maintain U.S. leadership in world trade markets and encourage a favorable balance of trade. Since the availability of tax-supported U.S. technology to foreign business interests could represent an unearned benefit, research results that may have high commercial potential are being distributed to U.S. industry in advance of general release.

The recipient of this report must treat the information it contains according to the conditions of the FEDD label on the front cover.



NASA Technical Paper 1805

Low-Speed Aerodynamic Performance of an Aspect-Ratio-10 Supercritical-Wing Transport Model Equipped With a Full-Span Slat and Part-Span and Full-Span Double-Slotted Flaps

Harry L. Morgan, Jr. Langley Research Center Hampton, Virginia

National Aeronautics and Space Administration

Scientific and Technical Information Branch

SUMMARY

An investigation was conducted in the Langley 4- by 7-Meter Tunnel to determine the static longitudinal and lateral-directional aerodynamic characteristics of an advanced aspect-ratio-10 supercritical-wing transport model equipped with a full-span leading-edge slat as well as part-span and full-span trailing-edge flaps. This wide-body transport model was also equipped with spoiler and aileron roll-control surfaces, flow-through nacelles, landing gear, and movable horizontal tails. Six basic wing configurations were tested during this investigation and consisted of (1) cruise (slats and flaps nested), (2) climb (slats deflected and flaps nested), (3) part-span flap, (4) full-span flap, (5) full-span flap with low-speed ailerons, and (6) full-span flap with high-speed ailerons. Each of the four flapped wing configurations was tested with the leading-edge slat and the trailing-edge flaps deflected to settings representative of both take-off and landing conditions. The tests were conducted at free-stream conditions corresponding to Reynolds numbers (based on the mean geometric chord) of 0.97 to 1.63×10^6 and corresponding Mach numbers of 0.12 to 0.20, through an angle-of-attack range of -4° to 24° and a sideslipangle range of -10° to 5°. The part- and full-span wing configurations were also tested in ground proximity.

The longitudinal test results show that all the wing configurations tested exhibited wing-tip stall behavior followed by a reduction in longitudinal stability. With either take-off or landing flap settings and at a given untrimmed lift coefficient, the three full-span flap configurations produced more negative pitching-moment coefficients than the part-span flap configurations and, therefore, incurred higher trim drag penalties. A comparative analysis of the trimmed performance characteristics of the four flapped wing configurations tested indicates that the configuration with full-span flaps and low-speed ailerons had slightly better trimmed performance than the other three flapped configurations. The lateral test results show that the lateral-directional stability of each flapped wing configuration with landing flap settings was slightly less than the stability of the corresponding configuration with take-off flap settings. For the full-span flap wing configuration with either take-off or landing flap settings, large deflections of the left outboard rollcontrol spoilers produced changes in rolling-moment coefficient as great as those produced by differential deflections of the low-speed ailerons for the corresponding part-span flap wing configurations. Large deflections of the roll-control spoilers also resulted in an unfavorable loss of lift, a positive shift in pitching moment, and an increase in negative yawing moment.

INTRODUCTION

The rapid worldwide increase in the consumption and price of crude oil in recent years has generated a renewed interest by many government and private research organizations in ways of improving the energy efficiency of vehicles that use fuels distilled from crude oil. In particular, NASA has been actively

involved in an aeronautical research project to improve the energy efficiency of modern wide-body jet transport aircraft. The Aircraft Energy Efficiency (ACEE) project was formulated to stimulate research efforts by both industry and NASA. One element of the ACEE project is the Energy Efficient Transport (EET) program which is concerned primarily with the development of advanced aerodynamic and active-controls technology for application to derivative or next-generation transport aircraft. One part of the EET program has been the aerodynamic development, by NASA Langley Research Center (LaRC) personnel, of advanced supercritical wings with greater section thickness-chord ratios, higher aspect ratios, higher cruise lift coefficients, and lower sweepback than the conventional wings on current transports. These advanced supercritical wings have been tested extensively in the LaRC wind tunnels to determine their highspeed cruise performance characteristics (refs. 1 and 2). Because of their high cruise lift coefficients and high aspect ratios, these wings could be smaller and more fuel efficient than conventional wings, provided the low-speed, highlift performance requirements could be met.

To determine the low-speed performance characteristics of a representative high-aspect-ratio supercritical wing, a 3.66-m (12-ft) span low-speed jet transport model was fabricated and tested in the Langley 4- by 7-Meter Tunnel as reported in reference 3. This model was equipped with a conventionally sized part-span, double-slotted trailing-edge flap system, full-span leading-edge slat, low- and high-speed ailerons, spoilers, and interchangeable aspect-ratio-12 and aspect-ratio-10 wing tips. The present investigation was conducted to determine the low-speed performance characteristics of the aspect-ratio-10 version of this model equipped with both a part-span and full-span, double-slotted trailingedge flap system. The model tested was a 3.23-m (10.59-ft) span model of an advanced long-range, wide-body jet transport with cruise wing and fuselage dimensions similar to those of the NASA SCW-2c supercritical wing model tested in the Langley 8-Foot Transonic Pressure Tunnel and reported in references 1 and 2. This wing had an aspect ratio of 10, a 27° quarter-chord sweep, and streamwise supercritical airfoil sections that varied in maximum thickness-chord ratio from approximately 0.15 at the wing root to 0.107 at the wing tip.

The basic high-lift flap system consisted of both part-span and full-span double-slotted trailing-edge flaps and a full-span leading-edge slat. The trailing-edge flap consisted of an advanced design large vane and small aft flap combination, as opposed to the more conventional combination of small vane and large flap. Also, as part of the EET program, a similarly designed large vane and small aft flap combination was tested extensively by the Douglas Aircraft Company and is reported in reference 4. The part-span flap configuration was also equipped with inboard high-speed ailerons, outboard low-speed ailerons, and spoilers at the inboard and outboard flap locations. The full-span flap configuration was obtained by replacing the high- and low-speed aileron segments with double-slotted flap segments equipped with spoilers. Both part- and fullspan flap configurations were also equipped with two wing-mounted flow-through nacelles, landing gear, fixed vertical tail, and movable horizontal tails.

Two additional high-lift flap configurations were tested during this investigation. The first was obtained by replacing the inboard high-speed aileron segment of the part-span flap system with a double-slotted flap segment and was designated as the full-span flap with low-speed ailerons wing configuration. The second was obtained by replacing the outboard low-speed aileron segment of the part-span flap system with a double-slotted flap segment and was designated as the full-span flap with high-speed ailerons wing configuration. Each of the four flapped wing configurations was tested with the flap elements set at a moderate deflection to represent take-off conditions and at a high deflection to represent landing conditions. Each of the four flapped wing configurations was tested with the full-span leading-edge slat fully deflected; the part-span and full-span flap wing configurations were also tested with the slat nested. In addition to the four flapped wing configurations, a cruise wing configuration (slats and flaps nested) and a climb wing configuration (slats fully deflected and flaps nested) were also tested. A total of 10 wing configurations were tested: (1) cruise, (2) climb, (3, 4) part-span flap take-off and landing, (5, 6) full-span flap take-off and landing, (7, 8) full-span flap with low-speed ailerons take-off and landing, and (9, 10) full-span flap with high-speed ailerons take-off and landing.

The cruise, climb, part-span take-off, and part-span landing flap wing configurations were also tested during a previous investigation reported in reference 3. As pointed out in the discussion section of that report, a thorough check of the vane and flap positioning after completion of the tunnel tests revealed an error of 0.6 cm (0.25 in.) in the lateral displacement of the left wing inboard flap system. This error in lateral displacement was corrected prior to this investigation, and selected tests of the part-span flap wing configuration with both take-off and landing flap settings were repeated.

This investigation was conducted in the Langley 4- by 7-Meter Tunnel at free-stream conditions corresponding to Reynolds numbers (based on the mean geometric chord) of 0.97 to 1.63×10^6 and corresponding Mach numbers of 0.12 to 0.20, through an angle-of-attack range of -4° to 24° and a sideslip-angle range of -10° to 5° . The part- and full-span, take-off and landing flap wing configurations were also tested in proximity of the tunnel floor to simulate ground effects. The model was instrumented with a six-component strain-gage balance to measure aerodynamic forces and moments and with chordwise surface static-pressure taps at three spanwise stations to determine representative wing and flap loads. The pressure data obtained during this investigation are presented in graphic and tabular form in reference 5. This report presents and discusses the static longitudinal and lateral-directional aerodynamic data obtained during this investigation.

SYMBOLS AND ABBREVIATIONS

The longitudinal forces and moments presented in this report are referenced to the stability-axis system and the lateral forces and moments to the body-axis system. The moment data are referred to a moment center located on the model center line (intersection of the wing reference plane and model symmetry plane) at the 1.64-m (5.39-ft) body station, which is 46.72 cm (18.39 in.) longitudinally aft of the wing root leading edge. The longitudinal location of the moment center corresponds to the quarter-chord point location of the mean geometric chord of the trapezoidal wing planform (planform without trailing-edge extension) which extends from the model center line to the wing tip. The aerodynamic coefficient data are based on the trapezoidal wing planform which has a reference

area of 1.04 m² (11.21 ft²), a reference span of 3.23 m (10.59 ft), and a reference mean geometric chord of 34.14 cm (13.44 in.).

All measurements and calculations were made in U.S. Customary Units. Values presented herein are given in the International System of Units (SI), with the equivalent values in U.S. Customary Units given parenthetically.

aspect ratio, $\frac{b^2}{c}$ Α wing span, m (ft) b local streamwise wing chord, cm (in.) С ē reference mean geometric chord, cm (in.) drag coefficient, $\frac{\text{Drag}}{\text{qS}}$ (CD in computer-generated tables) CD lift coefficient, $\frac{\text{Lift}}{\sigma S}$ (CL in computer-generated tables) C_{L} rolling-moment coefficient, Rolling moment (CRM in computer-generated \mathbf{c}_l tables) effective dihedral parameter based on increment of C_l between ClB $\beta = -10^{\circ}$ and 5° ; $\frac{\partial C_l}{\partial \beta}$; $1/\deg$ Pitching moment pitching-moment coefficient, Cm (CPM in computer-generated aSc tables) yawing-moment coefficient, $\frac{Yawing moment}{qSb}$ (CYM in computer-generated Cn tables) directional stability parameter based on increment of C_n between CnR $\beta = -10^{\circ}$ and 5°; $\frac{\partial C_n}{\partial \beta}$; 1/deg

Side force side-force coefficient, Cy (CSF in computer-generated tables) side-force parameter based on increment of C_V between $\beta = -10^{\circ}$ CYR and 5°; $\frac{\partial C_{Y}}{\partial B}$; 1/deg $9C^{m}$ longitudinal stability parameter (CMCL in computer-generated tables) 9CL wing efficiency factor, $C_D = C_{D,O} + \frac{C_L^2}{T_{D,O}}$, where $C_{D,O}$ is drag coefe ficient at zero lift h/b height-to-span ratio of model moment reference center above floor, m (ft) (H/B in computer-generated tables) it incidence of horizontal tail, positive for leading edge up, deg (ISUBT in computer-generated tables) lift-drag ratio (L/D in computer-generated tables) L/D free-stream Mach number (MACH in computer-generated tables) М free-stream dynamic pressure, kPa (lb/ft^2) (Q in computer-generated q tables) R_C free-stream Reynolds number based on c wing reference area, m^2 (ft²) S t/c wing thickness-chord ratio angle of attack of model reference center line, positive nose up, deg α (ALPHA in computer-generated tables) β angle of sideslip of model reference center line, positive nose left, deg (BETA in computer-generated tables) δa aileron deflection angle, positive for trailing edge down, deg δf flap deflection angle, positive for trailing edge down, deg δs slat deflection angle, positive for trailing edge down, deg δsp spoiler deflection angle, positive for trailing edge up, deg

δυ

η

vane deflection angle, positive for trailing edge down, deg

nondimensional wing semispan location

Subscripts:

corr corrected

l left

max maximum

r right

Abbreviations:

L.E. leading edge

T.E. trailing edge

W.R.P. wing reference plane

MODEL DESCRIPTION

The high-lift research model tested during this investigation had a 3.23-m (10.59-ft) span and was representative of an advanced long-range, wide-body jet transport with cruise wing and fuselage dimensions scaled from those of the NASA SCW-2c high-aspect-ratio supercritical model developed at the NASA Langley Research Center and reported in reference 1. The wing was fabricated with removable leading- and trailing-edge segments. The cruise wing segments could be removed easily and replaced with a leading-edge slat and trailing-edge spoiler/flap and aileron segments. Although many wing configurations were possible, six basic wing configurations were tested during this investigation: (1) cruise (slats and flaps nested), (2) climb (slats deflected and flaps nested), (3) part-span flaps, (4) full-span flaps, (5) full-span flaps with lowspeed ailerons, and (6) full-span flaps with high-speed ailerons. Each of the four flapped wing configurations was tested with the full-span leading-edge slat and the trailing-edge flap segments deflected to settings representative of both take-off and landing conditions. A detailed wing planform layout of the basic control and flap surfaces is presented in figure 1(a); a sketch of the six basic wing configurations tested is presented in figure 1(b). Photographs of the model installed in the Langley 4- by 7-Meter Tunnel are shown in figure 2. The pertinent model geometric characteristics are summarized in table I. Detailed wing and flap component surface coordinates are given in references 5 and 6.

The model was fabricated with aluminum wings, a glass fiber fuselage, and an empennage for minimal deflections at the design conditions of a maximum tunnel dynamic pressure of 2.87 kPa (60.0 lb/ft^2) and a maximum wing lift coefficient of 3.0. The empennage consisted of movable horizontal tails without elevators and a fixed vertical fin without a rudder. The horizontal tails were mounted on the model with a geared, pivoting bracket that allowed for incidence angles from -15° to 15° in 5° increments. The model was also equipped with two wing-mounted, flow-through nacelles with scaled external dimensions similar to those of a typical high-bypass ratio (approximately 6) turbofan engine used on current wide-body jets. The model was also equipped with simulated landing gear and doors attached to the wing and fuselage underside near the nose.

The basic cruise wing was designed with an aspect-ratio-10 trapezoidal planform which extended from the model center line to the wing tip and had 27° quarter-chord sweep. The wing had an inboard trailing-edge extension that started at the $\eta = 0.434$ wing semispan station and increased the chord at the center line by 40 percent. The wing had streamwise supercritical sections with maximum thickness-chord ratios of 0.144 at the side-of-body semispan location $(\eta = 0.109)$, 0.120 at the trailing-edge break station $(\eta = 0.434)$, and 0.107 at the wing tip $(\eta = 1.0)$. The wing was mounted on the fuselage with a 5° dihedral angle and a -1° incidence angle at the wing center line.

Control and Flap Systems

The leading-edge slat, trailing-edge flap, and spoiler and aileron control surface areas were sized and positioned spanwise on the basis of a comparative analysis of several existing designs for lower aspect-ratio-6 to aspect-ratio-8 transport wings. The trailing-edge flap had a double-slotted flap that consisted of an advanced design large vane and small aft flap combination in comparison with the more conventional small vane and large aft flap combinations. Advanced designs similar to this combination have recently been under development by several aircraft manufacturers (ref. 4) and have experimentally achieved maximum two-dimensional lift coefficients approaching those achieved by the more complex triple-slotted flap systems. The structural loads produced by this flap combination are less severe than those of the conventional combinations because a greater percentage of the total vane/flap loads are generated by the more closely coupled large vane component.

For the part-span flap configuration, a simple-hinged, high-speed aileron segment was positioned outboard of the break station, and a simple-hinged, lowspeed aileron segment was positioned outboard of the outboard flap segment. The left and right high-speed ailerons could be deflected from -30° to 50° , and the left and right low-speed ailerons, from -30° to 30° . Both left and right inboard flap segments were equipped with ground spoilers, and both left and right outboard flap segments were equipped with flight spoilers. The left and right ground and flight spoilers could be deflected to either 45° or 60° , which are primarily ground lift-loss and speed-break deflections. The left outboard flight spoiler could also be deflected from 0° to 20° in 4° increments, which are primarily flight roll-control deflections.

To obtain the three full-span flap configurations tested, the left and right high- and/or low-speed aileron segments of the part-span flap configuration were replaced with properly contoured double-slotted flap segments equipped with flight spoilers. Both left and right flight spoilers could be deflected either 45° or 60° , and the left flight spoilers could also be deflected from 0° to 20° in 4° increments. The flight spoilers of the flap segment used to replace the left low-speed aileron segment will be called "roll-control spoilers."

Slat and Flap Settings

The slat, vane, and flap components were set at deflections representative of either climb, take-off, or landing wing configurations, and the corresponding gaps and overlaps were then optimized for maximum lift using the theoretical two-dimensional, multicomponent airfoil analysis program described in reference 7. A sketch of the deflection, gap, and overlap definition employed during this investigation is presented in figure 3. The deflections and overlaps are defined relative to the longest chord of the particular components. The longest chord is defined as the distance from the midpoint of the trailing-edge base of the component to the forward-most leading-edge coordinate. The overlap is defined as the distance from the lower surface trailing-edge coordinate of the forward component along its longest chord to a point at which a perpendicular dropped from that chord intersects the forward-most coordinate on the leading edge of the aft component. The gap is defined as the shortest distance from the lower surface trailing-edge coordinate of the gap is defined as the shortest distance from the lower surface trailing-edge coordinate of the gap is defined as the shortest distance from the lower surface trailing-edge coordinate of the forward component.

The component geometries of the flapped wing sections at the trailing-edge break station ($\eta = 0.434$) were used to perform the theoretical two-dimensional gap and overlap optimizations. The results of the optimizations are summarized in the following table:

Wing configuration	Component	Deflection, deg	Gap/c	Overlap/c
Climb	Slat	-50	0.02	0.02
Take-off	Slat	-50	0.02	0.02
	Vane	15	.015	.04
	Flap	15	.01	.01
Landing	Slat	-50	0.02	0.02
	Vane	30	.02	.03
	Flap	30	.01	.005

These two-dimensional deflections, gaps, and overlaps were incorporated into the actual three-dimensional wing using positioning jigs located at the edges of the leading-edge slat and trailing-edge flap segments. For each wing configuration, the trailing-edge vane and flap component deflections, gaps, and overlaps at the trailing-edge break station were set initially, and the deflections of the positioning jigs for the inboard and outboard segments were then individually adjusted in the streamwise direction to maintain the proper gaps and overlaps. The change in deflections for the inboard and outboard segments was necessary because of the geometric twist of the wing. The trailing-edge vane and flap components were also translated slightly in an attempt to keep their pressure taps in the same streamwise plane as that of the main wing taps. The gaps and overlaps of the inboard vane and flap components were set at constant values along the segment span and were based on the local cruise wing

chord at the trailing-edge break station. The gaps and overlaps of the outboard vane and flap components were set at constant percentage values based on the local chord.

The trailing-edge vane/flap brackets were attached in planes parallel to the wing symmetry plane. The leading-edge slat was positioned in a similar manner except that the inboard and outboard segments were adjusted in planes perpendicular to the leading-edge of the cruise wing. The gap and overlap were set at constant percentage values based on the local chord of the wing without the trailing-edge extension (trapezoidal planform). The leading-edge slat brackets were attached in planes perpendicular to the wing leading edge. No attempts were made to account for the deflection of either slat or flap brackets under aerodynamic loading.

Wing Pressure Taps

The pressure data obtained during this investigation are presented in both graphic and tabular form in reference 5. As illustrated in figure 1(b), the wing was instrumented with chordwise rows of surface static-pressure taps at three spanwise stations labeled A, B, and C and located at $\eta = 0.266$, 0.624, and 0.907, respectively. Stations A and B each had 70 pressure taps for both part- and full-span flap wing configurations. Station C had 47 taps for the part-span flap wing configurations were possible at each of the three stations and are illustrated in figure 4. For the part-span flap wing configurations using components A, E, and F were possible at station C. All component combinations presented in figure 4 were possible at all three stations for the full-span flap wing configurations.

TESTS AND CORRECTIONS

The tests were conducted in the Langley 4- by 7-Meter Tunnel, which has a test section of 4.42 m (14.50 ft) by 6.63 m (21.75 ft). These tests were conducted at free-stream dynamic pressures from 0.96 to 2.87 kPa (20.0 to 60.0 lb/ft^2). Corresponding Reynolds numbers, based on the reference mean geometric chord of 34.14 cm (13.44 in.), were 0.97 to 1.63 × 10⁶ and corresponding Mach numbers were 0.12 to 0.20. The model was tested through an angleof-attack range of -4° to 24° and a sideslip-angle range of -10° to 5° .

The aerodynamic forces and moments were measured by a six-component straingage balance mounted inside the fuselage. The angle of attack was set by the pitch drive of the model support system and measured by an electronic inclinometer mounted inside the forward portion of the fuselage. The sideslip angle was set by the yaw drive of the model support system and was measured by an electronic counter mounted on the yaw-drive gearing system. The wing surface static pressures were measured by either 17.24- or 34.47-kPa (2.5 or 5.0 lb/in²) differential pressure transducers and six 48-port scanning valves. Fuselage chamber and base pressures were measured by 6.89-kPa (1.0 lb/in²) differential pressure transducers. Boundary-layer transition strips were located 2.54 cm (1.0 in.) normal to the leading edge on both upper and lower surfaces of the cruise wing configuration only, on the horizontal and vertical tails, and on the outer surfaces of the flow-through nacelles. The transition roughness was sized according to reference 8 and required a commercial No. 60 abrasive grit sparsely applied.

Wind-tunnel jet-boundary corrections were computed according to references 9, 10, and 11, and the averaged values were applied to the force and moment data. The corrections were applied as follows:

 $C_{D,corr} = C_{D} + J_{1}C_{L}^{2}$ $C_{m,corr} = C_{m} + J_{3}C_{L} \text{ (for tail-on data)}$ $\alpha_{corr} = \alpha + J_{2}C_{L}$

where $J_1 = 0.0045$, $J_2 = 0.2581$, and $J_3 = 0.011$. Wing, body, and wake solid blockage corrections were also applied to the data and were determined according to reference 12. Drag corrections due to model chamber and base pressures referenced to free-stream static pressure were also applied to the data. No corrections for tunnel flow angularity were made to the data because no provisions were made to test the model in the inverted position. However, flow angularity measurements, made during several previous investigations on similar models positioned at the same approximate location in the tunnel, showed that a 0.1° to 0.2° up-flow correction was required.

PRESENTATION OF RESULTS

Although numerous test variables and wing configurations were possible for this high-lift research model, only combinations representative of the more significant configurations were tested during this investigation. The test results from a prior investigation as presented in reference 3 show the effects of (1) an increase in aspect ratio to 12, (2) nacelles on/off, (3) transition strips on/off, (4) spoiler deflection on longitudinal lift loss, and (5) highspeed aileron deflection on lateral-directional characteristics for the cruise, climb, and part-span flap wing configurations. The particular longitudinal and lateral-directional test variables and wing-configuration combinations tested during this investigation are presented in the following table:

				Figure	e index for w	ing configura	tions of -			
Text variable Longitudinal data: Reynolds number (summary, fig. 11) Horizontal-tail deflection (summary, fig. 18) Landing gear on/off Slat deflection/nested	Cruise	Climb	Part-spar	n flap	Full-sp	an flap	Full-span low-spee	flap with d aileron	Full-span high-speed	flap with aileron
			Take-off	Landing	Take-off	Landing	Take-off	Landing	Take-off	Landing
Longitudinal data:]
Reynolds number (summary, fig. 11)	5	6	7 (a)	7 (Ь)	8 (a)	8 (b)	9 (a)	9 (b)	10(a)	10(b)
Horizontal-tail deflection (summary, fig. 18)	12	13	14(a), (b)	14(c), (d)	15(a), (b)	15(c), (đ)	16(a), (b)	16(c), (đ)	17(a), (b)	17(c), (d)
Landing gear on/off			19(a)	19(b)	19(c)	19(d)	19 (e)	19(f)	19(g)	19(h)
Slat deflection/nested			20(a)	20(a)	20 (b)	20(b)				
Ground effects			21 (a)	21(b), (c)	21 (đ)	21 (e)]			
Lateral data:									2	
Sideslip angle	22	23	24(a), (b)	24(c), (đ)	25(a), (b)	25(c), (d)	26(a), (b)	26(c), (d)		27(a), (b)
Low-speed aileron deflection (roll control)			28(a) to (d)	28(e) to (h)	_					
Spoiler deflection (roll control)					29(a) to (c)	29(d) to (i)				

ŧ

- ---

Unless otherwise stated on the data figure, the nacelles were on, and the horizontal tails were off for all wing configurations tested. In addition, unless otherwise stated, the gear was off for the cruise and climb wing configurations and was on for the flapped wing configurations. Listed on each figure are the run numbers corresponding to the data plotted. The tabulated longitudinal stability-axis and lateral body-axis data for all the runs presented in this report are given in appendix A. The trim longitudinal stability-axis data obtained by interpolation of the test data for various horizontal-tail deflections are given in appendix B.

DISCUSSION OF RESULTS

The discussion of the test results is divided into two main sections: (1) the static longitudinal aerodynamic characteristics of the model and (2) the static lateral-directional aerodynamic characteristics.

The stall angle of attack is defined as the wing angle of attack at which the flow separates near the wing tip. This separation results in a sudden loss of total lift and noticeable positive shift in pitching moment due to the loss of loading aft of the moment center. The maximum lift does not always occur at the wing-tip stall angle because the flow may remain attached to the inboard slat and flap surfaces, thereby producing additional lift at angles greater than the wing-tip stall angle of attack. However, the usable range of lift is generally limited to that at the wing-tip stall angle because of the adverse effects of tip flow separation on the control effectiveness of the outboard lowspeed aileron or spoiler roll-control surfaces. Analysis of the wing pressure data presented in reference 5 showed that all the wing configurations tested exhibited wing-tip stall behavior. In general, the flow separates near the tip initially because of the inability of the highly three-dimensional boundary layer to remain attached in the presence of the large static pressure gradients that develop at the higher angles of attack. These gradients are due to the combined effects of the tip vortex roll-up and the high locally induced angles of attack, which are a function of the spanwise load distribution on the wing. Based on potential flow theory, the spanwise load distribution is a direct function of the planform shape, spanwise twist distribution, and local chordwise camber distribution. The stall angle of the cruise wing configuration tested during this investigation could be increased by increasing the wing twist or by drooping the wing leading edge (increased camber) near the wing tip to reduce the local induced angles of attack. However, at the design flight conditions (M = 0.80), an increase in twist or leading-edge droop could possibly cause the formation of local shocks, with a corresponding undesirable reduction in the drag-rise Mach number.

The spanwise load distribution of a wing equipped with a high-lift system is primarily a function of the location, size, and deflection of the various system components. For good low-speed performance characteristics, it is generally desirable to size and deflect the various components so that a large percentage of the total wing load is produced by the inboard segment of the wing; in order to reduce the structural bending moment at the root and reduce the outboard induced angles of attack. Usually, inboard component surface areas and deflections that are proportionally as great, if not greater, than those of the outboard components are required. In contrast, the wing tested during this investigation had proportionally smaller inboard vane and flap surface areas in comparison with the outboard areas because of the combined effects of high aspect ratio, low sweep, spanwise location of the trailing-edge break, and the desired location of the wing wheel well cavities. In spite of the proportion-ally smaller vane and flap surface areas inboard, the outboard induced angles of attack could possibly be reduced by a gradual or segmented increase in the spanwise deflection of the leading-edge slat. Although desirable, such deflections are difficult to obtain mechanically and are generally not considered practical. The leading-edge slat was deflected spanwise a constant -50° , a nominal deflection based on a preliminary analysis of similar currently operational high-lift systems.

Few reliable three-dimensional analytical design methods are currently available to determine the optimum shape, gap, overlap, and deflection of the various components of a particular high-lift system therefore, experimental investigation remains the only reliable method. Conversations with researchers in industry who also flight test full-scale aircraft indicate that the positioning of slat, vane, and flap components for optimum performance is greatly affected by Reynolds number. In addition, performance trends evident from windtunnel tests at low Reynolds number conditions do not always remain the same at high Reynolds number flight test conditions. The advent of wind tunnels with higher Reynolds number capabilities, such as the National Transonic Facility under construction at LaRC, will provide a unique opportunity to perform more definitive high-lift model-scale tests.

Longitudinal Characteristics

Effects of Reynolds number.- The effects of a small change in Reynolds number on the untrimmed (horizontal tail off) longitudinal aerodynamic characteristics of the cruise, climb, part-span flap alone, full-span flap alone, full-span flap with low-speed ailerons, and full-span flap with high-speed ailerons wing configurations are presented in figures 5, 6, 7, 8, 9, and 10, respectively. The variation in Reynolds number, based on the reference mean geometric chord, was small and ranged in value from 0.97 to 1.63×10^6 . This small variation had the expected negligible effect on the aerodynamic characteristics of all the wing configurations tested at angles of attack below the stall angle.

The cruise and climb (slat deflected and flaps nested) wing configurations demonstrated the typical linear increase in lift and pitching moment with an increase in the angle of attack below the stall angle. The remaining wing configurations (with both slat and flaps deflected) demonstrated a nonlinear increase in lift and pitching moment with an increase in the angle of attack below the stall angle. Analysis of the wing pressure data presented in reference 5 showed that this nonlinear behavior was due primarily to the fact that the aerodynamic loading on the vane/flap combination and rear portion of the main section remained almost constant as the angle of attack increased, whereas the aerodynamic loading on the slat and forward portion of the main section increased nonlinearly.

Also, as shown in figure 5, the small increase in Reynolds number obtained during this investigation produced no change in stall angle and a small increase in maximum lift after stall for the cruise wing configurations both with nacelles on and off. As shown in figures 6 to 10, however, a small increase in Reynolds number produced the unexpected result of an overall reduction in both stall angle and maximum obtainable lift coefficient after stall for the climb and for all the flapped wing configurations tested. The development of asymmetric flow patterns between the right and left wings resulting from very small differences in the positions of the right and left high-lift system components could have caused this unexpected behavior. The gaps, overlaps, and deflections of all the components were checked very carefully after this investigation and were found to be within engineering specifications. The left wing was instrumented with surface static-pressure taps which could have resulted in asymmetric component deflections under aerodynamic loading; however, an analysis of the lateral data obtained showed no discernible pattern as to whether the right or left wing stalled first. The development of asymmetric or larger separated flow regions near the wing tips due to change in Reynolds number could also have possibly caused this unexpected behavior. The Reynolds number at the wing tips, based on the tip chord, ranged from 0.53 to 0.89 \times 10⁶. Even at these low Reynolds numbers, the existence of sizable regions of laminar flow is doubtful because of the large pressure gradients that developed on the upper surface of the leading-edge slat and because of the highly turbulent flow through the slat/main slot exit plane.

Very little is known about the effects of either dynamic model oscillations or high crossflow velocity components on the mechanisms of turbulent boundarylayer separation at these low Reynolds numbers. The model had a rather large flexible wing and was mounted on a highly cantilevered model support system which resulted in large model and wing-tip dynamic oscillations near and after the stall angle of attack. During this investigation, no flow-visualization studies were made to determine the exact regions of separated flow; therefore, no definitive explanation can be given for the unexpected trend in stall angle and maximum obtainable lift coefficient for the climb and flapped wing configurations.

The effects of nacelles on the longitudinal aerodynamic characteristics of the cruise wing configuration are presented in figure 5(c). At the higher angles of attack, these data show that adding nacelles resulted in a slight increase in C_L and C_D and in a very slight positive shift in C_m . Adding nacelles can often cause an increase in C_L , because the nacelles themselves produce a lift increment and increase the local wing loads due to an increase in the local induced angles of attack. At the higher angles of attack, the relatively large increase in C_D was possibly caused by the formation of separated flow regions on the nacelles. Such formations could possibly be eliminated by proper positioning of vortex generators. At the lower angles of attack, the increase in C_D was much smaller as a result of the added thrusting force produced by the toe-in of the nacelle pylon.

<u>Untrimmed characteristics</u>.- Summary plots showing comparisons of the untrimmed longitudinal aerodynamic characteristics of all the wing configurations tested are presented in figure 11 for $R_c = 1.63 \times 10^6$. The leading-edge slat was deflected a constant -50° for the climb configuration and all the flapped wing configurations. This constant deflection produced essentially a constant spanwise leading-edge camber difference between the cruise and climb wing configurations. As shown in figure 11(a), for the climb configuration, this constant camber difference resulted in approximately equal slopes for the angle-of-attack and C_m versus C_L curves for the cruise and climb wing configurations. An approximate 2.5° positive shift also occurred in the angle of attack of zero lift. At a given C_L through a range of 0.5 to 1.2, C_D was 0.02 higher and C_m was identical for the climb, in comparison with the cruise wing configurations. For this same range of C_L , an analysis of C_D versus C_L^2 plots showed that both configurations had approximately the same value of 0.70 for the wing efficiency factor e. $\left(C_D = C_{D,O} + \frac{C_L^2}{\pi Ae}, \text{ where } C_{D,O} \right)$ is the drag coefficient at zero lift. The cruise wing configuration had an untrimmed maximum L/D of 16.52 at $C_L = 0.68$; the climb wing configuration had an untrimmed maximum L/D of 11.72 at $C_L = 0.90$.

As shown in figure 11(a), C_D for the full-span, take-off flap wing configuration at a given C_{T} , through a range of 1.2 to 2.2 was approximately 0.01 less than C_{D} for the part-span, take-off flap wing configuration. A slightly lower C_{D} was expected for the full-span flap configuration in comparison with that for the part-span flap configurations as a result of the smoother and more nearly elliptic spanwise load distribution. Analysis of C_{D} versus C_{T}^{2} plots through the C_{I} range of 1.2 to 2.2 showed that both take-off configurations had approximately the same e value of 0.85. This represents a 0.15-increase in the e value compared to the cruise and climb wing configurations. In general, a high-lift system will improve the flow quality, in that flow separation is reduced and additional leading-edge suction is recovered so that the wing efficiency is higher in the high-lift case than that of the clean-wing case. (Also, see ref. 13.) The part-span, take-off flap wing configurations had an untrimmed maximum L/D of 9.61 at $C_{L} = 1.49$, and the full-span, take-off flap configuration had an untrimmed maximum L/D of 10.20 at a slightly higher C_{T} of 1.55.

As also shown in figure 11(a), the part- and full-span, landing flap wing configurations at a given $C_{T_{i}}$ had almost identical C_{D} values through a $C_{T_{i}}$ range of 1.0 to 2.6. As for the corresponding take-off configurations, a reduction in C_D was expected for the full-span, landing flap wing configurations compared with the part-span wing configurations. Without detailed flow visualization and more detailed spanwise pressure distribution data, no definitive explanation can be given for the lack of reduction in C_{D} . Perhaps the fullspan, landing flap wing configuration had a region of separated flow which tended to increase the drag of the model. However, such a region is not readily apparent from an analysis of the limited wing pressure distribution data taken during this investigation. An analysis of C_D versus C_L^2 plots showed that both landing configurations had an e value of approximatley 0.89, which represents a further increase of 0.04 compared with the value for the take-off configurations. Both landing configurations had an approximate untrimmed maximum L/D of 7.55 at an approximate C_L of 2.0. The part-span, landing and full-span, take-off flap-wing configurations had nearly identical C_m versus C_{T} curves for a C_{T} range of 0.7 to 2.5, which implies that both config-

15

urations incur the same trim drag penalties. (Trim drag is defined as the drag increment due to the horizontal-tail lift required to trim the aircraft.)

Comparisons of the untrimmed longitudinal aerodynamic characteristics of the four take-off and landing flap wing configurations are presented in figures 11(b) and 11(c), respectively. For the take-off flap configurations at a given C_{T} through a range of 0.2 to 2.1, the full-span flap and full-span flap with low-speed ailerons wing configurations had slightly lower C_{D} and, therefore, higher L/D values than the corresponding values for the part-span flap and full-span flap with high-speed ailerons wing configurations. The full-span flap with high-speed ailerons wing configuration produced slightly higher negative C_m than the full-span flap with low-speed ailerons wing configuration. This result was expected because of the reduced loading near the tips of the wing equipped with outboard low-speed ailerons. For the landing flap configurations tested at a given C_{T_i} through a range of 0.7 to 2.6, all the configurations tested had approximately the same C_D and L/D values. The trends in the C_m characteristics for the landing flap wing configurations were similar to those observed for the take-off flap wing configurations. For both the takeoff and landing flap wing configurations, the three full-span flap wing configurations produced more negative $\ \ \ \ C_m$ than the part-span flap wing configuration; this result implies higher trim drag penalties for the full-span flap wing configurations. These higher trim drag penalties could easily offset any improvements in L/D obtained using full-span flaps.

For this model, the overall trim drag penalties might be reduced by moving the moment reference center (usually the same as the aircraft center-of-gravity location) further aft to reduce the negative C_m . However, moving the center-of-gravity location aft without a corresponding aft movement of the rear-wheel location can adversely offset the nose-wheel steering forces. In general, a more desirable way of reducing the overall negative C_m value is to design the wing and flap system so that the maximum lift will be generated by the inboard segment of the wing. This method will reduce the negative C_m value by moving the wing center-of-pressure location (the point through which the wing resultant force acts) forward toward the model moment reference center. This approach will require large-percent-chord, highly deflected flaps inboard to produce lift and highly deflected leading-edge devices outboard to increase the stall angle and the maximum obtainable lift. As previously discussed, higher inboard load-ing will also have the added advantage of reduced structural root bending moments and of lower induced angles of attack outboard.

<u>Trimmed characteristics</u>.- The effect of horizontal-tail deflection on the longitudinal aerodynamic characteristics of the 10 wing configurations investigated are presented in figures 12 to 17. The longitudinal trim characteristics ($C_m = 0$), determined by interpolating the experimental data curves to obtain data at incremental tail incidences, are also presented for each configuration. The maximum trim C_L is defined as the highest value of C_L obtained prior to neutral stability of the model ($\partial C_m / \partial C_L \approx 0$). The angle of attack for neutral stability occurred several degrees prior to the wing-tip stall angle of attack for each configuration.

The tail-off performance data presented in figures 12 to 17 show that the cruise and landing flap wing configurations had a larger positive shift in C_m

after the stall angle than did the climb and take-off flap wing configurations. This probably indicates that the cruise and landing flap wing configurations had larger regions of separated flow near the wing tips and, consequently, had more forward center-of-pressure locations than those for the corresponding climb and take-off flap wing configurations.

The tail-on performance data showed that the cruise and landing flap wing configurations had a slight unfavorable positive shift (nose-up) in C_m and that the climb and take-off flap wing configurations had a slight favorable negative shift (nose-down) in C_m after the angle for neutral stability. In general, the two best approaches to reduce and possibly to eliminate this unfavorable pitch-up are (1) to increase the horizontal-tail effectiveness and (2) to reduce the separated flow region near the wing tips. Greater horizontaltail effectiveness can be achieved by increasing the surface area of the current low-tail arrangement, which may incur additional cruise drag penalties, or by increasing the tail moment-arm length with the use of a high T-tail arrangement. The high T-tail would also be in a region of higher local flow than that for the current low-tail arrangement, which would require a smaller tail surface area to trim the model and, therefore, would incur less trim drag penalty. Neither of these two approaches will eliminate the unfavorable tip flow-separation region which adversely affects the roll-control effectiveness of the low-speed ailerons. Perhaps a better approach is to reduce and possibly to eliminate the region of separated flow near the tips by increasing the outboard slat and inboard flap effectiveness. As peviously discussed, this approach could result in the more favorable condition of flow separation near the wing-body juncture. However, initial inboard flow separation would adversely affect the horizontal-tail effectiveness of a high T-tail arrangement at the higher angles of attack, especially near stall.

Summary comparisons of the trim performance for the wing configurations tested are presented in figure 18. A tabulated summary of the trim drag penalties and the maximum trimmed C_L and L/D performance values for each wing configuration tested is presented in table II. The maximum trimmed performance data for the cruise, climb, and part-span, take-off and landing flap wing configurations compare favorably with the performance data obtained during a previous investigation as reported in reference 3. The trimmed maximum L/D values for the cruise and climb wing configurations were only slightly lower than their corresponding untrimmed values; however, the value of $C_{\rm L}$ at which the maximum L/D occurred was approximately 0.14 higher. As previously discussed, the full-span, take-off flap wing configuration had slightly better untrimmed performance (lower C_D and higher L/D at a given C_L) than the part-span, take-off wing configuration. However, as shown in figure 18(a) and given in table II, the trimmed data show that the part-span, take-off flap wing configuration had slightly better trimmed performance than the full-span, takeoff flap configurations, and that the part-span, landing flap configuration had considerably better trimmed performance than the full-span, landing flap configuration. The loss in the performance of the full-span flap configurations was due to the high trim penalties incurred in the form of horizontal-tail drag and downloads. The trim drag penalty for the full-span, take-off flap configuration was twice as great as that for the part-span, take-off flap configuration and was nearly 3 times as great for the corresponding landing flap configurations.

Comparisons of the trimmed longitudinal aerodynamic characteristics of the four take-off and the four landing flap wing configurations are presented in figures 18(b) and 18(c), respectively. The differences between the trimmed take-off flap performance characteristics of the four flapped wing configurations tested were very small. The average trimmed maximum L/D was 9.2 at an average C_L of 1.53. However, the trimmed landing flap performance characteristics of the part-span flap and full-span flap with low-speed ailerons wing configurations were almost identical and were considerably better than the performance of the full-span flap and full-span flap with high-speed ailerons wing configurations. This result was expected because of an increase in negative C_m caused by the aft movement of the wing center-of-pressure location as more of the outboard portion of the wing was loaded.

The full-span flap with high-speed ailerons wing configuration with both take-off and landing flap settings had slightly lower maximum C_L values than the corresponding part-span flap wing configurations. In addition, the fullspan flap with low-speed ailerons wing configuration with both take-off and landing flap settings had slightly higher maximum CL values than the corresponding part-span flap wing configurations. The full-span, take-off flap wing configuration had a higher maximum $C_{\rm L}$ value than the other take-off wing configurations; however, the full-span, landing flap wing configuration had a lower maximum Cr. value than the part-span flap configuration and only a slightly higher value than the full-span flap with high-speed ailerons wing configuration. Comparative analysis of the trimmed performance characteristics of the four take-off and four landing flap wing configurations suggests that the fullspan flap with low-speed ailerons wing configuration had slightly better trimmed performance characteristics than the other three configurations. In addition, the trim performance of the full-span flap wing configuration was slightly worse than even that of the part-span flap configuration because of high trim drag penalties. These test results further reinforce the generally accepted philosophy for the design of high-lift systems: the more total lift generated by the inboard portion of the wing, the better the overall performance of the system.

Effect of landing gear.- The effects of the landing gear on the longitudinal aerodynamic characteristics of the take-off and landing flap wing configurations tested are presented in figure 19. These data show that at a given C_L , adding the landing gear had negligible effect on C_m but resulted in an average increase in C_D of 0.014 for the take-off flap wing configurations and a slightly smaller average increase of 0.010 for the landing flap wing configurations. At a given angle of attack, adding the landing gear resulted in an approximate C_L loss of 0.03 for the take-off flap wing configurations and a loss of 0.06 for the landing flap wing configurations. These lift losses were expected because of the interaction of gear-generated low-energy wakes with the high-energy flow through the main/vane and vane/flap slots. In general, this interaction reduces the energy of the flow through the slots and thereby reduces the lift increment generated by the inboard flap system.

Effect of leading-edge slats.- The effects of the leading-edge slat deflection on the longitudinal aerodynamic characteristics of the part- and full-span flap wing configurations with both take-off and landing flap settings are presented in figure 20. These data show the tremendous effects of deflecting the leading-edge slat on the maximum stall angle and on the maximum CL capability of the take-off and landing flap wing configurations. Nesting the slat resulted in an approximate 18.5-percent reduction in the maximum obtainable C_{T_i} and an approximate reduction in C_D of 0.010 at a given C_{L} . The wing pressure data presented in reference 5 show that the inboard leading-edge slat segment (between fuselage side-of-body and trailing-edge break stations) carried less load than the outboard slat segment at a given angle of attack. This was due in part to the fact that the thickness and camber distributions of the inboard slat were greater than those of the outboard slat and in part to the fact that both inboard and outboard slats were deflected the same amount. These combined factors resulted in higher effective leading-edge camber inboard than outboard. However, for this high-aspect-ratio wing configuration, less leading-edge camber is needed inboard because of the small percent chord of the inboard flap system. The effective camber can be reduced and possibly higher overall maximum CL values can be obtained by decreasing the inboard slat deflection or by replacing the slat with a properly contoured variable-camber Krueger (VCK) leadingedge device such as that used by Douglas and reported in reference 4.

Effect of ground height.- The effects of ground height on the longitudinal aerodynamic characteristics of the part- and full-span flap wing configurations with both take-off and landing flap settings are presented in figure 21. The horizontal tails were on during these ground proximity tests. The data show the expected increase in C_L , reduction in C_D , and positive shift in C_m with a decrease in ground height. These changes in performance occur because the cushioning effect of the ground suppresses the formation of the wing vortex, with a resulting decrease in wing downwash and increase in lift-curve slope. Both part- and full-span flap wing configurations had an approximate increase in C_L of 0.08. The take-off flap wing configurations had an approximate reduction in C_D of 0.02 and a negative shift in C_m of 0.06. However, the landing flap wing configurations had a greater reduction in C_D of 0.04 and negative shift in C_m of 0.08. The negative shift in C_m will probably require greater horizontal-tail incidence angles to trim the model, which will, in turn, increase the overall drag due to the increase in trim drag.

The effects of ground height on the longitudinal aerodynamic characteristics of the part-span, landing flap wing configuration with the ground and flight spoilers deflected 45° and 60° are presented in figure 21(c). These data show an approximate increase in C_L of 0.11, an increase in C_D of 0.02, and a positive shift in C_m of 0.06. The increase in C_D and the positive shift in C_m were unexpected and opposite to the trends observed for the same configuration with the spoilers undeflected. These data also show that deflecting the ground and flight spoilers 45° resulted in an approximate net loss in C_L of 1.2; in addition, increasing the deflection to 60° resulted in an additional loss of 0.3 in C_L .

Lateral-Directional Characteristics

Effect of sideslip angle.- The effects of sideslip angle on the lateraldirectional aerodynamic characteristics of all the wing configurations investigated, except the full-span flap with high-speed aileron wing configuration with take-off flap settings, are presented in figures 22 to 27. The static lateraldirectional stability derivatives are presented for each configuration tested for angles of attack below stall and were computed from the lateral body-axis data obtained at sideslip angles from -10° to 5° . The horizontal and vertical tails were on during all runs to determine the effect of sideslip. The cruise wing configuration had a geometric dihedral angle of 5° ; the horizontal tails had a geometric dihedral angle of 10° . These dihedral angles resulted in stable lateral-directional characteristics for each configuration tested.

As shown in figures 22(b) and 23(b), the climb wing configuration had less lateral-directional stability than the cruise wing configuration. The effective dihedral parameter C_{lR} showed an approximate 0.001 positive shift. This reduc-

tion in lateral stability is believed to have resulted primarily from a decrease in geometric dihedral which was caused by deflecting the leading-edge slats spanwise at a constant angle of -50° .

The effective dihedral parameter C_{lR} decreased rapidly from approximately

-0.002 at -4° to approximately -0.006 at 10° angle of attack for all of the take-off and landing flap wing configurations tested, indicating an increase in lateral stability with increased angle of attack. At a given angle of attack, the value of C_{lR} for each landing flap wing configuration was only slightly

more negative than the value for the corresponding take-off flap wing configuration. At a given C_L , therefore, the value of $C_{l\beta}$ for each take-off flap

wing configuration was much more negative than the value for the corresponding landing flap wing configuration. The landing flap wing configuration was expected to have slightly less lateral-directional stability than the corresponding take-off flap wing configuration because of the inboard shift in wing loading as the flap deflection was increased. The directional-stability parameter $C_{\rm RG}$, which is governed primarily by the vertical tail area and

location, ranged in value from 0.002 to 0.004 for each wing configuration tested. The side-force parameter C_{YR} , which is governed primarily by the

fuselage shape, had an average value of -0.02 for each wing configuration tested. These values of both the directional-stability and side-force parameters are typical for this type of wide-body transport.

Effect of low-speed aileron deflection.- The effects of low-speed aileron deflections on the lateral-directional aerodynamic characteristics of the part-span flap wing configuration with both take-off and landing flap settings are presented in figure 28. These data show that negative left-aileron-only deflections produced approximately twice the rolling moment as positive deflections for the take-off flap wing configuration and nearly 3 times as much for the landing flap wing configuration. The higher negative left-aileron-only deflections produced more negative C_1 for the landing flap wing configuration than for the take-off flap wing configuration. Unexpectedly, however, the higher positive left-aileron-only deflections produced slightly more positive C_1 for the take-off flap wing configurations than for the landing flap wing configuration. Differential deflections of the right and left ailerons produced the

expected additive results for both take-off and landing flap wing configurations. None of the data presented for the various flap and low-speed aileron wing combinations tested show significant effects on the longitudinal and lateral aerodynamic coefficients other than C_1 .

Effect of spoiler deflection. - The effects of the left outboard roll-control spoiler deflection on the longitudinal and lateral aerodynamic characteristics of the full-span flap wing configuration with both take-off and landing flap settings are presented in figures 29(a) to 29(f). The combined effects of the left outboard flight and roll-control spoiler deflections on the aerodynamic characteristics of the full-span landing flap wing configuration are presented in figures 29(g) to 29(i). A summary figure showing the change in the aerodynamic coefficients C_m , $C_{T,}$, and C_{γ} with increased spoiler deflection is also presented for each configuration tested. These summary figures show that large deflections of the left outboard roll-control spoiler for the full-span flap configuration produced changes in C_l as great as those produced by differential low-speed aileron deflections for the corresponding part-span flap configuration. However, the large spoiler deflections also unloaded the outboard segment of the wing, which resulted in an expected loss of C_{L} and a positive shift in C_m . During actual flight application, this loss in C_L and shift in C_m could adversely affect the handling qualities of the aircraft, especially in ground proximity.

The negative C_l produced by the roll-control spoiler deflections above 10° was greater for the take-off than for the landing flap wing configuration. As shown in figures 29(f) and 29(i), the negative C_l produced by the combined flight and roll-control spoiler deflections was approximately 3 times greater than the negative C_l produced by roll-control spoiler deflections only. Accordingly, the change in C_L was also approximately 3 times greater, and the change in C_m was approximately twice as great. The data presented in these figures also show an almost linear increase in negative C_n with angle of attack for the various spoiler deflections tested. This result was expected due to the increase in drag of the left wing caused by the separated flow generated by the deflected left spoiler.

SUMMARY OF RESULTS

An investigation was conducted in the Langley 4- by 7-Meter Tunnel to determine the static longitudinal and lateral-directional aerodynamic characteristics of an advanced aspect-ratio-10 supercritical-wing transport model equipped with a full-span leading-edge slat and part-span and full-span doubleslotted trailing-edge flaps. This wide-body transport model was also equipped with spoiler and aileron roll-control surfaces, flow-through nacelles, landing gear, and movable horizontal tails. The following six basic wing configurations were tested during this investigation: (1) cruise (slats and flaps nested), (2) climb (slats deflected and flaps nested), (3) part-span flap, (4) full-span flap, (5) full-span flap with low-speed ailerons, and (6) full-span with highspeed ailerons. Each of the four flapped wing configurations was tested with the leading-edge slats and the trailing-edge flaps deflected to settings representative of both take-off and landing conditions. The results of this investigation are summarized as follows: 1. The small variation in test Reynolds number from 0.97 to 1.63×10^6 had negligible effect on the aerodynamic characteristics of all the wing configurations tested at angles of attack below the stall angle.

2. All the wing configurations tested exhibited wing-tip-stall behavior followed by a reduction in longitudinal stability.

3. For the take-off flap configurations at a given untrimmed lift coefficient C_L through a range of 0.2 to 2.1, the full-span flap and full-span flap with low-speed ailerons wing configurations had slightly lower drag coefficient C_D and, therefore, higher values of lift-drag ratio L/D values than the corresponding values for the part-span flap and full-span flap with high-speed ailerons wing configurations. For the landing flap configurations at a given untrimmed C_L through a range of 0.7 to 2.6, the four flapped wing configurations had approximately the same C_D and L/D values. For both take-off and landing flap configurations at a given untrimmed C_L , the three full-span flap wing configurations produced more negative pitching-moment coefficient C_m than the part-span flap wing configuration and, therefore, incurred higher trim drag penalties.

4. Because of trim drag penalties, the difference between the trimmed performance characteristics of the four flapped wing configurations with take-off flap setting was small and the average trimmed maximum L/D was 9.2 at an average C_L of 1.53. With landing flap settings, the trimmed performances of the part-span flap and full-span flap with low-speed ailerons wing configurations were almost identical and were considerably better than the performances of the full-span flap and full-span flap with high-speed ailerons wing configurations. A comparative analysis of the trimmed performance of the four flapped wing configurations suggests that the full-span flap with low-speed ailerons wing configuration had slightly better trimmed performance than the other three flap configurations.

5. Adding the landing gear at a given angle of attack resulted in an approximate $C_{\rm L}$ loss of 0.03 for the flapped wing configurations with take-off flap settings and a $C_{\rm L}$ loss of 0.06, with landing flap settings.

6. For the part- and full-span flap wing configurations with either takeoff or landing flap settings, nesting the leading-edge slat resulted in an approximate 18.5-percent reduction in the maximum obtainable $C_{\rm L}$ and an approximate 0.010 reduction in $C_{\rm D}$ at a given $C_{\rm L}$.

7. Ground-proximity tests of the part- and full-span flap wing configurations with either take-off or landing flap settings showed the expected trend of an increase in C_L , reduction in C_D , and positive shift in C_m with a decrease in ground height.

8. The climb wing configuration had less lateral-directional stability than the cruise wing configuration. The lateral-directional stability of each flapped wing configuration with landing flap settings was slightly less than the stability of the corresponding configuration with take-off flap settings. 9. For the part-span wing configuration, negative left-aileron-only deflections produced approximately twice the rolling-moment coefficient C_l as positive deflections for the configuration with take-off flap settings, and nearly 3 times as much with landing flap settings.

10. For the full-span flap wing configuration with either take-off or landing flap settings, large deflections of the left outboard roll-control spoiler produced changes in C_1 as great as those produced by differential low-speed aileron deflections for the corresponding part-span flap wing configurations. Large deflections of the roll-control spoilers also resulted in an unfavorable loss of C_L , a positive shift in C_m , and an increase in negative C_n .

Langley Research Center National Aeronautics and Space Administration Hampton, VA 23665 January 30, 1981

LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA

The force and moment data, presented graphically in figures 5 to 29, are presented in tabular form in this appendix. The longitudinal data C_L , C_D , C_m , and L/D (CL, CD, CPM, and L/D, respectively, in tabular form) are referenced to the stability-axis system; the lateral data C_l , C_n , and C_Y (CRM, CYM, and CSF, respectively, in tabular form) are referenced to the body-axis system. These data were obtained during Test 198 conducted in the Langley 4by 7-Meter Tunnel.

RUN	NIMBER	1	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	۱	TEST NUM	8ER 198	
масн	Q.KPA	(PSF)	BETA+DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM.	CSF	L/D	H/8
.116	.96	(19.99)	.00	-4.04	-,1458	.0270	1402	.0020	.0010	0030	-5.39	.427
.117	.96	(20.15)	.00	-1,95	.0846	.0247	1258	.0034	.0008	0039	3.42	.475
.117	.96	(20.13)	.00	.07	.2620	.0264	1145	.0019	.0008	0032	9,92	,522
.117	.96	(20.15)	.00	2,13	.4807	.0299	0865	.0036	.0011	0049	16.10	.570
.117	.96	(20.13)	.00	4,16	.6659	.0374	0611	.0005	.0010	0069	17.82	.618
.117	.96	(20.14)	.00	6,23	.8554	.0462	0312	.0021	.0014	0067	18.53	.629
.117	.96	(20.14)	.00	8,25	1.0087	.0618	0015	.0007	.0008	0093	16.32	.630
.117	.96	(20.07)	.00	10.30	1.1778	.0751	.0486	.0019	.0015	0076	15.69	.629
.116	.96	(19.99)	.01	12,28	1.1724	.1600	.1442	.0005	.0001	0082	7.33	.630
.116	.96	(19.99)	.02	14,29	1.2084	.2056	.2082	0008	.0004	0127	5,88	.630
.118	.97	(20.34)	00	16.31	1.1136	.3040	.1599	.0192	.0043	0066	3.66	.630
.117	.97	(20.25)	00	18,30	1.1124	. 3547	.1765	.0191	.0029	0027	3.14	.629
+117	.97	(20.20)	.00	20,22	1.0822	.3940	.1857	.0174	.0029	0045	2,75	.630
+117	.97	(20.16)	.01	22.23	1.0684	.4382	.1994	.0154	.0034	0075	2.44	.630
•118	.97	(20.36)	.04	24.27	1.0728	.4919	.2479	.0026	0055	0119	2,18	.630
RUN	NUMBER	2	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	8ER 198	
MACH	Q,KPA	(PSF)	RETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.166	1.92	(40.20)	.00	-4.02	-,1293	.0271	1407	.0009	.0009	0040	-4.78	.428
.166	1.93	(40.35)	.00	-1.96	.0771	.0243	1280	.0018	.0005	0025	3.17	.475
.166	1.92	(40.13)	.00	.08	.2720	.0255	~.1117	.0006	.0002	0007	10.66	•251
.166	1.92	(40.18)	00	2,15	.4822	.0294	0897	.0025	.0010	-,0027	16.42	•569
.166	1.92	(40.10)	.00	4,18	.6714	.0371	0641	.0008	.0007	-,0028	18.09	.616
.166	1.93	(40.32)	.00	6,22	.8601	.0478	-,0355	.0006	.0010	-,0059	17.98	.630
.166	1.93	(40-30)	.01	8,28	1.0412	.0612	0046	0005	.0004	0048	17.00	.630
.166	1.93	(40.26)	.00	10.30	1.2056	.0751	.0364	.0014	.0012	0081	16.05	.630
.166	1.92	(40.08)	01	12.28	1.2314	.1493	.1343	.0097	.0051	0100	8.25	.629
.166	1.94	(40+43)	01	14.29	1.2847	.1900	.2015	.0112	.0053	0097	6.76	.630
.166	1.93	(40.28)	.02	16.31	1.2891	.2444	.2632	0022	0008	0072	5.27	.629
.166	1.93	(40.36)	.01	18,30	1.1644	.3573	.1516	.0048	.0011	0081	3.26	.629

RUN N	10MBER	3	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	N	TEST NUM	BER 198	
масн	Q.KPA	(PSF)	BFTA .DEG	ALPHA.DEG	CL	co	CPM	CRM	CYM	CSF	L/0	H/8
.204	2.88	(60.09)	.00	-4.04	1239	.0260	1365	.0031	.0003	.0018	-4.77	.427
.204	2.88	(60-23)	.00	-2.00	.0778	.0232	1256	.0024	.0005	-,0007	3.35	.473
+05.	2.88	(60.13)	.00	.06	.2841	.0245	~. 1077	.0022	.0003	0006	11.58	.519
.204	2.88	(60.22)	00	2.15	.4869	.0288	0880	.0029	.0007	0008	16,92	.566
-204	2.88	(60.09)	00	4.18	.6830	.0363	0615	.0013	.0010	0025	18.79	.612
.204	2.87	(59.89)	.00	6.24	.8750	.0467	0339	.0009	.0009	0039	18.73	.658
.204	2.88	(60+17)	.00	8.26	1.0516	.0601	0018	.0003	.0010	0056	17.50	.685
.204	2.88	(60.21)	01	10.30	1.2168	.0755	.0390	.0003	.0008	0060	16.11	.685
.204	2.89	(60.33)	03	12.28	1.2499	.1465	.1357	.0115	.0070	0105	8.53	.685
.205	2.90	(60.53)	.01	14.28	1.2582	.2060	.2044	0012	0001	0054	6.11	.685
.205	2.90	(60.49)	.01	16.22	1.2775	.2711	.2001	0010	0012	.0053	4,71	.685
.205	2.89	(60+45)	.00	18.21	1.1793	.3568	.1509	.0029	.0003	0099	3.31	.685
.205	2.90	(60.52)	.01	20.22	1.1498	.3966	.1750	.0043	0029	0041	2,90	.685
.205	2.90	(60.55)	.02	22.25	1.0987	.4390	.1707	.0016	0014	0075	2,50	.684
•204	2.88	(60.24)	.03	24.19	1.1165	.4888	.1958	.0013	0016	0070	2.28	.685
RUN N	UMBER	4	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q,KPA	(PSF)	RETAODEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.117	.97	(20+25)	.00	-1.97	.0656	.0244	1368	.0020	.0017	0119	2.69	.474
.117	.97	(20.17)	.00	.07	.2592	.0284	1144	.0006	.0010	0095	9.13	.522
•117	.97	(20.19)	.00	2.14	.4706	.0351	0831	.0018	.0012	0100	13.40	.571
•117	.97	(20.21)	.00	4.18	.6664	.0472	0539	.0009	.0011	0084	14,13	.618
.117	.97	(20+18)	.00	6.24	.8637	.0611	0186	.0005	.0012	0124	14.13	.667
.117	.97	(20.20)	.01	8.23	1.0364	.0791	.0185	0005	.0013	0178	13.11	.685
•117	.97	(20.21)	.01	10.29	1.1899	.1026	.0602	000B	.0009	0179	11.59	.685
.117	.97	(20-16)	.01	12,29	1.2425	.1789	.1621	.0025	.0019	0145	6.94	.684
.117	.96	(20.14)	.01	14.30	1.3001	.2283	.2330	.0029	.0018	0153	5.69	.685
•117	.96	(20-11)	.01	16.30	1.1591	.3472	.1227	.0027	.0012	0153	3.34	.684
.117	.96	(20.08)	.02	18,26	1.1117	.3969	.1296	.0018	.0001	0131	2.80	.685
.117	.96	(20.04)	.02	20.23	1.0992	.4485	.1446	.0024	0010	0146	2,45	.685
.116	.96	(19.97)	.03	22.21	1.1099	.5024	.1562	.0015	0012	0154	2.21	.685
•116	.95	(19.88)	•04	24.21	1.1364	.5615	1818	.0012	0013	0170	5.05	•684

.

RUN N	UMBER	5	LONGI	TUDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NU	MRER 198	
масн	0,KP/	A (PSF)	BETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.166	1.92	(40.13)	.00	-1,99	.0611	.0249	1401	.0026	.0009	0051	2.46	.474
.166	1.93	(40.25)	.00	.09	.2661	.0270	1121	.0006	.0010	0086	9.86	.522
•166	1.92	(40.14)	.00	2.10	.4641	.0337	0880	.0013	.0011	0058	13,75	•568
.166	1.92	(40.13)	.00	4.15	.6691	.0427	0547	.0010	.0013	0062	15.68	.615
.166	1.92	(40.12)	.00	6,25	.8856	.0544	0180	.0018	.0018	0077	16,28	.663
.166	1.92	(40.14)	.00	8,23	1.0568	.0710	.0215	0004	.0011	0101	14,88	.685
.166	1.92	(40.19)	.01	10,31	1.2181	.0923	.060A	.0000	.0008	0090	13,19	.685
.166	1.92	(40+07)	.02	12.33	1.3044	.1545	1524	0070	0035	0064	8,44	,684
.166	1.92	(40.02)	.03	14.37	1.3502	.2185	.2109	0060	0004	0141	6,18	.684
.166	1.93	(40.24)	.04	16.36	1.4145	.2659	.2732	0081	0009	0157	5.32	.684
.166	1.93	(40.27)	*0S	18,25	1.1596	.3836	.1440	.0011	0005	0105	3.02	.685
.166	1.93	(40.35)	.03	20.24	1.1179	.4286	.1566	.0003	0015	-,0100	2,61	.685
.166	1.93	(40.28)	.04	22,21	1.1387	,4833	.1766	0002	0011	0104	2,36	,685
.166	1.94	(40+43)	.05	24.29	1.1605	.5432	.1953	0006	0014	011B	2,14	.684
RUN N	UMBER	6	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	۵	TEST NUP	IBER 198	
масн	Q, KPA	(PSF)	RETA, DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
.204	2.88	(60.15)	.00	-1,99	.0630	.0250	-,1404	.0024	.0010	0057	2,52	.474
+05+	2.88	(60+18)	-,00	.10	.2750	.0269	1153	.0024	.0009	0058	10,23	.521
.204	2.89	(60.30)	00	2,11	4769	.0321	0888	.0021	.0010	0050	14.87	,567
.204	2.88	(60.21)	00	4,14	.6776	.0409	0557	.0017	.0014	0066	16,58	.613
.204	2.88	(60.22)	00	6,17	.8748	.0529	0506	.0015	.0016	0080	16,52	.658
.204	2.88	(60.20)	.00	8,22	1.0575	.0691	.0160	.0004	.0014	0103	15,29	.685
.204	2.88	(60.12)	.00	10,31	1.2350	.0886	.0599	.0002	.0012	0090	13,95	.685
•204	2.88	(60+23)	• 02	12,32	1,3325	.1460	.1471	0023	0005	0095	9.13	.684
.204	2.89	(60.34)	.00	14.35	1.3881	.2081	2075	.0029	.0037	0157	6.67	.685
.204	2.89	(60.34)	.04	16,34	1.4106	.2611	.2792	0069	.0006	0193	5,40	.685
.204	2.89	(60.32)	.0A	18,25	1.2206	.3799	.1497	0064	0001	0169	3.21	.684
.205	2.90	(60.59)	.03	20,25	1.1578	.4211	.1718	.0039	0029	0090	2,75	.684
.205	2.90	(60.53)	.04	22,21	1.1318	.4722	.1776	.0007	0022	0097	2.40	.684
.205	2.90	(60+55)	.05	24.31	1.1628	.5340	•1994	0001	0032	0093	2,18	.684

RUN N	UMBER 7		LONGI	TUDINAL STAB	ILITY-AXIS	S AND LAT	AND LATERAL BODY-AXIS DATA				TEST NUMBER 198		
MACH	0.KP/	(PSF)	BETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8	
.204	2.89	(60.33)	00	-2,06	2725	.0914	.A383	.0033	.0011	0047	-2,98	.468	
.204	-2.89	(60.33)	.00	.02	~.0446	.0740	.8152	.0020	.0011	0077	60	.515	
.204	2.89	(60.35)	.00	2.03	.1801	.0609	,7913	.0016	.0015	0073	2,95	.560	
.204	2.88	(60.08)	.00	4,09	.4113	.0520	,7389	.0021	.0022	0073	7.92	.606	
•204	2.88	(60.07)	.00	6,11	.6319	.0554	.6814	.0014	.0011	0067	11.41	,652	
.204	2.88	(60.17)	.01	8,21	.8535	.0659	.6412	.0023	.0018	0097	12,96	.684	
.204	2.88	(60.25)	.01	10,32	1.0664	.0789	.6165	.0014	.0015	0111	13.52	.685	
.204	2.89	(60.29)	-,01	12,26	1.1964	.1139	.6178	.0102	.0091	0161	10.50	.684	
.204	2.88	(60.25)	.01	14,26	1.2468	.1870	.6518	.0032	.0033	0149	6.67	.685	
.204	2.89	(60.36)	.05	16,26	1.2876	,2355	.6842	0067	0003	0150	5,47	.685	
.205	2.90	(60.61)	.05	18,24	1.1876	.3614	.3077	0013	.0015	0135	3.29	.685	
.204	2,89	(60+41)	.04	20,19	1.1919	.4071	.1253	.0039	0048	0058	2,93	.685	
.205	2.91	(60.68)	.04	22.28	1.2331	,4616	.0358	.0048	0072	0082	2.67	.684	
.205	2.91	(60.79)	.06	24,24	1.2521	.5261	0568	.0003	0025	0107	2,38	.685	
RUN N	IMBER	ß	LONGIT	UDINAL STAR	ILITY-AXIS	ANDILAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198		
MACH	Q.KPA	(PSF)	RFTA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B	
-204	2.88	(60.22)	00	-2.00	1959	.0443	.5913	.0022	.0007	0047	-4,43	.471	
.204	2,88	(60.07)	00	•01	.0545	.0383	.5293	.0027	.0010	0073	1.43	.516	
.204	2.88	(60.18)	.00	2.07	.2926	.0372	.4701	.0022	.0010	0076	7.87	.562	
.204	2,88	(60.15)	.00	4.11	.5279	.0407	.4165	.0022	.0013	0054	12,98	.608	
•204	2.89	(60.34)	.01	6.14	.7409	.0497	.3733	.0013	.0013	0067	14.89	.654	
.204	2.89	(60.29)	.01	8.23	.9619	.0630	.3325	.0014	.0016	0104	15,26	.685	
.204	2.88	(60.17)	.01	10,28	1.1519	.0813	.3026	.0017	.0017	0114	14.16	.684	
•204	2.88	$(60 \cdot 17)$	•02	12.29	1.2696	.1357	.3272	0018	0000	0124	9.36	.685	
.204	2.89	(60+43)	.01	14.36	1.3451	.1968	.3451	.0040	.0039	0165	6.83	.684	
•20 4	2.89	(60.35)	.05	16.36	1.3898	.2503	,3823	0078	0005	0146	5.55	.685	
•204	2.87	(60+03)	.04	18.30	1.2820	.3767	.0262	.0005	.0012	0135	3.40	.685	
•504	2.89	(60+44)	.03	20.29	1.2641	.4267	1952	.0050	0020	0064	2,96	.684	
.204	2.89	(60+45)	• 04	22.26	1.2785	.4816	3085	.0006	0013	0109	2.65	.685	
.205	2.92	(61+04)	.06	24.26	1.3453	,5539	-,3665	.0000	0015	0091	2.43	+684	

RUN N	UN NUMBER 9		LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUP	IPER 198	
масн	0.KP#	(PSF)	RETA.DEG	ALPHA.DEG	CL	ĊD	СРм	CRM	CYM	CSF	L/D	H/8
.204	2.88	(60-12)	00	-2.01	0810	.0327	.2779	.0019	.0010	0070	-2.48	.472
+05.	2.88	(60.24)	00	.04	.1496	.0303	2192	.0036	.0007	0050	4.94	.518
.204	2.89	(60.33)	.00	2.09	.3957	.0319	.1621	.0036	.0008	0052	12.42	.564
.204	2.89	(60.31)	.00	4.14	.6244	.0389	.1159	.0018	.0014	0091	16.05	.610
.204	2.88	(60.24)	.00	6.21	.8466	.0506	.0791	.0014	.0015	-,0094	16.74	.657
.204	2.89	(60.27)	.01	8.30	1.0620	.0666	.0474	.0015	.0016	0113	15,94	.685
.204	2.89	(60.27)	.01	10.29	1.2569	.0851	.0234	.0008	.0012	0113	14.77	.685
.204	2.88	(60.24)	01	12.32	1.4047	.1280	.0281	.0115	.0101	0174	10.97	.685
.203	2.87	(59.93)	.01	14.34	1.4291	.2093	.0681	.0037	.0043	0185	6.83	.684
.205	2,90	(60.54)	.04	16.35	1.4835	.2648	.0989	0064	.0002	0163	5.60	.684
.204	2.89	(60.30)	.03	18,25	1.3493	.3901	2655	0009	+200.	0166	3.46	.684
.205	2,90	(60.57)	.03	20.30	1.3450	.4554	5249	.0017	0010	0100	2.95	.685
.204	2.90	(60.50)	.04	22,26	1.3689	.5225	-,6086	0001	0005	0133	2,62	.685
.205	2.90	(60.60)	.05	24.30	1.4219	.5959	6470	.0001	0012	0133	2,39	.684
PUN N	UMBER	10	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q, KP#	(PSF)	BETA, DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.204	2.88	(60.16)	.00	-1.97	.0206	.0286	0156	.0020	.0008	0068	.72	.473
.204	2.89	(60+45)	.00	.04	.2487	.0290	0695	.0033	.0007	0063	8.56	.519
•204	2,88	(60.25)	.00	2.14	.4980	.0345	1259	.0015	.0010	0079	14.42	.566
•204	2.88	(60+15)	.00	4.17	.7226	.0447	1754	.0024	.0016	0086	16.17	.612
.204	2.88	(60.08)	.00	6.30	.9453	.0602	2172	.0004	.0013	0106	15.70	.661
•204	2,88	(60.19)	.01	8,30	1.1512	.0789	2551	0004	.0011	0129	14.59	.684
•204	2.68	(60.15)	.01	10.31	1.3438	.1017	-,2779	±0004	.0009	0100	13.21	.684
.204	5.88	(60.14)	01	12.37	1.5003	.1469	2695	.0117	.0100	0173	10.22	.685
.204	2.89	(60.26)	.00	14.41	1.5296	.2315	-,2339	.0040	.0041	0169	6.62	.683
•204	2.89	(60.29)	.04	16.38	1.5748	.2889	2110	0073	0005	0147	5.45	.684
•204	2.89	(60.35)	.05	18.34	1.4489	.4282	5769	0015	.0014	0150	3.38	.685
.205	2.91	(60+69)	.04	20.27	1.4289	.4993	-,7897	.0055	0010	0126	2.86	.684
.205	2.91	(60.75)	.06	22.32	1.4605	.5766	8470	.0004	0007	0153	2.53	.685
.205	2 . 92	(60.96)	.07	24.36	1.4866	.6482	-,8728	0007	0009	0152	2.29	.685

RUN N	IMBER	11	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	TERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KP	(PSF)	BETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.204	2.88	(60.20)	00	-2.03	.1189	.0328	3259	.0025	.0007	0047	3.63	.474
.204	2.89	(60.36)	.00	.13	.3683	.0370	3878	.0019	.0010	0082	9.94	.523
.204	2.89	(60.30)	.00	2.16	.5957	.0453	4462	.0014	.0012	0080	13,16	.569
.204	2.88	(60.23)	.00	4.26	.8313	.0589	49A1	.0003	.0014	0085	14.12	.616
.204	2.89	(60.36)	.01	6.28	1.0527	.0758	5409	.0001	.0013	0099	13.89	.661
.204	2.89	(60.26)	.01	8.31	1.2603	.0980	~.5742	0008	.0008	0104	12.87	.684
.204	2.89	(60.39)	.01	10.33	1.4465	.1239	5882	.0002	.0011	0115	11.67	.685
•204	2.88	(60+17)	.02	12.45	1.5501	.1930	5560	0022	0005	0097	8.03	.684
•204	2.86	(60.07)	.01	14.37	1.6233	,2589	5552	.0038	.0039	0203	6.27	.685
.204	2.88	(60.12)	.05	16.43	1.6766	.3250	5470	0081	0004	0172	5.16	.684
.205	2.90	(60+56)	.03	18,28	1.5002	.4775	9057	.0017	.0014	0152	3.14	.684
.205	2.91	(60.76)	.03	20.37	1.4885	.5549	-1.0180	.0019	0002	0138	2.68	.685
.205	2.90	(60.60)	.04	22.36	1.4946	.6259	-1.0516	.0004	.0002	0165	2.39	.685
•205	2.90	(60.62)	.06	24.42	1.5303	.7049	-1.0551	0009	0008	0157	2.17	.684
RUN N	UMBER	17	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	RER 198	
MACH	0.KP/	(PSF)	PETA.DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
•204	2.88	(60-17)	00	-1.92	.2297	.0421	6474	.0019	.0009	0072	5,45	.478
•204	2.88	(60+21)	.00	.13	.4661	.0486	-,7095	.0019	.0006	0061	9.60	•524
•204	2.88	(60.17)	.00	2.22	.7058	.0603	7726	.0027	.0011	0051	11.70	.571
•204	2.88	(60.10)	.00	4.24	.9198	.0777	8165	.0007	.0011	0075	11.84	.617
•204	2.88	(60+17)	.00	6.31	1.1530	.0993	8606	.0003	0004	0067	11.61	.663
.204	2.89	(60.31)	.00	8.35	1.3528	.1335	8777	.0007	.0020	0116	10.13	.684
.204	2.89	(60+44)	.01	10.37	1.5283	.1677	8762	0005	.0016	0128	9.11	•684
•204	2.90	(60+49)	01	12.46	1.6797	.2144	8779	.0121	.0110	0210	7.83	.685
•504	2.88	(60.22)	.00	14.39	1.6918	.3028	8347	.0042	.0051	0201	5.59	.685
•204	2.89	(60.35)	.04	16.42	1.7415	.3734	8182	0065	.0013	0218	4.66	.685
.205	2.90	(60.60)	.04	18.33	1.5792	.5321	-1.0837	0030	.0019	0170	2.97	.685
•205	2.91	(60.76)	•02	20.37	1.5451	.6081	-1,1847	.0052	0017	0118	2.54	.685
.205	2.91	(60.84)	.05	22.34	1.5177	.6787	-1,1993	0008	.0007	0167	2.24	.685
.205	2.91	(60.81)	.06	24.36	1.5482	.7530	-1.1831	0010	÷.0002	0168	2.06	.684

RUN N	IUMRER 13	LONGI	TUDINAL STAB	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	A	TEST NU	MBER 198	
масн	O,KPA (PSF)	RETA,DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.204	2.87 (60.03)	-10.06	-1.98	.0487	.0080	0962	.0263	0276	.2031	6.10	.474
.204	2.89 (60.27)	-10.07	.05	.2741	.0094	1524	.0281	0250	.1965	29.30	.520
.204	2.89 (60.28)	-10.08	2.11	.5050	.0145	2019	.0319	0225	.1936	34.84	.567
.204	2.89 (60.42)	-10.09	4.22	.7396	.0254	2552	.0346	0214	.1930	29.17	.614
.204	2.89 (60.39)	-10.10	6.26	.9567	.0405	3109	.0365	0205	.1940	23.62	.661
.204	2.88 (60.10)	-10.12	8.31	1.1793	.0591	3604	.0389	0192	.1967	19,96	.685
.204	2.88 (60.12)	-10.14	10.34	1.3678	.0850	3916	.0390	0181	.1978	16.09	.685
.204	2.88 (60.10)	-10.12	12.33	1.4356	.1529	3528	.0185	0233	.1959	9.39	.684
.204	2.87 (60.00)	-10.14	14.35	1.5232	.2289	-: 3736	.0254	0144	.1812	6.65	.685
.204	2.88 (60.16)	-10.11	16.33	1.5437	.3098	4377	.0108	0196	:1879	4.98	.685
.204	2.88 (60.21)	-10.12	18.42	1.6161	.3794	4802	.0149	0174	.1857	4.26	.684
.204	2.89 (60.40)	-10.08	20.31	1.5109	.4949	6947	.0016	0122	.1605	3.05	.684
.204	2.88 (60.19)	-10.06	22.37	1.5212	.5725	8059	0008	0067	.1413	2.66	.687
.204	2,89 (60.32)	-10.05	24.38	1,5313	.6481	8511	0005	0045	.1277	2.36	.685
RUN N	UMAER 14	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUP	BER 198	
MACH	Q.KPA (PSF)	RETA, DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.205	2.90 (60.60)	-4.98	-2.01	.0120	.0239	0250	.0139	0129	.0968	.50	.473
.204	2.90 (60.52)	-4.99	.06	.2503	.0241	0824	.0164	0119	.0959	10.40	.519
.204	2.89 (60.46)	-5.00	2.19	.4951	.0300	1379	.0170	0103	.0910	16.51	.568
.204	2,89 (60.40)	-5.01	4.16	.7212	.0398	-,1957	.0191	0089	.0905	18,12	.612
.204	2,89 (60.27)	-5.02	6.29	•9519	.0557	2472	.0197	0085	.0892	17.10	.660
.204	2,89 (60.28)	-5.02	8.29	1,1609	.0744	2902	.0208	0096	.0944	15.59	.706
.204	2,88 (60.19)	-5.03	10.28	1,3564	.0971	3223	.0214	0094	.0937	13.97	.703
.204	2.87 (60.00)	-5.02	12.46	1.4599	.1627	2912	.0076	0145	.0971	8,98	.682
.203	2,87 (59,94)	5.02	14.39	1,5551	•2224	2854	.0088	0095	.0879	6,99	.685
.203	2.85 (59.52)	-4.99	16.34	1,5041	.3240	3601	.0004	0137	.0785	4.64	.687
.204	2.89 (60.29)	-5.02	18.40	1,5507	.3853	3684	.0117	0100	.0791	4,02	.688
.205	2,90 (60.60)	-4.97	20.33	1,4862	.5050	7203	0014	0086	.0779	2.94	.685
.204	2.90 (60.53)	-4.98	22.34	1.4484	.5679	8570	.0022	0112	.0781	2,55	.685
.205	2.91 (60.82)	-4.96	24.41	1.4929	.6488	8849	.Ó009	0086	.0746	2.30	.688

RUN N	NMBER 15	2 15 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198									
MACH	O, KPA (PSF)	RETADEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	HZB
.205	2.91 (60.76)	.03	-1.98	.0092	.0284	0015	.0016	.0010	-,0041	.32	.473
.205	2.91 (60.78)	.03	.09	.2508	.0287	0560	.0023	.0009	0052	8.75	.519
.205	2.91 (60.69)	.03	2.20	-4869	.0345	1131	.0023	.0010	0050	14.12	.567
.204	2.90 (60.50)	.03	4.22	.7255	.0441	1595	.0023	.0017	0051	16.46	.613
.204	2.89 (60.43)	.02	6.40	.9571	.0596	2049	.0011	.0017	0065	16.06	.662
.204	2.89 (60.30)	.03	8.37	1.1609	.0778	2429	.0003	.0017	0103	14.92	.686
.204	2.88 (60.21)	.03	10.31	1.3400	.0997	2667	.0001	.0015	0105	13.44	.684
.204	2.88 (60.19)	.01	12,45	1.4897	.1473	2588	.0114	.0106	0182	10.12	.686
.203	2.87 (59.92)	- 02	14.45	1.5270	.2297	2282	.0044	.0045	0174	6.65	.686
.203	2.86 (59.83)	.06	16.43	1.5673	.2875	2024	0068	.0000	0158	5.45	.687
.203	2.87 (59.88)	.05	18.29	1.4495	4253	5578	0015	.0019	0137	3.41	.685
.204	2.89 (60.45)	.05	20.25	1.4204	.4956	7826	.0020	0011	0097	2.87	.688
.205	2.90 (60.58)	.07	22.37	1.4300	.5688	8418	0005	.0002	0154	2.51	.684
.205	2.90 (60.67)	.08	24.47	1,4825	.6494	8633	0003	0009	0141	2.28	.685
RUN N	UMBER 16	LONGI	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	Å	TEST NUP	BER 198	
MACH	Q, KPA (PSF)	RETA+DEG	ALPHA, DEG	CL	CD	СРМ	CRM	CYM	CSF	L/0	HZB
.203	2.86 (59.70)	5.00	-1.98	.0182	.0232	-,0289	0111	.0141	1033	.79	.473
.203	2.87 (59.92)	5.00	17	.2735	.0237	0898	0117	.0130	1023	11.52	.522
•204	2.87 (60.04)	5.01	2.22	.5014	.0294	1412	0156	.0115	0974	17.08	•568
.204	2.88 (60.17)	5.01	4.18	.7273	.0392	1960	0149	.0112	0990	18.54	.613
.204	2.90 (60.49)	5.02	6.37	,9647	.0551	-,2561	0171	.0117	1039	17.50	.662
.204	2.89 (60.45)	5.04	8.42	1,1670	.0755	3000	0202	.0117	1088	15.46	.682
.204	2.90 (60.53)	5.05	10.40	1.3674	.0972	3384	0212	.0121	1127	14.06	.687
204	2.89 (60.36)	5.05	12.41	1.5388	.1278	3583	0196	.0114	1137	12.04	.686
.204	2.88 (60.06)	5.05	14.42	1,5677	.2101	2921	0136	.0105	1106	7.46	.686
.203	2.86 (59.73)	5.08	16.41	1.4968	.3235	3751	0183	.0106	1074	4.63	.683
.204	2.88 (60.22)	5,11	18.44	1,5629	.3871	4641	0255	.0089	1067	4.04	.685
.204	2.89 (60.30)	5.11	20.33	1.5159	.5075	7562	0139	.0088	1075	2.99	.687
.204	2.89 (60.32)	5.14	22.30	1,5213	.5773	8593	0108	.0046	1023	2.64	.686
.205	2.91 (60.69)	5.11	24.33	1.4979	.6469	8894	0015	.0060	0979	2.32	.686

RUN NUMBER 17			LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUP	RER 198	
масн	Q, KP/	(PSF)	RFTA.D€G	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.117	.96	(20.13)	00	-2.01	0569	.1032	-,1658	.0006	.0008	0071	-,55	.474
•117	.97	(20.16)	.00	.04	.0907	.0799	1093	.0006	.0005	0063	1.13	.523
.117	.96	(20.15)	.00	2.09	•2634	.0645	0808	0007	+000A	0063	4.08	.571
.117	.97	$(20 \cdot 16)$.01	4.11	+4695	.0609	0719	.0009	.0006	0080	7.71	.618
.117	.97	(20.16)	.01	6.20	.6910	.0665	0282	.0003	.0004	0085	10.40	.668
.117	.97	(20.17)	.02	8.24	.8720	.0791	.0088	0002	.0003	0099	11.03	.685
+117	.97	(20.16)	.03	10.27	1.0602	.0916	.0461	0024	0008	0099	11.58	.685
.117	.96	(20.11)	.03	12.29	1.2343	.1108	-0A28	0025	0013	0079	11.14	.685
•116	.96	(20.02)	.04	14.34	1.4061	.1361	1247	0016	0017	0068	10.33	.685
.117	.97	(20.21)	.05	16.37	1.5684	1622	.1744	0015	0014	0114	9.67	.685
•117	.97	(20.20)	.06	18.38	1.6976	1935	-2112	0010	0012	0089	8.77	.685
.117	.96	(20.11)	.05	20.40	1.6837	.2669	1668	0086	.0002	0139	6.31	.684
.117	.96	(20.05)	.06	22.39	1.7347	.3284	.2194	.0054	0034	0165	5.28	.685
•116	.96	(19.98)	.09	24.43	1.8204	.3952	.2562	0022	0054	0146	4.61	.685
RUN N	IMBER	18	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	0,KP/	(PSF)	RFTA.DEG	ALPHA.DEG	CL	ĊD	CPM	CRM	CYM	CSF	L/0	н/ө
•166	1.92	(40.12)	00	-2.00	0541	.1012	-,1631	0016	.0010	0084	53	.475
.166	1.92	(40.16)	.00	.06	.1067	.0771	1227	.0025	.0004	0033	1.38	.523
.166	1.93	(40.22)	.00	2.13	.3099	.0613	0957	.0022	.0008	0059	5.05	.570
.166	1.92	(40.19)	.01	4,18	.5166	.0600	0730	.0011	.0008	0052	8,60	.617
.166	1.92	(40.11)	.01	6,19	.7050	.0665	0341	0010	.0002	0078	10.59	.664
.166	1.93	(40.27)	.02	8,20	.8927	.0763	.0023	0009	.0000	0079	11.70	.684
.166	1.93	(40.24)	.02	10,25	1.0806	.0916	.0383	0004	0005	0064	11,80	.689
.166	1.92	(40.19)	.03	12,28	1.2624	.1098	.0810	0055	0015	0047	11.50	.684
.166	1.92	(40.10)	.04	14.37	1.4406	.1360	.1231	0014	0015	0044	10.59	.685
.166	1,93	(40.21)	.05	16.42	1.5950	.1655	.1725	0041	0031	0062	9.64	.685
.166	1.93	(40.22)	.06	18,44	1.7057	.1987	.2105	0044	0026	0059	8.58	.684
.166	1.93	(40.39)	.04	20.46	1.6913	.2706	.1643	.0074	0009	0098	6.25	.685
•166	1.93	(40.23)	.05	22,39	1.7537	.3298	.2180	.0066	0033	0166	5.32	.684
•166	1.93	(40.34)	.08	24.41	1.8263	.3839	.2795	0019	0078	0125	4.76	.684

.

RUN N	UMBER	19	LUNGIT	UDINAL STAB	ILITY-AXIS	AND LAT	RAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
масн	0+KPA	(PSF)	PFTA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
•204	2.89	(60+40)	00	-2.02	0590	.0989	1677	0018	.0007	0070	60	.475
•204	2.89	(60.28)	.00	.03	.1154	.0747	1283	.0016	.0006	-,0049	1.54	,522
•504	2.89	(60+43)	.00	2.06	.3222	.0592	1084	.0010	.0005	0047	5.44	•567
+204	2.89	(60.30)	.00	4.16	.5290	.0579	0738	.0010	.0007	0050	9.13	.615
.204	2.89	(60.39)	.01	6.19	.7222	.0638	0347	.0010	.0010	0073	11.32	.660
•504	2.89	(60.30)	.02	8.26	.8966	.0765	.0023	0008	.0001	0081	11.72	.685
•204	2,89	(60.36)	• 0 2	10.27	1.0753	.0930	.0408	0055	0011	0055	11.56	.685
•204	2.89	(60.27)	.03	12.35	1.2528	.1124	.0795	0024	0017	0043	11.14	.685
.204	2.89	(60.38)	.03	14,35	1,4060	.1372	.1176	0004	0008	0071	10.25	.684
+02+	2.89	(60+41)	.00	16.36	1.4452	.1762	.1226	.0109	.0039	0186	8.20	.684
.204	2.89	(60.33)	.01	18.38	1.5699	.2239	.1401	.0093	0005	~.0176	7.01	.684
+05.	2.89	(60.44)	.03	20.40	1.6552	.2746	.1557	.0059	0046	0094	6.03	.685
•204	2.89	(60+27)	.04	22.44	1.7280	.3325	.2315	.0051	0056	0131	5.20	.685
RUN N	UMBER	20	LONGIT	UDINAL STA9	ILITY-AXIS	AND LAT	FRAL BODY	AXIS DAT	4	TEST NUM	IBER 198	
масн	Q,KPA	(PSF)	PETA, DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	HZR
.205	2.90	(60.52)	00	-4.06	5219	.2162	.82A3	0014	.0008	0054	-2.41	.425
.205	2.90	(60.54)	00	-2,08	3792	.1684	.8192	0010	.0010	0078	-2.25	.469
.204	5.90	(60+48)	.00	03	1956	.1219	.8267	.0024	.0003	0039	-1.60	.516
•204	2.89	(60.37)	.00	2,02	.0155	.0919	.8027	.0020	.0008	0042	.17	.562
•504	5.98	(60+17)	.00	4.05	.2559	.0719	.7514	.0028	.0024	0077	3.56	.608
+02+	2.88	(60+16)	.01	6,13	.4789	.0697	.6932	.0019	.0006	0039	6.87	.655
-204	2.88	(60+12)	.01	8.16	.6834	.0772	•64R5	.0010	.0004	0051	8.85	.698
.204	2.88	(60+14)	.02	10,22	.8929	.0899	.6017	0009	0001	0083	9.93	.685
•504	2.88	(60.10)	.03	12.26	1.1150	.1065	.5372	0018	0009	0066	10.47	.685
+02+	2.87	(60.04)	.03	14.31	1.3287	.1306	.4903	0011	0004	0068	10.17	.684
•204	2.87	(60.01)	.05	16.34	1.5084	.1580	•4650	0036	0018	0073	9,55	.685
.203	2.87	(59.94)	.06	18.41	1.6533	.1967	.4217	0057	0024	0063	8.40	.685
						~ ~						405
•204	2,88	(00+10)	.05	20.38	1.7400	.2511	•3459	-,0013	•0058	-,0027	6.93	•085

_

PUN N	UMRER	21	LONGI	TUDINAL STAR	TEST NUMBER 198							
масн	0.KP	A (PSF)	RETA.DEG	ALPHA, DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/R
.205	2.90	(60.52)	01	-4.11	4577	.1580	.6137	0019	.0018	0097	-2.90	.424
•204	2.89	(60.39)	00	-2.04	2961	.1175	.5587	.0004	.0008	0065	-2.52	.472
•204	2.89	(60.39)	.00	01	0980	.0870	.5218	.0017	.0005	0068	-1.13	.518
•204	2,89	(60.33)	.00	2.03	.1402	.0652	.4681	.0042	.0005	0036	2.15	.564
.204	2.88	(60.15)	.01	4.07	.3628	.0611	•4124	.0018	.0008	0069	5.94	.610
•204	2.88	(60.20)	.01	6.14	.5838	.0650	.3605	.0017	.0007	0062	8.98	.657
•204	2.88	(60.16)	.02	8,20	.7955	.0754	.3167	0006	.0003	0084	10.55	.685
•204	2.88	(60.13)	.02	10.25	1.0125	.0918	.2700	0016	0002	0094	11.03	.685
.204	2.87	(60.04)	.04	12,28	1.2359	.1106	.2162	0021	0005	0069	11.17	.685
.203	2,86	(59.81)	.04	14.38	1.4496	.1391	.1777	0037	0011	0084	10.42	.685
.204	2.89	(60.32)	.05	16.38	1.6125	.1669	.1618	0050	0021	0058	9.66	.685
.204	2.88	(60.20)	.07	18,42	1.7529	.2080	.1241	0075	0030	0066	8.43	.684
.204	2.89	(60.32)	.06	20.44	1.8460	.2638	.0370	0042	.0005	0020	7.00	.685
•204	2.90	(60+49)	.07	22.46	1.9185	.3290	0127	0030	.0040	0059	5.83	.685
RUN NU	IMBER	22	LONGIT	UNINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	AXIS DAT	A	TEST NUR	BER 198	
MACH	Q, KP/	(PSF)	BETA.DEG	ALPHA, DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.204	2.89	(60.43)	00	-4.08	-,3559	.1422	.3099	.0000	.0007	0035	-2.50	.426
.204	2.89	(60.39)	00	-2.04	1941	.1071	.2738	0008	.0008	0070	-1.81	.472
•204	2.89	(60.44)	.00	.01	.0018	.0786	.2329	.0024	.0006	0037	.02	.519
.205	2.90	(60.55)	.00	2.06	.2278	.0609	.1791	.0025	.0006	0051	3.74	-566
.204	2.88	(60.23)	.00	4.12	.4650	.0590	.1205	.0017	.0006	0043	7.88	.612
•204	2.89	(60.37)	.01	6,16	.6748	.0662	.0763	0011	.0001	0059	10.19	.658
.204	2.89	(60.32)	.02	8.24	. 8944	.0791	.0309	0005	.0003	0081	11.30	.685
.204	2.89	(60.26)	.02	10.28	1.1099	.0976	0145	0023	0005	0066	11.37	.685
.204	2.87	(60.01)	.03	12.34	1.3198	.1207	0627	0035	0008	0085	10.93	-685
.204	2,88	(60.24)	.04	14.38	1.5214	.1492	0907	0035	0010	0069	10.20	.685
.204	2.87	(59.99)	.05	16.42	1.6926	.1813	0947	0058	0021	0071	9.34	.685
.204	2,87	(60.04)	.07	18,44	1,8293	,2239	1321	0079	0030	0068	8.17	.685
•204	2,89	(60.33)	.07	20.48	1.9195	.2841	2577	0054	0007	0022	6.76	.684
		140 311		77.44	1 0010		22/-					

RUN NUMBER 23			LONGI	UDINAL STAR	TEST NU	TEST NUMBER 198						
масн	0,KP	A (PSF)	BETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.204	2,89	(60+40)	00	-4.06	2462	.1342	0366	.0021	.0011	0042	-1.83	.428
•504	2,89	(60+27)	00	-2.03	0871	.1024	0711	.0017	.0009	0050	85	.474
•204	2.88	(60.22)	.00	.03	.1076	.0766	1054	.0027	.0004	0048	1.40	.521
•204	2.88	(60.16)	.00	2.09	.3533	.0627	1634	.0040	.0007	0040	5.64	-568
•204	2.88	(60.19)	.00	4.14	.5698	.0652	2100	.0021	.0009	0062	8.73	.614
.204	2.88	(60.09)	.01	6.18	.7783	.0758	2519	.0005	.0005	0060	10.27	.661
.204	2.88	(60.1A)	.02	8.23	.9947	.0913	2978	0002	.0003	0088	10.90	.684
.204	2.88	(60.22)	.03	10.29	1.2089	.1133	3370	0023	0006	0084	10.67	.684
.204	2.88	(60.24)	.03	12.34	1.4162	.1375	3737	0028	0007	0070	10.30	-684
.204	2.88	(60.19)	.04	14.39	1.5976	.1708	4006	0040	0013	0085	9.35	-684
.204	2.88	(60.05)	.05	16.42	1.7760	.2054	4121	0058	0024	0069	8.65	-684
.204	2.89	(60.33)	.07	18.47	1.9286	.2537	4746	0086	0041	0089	7.60	-685
•204	2.89	(60.27)	.07	20.45	2.0111	.3273	6139	0068	0028	0011	6.14	-685
.205	2,89	(60.44)	.08	22.48	2.0866	.4126	6908	0051	.0013	0031	5.06	.685
RUN N	UMBER	24	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0,KP/	(PSF)	RETA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.205	2.90	(60.50)	01	-4.03	1250	.1323	3783	0004	.0006	0053	94	.431
.205	2.89	(60+43)	00	-1,98	.0349	.1042	-,4053	0026	.0006	0080	.33	478
.204	2.89	(60.37)	00	.05	.2266	.0833	4432	.0005	.0007	0087	2.72	.525
.204	2.88	(60.19)	.00	2.13	.4673	.0723	4962	.0026	.0008	0060	6.46	.572
.204	2.88	(60.24)	.01	4.16	.6744	.0783	5410	0003	.0004	0048	8.61	-618
.204	2.88	(60.25)	.01	6.22	.9005	.0913	5874	0006	.0004	0079	9.87	.664
.204	2.89	(60.32)	.02	8.28	1.1084	.1107	6289	0010	.0002	0075	10.01	-685
.204	2,88	(60.10)	.07	10.32	1.3190	.1349	6602	0027	0002	0078	9.78	-684
.204	2,88	(60.17)	.03	12.38	1.5091	.1635	-,6832	0042	0011	0081	9.23	-685
.204	2.87	(60.02)	.04	14.42	1.7003	.2011	-,7190	0044	0021	0081	8.45	-684
.204	2.88	(60.10)	.05	16.48	1.8757	.2483	7500	0067	0026	0068	7.56	-684
.204	2.98	(60.24)	.07	18.50	2.0130	.3091	8187	0096	0043	0070	6.51	-684
.204	2.89	(60.31)	.08	20.49	2.0962	.3904	9146	0089	0034	0003	5.37	-685
.205	2.90	(60.55)	.09	22.52	2.1520	.4765	9488	0056	.0006	0035	4.52	.685

I

ł

	UMBER 25		LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	N	TEST NUM	BER 198	
MACH	Q.KPA (PS	SF)	RFTADEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
.205	2.89 (60	41)	01	-3,99	0106	.1374	7106	0013	.0007	0083	08	.433
.205	2.89 (60	46)	00	-1.95	.1450	.1126	-,7385	0025	0000	0067	1.29	.479
.204	2.88 (60	24)	00	.09	.3359	.0957	-,7792	.0014	.0001	0058	3.51	•256
.205	2,89 (60.	40)	.00	2.15	.5663	.0890	-,8268	.0010	0003	0032	6.37	.573
•204	2.87 (59	931	.01	4.18	.7831	.0984	8763	0004	0008	0036	7,96	.619
.205	2.90 (60	48)	.01	6.25	1.0045	.1155	-,9246	0019	0005	0072	8.70	.666
.204	2.88 (60	.17)	.02	8.28	1.2098	.1395	9453	0017	0010	0062	8.67	.684
.204	2.87 (60)	.04)	.03	10.35	1.4065	.1710	-,9586	0039	0006	0089	8,22	₀ 685
.204	2.86 (59)	.82)	.04	12.37	1.5722	.2071	9364	0047	0010	0090	7.59	.684
.205	2.89 (60)	38)	.05	14,43	1.7427	.2516	9327	0053	0015	0096	6.93	.685
.204	2.88 (60)	23)	.06	16.45	1.9030	.2999	-,9346	0069	0030	0058	6.35	.685
.204	2.89 (60	.36)	.08	18.48	2.0285	.3680	-1.0020	0101	0036	0071	5.51	.685
.205	2.90 (60.	.57)	.08	20.49	2.1074	.4522	-1.0656	0065	0006	0037	4.66	,685
.205	2.89 (60)	•44)	.10	22.47	2.1744	.5349	-1.1073	0086	0003	0047	4.06	•686
RUN N	UMBER 26		LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	TERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q.KPA (P	SF)	RFTA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
.204	2.89 (60	.33)	-9.98	-4.22	2383	.1132	0760	.0217	0298	.2079	-2.11	.425
.205	2.90 (604	•47)	-9.99	-1,98	0738	.0808	1330	.0198	0294	.2044	- .91	.476
.205	2.89 (60	• 45)	-9.99	.06	.1288	,0557	1777	.0158	0271	.1901	2.31	•523
.204	2.89 (60	.35)	-9.99	2.09	.3538	.0433	2372	.0212	0247	1878	8.17	•569
•204	2.88 (60)	.24)	-10.01	4.14	.5803	.0446	2893	.0238	0237	.1892	13.00	.616
•504	2.88 (6)	.18)	-10,01	6.20	.7987	.0558	3412	.0258	0235	.1944	14.31	.662
.204	2.87 (59	•97)	-10.02	8.25	1.0152	.0730	3937	.0264	0225	1958	13.90	.685
.204	2.88 (60-	.21)	-10.04	10.31	1.2322	.0971	4327	.0255	0215	•5003	12,68	.684
.205	2,89 (60-	• 44)	-10,05	12.38	1.4396	.1256	4824	.0248	0208	.2002	11.46	.685
.204	2,89 (60	.26)	-10.06	14.41	1.6298	,1585	5170	.0253	0203	•5005	10.28	.685
•204	2.88 (60	.10)	-10.05	16.47	1.7838	.2006	5203	.0193	0256	.2089	8.89	.684
.205	2.89 (60-	• 40)	-10.05	18.45	1.8923	.2487	5238	.0187	0267	.2129	7.61	.684
.205	2.90 (60	•59)	-10.06	20.43	1,9485	.3183	5866	.0218	0267	.2089	6.12	.684
.205	2.90 (60	.66)	-10.08	22.49	2.0321	.4072	6841	.0291	0304	.1901	4.99	.685

RUN N	UMBER	27	LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198									
масн	Q. KP#	(PSF)	RFTA.DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.205	2.89	(60.35)	-4.97	-4,05	2483	.1270	0278	.0120	0149	.1060	-1.96	.428
.205	2.89	(60.35)	-4.97	-1,99	0865	.0967	072B	.0081	0141	.1023	89	.476
.204	2.88	(60.24)	-4.98	.02	.1021	.0714	1053	.0109	0129	.0970	1.43	.522
.204	2.89	(60.31)	-4.99	2.09	.3415	.0584	1676	.0114	0115	.0929	5.85	•569
.204	2.88	(60.25)	-4.99	4.16	.5697	.0612	2227	.0116	0105	.0911	9.31	.616
•204	2.88	(60.17)	-5.00	6.20	.7896	.0706	2754	.0140	0102	.0938	11.19	.662
.204	2.88	(60.07)	-5.00	8,26	.9878	.0879	3164	.0127	0114	.0961	11.24	.684
.204	2.88	(60.16)	-5.01	10.34	1.2117	.1096	-,3573	.0111	0126	.0984	11.06	.684
.204	2.87	(60.02)	-5.01	12.30	1.4062	.1329	4007	.0133	0124	.1001	10.58	.684
.204	2.88	(60.05)	-5.02	14.46	1.5910	.1668	4384	.0135	0124	.0989	9.54	.685
.204	2.89	(60.34)	-5-01	16.41	1.7622	.2026	-,4769	.0105	0152	.1038	8.70	.683
.204	2.89	(60.27)	-5.01	18.47	1.9134	.2508	-,5326	.0113	0170	.1067	7.63	.685
.204	2.88	(60.22)	-5.01	20.45	1.9903	.3175	5848	.0100	0186	.1098	6.27	.685
.205	2.89	(60+40)	-4,99	22,51	2.0698	.4064	6918	.0067	0227	.1037	5.09	.684
RUN N	UMBER	28	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0,KP/	(PSF)	RFTAODEG	ALPHA, DFG	CL	CD	Срм	CRM	CYM	CSF	L/D	H/R
.204	2.89	(60.33)	.00	-4.05	2567	.1301	0096	0002	.0004	.0020	-1.97	.428
.204	2.89	(60.35)	.00	-2.01	0964	.1009	0422	0003	.0003	.0003	96	+475
.205	2.90	(60-47)	÷.00	.04	.0913	.0782	0772	-000S	.0000	.0009	1.17	.522
.204	2,89	(60.31)	00	2.08	.3302	.0625	1294	.0037	.0005	.0046	5,28	•56
.204	2.89	(60.28)	00	4.14	.5649	.0643	1863	.0010	•0003	.0023	8.79	.615
.204	2.88	(60.21)	00	6.19	.7815	.0743	2296	0006	.0007	0033	10.52	.66]
.204	2.89	(60.26)	.00	8.21	.9868	.0894	2719	0019	•0003	0020	11.04	,685
.204	2.89	(60.30)	.01	10.34	1.2096	.1120	-,3174	0032	.0001	0049	10.80	.68
.204	2.88	(60+17)	.02	12.40	1.3948	.1386	3623	0054	0014	0029	10.06	.684
+204	2.A7	(59.98)	.03	14.39	1,5860	1692	-,3948	0055	0014	0057	9.37	.684
.204	2.88	(60.09)	.04	16.41	1.7633	.2037	4154	0068	0021	0045	8.65	.68
.204	2.88	(60.19)	.06	18,42	1.8984	.2561	4879	0107	0053	.0017	7.41	.684
.205	2.89	(60+41)	.06	20.49	2.0031	.3296	6030	0098	0037	.0040	6.08	.68
.205	2.89	(60.36)	.06	22.49	2.0749	.4088	-,6657	0085	0018	.0031	5.08	.68

PUN N	UMPER 59	LONGITUDINAL STARILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198									
MACH	D.KPA (PSF)	RETAIDEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	ĊSF	L/D	н/в
.204	2.89 (60.28)	4.99	-4.02	-,2359	.1234	0297	0130	.0145	1007	-1.91	.430
.204	2.89 (60.33)	5.00	-2.01	0680	.0938	073A	0107	.0146	0982	73	.475
.205	2.89 (60.36)	5.00	.07	.1275	.0707	1114	0083	.0132	0924	1.80	.523
.204	2.89 (60.31)	5.00	2.12	.3396	.0579	1622	0083	.0124	0915	5.87	.570
.205	2.89 (60.41)	5,01	4.14	+5784	.0595	2222	0120	.0118	0914	9.72	.615
.205	2.89 (60.42)	5.02	6.25	.7982	.0706	2806	0151	.0117	0970	11.30	.663
•204	2.89 (60.32)	5.03	8.31	1.0186	.0871	3332	0169	.0118	1016	11.69	.685
.205	2.89 (60.37)	5.05	10.29	1.2252	.1070	3779	0184	.0118	- 1059	11.45	.684
•204	2.88 (60.I1)	5.06	12.32	1.4146	.1314	4037	0202	.0112	-,1057	10.77	.684
.204	2.88 (60.20)	5.08	14.38	1.5928	.1643	4340	0230	.0102	1061	9.69	-684
.204	2.89 (60.30)	5.11	16.47	1.7874	.2011	4626	0274	.0073	1053	8.89	.684
.204	2.87 (60.03)	5.13	18,43	1.9080	.2605	5476	0313	.0063	0973	7.32	-684
.205	2.89 (60.37)	5,19	20.43	1.9850	.3313	5983	0271	.0111	1095	5.99	.685
.205	2.89 (60.37)	5.20	22.48	2.0641	.4122	6544	0232	.0150	1090	5.01	.684
RUN N	UMBER 30	LONGIT	NUDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q.KPA (PSF)	RETA, DEG	ALPHA, DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в
.117	.97 (20.20)	01	-3.95	.1394	.1373	2877	.0014	.0020	0155	1.02	. 426
•117	.97 (20.24)	01	-1.90	.4105	.1193	3080	0013	.0017	0164	3.44	.473
•117	•97 (20•2l)	.00	•25	.7553	.1111	3676	.0037	.0009	0059	6.80	.521
.117	•07 (SO•16)	.01	2.29	1.0552	.1197	3698	.0014	.0011	0107	8.81	,569
.117	•97 (20 • 16)	.05	4.36	1.2867	.1348	3466	0004	.0009	0090	9.55	.617
•117	.97 (20.17)	.03	6.41	1.5047	.1549	3186	0025	.0005	0146	9.72	.666
.117	.97 (20.17)	.03	8.41	1.6904	.1796	2854	0016	.0005	0107	9.41	.685
.117	. 96 (20 . 14)	.04	10.52	1.9109	.2034	2396	0022	.0004	0142	9.40	.684
•117	. 96 (20 . 13)	.04	12.53	2.0673	.2406	2084	0019	.0003	0077	8.59	.685
•117	. 96 (20.06)	.06	14.55	2.2527	.2713	1544	0031	.0004	0135	8.30	.685
•117	.96 (20.09)	.06	16.60	2.3457	.3029	0974	0.006	.0004	0149	7.74	.685
.117	.96 (50.09)	.06	18,55	2,3581	.3402	0565	.0031	.0005	0143	6.93	.685
•117	•96 (50•15)	.07	20.58	2.3274	.4341	0509	.0044	0045	0178	5.36	.684
•117	.96 (20.14)	.08	22.53	2.3409	.5131	0486	.0012	0014	0109	4.56	.685

RUN N	UMBER 31	LONGI	LONGITUDINAL STARILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198									
масн	O+KPA (PSF)	BETA, DEG	ALPHA.DEG	CL	CD	Срм	CRM	CYM	ĊSF	L/D	H/B	
.166	1.92 (40.06	01	-3.98	.1456	.1374	2945	0000	.0003	0074	1.06	.425	
.166	1.92 140.09)00	-1.89	.4547	.1160	3337	.0069	.0012	0047	3.92	.472	
•166	1.92 (40.09)	00	.18	.7884	.1108	3768	.0018	.0010	0069	7.12	.518	
.166	1.92 (40.08	.01	2,31	1.0690	.1190	3732	•0003	.0009	0079	8.98	.566	
.166	1.92 (40.02)	.01	4.30	1.2835	.1355	3585	0015	.0007	0067	9.48	.612	
.166	1.91 (39.96)	•05	6.41	1.5161	.1549	3234	-•00SS	.0007	0099	9.79	.659	
.166	1.93 (40.25)	.02	8,52	1.7156	.1804	2884	0030	0000	0084	9.51	.685	
•166	1.92 (40.1)	.04	10.47	1.9133	.2052	2525	0034	0003	0100	9.32	.684	
.166	1.92 (40.07)	.04	12,51	2.1017	.2360	2050	0015	.0003	0076	8.91	.684	
.166	1.92 (40.16)	.05	14.60	2.2537	.2734	1598	0037	0007	0092	8.24	.682	
.166	1.92 (40.12)	.03	16,55	2.2654	.3268	1583	.0089	.0030	0269	6.93	.685	
.166	1.93 (40.22)	.05	18.57	2.3341	.3718	1010	.0057	0011	0235	6.28	.685	
.166	1.92 (40.18)	.09	20.53	2.3228	.4311	0797	0035	0110	0118	5.39	.685	
.166	1.91 (39.95)	.09	22.57	2.3516	.5159	0552	0016	0036	0082	4.56	.685	
RUN NUMAER 32		LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198		
MACH	Q.KPA (PSF)	HETA.DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в	
.205	2.89 (60.28)	01	-3.93	.1598	.1356	3007	.0004	.0007	0087	1.18	.427	
.205	2.88 (60.19)	00	-1.85	.4881	.1140	3488	.0042	.0011	0072	4.28	472	
.205	2.89 (60.30)	.00	.23	.8102	.1111	3843	.0002	.0010	0076	7.29	517	
.204	2.88 (60.25)	.00	2.31	1.0695	.1188	3744	0003	.0009	0073	9.00	.561	
.204	2.88 (60.14)	.01.	4.36	1.2924	.1347	3539	0016	.0012	0082	9.60	.607	
.205	2.89 (60.28)	.02	6.37	1.4940	.1555	3232	0022	.0009	0083	9.61	-652	
.205	2,89 (60.44)	.03	8.44	1.7043	.1790	2878	0036	.0001	0094	9.52	.684	
.205	2,89 (60.31)	.04	10.48	1.9029	,2055	2487	0041	0001	009A	9.26	.684	
.205	2.89 (60.28)	.05	12,52	2.0963	.2362	2066	0041	.0000	0098	8.87	.685	
•204	2,88 (60.20)	.06	14.55	2.2520	.2728	1576	0039	.0003	0126	8.26	.685	
.205	2.89 (60.44)	.01	16.54	2.2302	.3326	1735	.0131	.0045	0353	6.71	.684	
.205	2.89 (60.42)	.03	18.59	2.3164	.3721	1256	.0086	0006	0215	6.23	685	
.205	2,90 (60,59)	.10	20.53	2.3196	.4260	0888	0065	0094	0084	5.45	.685	
.205	2.89 (60.38)	.12	22.60	2.3877	.5065	0568	0079	0067	0085	4.71	.685	

RUN NUMBER 33			LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA								TEST NUMBER 198			
масн	Q, KP	(PSF)	RETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B		
.205	2.89	(60.32)	01	~3,95	.1300	.1244	-,2953	.0005	.0016	0128	1.04	.427		
.205	2.89	(60.39)	00	-1.89	.4681	.1014	3462	.0064	.0017	0082	4-62	.471		
.205	2.89	(60.26)	.00	.23	.8264	.0983	3913	.0020	.0016	0111	8.41	-516		
•204	2.88	(69.16)	.00	2.28	1.0908	.1064	3824	.0007	.0014	0109	10.25	-561		
.204	2.88	(60.24)	.01	4.33	1.3141	.1235	3600	0023	.0012	0103	10.64	.606		
.204	5.88	(60.13)	.02	6.44	1.5299	.1473	- 3292	0021	.0011	0124	10.39	.653		
.205	2.89	(60+44)	.03	8.44	1.7195	.1729	2936	0050	0006	- 0114	9.94	-684		
•205	2,90	(60+47)	.04	10.44	1.9236	.1989	2560	0037	.0002	0132	9.67	-684		
.205	2.89	(60.39)	.04	12.53	2.1131	.2329	2115	0042	0001	0139	9-07	- 685		
•204	2.88	(60.12)	05	14.53	2.2710	.2678	1613	0035	.0008	0176	8.48	-685		
.205	2.89	$(60 \cdot 44)$.02	16.61	2.2845	.3277	1693	.0114	.0034	0360	6.97	-685		
.205	2.89	(60.34)	.03	18.56	2.3650	.3655	1175	.0094	0003	0264	6.47	-685		
.204	2.88	(60.19)	.08	20.55	2.3567	.4381	- 1255	0038	0042	0062	5.38	.685		
.205	2.89	(60+41)	.08	22.60	2.3962	.5115	0481	.0002	0012	0101	4.68	.685		
RUNN	UMBER	35	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198			
MACH	0,KP/	(PSF)	BETA,DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в		
.205	2.89	(60+46)	01	-4.03	1464	.1806	.5959	0017	0000	0125	81	-421		
.205	2.89	(60.31)	00	-1.95	.1819	.1434	.5015	.0060	.0003	0099	1.27	-466		
.205	2.89	(60.38)	.00	.16	.5521	.1202	.3560	.0006	.0010	0114	4.59	-512		
.205	2.88	(60.25)	.01	2.18	.8243	.1233	.2796	0018	.0004	0123	6.68	.556		
.205	2.89	(60.30)	.01	4.35	1.1115	.1341	.2098	0010	.0012	0117	8.29	.604		
• 504	2.88	(60.09)	.02	6.33	1.3331	.1524	.1550	0024	.0008	0118	8.75	.649		
•204	2.88	(60.07)	.02	8.37	1.5761	.1742	.0912	0018	.0010	0125	9.05	-685		
.204	2.88	(60.06)	_04	10.50	1.8080	.2013	.0401	0042	.0000	0129	8.98	.684		
.205	2.89	(60.27)	.04	12.49	2.0103	.2318	.0135	0044	0002	0113	8.67	-685		
.204	2.88	(60.17)	.05	14.53	2.1851	.2694	0133	0029	.0015	0188	8.11	-685		
.205	2.89	(60.27)	.02	16.52	2.2381	.3300	1647	.0096	.0026	0336	6.78	.685		
.205	2.88	(60.25)	.04	18,50	2.3353	.3765	2179	.0064	0012	0246	6.20	.685		
.205	2.89	(60.35)	•11	20.55	2.3520	.4567	3138	0069	0064	0098	5.15	.685		
.205	2.90	(60.55)	.11	22.54	2.4464	.5247	3177	0037	0051	0161	4.66	.684		

RUN N	UMBER	36	LONGI	UDINAL STAB	TEST NUM	TEST NUMBER 198						
MACH	0.KP	A (PSF)	BETA, DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.206	5.95	(60.96)	01	-4.04	2238	.2345	.7810	.0002	.0001	0089	95	.420
•206	2,92	(60.92)	00	-1.98	.0963	.1962	.7057	.0051	.0008	007B	.49	.464
.206	2.91	(60.80)	00	.12	.4633	.1724	.6105	.0002	.0003	0092	2.69	.509
.205	2.90	(60.57)	.00	2.17	.7427	.1623	.5688	.0002	.0001	0064	4.58	.554
.205	2.89	(60+45)	.01	4.27	.9979	.1606	.5392	.0004	.0010	0093	6.21	.601
.205	2,90	(60.51)	.01	6.32	1.2141	.1679	.5075	0008	.0009	0125	7.23	.647
.205	2.89	(60+41)	•02	8.36	1.4582	.1763	.432R	0024	.0004	0115	8.27	.685
.205	2.89	(60.39)	.03	10.44	1.6940	.1983	.3803	0029	.0002	0110	8.54	.684
.205	2.89	(60.36)	.04	12.49	1,9041	.2267	.3459	0036	.0004	0136	8.40	.684
.205	2.88	(60.09)	.05	14.52	2.0774	.2627	.3169	0044	.0004	0167	7.91	.685
.205	2.89	(60.37)	.02	16.53	2.1474	.3203	.1205	.0077	.0036	0366	6.70	.684
.205	2.89	(60.36)	.04	18.54	2.2594	.3608	.0526	.0043	0010	0246	6.26	.685
.205	2.90	(60.54)	.07	20.58	2.2929	.4420	0773	0024	0029	0067	5.19	.685
.205	2.90	(60.57)	.09	22,54	2,3744	.5072	0715	0037	0050	0136	4.68	.685
RUN N	HABER	37	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
MACH	Q.KP/	(PSF)	RETADEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.205	2.89	(60.34)	01	-4.01	0748	.1519	.3300	0002	.0009	0132	49	.423
.205	2.90	(60.57)	00	-1.90	.2820	.1227	.2115	.0047	.0011	0102	2.30	.468
.205	5.90	(60.47)	.00	.19	.6413	.1144	.0883	0004	.0009	0126	5.61	.513
.205	2.89	(60.39)	.00	2.24	.9267	.1194	.0095	.0007	.0013	0122	7.76	.559
.205	2.88	(60.09)	.01	4.30	1.1917	.1326	0588	0009	.0016	0118	8.99	.605
.205	2.88	(60.20)	.02	6.35	1.4306	.1532	1108	0014	.0015	0151	9.34	.650
.205	2,89	(60.27)	.03	8.44	1.6649	.1785	1667	0031	.0006	0142	9.33	.685
.205	2.89	(60+45)	.03	10.50	1.8904	.2078	2115	0038	.0003	0142	9.10	.685
.205	2.89	(60.27)	.04	12.52	2.0936	.2412	7328	0028	.0013	0173	8.68	.685
.205	2.88	(60.21)	.05	14.59	2.2645	.2814	- 2469	0035	.0009	0170	8.05	.684
.206	2.91	(60.70)	.02	16.56	2.2939	.3435	3863	.0105	.0036	0358	6.68	.684
.205	2.90	(60.61)	.04	18.61	2.3944	.3901	4398	.0056	0004	0284	6.14	.685
.206	2.91	(60.72)	.07	20,56	2.4294	.4705	5093	0005	0018	0098	5.16	.685
.205	5.90	(60.50)	.07	22.62	2.5103	,5461	5125	0018	0047	0140	4.60	.685
PUN N	IMBER	38	LONGI	TUDINAL STAR	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
-------	---------	---------	-----------	--------------	------------	-----------	-----------	-----------	----------	----------	---------	------
MACH	Q.KPA	(PSF)	RFTA,DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.204	2,86	(59.77)	01	-3.98	.0269	.1440	.0392	0019	.0013	0158	.19	.424
.205	2.89	(60.34)	00	-1.89	.3891	.1177	0823	.0030	.0012	0105	3.31	.469
.205	2.88	(60-19)	00	.18	.7343	.1130	1971	0001	.0010	0115	6.50	.515
.205	2.88	(60.23)	.00	2.25	1.0247	.1207	2756	0007	.0008	0111	8.49	.560
.205	2.89	(60-35)	.01	4.32	1.2735	.1385	3363	0021	.0012	0117	9.19	.606
.205	2.88	(60.22)	.02	6.41	1,5266	.1613	- 3901	0033	.0010	0148	9.46	.653
.205	2.89	(60+42)	.02	8.47	1.7553	.1894	4473	0033	.0006	0128	9.27	.684
.205	2.88	(60.24)	.03	10,51	1.9743	.2220	4917	0042	.0003	0132	8,89	.685
.205	2.88	(60.24)	.04	12.52	2.1719	.2583	-,5097	0040	.0004	0147	8.41	.684
.205	2.89	(60+41)	.04	14.59	2.3406	.3009	-,5160	0029	.0010	0167	7.78	.684
.205	2.89	(60.28)	.03	16.57	2.3615	.3657	6299	.0106	.0038	0402	6.46	.684
.205	2.90	(60+46)	04	18,59	2.4529	.4128	6489	.0061	0001	0295	5.94	.684
.206	2,91	(60.74)	.09	20.58	2.4530	.5058	7034	0078	0076	0078	4.85	.684
.2.05	2.90	(60.58)	.07	22.61	2.5673	.5826	-,7429	0014	0028	0153	4.41	.684
RUN N	UMBER 3	39	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q.KPA	(PSF)	RETA, DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.206	2.91	(60.79)	01	-3.97	.1226	.1415	-,2630	0021	.0010	0133	.87	.426
.205	2,90	(60.61)	00	-1.88	.4593	.1212	-,3822	.0048	.0021	0147	3.79	.472
.205	2.89	(60+43)	00	.21	.8161	.1191	5041	.0004	.0010	0117	6,85	.517
.205	2.89	(60+44)	.00	2.31	1.1217	.1300	5933	.0001	.0014	0119	8.63	.563
.205	2.89	(60.34)	.01	4.38	1.3707	.1517	6553	0015	.0016	0122	9.04	.609
.205	2.89	(60.32)	.01	6.39	1.5909	.1789	7049	0031	.0009	0136	8.89	•654
.205	2,89	(60.31)	.02	8,48	1,8415	.2085	- 7598	0023	.0009	0135	8,83	.684
.205	2.88 ((60.20)	.03	10,54	2.0430	.2440	7927	0033	.0006	0138	8,37	.679
.205	2.89	(60.36)	.03	12.55	2.2513	,2806	-,8068	0017	.0015	0166	8.02	.685
.205	2.89	(60.38)	.04	14.57	2.3972	,3262	8029	0013	.0055	0213	7.35	.684
.205	2.89	(60.46)	.03	16.59	2.4374	.3924	8509	.0099	.0061	0416	6.21	•683
.205	2.89	(60+44)	.04	18,58	2.5035	.4445	8589	.0048	.0010	0322	5.63	.684
.204	2.87	60.03)	.09	20.65	2.5092	.5523	9273	0071	~.0072	0096	4,54	.684
.206	2.92	(61+01)	.08	22,59	2.6113	.6278	9576	.0008	0019	0187	4.16	.684

	UMBER 40)	LONGII	UDINAL STAR	ILITY-AXIS	AND LAT	FERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q.KPA ((PSF)	BETA, DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	٤/0	H/B
.206	2.91 (6	50.68)	-,01	-3.93	.2319	.1489	-,5866	0017	.0004	0125	1.56	.429
205	2.90 (6	50.51)	00	-1.80	.5890	.1319	7087	.0002	.0007	0104	4.47	.475
.205	2.89 (6	50.26)	00	.23	.9500	.1330	8321	0030	.0010	0119	7.14	.519
.205	2.89 (6	50.27)	.00	2.32	1.2459	.1473	9176	0014	.0007	0093	8.46	,565
.205	2.88 (6	50.16)	.01	4.38	1.4796	.1723	-,9757	0028	.0015	0139	8.59	.611
.205	2.89 (6	50.29)	.01	6.44	1.7157	.2005	-1.0168	0032	.0007	0121	8,56	.656
.205	2.90 (6	0.64)	.02	8,52	1.9274	.2367	-1.0549	0042	0006	0093	8.14	.684
-205	2.88 (6	0.19)	.03	10.54	2.1492	.2678	-1.0733	0034	.0012	+.0165	8,02	.685
205	2.90 (6	0.471	.03	12,62	2.3309	.3163	-1.0780	0029	.0012	0169	7.37	.684
.205	2.90 (6	0.491	.04	14.64	2.4808	.3654	-1.0612	0027	.0025	0208	6,79	.684
.205	2.88 (6	0.211	.03	16.68	2.5013	.4348	-1.0462	.0088	.0062	0402	5.75	.677
205	2.89 (6	0.28)	.05	18,57	2.5357	4925	-1.0343	.0019	0008	0261	5.15	.685
-205	2.90 (6	0.53)	.07	20.58	2.5612	5908	-1,1269	.0003	~.0010	0113	4.34	.684
.206	2.91 (6	0.72)	.08	22.62	2.6487	6795	-1.1407	.0005	0014	0165	3.90	.685
RLIN N	UMBER 42		LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
MACH	Q, KPA (PSF)	RETA.DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
- 201	2.77 (5	7.95)	.00	.21	.7940	.1034	2120	.0009	.0009	.0073	7.68	.019
.201	2.77 (5	7.86)	.00	.22	.7998	.1031	2159	0001	.0002	.0083	7.76	.023
-201	2.77 (5	7.81)	.00	.21	,7806	.1066	2067	0014	.0008	.0042	7.32	.074
201	2.78 (5	8.02)	00	.19	.7560	.1093	-,1983	0023	.0017	0038	6,92	.123
201	2.77 15	7.89)	00	.18	.7398	.1106	1909	0009	.0014	0064	6.69	.172
200	2.76 (5	7.741	00	.18	.7456	.1107	1904	.0013	.0009	0045	6.74	.225
-201	2.78 (5)	8.091	00	.18	.7349	.1118	1870	0017	.0006	0088	6.57	.321
201	2.77 15	7.88)	00	.18	.7346	.1119	1862	0006	.0010	0110	6.57	.422
.201	2.77 (5	7 85)	00	.17	.7155	.1131	1817	0018	.0009	0103	6.33	.515

_

RUN N	UMBER	43	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DATA		TEST NUP	BER 198	
масн	0,KP	A (PSF)	RFTA.DEG	ALPHA, DFG	CL	CD	СРМ	CRM	CYM	CSF	L/D	HZB
.201	2.78	(58.00)	.00	2.30	1.1048	.1060	3180	.0029	.0004	.0102	10.42	.019
.201	2.78	(58.04)	.00	2.30	1.1008	.1063	3144	.0010	.0003	.0105	10.35	.022
.201	2.77	(57.81)	.00	2.28	1.0745	.1117	2989	.0015	.0008	.0073	9.62	.073
.200	2.76	(57.71)	.00	2.26	1.0458	.1145	2872	0022	.0007	0021	9.14	.122
.201	2.77	(57.83)	.00	2.26	1.0322	.1165	2778	0016	.0009	0048	8.86	.171
.201	2.77	(57.89)	.00	2.26	1.0220	.1179	2724	-0002	.0009	0058	8-67	222
.200	2.76	(57.72)	.00	2.25	1.0124	.1192	2641	0038	.0006	0116	8.49	.321
.201	2.77	(57.89)	.00	2.27	1.0109	1200	2614	0024	-0008	0098	8.43	. 420
•201	2.77	(57.84)	.00	2.27	1.0113	.1200	-,2643	0021	.0011	0105	8.43	.561
RUN N	UMBER	44	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DATA	i i	TEST NUP	BER 198	
масн	0.KP	(PSF)	RETA, DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.200	2.76	(57.72)	.01	4.33	1.3239	.1251	3779	0010	.0006	.0036	10.58	.071
.200	2.77	(57.79)	.01	4.32	1.2958	.1297	3570	0005	.0005	-0008	9,99	.119
.201	2.77	(57.82)	.01	4.33	1.2948	.1310	3496	.0001	.0013		9.88	.169
.200	2.76	(57+61)	.01	4.31	1.2738	.1332	3378	0030	.0004	0080	9.57	.221
.201	2.78	(58.14)	.01	4.33	1.2670	.1351	3290	0019	.0008	0090	9.38	318
.201	2.78	(58.05)	.01	4.33	1.2579	.1368	3226	0050	.0003	0128	9.20	.418
.201	2.77	(57.92)	.01	4.35	1.2775	.1366	3300	0039	.0014	0139	9.35	.604

RUN	NUMBER	47	LONGIT	UNINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0+KP/	(PSF)	BFTA.DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
.202	2.80	(58.53)	.01	6.38	1,5389	.1509	4217	0011	.0002	.0020	10.20	.118
.203	2.84	(59.26)	.02	6.39	1.5296	.1527	4037	0040	.0006	0054	10.02	.168
.204	2.85	(59.55)	.01	6.38	1.5145	.1551	3956	0030	.0006	0082	9.76	.218
.203	2.84	(59.23)	.02	6.38	1.4931	.1584	3801	0038	.0003	0104	9.43	.317
.204	2.87	(59.86)	.02	6.40	1.4954	.1599	3745	0052	0001	0109	9.36	.419
.204	2.87	(59.94)	.02	6.42	1.5145	.1599	-,3790	0044	.0007	0107	9.47	.602

RUN NI	UMBER 48	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY-	AXIS DAT	A	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	BETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.210	3.02 (63.14)	-10.05	-3.99	.0746	.1135	1037	.0089	0303	.2397	- 66	- 425
.205	2.90 (60.54)	-10.05	-1.88	.4059	.0939	2183	.0147	0282	.2213	4.32	471
.205	2.90 (60.54)	-10.05	.20	.7302	.0867	3064	.0255	0263	.2162	8.42	-517
.205	2.90 (60.50)	-10.06	2.29	1.0169	.0974	3544	.0300	0230	1995	10.44	-562
.205	2.89 (60.41)	-10.07	4.35	1.2797	.1136	4127	.0337	0208	1956	11.27	608
.205	2.88 (60.18)	-10.07	6.41	1.5168	.1387	4724	.0360	0208	1969	10.94	-654
.205	2.89 (60.31)	-10.09	8.42	1.7509	.1672	5242	.0380	0207	1991	10.47	-685
.205	2.87 (60.04)	-10.10	10.52	1.9938	.2012	5747	.0416	0194	.1991	9.91	.685
.206	2.90 (60.57)	-10.11	12.52	2.1913	.2381	6039	.0461	0177	1949	9.20	.685
.205	2.89 (60.32)	-10.13	14.61	2.3575	.2793	6093	.0492	0176	1980	8.44	.685
.205	2.89 (60.43)	-10.21	16.62	2.4405	.3274	5718	.0625	0132	2007	7.45	.685
.205	2.90 (60.50)	-10.24	18.54	2.4542	.3870	5255	.0564	0170	.2034	6.34	.685
.206	2.90 (60.58)	-10.25	20.58	2.4260	4695	5004	.0506	0231	2052	5.17	.684
•206	2.90 (60.59)	-10.27	22.56	2.5041	.5366	5217	.0561	0217	.2059	4.67	.684

RUN N	UMRER 49	LONGI	TUDINAL STAP	BILITY-AXIS	5 AND LAT	ERAL BODY	-AXIS DAT	Γ Α	TEST NUM	BER 198	
масн	Q.KPA (PSF)	PETA.DEG	ALPHA, DEG	٢L	CD	СРМ	CRM	CYM	CSF	L/D	H/8
.205	2.89 (60.32)	-4.95	-3.96	.0521	.1353	0100	.0054	0162	.1258	.38	.425
.205	2.88 (60.23)	-4.96	-1.87	3867	.1101	1006	.0045	0133	.1107	3.51	.471
.205	2.89 (60.37)	-4.97	.19	.7341	.1054	2150	.0128	0117	.1065	6.97	-516
.205	2.88 (60.17)	-4.98	2.25	1.0096	.1135	-,2921	.0147	0104	.1035	8.90	561
.205	2.89 (61.32)	-5.00	4.38	1.2692	.1303	-,3629	.0152	0089	.0973	9.74	.608
•205	2.88 (60.23)	-5,01	6.42	1.5091	.1532	4172	.0163	0083	0935	9.85	.654
.205	2.89 (60.42)	-5.02	8.52	1.7504	.1827	4708	.0161	0100	.0971	9.58	.685
.205	2.89 (60.35)	-5.03	10.52	1.9718	.2147	5159	.0178	0100	.0978	9.18	-684
.205	2.89 (60.30)	-5.04	12.57	2,1822	.2504	5476	.0211	0094	.0975	8.71	.684
.206	2.91 (60.78)	-5.06	14,60	2.3099	.2929	5357	.0256	0086	.0951	7.89	- 685
.205	2.88 (60.18)	-5.08	16.60	2.4250	.3343	5197	.0309	0069	.0927	7.25	.685
.205	2.89 (60.44)	-5.12	18.62	2.4795	.3871	5067	.0405	0049	.0942	6.41	.685
.205	2.90 (60.51)	-5.12	20.57	2,5525	.4690	5558	.0407	0102	.0803	5.44	-684
•206	2.91 (60.76)	-5.18	22.61	2.6091	.5421	-,5788	.0555	0028	.0775	4.81	.684
RUN N	UMBER 50	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q, KPA (PSF)	PFTA.DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	٤/D	HZB
.205	2.89 (60.40)	.01	-3.96	.0277	.1419	.0447	0012	.0004	0015	-20	.425
.205	2.89 (60.28)	.01	-1.90	.3681	.1189	0749	0010	.0015	0032	3.10	469
.205	2.89 (60.32)	.00	.16	.7086	.1123	1857	0020	.0009	0015	6.31	-514
.205	2.90 (60.50)	01	2.24	.9975	.1198	2663	0026	.0010	0014	8.32	-560
.205	2.89 (60.38)	01	4.37	1.2749	.1360	-,3347	0036	.0016	0010	9.38	.607
.205	2.89 (60.31)	01	6.41	1.5069	.1587	3864	0061	.0012	0049	9.49	.653
.205	2.89 (60.26)	01	8.42	1.7337	.1848	4379	0050	.0011	0058	9.38	-684
.205	2.89 (60.45)	01	10.52	1.9550	.2179	-,4788	0045	.0013	0054	8.97	-684
.205	2.89 (60.36)	01	12.50	2.1469	.2542	4912	0042	.0012	0052	8.44	685
.205	2.88 (60.25)	01	14,53	2.2899	.2991	4985	0036	.0026	0098	7.66	.685
.205	2.88 (60.14)	.03	16.44	2.2814	.3480	5714	0067	.0005	0004	6.56	-684
.205	2.90 (60.47)	.05	18.58	2.3418	.4251	6436	.0015	.0072	.0017	5.51	-684
.205	2.88 (60.25)	.08	20.55	2.4128	.5027	6881	0018	0003	0079	4.80	-684
											+00+

PUN N	NUMBER 51	LONGI	TUDINAL STAR	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUP	IRER 198	
масн	D.KPA (PSF)	RETAODEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.205	2.88 (60.25)	5.01	-3.97	.0533	.1336	0039	0033	.0181	1390	.40	.425
.205	2.90 (60.49)	5.01	-1.87	.4112	.1108	1211	0081	.0152	-,1183	3.71	.470
•206	2.90 (60.53)	5.02	.17	.7137	.1055	2181	0169	0129	1145	6.77	.516
.205	2.89 (60.28)	5.03	2.28	1.0111	.1133	2966	0211	.0110	1064	8.92	.563
•205	2.88 (60.21)	5.04	4.32	1.2552	.1289	-,3650	0237	.0105	1037	9.74	.607
•205	2.88 (60.17)	5.06	6,36	1.4829	.1523	4325	0251	.0108	1066	9.73	.654
•205	2.89 (60.46)	5.08	8.42	1.7122	.180A	4910	0288	.0104	1091	9.47	.684
.205	2.89 (60.39)	5,10	10.49	1.9187	.2132	5303	0323	.0103	1115	9.00	.684
.205	2.88 (60.23)	5.14	12.49	2.0193	.2593	5613	0455	.0063	0988	7.79	.684
.205	2,88 (60,18)	5.19	14.57	2.1681	.3096	5913	0466	.0074	1019	7.00	.685
.205	2.89 (60.27)	5.21	16.56	2.2626	.3660	6321	0351	.0153	1156	6.18	-685
.205	2.90 (60.47)	5.21	18,52	2.3422	.4222	6695	0243	.0215	1168	5.55	.684
.206	2.90 (60.59)	5.25	20.57	2.4491	.5041	7545	-,0303	.0088	1076	4.86	.685
PUN N	UMBER 52	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	BFTA+DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.205	2.89 (60.29)	03	-4.00	0136	.1504	.0903	0150	0010	0174	09	• 425
.205	2.89 (60.35)	05	-1.91	.3346	.1269	0229	0183	0003	0205	2.64	.470
.205	2.89 (60.43)	.00	.18	.6861	.1202	1396	0198	0019	0162	5.71	.515
.205	2.89 (60.43)	.02	2.28	.9626	.1280	2137	0209	0025	0161	7.52	.562
•205	2.89 (60.38)	.04	4.32	1.2272	.1433	-,2806	0225	0029	0155	8.56	.607
.205	2.88 (60.15)	.06	6.39	1.4672	.1651	3342	0229	0032	0161	8.89	.653
.205	2.89 (60.29)	•08	8.44	1.6846	.1906	3968	0246	0044	0129	8.84	.684
.205	2.88 (60.25)	.11	10.46	1.8556	.2241	4777	0291	0065	0057	8.28	.685
.206	2.90 (60.51)	.14	12.48	1.9899	.2631	5154	-,0370	0104	.0057	7.56	.685
.205	2.89 (60.34)	•17	14.52	2.1025	.3106	5534	0384	0105	.0075	6.77	.684
.205	2.89 (60.42)	.17	16.51	2.1268	.3784	6390	0245	0081	0063	5.62	.685
.205	2.89 (60.28)	.17	18.53	2.2615	.4425	6702	0192	0054	0071	5.11	.684
.506	2.91 (60.77)	.17	20.60	2.4069	.5057	7000	0100	0041	0116	4.76	.683
.206	2.90 (60.52)	•17	22.66	2.5271	•5777	7335	0033	0006	0216	4.37	.684

. .

RUN N	UMBER	53	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	AXIS DAT	A	TEST NUM	BER 198	
масн	0,KP#	(PSF)	PETAODEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
•205	2.89	(60.31)	03	-3.98	0011	.1479	.0743	0106	.0007	0189	01	.425
.205	2.88	(60.24)	01	-1,90	.3438	.1239	0426	0068	.0007	0162	2.77	.470
.205	2.89	(60.35)	.00	•18	.6929	.1170	1532	0116	0001	0164	5,92	.515
.205	2.88	(60.12)	.02	2.26	.9881	.1241	2347	0128	0008	0139	7.96	.561
.205	2.89	(60.28)	.03	4.31	1.2339	.1409	2973	0145	0007	0136	8.76	.606
.205	2.88	(60+17)	.05	6.40	1.4805	.1627	3545	0148	0009	0150	9.10	.653
.205	2.89	(60.28)	.07	8.43	1.6894	.1898	4097	0174	0026	0114	8.90	.684
.205	2.89	(60.26)	.09	10.41	1.8442	.2221	4985	0218	0043	0029	8.30	.685
.206	2,90	(60+48)	.13	12,43	1.9504	.2669	-,5470	0326	0086	.0104	7.31	685
.205	2.89	(60.28)	.15	14.52	2.0973	.3133	-,5850	0318	0078	.0088	6.70	.684
.205	2.89	(60.29)	.15	16.58	2.1467	.3840	6644	0177	0048	-,0067	5,59	.684
.205	2.89	(60+42)	.15	18,50	2.3004	.4417	7006	0093	0026	0106	5.21	.685
.205	2.89	(60.39)	.14	20.54	2.4359	.5010	7228	.0003	.0001	0163	4.86	.684
.206	2.90	(60.51)	.15	22,58	2.5178	.5850	7627	0015	.0006	0169	4.30	.684
RUN N	UMRER	54	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	AXIS DAT	A	TEST NUM	BER 198	
масн	Q,KPA	(PSF)	RETA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H78
.205	2.89	(60+41)	03	-3,98	.0053	.1462	.0654	0077	.0011	0219	.04	.425
.205	2.89	(60.26)	01	-1.88	•3784	.1208	0657	0028	.0017	+.0161	3,13	.470
.205	2.89	(60.29)	.00	•23	.7236	.1145	1751	0061	.0006	0144	6.32	.516
.205	2.89	(60+45)	.01	2.25	.9906	.1230	2501	0069	.0002	0116	8.05	.561
.205	2.89	(60.28)	.03	4.36	1.2637	.1388	3185	0076	.0008	0132	9.11	.607
.205	2.89	(60.36)	.04	6.37	1.4719	.1633	3675	0102	0002	0137	9.01	.652
.205	2.89	(60.35)	.06	8.50	1.7088	.1891	4389	0118	0010	0095	9.04	.684
.205	2.89	(60+44)	.08	10.49	1.8834	.2240	5146	0152	0025	0055	8.41	.685
.205	2.89	(60.33)	.10	12.49	2.0451	.2616	-,5500	0171	0031	0014	7.82	.685
.205	2.88	(60.19)	.12	14.53	2.1582	.3054	5779	0190	0036	.0007	7.07	.685
.205	2,88	(60.25)	.14	16.50	2.1429	.3772	6824	0133	0043	0056	5.68	.684
.206	2.90	(60.55)	.14	18.52	2.3047	.4387	7115	0063	0019	0065	5,25	.685
.205	2.89	(60+40)	.13	20.62	2.4334	.5055	7294	.0030	.0025	0095	4.81	.685
.205	2.89	(60+43)	.12	22.59	2.5292	.5805	7492	.0050	.0033	0110	4.36	.684

RUN N	UMBER	55	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q, KP/	(PSF)	RFTA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	ĊSF	L/D	нив
.206	2.91	(60.88)	02	-3.98	.0110	.1464	.0473	0007	.0010	0146	.08	.425
.205	2.89	(60.34)	01	-1,91	.3850	.1197	0820	.0031	.0018	0128	3.22	.469
.205	2.88	(60.16)	00	.15	•7242	.1136	1921	.0030	.0009	0089	6,38	.514
.205	2.89	(60.33)	.01	2.34	1.0282	.1217	-,2789	.0027	.0012	0082	8.45	.562
.205	2.88	(60.19)	.02	4.36	1.2781	.1363	3423	.0005	.0013	0086	9.24	.607
.205	2.88	(60+22)	.03	6.41	1.5129	.1615	3973	0005	.0010	0098	9.37	.653
.205	2.89	(60.33)	.04	8.43	1.7204	.1869	4627	0021	0001	0049	9.11	.684
.205	2.89	(60.31)	.06	10.51	1.9277	·2218	5150	0038	0005	0040	8.69	.683
.205	2.89	(60+41)	.08	12.52	2.0506	.2627	-,5785	0098	0025	.0053	7.81	.685
.205	2.88	(60.21)	.11	14.61	2.1690	.3104	6052	0141	0035	.0060	6.99	.684
.205	2.89	(60.38)	.12	16.50	2.2128	.3665	6612	0097	0026	.0070	6.04	.685
.205	2.89	(60+45)	.10	18.58	2.3245	.4434	7411	.0025	.0022	0076	5.24	.685
.206	2.90	(60+48)	.12	20460	2.4248	.5111	7403	0005	0035	0061	4.74	.685
•206	2.91	(60+75)	.12	22.60	2.5325	•5849	7811	.0045	.0009	0156	4.33	.685
RUN N	UMBER	56	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0.KP/	(PSF)	BETA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.205	2.89	(60.38)	01	-3.97	.0409	.1427	.0370	.0037	.0012	0141	.29	.425
.205	2.89	(60.39)	01	-1.89	.3933	.1186	0915	.0077	.0015	0080	3.31	.469
.205	2,89	(60.33)	00	.17	.7459	.1135	2086	.0075	.0008	0071	6.57	.514
.205	2.88	(60.19)	.01	2.32	1.0418	.1218	- 2938	.0086	.0011	0039	8.56	.561
.205	2.88	(60.21)	.01	4.33	1.2870	.1387	3562	.0072	.0017	0072	9,28	.606
.205	2.89	(60.33)	.02	6.40	1.5209	.1632	4081	.0051	•0008	0054	9,32	.652
.205	5.89	(60•46)	.03	8.44	1.7287	.1906	4691	.0033	.0001	0037	9.07	.691
.205	2.89	(60.31)	.05	10.54	1.8886	.2286	5706	0045	0024	.0063	8.26	.684
.205	2,89	(60.36)	.06	12.51	2.0363	.2665	5977	0087	0042	.0117	7.64	.685
.205	2.89	(60.30)	•08	14.51	2.1521	.3118	6256	0088	0029	.0083	6.90	.684
.205	2.89	(60.38)	.09	16,51	2.1775	.3824	-,7189	0018	0030	0035	5.69	.685
.205	2.89	(60.30)	.07	18,56	2.3345	.4447	7447	.0073	.0016	0070	5,25	.684
.205	2.89	(60.37)	.10	20.62	2.4232	.5183	7603	.0019	0043	0061	4.68	.686
.205	2.89	(69.40)	.09	22.63	2.5406	.5907	7840	.0091	.0003	0112	4.30	.685

ļ

RUN N	UMAER	57	LONGI	UNINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	Α	TEST NUM	BER 198	
масн	Q,KPA	(PSF)	RETA,DEG	ALPHA,DFG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.206	2.90	(60.53)	01	-3.97	.0458	.1421	.0314	.0026	.0007	0120	.32	.425
.206	2,90	(60.54)	00	-1.90	.3922	.1198	0966	.0101	.0014	0078	3.27	469
,205	2.89	(60.44)	00	. 19	.7544	.1149	2235	.0078	.0001	0053	6.57	-515
.205	2.88	(60.25)	.00	2.30	1.0529	.1226	3056	.0105	.0007	0020	8.59	.561
.205	2.88	(60.08)	.01	4.35	1.3125	.1399	3705	.0087	.0012	0032	9.38	-606
.205	2.88	(60.19)	.01	6.38	1.5354	.1640	4240	.0066	.0003	0031	9.37	-652
.205	2.89	(60.31)	.02	8.51	1.7501	.1936	4965	.0029	0011	.0010	9.04	685
.205	2.88	(60.25)	.03	10.47	1.9294	.2272	- 5590	0003	0018	.0046	8.49	-685
.205	2.89	(60.43)	.05	12.54	2.0906	.2665	- 5824	0065	0042	.0128	7.85	-685
.205	2.89	(60.26)	.09	14.54	2.1968	.3156	6019	0115	0051	.0132	6.96	.685
.205	2.89	(60.29)	.11	16.52	2.2720	.3727	6324	0071	0036	.0159	6.10	-685
.205	2.89	(60.33)	.06	18.54	2.3733	.4368	6573	.0086	.0052	.0136	5.43	.684
.206	2.90	(60.53)	.05	20.63	2.4980	.4981	- 6585	.0127	.0082	.0147	5.01	.685
.206	2.90	(60.51)	.01	22.56	2.5765	.5666	-,7527	.0175	.0123	.0004	4,55	.684
RUN N	IMBER S	58	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q.KPA	(PSF)	RETA.DEG	ALPHA.DEG	CL	ĊD	CPM	CRM	CYM	CSF	L/D	H/8
.205	2.89 ((60.44)	00	-3.99	.0205	.1441	.0420	.0004	0001	0107	-14	. 4 7 4
.205	2.88 ((60.20)	.00	-1.89	.4060	.1198	1049	.0107	.0004	0069	3.39	469
.205	2.88 ((60.25)	00	•24	.7931	.1140	2361	.0107	0005	0053	6.96	.516
.205	2.88 ((60-14)	00	2,32	1.0508	.1246	-,3107	.0118	0000	0035	8.44	.562
.205	2,88 ((60.05)	00	4.36	1.3210	.1405	3752	.0073	0003	0043	9.40	-606
.205	2.87 ((60.01)	00	6.40	1.5574	.1643	4299	.0074	0003	0032	9.48	.652
.205	2.87 ((59.97)	.01	8,43	1.7394	.1952	5054	.0021	0019	0021	8.91	.685
.204	2.86 ((59.77)	.02	10.46	1.9429	.2280	5682	0024	0037	.0045	8.52	.685
.205	2,88 (60.19)	.04	12,56	2.1074	.2693	5900	0077	0053	.0098	7.83	.685
.205	2,88 (60.06)	.08	14.65	2.2330	.3165	-,6039	0137	0078	.0151	7.06	.685
.205	2,88 (60.15)	.10	16.55	2.3377	.3695	6331	0158	0105	.0208	6.33	685
.205	2.87 (59.94)	07	18,56	2.4267	.4284	6468	.0003	0022	.0151	5.66	.685
.205	2.88 (60.25)	.07	20.61	2.4958	.5052	7566	.0041	0028	.0004	4.94	.685
.206	2.90 (60.54)	.06	22.65	2.6269	.5840	7862	.0097	.0023	0085	4.50	.685

PUN N	INMRER 59	LONGI	TUDINAL STAP	ILITY-AXIS	AND LAT	FRAL BODY	-AXIS DAT	A	TEST NUP	BER 198	
масн	Q, KPA (PSF)	RETA, DEG	ALPHA,DEG	CL	ĊD	CPM	CRM	CYM	CSF	L/D	H/B
.205	2.89 (60.35	00	-3,97	•0017	.1490	.0751	.0151	.0020	0027	.01	.425
•504	2.90 (60.47) .00	-1.86	.3736	.1272	0617	.0263	.0031	0010	2.94	.470
•205	2.89 (60.29)00	•21	•7184	•1553	-,1689	.0311	.0024	.0019	5.88	515
•205	2.88 (60.16)01	2.24	.9929	.1301	2417	.0327	.0029	.0061	7.63	.560
.205	2.90 (60.59)01	4.31	1.2405	.1475	3033	.0301	.0038	.0020	8.41	.606
•504	2.90 (60.61)01	6.36	1.4805	.1690	3567	.0285	.0039	.0017	8.76	.652
•206	2.90 (60.55)	05	8.44	1.6891	.1990	4245	.0267	.0039	.0041	8.49	.684
.206	2.90 (60.54))01	10.47	1.8901	.2326	4871	.0229	.0033	.0055	8.13	.684
.205	2.89 (60.44)	01	12.51	2.0680	.2705	5180	.0182	.0017	.0124	7.64	.684
.205	2.89 (60.45)	.01	14.59	5.5001	.3160	5330	.0104	0014	.0181	6.96	-684
.206	2.90 (60.58)	.03	16,56	2.2977	.3717	5836	.0019	0054	.0300	6.18	-684
.206	2.90 (60.48)	.02	18,59	2.4274	.4319	6102	.0073	0009	.0205	5.62	-685
.205	2.89 (60.33)	.00	20,58	2.4886	.5075	70A4	.0173	.0016	.0019	4.90	.685
.205	2.88 (60.24)	.00	22,59	2.6140	.5800	7370	.0189	.0038	0029	4.51	.684
RUN N	UMBER 60	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
MACH	D,KPA (PSF)	PETA, DEG	ALPHA.DEG	CL	ĊD	CPM	CRM	CYM	CSF	L/D	H/8
.205	2.88 (60.17)	.00	-4.00	.0126	.1467	.0585	.0110	.0012	0088	.09	. 425
.205	2.88 (60.08)	.00	-1.92	.3757	.1224	0714	.0190	.0017	0031	3.07	.469
.205	2.88 (60.23)	00	.21	.7099	.1190	1769	.0194	.0005	0003	5.97	-516
.205	2.88 (60.21)	00	2,28	.9928	.1266	2500	.0195	.0006	.0021	7.84	-562
.205	2.88 (60.10)	01	4,30	1.2416	-1428	3115	.0183	.0012	.0020	8.70	-606
.205	2.88 (60.14)	01	6.44	1.4924	.1652	-,3663	.0171	.0014	.0003	9.04	-654
.205	2.87 (60.01)	01	8.46	1.7087	.1910	4332	.0148	.0002	.0046	8.95	685
.205	2.88 (60.10)	.00	10.48	1.8555	.2290	- 5229	.0039	0032	.0128	8.10	-684
.205	2.88 (60.13)	.02	12.51	2.0187	.2688	5434	0003	0044	.0155	7.51	-684
.205	2.88 (60.14)	.04	14.54	2.1495	.3193	5734	0087	0080	.0269	6.73	- 685
.205	2.87 (60.05)	.05	16.57	2.3126	.3696	5845	0089	0066	.0210	6.26	.685
.204	2.86 (59.78)	.05	18,59	2.4354	.4276	6264	0040	0036	.0177	5.70	-684
.204	2.86 (59.81)	.01	20.59	2.4848	.4952	-,6910	.0138	.0024	0006	5.02	.685
.204	2.86 (59.72)	.01	22.62	2.6060	.5724	7415	.0168	.0035	0083	4.55	.684

RUN N	IMBER	61	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	0,KP4	(PSF)	BFTA,DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	HZR
.205	2.88	(60.15)	.00	-3,96	.0282	.1443	.0460	.0067	.0012	0128	.20	.425
.206	2.90	(60.53)	.00	-1.84	.3889	.1198	0848	.0122	.0009	0046	3.25	.471
.205	2.89	(60.46)	00	•53	.7494	.1138	1974	.0140	.0008	0031	6.58	.516
.205	2.89	(60+42)	00	2.24	1.0076	.1229	2709	.0134	.0006	0005	8.20	.561
.205	2.88	(60.25)	01	4.36	1.2872	.1401	3403	.0136	.0015	0025	9.19	.607
.205	5.99	(60.18)	01	6.38	1.5172	.1620	3928	.0128	.0016	0030	9.37	.652
.205	2.87	(60+04)	00	8.43	1.7239	.1906	4663	.0085	.0001	.0004	9.05	.685
.205	2.89	(60.39)	.00	10.48	1.9307	.2231	- 5294	.0060	0007	.0055	8.65	.685
.205	2.89	(60.32)	.02	12.49	2.0750	.2629	5653	0036	0042	.0137	7.89	.685
.205	2.89	(60+44)	.08	14.55	2.1953	.3111	5753	0156	0082	.0160	7.06	.684
.205	2.89	(60.40)	.10	16.58	2.3356	.3625	6056	0174	0097	.0218	6.44	.684
.205	2.89	(60.27)	.10	18.58	2.4585	.4174	6171	0099	0041	.0170	5.89	.685
.205	2.89	(60.40)	.05	20.61	2.5573	.4773	5870	.0047	.0043	.0154	5.36	-684
.206	2.90	(60.52)	.04	22.65	2.6318	.5638	- 7270	.0080	.0070	0013	4.67	.685
RUN N	UMBER	62	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUN	BER 198	
MACH	Q.KPA	(PSF)	BETA.DEG	ALPHA.DEG	ĊL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.117	.96	(20.14)	01	-3.95	.2045	.1339	3215	.0015	.0018	0144	1.53	. 426
•118	.97	(20.18)	00	-1.83	.5387	.1163	3567	.0011	.0015	0119	4.63	.474
.118	.97	(20.22)	.00	.28	.9261	.1110	4194	.0023	.0016	- 0125	8.34	.522
•118	.97	(50.51)	.00	2.29	1.1878	.1256	424A	0002	.0006	0101	9.46	-569
.118	.97	(20.20)	.01	4.38	1.4358	.1427	3962	0019	.0005	0101	10.06	-618
•11A	.97	(50.20)	.02	6.42	1.6444	.1667	3706	0020	.0004	0129	9.86	.665
•117	.97	(20.16)	.03	8.46	1.8406	.1939	3353	0034	0008	0146	9.49	.684
.117	.96	(20.0B)	.03	10.52	2.0469	.2205	2940	0034	0006	0106	9.28	-684
•117	.96	(20.11)	.04	12.52	2.2312	.2518	2492	0022	.0002	0110	8.86	-685
.117	,96	(20.10)	.05	14.56	2.3678	.2903	1957	0050	0016	0114	8.16	.685
.117	.96	(20.06)	.06	16.62	2.4940	.3182	1244	0023	0014	0068	7.84	.684
.117	.96	(20.13)	.07	18.67	2.5546	.3670	0509	0055	0058	0075	6.96	.685
-117	.96	(20.07)	.07	20.59	2,5866	.4187	.0284	.0003	0035	0078	6.18	.685
.117	.96	(50.00)	.06	22.64	2.4953	.5015	.0417	.0129	.0109	0006	4.98	.685

PUN	NUMBER	63	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0,KP	A (PSF)	PETA.DEG	ALPHA,DEG	CL	cn	CPM	CRM	CYM	CSF	L/D	H/B
.167	1.94	(40.44)	01	-3,95	.1961	.1352	3196	0006	.0009	0136	1.45	. 421
.166	1.91	(39.99)	00	-1.88	.5733	.1145	3797	.0057	.0011	0090	5.01	
•166	1.92	(40.02)	00	.24	.9460	.1114	4307	.0015	.0008	0094	8.49	-518
.166	1.91	(39.89)	.00	2.35	1.2103	.1246	4265	0006	.0004	0086	9.72	.565
.166	1.91	(39.96)	.01	4.35	1.4403	.1422	4033	0014	.0004	0089	10-13	.611
.166	1.91	(39.85)	.02	6.47	1.6601	.1660	3751	0029	0004	0074	10.00	-661
.167	1.93	(40.22)	.03	8.45	1.8509	.1908	3403	0036	0008	0090	9.70	-684
.167	1.93	(40.29)	.04	10.58	2.0640	.2192	- 2997	0034	0010	0056	9.42	-685
.167	1.92	(40.17)	.05	12.57	2.2366	.2547	- 2537	0052	0025	0036	8.78	-684
.167	1.92	(40.17)	.06	14.62	2.3880	.2904	1997	006B	0025	0048	8.22	- 684
.166	1.92	(40.07)	.07	16.68	2.4907	.3253	1342	0058	0042	-0015	7.66	- 686
.167	1.93	(40.23)	.09	18.62	2.4952	.3672	- 1028	0138	0063	.0109	6.79	-686
.166	1.92	(40.11)	.11	20.62	2.4809	.4334	0476	0112	0044	.0032	5.72	-685
.166	1.91	(39+96)	.06	22.65	2.4424	.5205	-,0276	.0120	.0080	0081	4.69	.685
PUN	NUMBER	64	LONGIT	UNINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0, KP	(PSF)	BETA+DEG	ALPHA,DEG	C∟	CD	CPM	CRM	CYM	CSF	LZD	H/B
.206	2.90	(60.55)	01	-3.92	.2238	.1326	3285	0004	.0004	0113	1.69	. 427
.205	2.89	(60.35)	00	-1.81	.6160	.1118	4035	.0047	.0012	0094	5-51	. 472
.205	2.89	(60.28)	.00	.29	.9558	.1123	4352	.0000	.0005	0089	8.51	-517
.205	2.89	(60.26)	.00	2.30	1.2277	.1230	4375	.0022	.0011	0071	9.98	.560
.205	2,88	(60.11)	.01	4.40	1.4417	.1429	4072	0014	.0007	0077	10.09	-606
.205	2,88	(60.11)	.02	6.40	1.6431	.1646	3771	0011	.0005	0070	9.98	.650
.205	2.88	(60.25)	.03	8.45	1.8307	.1912	3413	0035	0010	0046	9.58	.684
.205	2.88	(60.22)	.04	10.50	2.0227	.2186	3030	0050	0018	0039	9.25	.685
.205	2.89	(60.30)	.05	12.50	2.1971	.2514	2545	0051	0016	0058	8.74	-685
.205	2.88	(60.22)	.05	14.52	2.2540	.2907	2177	.0008	.0020	0196	7.75	684
.205	5.90	(60.47)	.07	16.58	2.4012	.3208	1442	0039	0027	0073	7.48	685
.205	2.89	(60.26)	.10	18.60	2.4036	.3664	1159	0059	0031	.0026	6.56	-684
.205	2.89	(60.32)	.13	20.61	2.3980	.4370	0990	0091	0075	0053	5.49	684
.205	5.60	(60•47)	.06	22.58	2.4508	.5151	0319	.0074	.0040	0084	4.76	.684

39

_ - - -

	UMBER 65	LONGI	TUDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA, DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.206	2.90 (60.66)	01	-3.96	.1936	.1222	3216	0023	.0019	0183	1.58	.427
.205	2.89 (60.36)	00	-1.82	.6105	.0992	4082	.0062	.0016	0089	6.16	.472
.205	2.89 (60.33)	.00	.27	.9735	.0997	-,4427	.0015	.0008	0094	9.76	•516
.205	2.89 (60.35)	.00	2,28	1.2288	.1126	4433	.0011	.0010	0063	10,91	•559
.205	2.88 (60.18)	.01	4.43	1.4439	.1350	4120	0007	.0009	0085	10.70	.607
.205	2.88 (60.19)	.01	6.42	1,6670	.1552	3737	0007	.0010	0079	10.74	.650
.205	2.90 (60.49)	.02	8.54	1.8767	.1828	3370	0023	.0000	0072	10.26	.685
.205	2.89 (60.46)	.03	10.52	2.0658	.2119	-,2997	~.0045	0010	0054	9.75	,684
.205	2.89 (60.33)	.04	12.54	2.2520	.2467	2544	0062	0021	0042	9.13	.684
.205	2.89 (60.32)	.05	14.61	2.4173	.2833	1950	0085	0030	0016	8,53	,685
.205	2.89 (60.32)	.06	16.70	2,5331	.3191	1311	0061	0037	.0002	7.94	,685
.205	2.89 (60.34)	.07	18.63	2,6396	.3573	0688	0049	0023	.0006	7.39	.684
.205	2.89 (60.36)	.10	20.68	2.5318	,4353	0110	0067	0023	.0078	5.82	.684
.205	2.89 (60.37)	.06	22.55	2,4776	4990	0155	.0109	.0047	0111	4,96	.685
RUN NU	WRER 66	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
MACH	0.KPA (PSF)	RETADEG	ALPHA.DEG	СŁ	CD	CPM	CRM	CYM	CSF	L/D	нив
.205	2.89 (60.42)	01	-4.01	-,1529	.2312	.7618	0025	.0002	0155	-,66	.420
.205	2.89 (60.41)	00	-1.89	.2640	.1888	.6429	.0042	0000	0078	1.40	•464
.205	2.88 (60.18)	.00	•19	.6026	.1727	.5702	.0039	0005	0044	3.49	.509
.205	2.88 (60.16)	.00	2.20	.8902	.1664	.5233	.0017	0002	0074	5.35	•552
.205	2.88 (60.24)	.01	4.31	1.1270	.1698	.4894	.0003	0002	0058	6.64	•599
.205	5.88 (00.10)	.01	6.33	1.3720	.1754	.4427	.0003	0002	0080	7.82	.644
.205	2.88 (60.22)	• 02	8.43	1.6068	,1893	.3633	0017	0001	0100	8.49	.684
.205	2.89 (60.35)	.03	10.45	1.8267	.2119	.2991	0028	0007	0055	8.62	.685
.205	2.89 (60.34)	.04	12.51	2.0499	,2412	.2729	0045	0016	0060	8,50	•684
.205	2.88 (60.24)	.06	14.53	2.2252	,2755	.2441	0071	0023	0058	8.08	.685
205	2.87 (60.01)	.05	16,56	2.3621	.3087	.2149	0013	0023	-,0053	7.65	•685
205	2.88 (60.12)	•05	18.59	2.4069	,3528	.1645	.0121	.0045	0043	6.82	.685
205	2.89 (60.29)	•11	20.56	2.4219	.4354	0645	0095	0082	0070	5,56	.685
.205	2.87 (60.04)	.06	22.61	2.4704	.5093	0727	.0080	.0019	0132	4.85	.684

RUN N	UMBER	67	LONGI	TUDINAL STAR	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	Δ	TEST NUM	BER 198	
MACH	0,KP	A (PSF)	BETA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.206	2.90	(60.51)	01	-4.04	0859	.1791	.5779	0005	0002	0074	48	.420
.205	Z.89	(60.38)	00	-1.89	.3037	.1414	.4544	.0027	.0005	0105	2.15	.465
.205	2.88	(60.22)	.00	.18	.6844	.1243	.3241	.0011	.0018	0115	5.50	.510
.205	2.88	(60.24)	.00	2.27	.9935	.1274	.2206	.0015	.0005	0043	7.80	.555
•502	2.89	(60.29)	.01	4.36	1.2555	.1417	.1527	0006	.0008	0092	8.86	.602
.205	2.88	(60.21)	.01	6.40	1.4881	.1624	.0865	0018	.0001	-,0095	9.17	.648
.205	2.89	(60.43)	.02	8.42	1.7239	,1852	.0186	0023	0000	0090	9.31	.684
.205	2.89	(60.38)	.03	10.53	1.9484	.2146	0322	0042	0008	0076	9.08	.685
.205	2.89	(60.32)	.04	12.51	2.1629	.2461	0538	0043	0010	0065	8.79	.684
.205	2.88	(60.24)	.06	14.56	2.3316	.2851	0736	~.0066	0019	0069	8.18	.685
.205	2.88	(60.22)	.06	16.57	2.4542	.3208	1100	0017	0017	0094	7.65	.685
·502	2.89	(60.39)	.03	18.56	2.4928	.3698	-,1995	.0067	.0019	0123	6.74	.684
.205	2.87	(59.96)	.05	20.57	2.5200	.4469	3361	.0047	.0026	0081	5.64	.685
•204	2.86	(59.72)	.07	22.64	2,5631	.5389	-,3666	.0011	.0025	0089	4.76	.684
RUN N	UMBER	68	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	4	TEST NUM	BER 198	
MACH	Q, KP/	(PSF)	RET ^A ,DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.206	2.90	(60,66)	01	-3,98	.0154	,1463	.2699	0013	.0010	0158	.11	.423
•506	2.90	(60.54)	00	-1.91	.4036	.1200	.1298	.0029	.0012	0131	3.36	.467
.205	2.89	(60+40)	00	.20	.8055	.1138	.0024	.0008	.0006	0109	7.08	.512
.205	2.89	(60.32)	.00	2.28	1,1015	,1239	-,0884	0012	.0005	0121	8.89	.558
.205	2.89	(60.35)	.01	4.36	1,3669	.1400	1553	.0001	.0008	0090	9.76	.604
.205	2.89	(60.31)	.01	6.40	1.5972	.1631	2086	0017	.0004	0095	9.79	.650
.205	2,88	(60.19)	• 02	8.48	1.8274	,1906	2629	0031	0003	0077	9.59	.685
• 205	2.88	(60.12)	.03	10.49	2.0400	. 2215	3112	0053	0003	0085	9.21	.685
.205	2.87	(59.98)	.04	12.55	2.2589	.2574	3366	0069	0014	0072	8.78	.684
.205	2.87	(59.98)	.05	14.63	2.4766	.3021	-,3557	0099	-,0028	0055	8.03	.685
•204	2.87	(59.85)	.05	16.62	2.5579	.3380	4042	~.0051	0032	0071	7.57	.685
•204	2.86	(59.83)	.05	18.70	2.6062	.3973	4993	0005	0004	0194	6.56	.685
•204	2.86	(59.81)	•11	20.60	2.6136	.4712	5679	~.0181	0118	0054	5.55	.684
•205	2.88	(60.07)	.09	22.67	2.6912	,5578	-,6016	0031	0018	0155	4.83	.684

Ļ

L

PUN N	U4BER	69	LONGIT	UNINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q, KP/	(PSF)	RETA.DEG	ALPHA, DEG	CL	co	СРМ	ĊRM	CAM	CSF	L/0	HZB
.205	2.88	(60.15)	01	-3.93	.1252	.1369	0205	0005	.0008	0113	.91	.425
.205	2.88	(60+24)	00	-1.85	.5316	.1138	-,1690	.0069	.0015	0089	4.67	.469
.205	2.88	(60.24)	.00	.26	•9146	.1125	2855	.0019	.0009	0099	8.13	.514
•205	5.88	(60.18)	.00	2.30	1.2040	.1245	3724	0004	.0005	0093	9.67	.559
.205	2.88	(60.11)	.01	4.43	1.4582	•1461	4368	0018	.0012	0115	9.98	.607
.205	2.88	(60.13)	.01	6.65	1.7070	1746	4997	0023	.0006	0085	9.78	.655
•205	2.87	(60.03)	.02	8.49	1.9230	.1999	5506	0039	.0001	0069	9.62	.685
.205	2.87	(59.96)	.03	10,54	2.1381	.2340	5976	0062	0005	0059	9.14	.685
•204	2.87	(59.91)	.04	12.60	2.3541	.2743	6258	0076	0017	0023	8.58	.685
.205	2,88	(60.16)	•05	14,65	2.5177	.3204	6433	0106	0030	0032	7.86	.684
•205	2.68	(60.09)	.05	16.65	2.6365	.3594	6724	0051	0027	0057	7.34	.684
.205	2.87	(59.95)	.05	18.65	2.6683	.4199	-,7324	0003	.0000	0173	6.35	.685
•204	2.85	(59.60)	•11	20.65	2,6661	.5055	-,7800	0175	0112	0022	5,27	.684
•204	2.85	(59.58)	.09	22.65	2.7481	.5950	8160	0041	0020	0164	4.62	.685
PUN N	UMBER	70	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0,KP/	(PSF)	BETA,DEG	ALPHA, DEG	CL	ĊD	СРМ	CRM	CYM	CSF	L/D	нив
.206	2.91	(60.75)	01	-3.92	.2066	.1373	3136	0013	.0012	0146	1,50	.426
.205	2.89	(60+45)	00	-1.82	.6428	.1142	4629	.0046	.0012	0106	5,63	.471
.205	2.89	(60.37)	00	.23	.9944	.1176	5738	.0005	.0005	0105	8.46	.515
.205	2.88	(60+18)	.00	2.37	1.3048	.1334	6725	0005	.0006	0081	9.78	.562
.205	2.88	(60.09)	•01	4.41	1.5464	•1575	7337	0026	.0006	0086	9,82	.607
.205	2.86	(60+09)	.01	6.43	1.7772	.1856	7886	0045	0003	0077	9.58	.653
.205	2.88	(60+23)	•05	8.48	1.9946	.2186	A339	0069	0012	0054	9.13	.685
.205	2.88	(60+05)	.03	10.55	2.2170	.2546	8744	0067	0005	0067	8.71	.684
.205	2.87	(60+01)	.04	12.65	2.4337	.2991	8998	0083	0016	0056	8.14	.685
.205	2.88	(60.21)	.05	14.61	2.5958	.3416	9044	0093	0017	0056	7.60	.685
.205	2.89	(60.33)	.05	16.62	2.6923	.3872	8960	0049	0026	0035	6.95	.684
•205	2.AB	(60.16)	.05	18,69	2.6867	.4564	9272	.0004	.0008	0185	5.89	.685
.205	2.87	(59.99)	.11	20.66	2.6874	•5437	9607	0135	0083	0072	4.94	.685
•204	2.87	(59.92)	.07	22.71	2.7591	.6373	-,9829	+0044	.0021	0167	4.33	.685

PUN P	IUMRER	71	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0,KP/	(PSF)	RETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	ĊSF	L/D	H78
.206	2.91	(60.78)	01	-3.91	.3201	.1435	6352	0023	.0013	0185	2.23	.428
.206	5.90	(60.67)	00	-1.81	•7538	.1243	7902	.0053	.0010	0089	6,06	.472
•509	2,90	(60+67)	00	.27	1.1080	.1321	9070	0008	.0000	0077	8,39	.518
.205	2.89	(60.35)	.00	2.40	1.4039	.1521	9989	0011	.0005	0079	9.23	.564
•205	2.89	(60.33)	.01	4.41	1.6350	.1787	-1.0521	0039	0002	0068	9.15	.609
•205	2.89	(60.29)	•05	6.57	1.8820	.2104	-1.0977	0048	0004	0067	8,95	.657
.205	2.88	(60.22)	.05	8.53	2.0935	.2430	-1.1315	0067	0008	0072	8,62	.685
.205	2.88	(60+15)	.03	10.55	2.3002	.2831	-1.1588	0085	0022	0041	8,12	.685
.205	2,89	(60+28)	.04	12.64	2.5043	.3379	-1.1697	0080	0002	0081	7.41	.684
.206	2.90	(60.65)	.05	14.64	2.6465	.3881	-1,1424	0097	0018	0037	6,82	.685
•205	2.90	(60+48)	.05	16.68	2.7263	.4307	-1.0744	0045	0032	.0001	6.33	.685
.205	2.89	(60+42)	.06	18.72	2.6797	.5026	-1. 084A	.0017	.0007	0161	5,33	.684
.205	2,90	(60+49)	• 0 •	20.62	2.6876	.5888	-1.1082	0094	0074	0060	4.56	.685
.205	2.89	(60+31)	• 0 4	22.72	2.7367	.6991	-1,1589	•0098	.0067	0126	3.91	.685
RUN N	UMBER	72	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	RER 198	
масн	0.KP/	(PSF)	RETADEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	LZD	н/в
.205	2.88	(60.10)	-10.01	-3.98	.1462	.1107	1656	.0121	0326	.2563	1.32	.425
.205	2.88	(60.19)	-10.01	-1.79	.5722	.0880	2893	.0203	0290	.2315	6.50	.472
.205	2.89	(60+42)	-10.05	.28	.9034	.0898	3533	.0299	0247	.2116	10.06	.517
.205	2.88	(60+19)	-10.03	2,30	1.1836	.1021	4125	.0363	0219	.2019	11.60	.561
.205	5.88	(60+15)	-10.04	4.36	1.4243	.1230	4691	.0375	+.0204	.1966	11.58	.607
.205	2.89	(60.28)	-10,05	6.42	1.6561	.1502	5341	.0381	0209	.2003	11.02	.653
.205	5.88	(60.23)	-10.07	8,50	1.9094	.1811	6005	.0414	0208	•5058	10.54	.700
.205	2.89	(60.33)	-10.08	10.55	2.1200	.2167	6546	.0436	0199	.2014	9.78	.684
.205	2,88	(60+24)	-10.10	12,55	2.3006	.2545	-,6886	.0440	0195	.2010	9.04	,685
.205	2.88	(60+07)	-10.11	14.63	2.4705	.2956	6697	.0439	0207	·505	8,36	.685
.205	5.88	(60+19)	-10.14	16,57	2.5300	.3460	6503	.0558	0181	1941	7.31	.685
.205	2.88	(60.16)	-10,26	18,60	2.5593	.4090	6371	•0740	0139	.1965	6.26	.684
.205	2.89	(60+45)	-10.35	20.65	2.6116	.4775	6595	.0896	0071	.1906	5.47	.685
•205	2,90	(60+48)	-10,43	22.68	2.6986	•5486	-,6634	.1063	•0042	.1777	4.92	.685

41

RUN N	UMRER	73	LONGII	TUDINAL STAD	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NU	APER 198	
масн	0.KPA	(PSF)	BETA+DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.206	2.90	(60.66)	-4.97	-4.00	.1119	.1337	0334	.0100	0157	1267	.84	.424
.206	2,90	(60.63)	-4.98	-1.A3	.5416	.1083	-,1779	.0139	0138	,1163	5.00	.471
.205	2.89	(60.26)	-5,00	.27	.9165	.1069	2896	.0165	0118	.1092	8,57	.515
.205	2.89	(60.26)	-5.02	2.27	1.1799	.1202	-,3675	.0171	0106	.1048	9,82	.560
.205	2.89	(60.29)	-5.03	4.44	1.4385	.1402	4389	•0185	0091	.0979	10,26	.608
.205	2.87	(60.03)	-5.05	6.47	1.6788	.1650	5041	.0175	0097	.0994	10.18	.653
.205	2.89	(60.33)	-5.06	8,51	1.9137	.1954	-,5731	.0179	0111	.1061	9.79	.685
.205	2,88	(60.18)	-5.07	10.54	2.1167	.2313	6245	.0165	0124	.1086	9.15	,684
.205	2.89	(60+41)	-5.08	12,57	2,3093	.2692	-,6607	.0192	-,0121	.1071	8,58	.684
.205	2,88	(60.24)	-5.09	14.58	2.4703	.3053	6788	.0181	0134	.1063	8,09	.684
.205	2.88	(60.17)	-5.11	16,64	2.5695	.3485	6559	.0213	0135	.1006	7.37	.685
.205	2,88	(60.12)	-5.14	18.63	2,6119	.4155	6710	.0345	0103	.0913	6.29	.685
.205	2,87	(60.01)	-5.18	20.65	2.6565	.4826	7268	.0413	0079	.0919	5.50	.685
.205	2,87	(60.00)	-5.22	22.67	2.6250	.5699	-,7300	.0517	0046	.0861	4.61	.684
RUN N	UMBER 1	14	LONGIT	UNINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0.KPA	(PSF)	RETA+DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	нив
.206	2.91 ((60.80)	.02	-3.94	.1132	.1388	.0010	0004	.0007	0034	.82	.425
.206	2,90	(60.66)	.05	-1.86	.5115	.1153	1499	.0051	.0006	0004	4.44	.469
.206	2,90 ((60.64)	.01	.18	.8620	.1148	-,2570	0012	.0002	0057	7,51	.513
.205	2,90 ((60.47)	.00	2.31	1.1896	.1254	-,3519	0002	.0006	0033	9.49	.560
.205	2,89 ((60.39)	00	4.37	1.4433	.1445	4178	.0003	.0015	0040	9.99	.605
.205	2,88 ((60.21)	00	6.44	1.6758	.1703	4773	0030	0001	0018	9.84	.651
.205	2,88 ((60.11)	01	8.46	1.8916	.1996	-,5356	0045	0003	0015	9,48	,685
.205	2,88 ((60.10)	00	10.52	2.1103	.2336	-,5812	0079	0014	0014	9.04	.685
.205	2,87 (60.01)	00	12.66	2.3288	2755	-,6097	0068	0015	0001	8.45	.684
.204	2,86 (59.78)	.00	14.59	2.4766	.3170	~,6372	0110	0026	.0001	7.81	.685
.205	2,88 (60-11)	•02	16.62	2.5396	.3566	6952	0081	0044	.0018	7.12	.684
.205	2,88 (60.25)	.01	18.71	2,5248	.4235	7277	.0023	.0007	0103	5.96	.684
.205	2,89 (60.27)	.06	20.65	2.6090	.5058	7714	0106	0085	0090	5.16	.685
.205	2,88 (60.06)	.03	22.64	2.7017	.5935	8245	0032	0011	0064	4.55	.685

RUN N	UMBER	75	LONGI	UDINAL STAB	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	A	TEST NU	TEST NUMBER 198 CSF L/D 1326 1.18 1220 4.63 1212 5.13 1161 8.29 0991 10.27 0991 10.27 0984 10.09 1089 9.20 1071 8.56 091 7.92 1130 7.06 1222 6.31 1157 4.51 TEST NUMBER 198 CSF CSF L/D	
MACH	0.KPA	(PSF)	RETA.DEG	ALPHA, DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в
.205	2,90	(60+49)	5.01	-3.96	.1528	.1291	-,0449	0102	.0169	1326	1.18	.424
.205	2,88	(60.22)	5.01	-1.91	.5105	.1102	-,1801	0118	.0148	1220	4,63	.469
.206	2,90	(60.58)	5.01	-1.88	.5496	.1072	-,1821	0136	*0144	-,1212	5,13	,469
.206	2,90	(60.52)	5.01	•23	.8858	.1068	-,2882	0175	.0122	1161	8.29	,515
.206	2.90	(60.53)	5.01	2.30	1.1724	.1190	-,3718	÷.0200	.0100	1049	9.85	.560
.206	2,90	(60.56)	5,02	4.41	1.4248	.1388	-,4506	0220	.0091	0991	10,27	.607
.206	2,90	(60.53)	5.03	6.37	1.6458	.1631	-,5246	0246	.0087	0984	10,09	.651
.205	2,90	(60+48)	5,05	8.44	1.8855	.1949	-,5723	0283	.0096	1081	9,68	.685
.205	2,89	(60.39)	5.06	10.54	2.1056	.2290	~ .6145	0311	.0098	1089	9,20	.685
.205	2,89	(60.33)	5.07	12.58	2.3001	.2688	- .6512	0342	.0089	1071	8,56	.685
.205	2,89	(60.33)	5.10	14.63	2.4519	.3096	6760	0371	.0085	1091	7,92	.685
.206	2,90	(60.52)	5.17	16.64	2.5326	,3587	6644	0420	.0071	1130	7,06	.684
.205	2,89	(60.40)	5.20	18.61	2,5820	.4090	-,7090	0352	.0106	-,1222	6,31	.685
.205	2,89	(60+41)	5.24	20.67	2.6117	.4909	6983	0234	.0146	1213	5,32	.685
.205	2,88	(60.18)	5,36	22.66	2.5788	.5712	6733	0491	.0067	1157	4,51	.685
RUN N	UMBER 7	76	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q,KPA	(PSF)	BETA.DEG	ALPHA.DEG	C∟	CD	CPM	CRM	CYM	CSF	L/D	H/B
.116	,96 ((20.15)	02	-3.95	.1724	.1366	-,3149	.0030	.0013	0141	1.26	.426
.116	,97 ((20.23)	01	-1.84	.5806	.1156	4214	.0031	.0015	0145	5,02	.473
.116	,96 ((20.12)	.00	•28	1.0084	.1176	-,5417	.0020	.0009	0134	8,57	.521
.116	.96 ((20.13)	.01	2,34	1.2954	.1340	-,5541	0013	.0006	0118	9.67	.569
.116	,96 ((20.15)	.03	4.41	1.5405	.1562	-,5333	0009	.0009	0141	9.86	.618
.116	,96 ((20.13)	.04	6.44	1.7613	.1776	5031	0005	.0010	0145	9,92	.665
.116	.97 (20.23)	.05	8.47	1,9516	.2076	4703	0011	.0001	0121	9.40	.685
.117	.97 (20.25)	.07	10.52	2.1482	.2353	4244	0028	0004	0141	9,13	.685
.116	,96 ((20.10)	.08	12.62	2.3461	.2679	-,3755	0013	.0003	0112	8,76	.684
.116	.96 (20.041	.09	14.62	2.4733	.3042	-,3204	0006	0009	0083	8.13	.685
.116	,96 (20.05)	.09	16.62	2.5592	.3328	2388	.0046	.0006	0058	7.69	.684
.116	.96 (50.06)	.08	18.64	2.6030	.3747	1621	.0166	.0054	0066	6.95	.685
•116	.97 ((20.19)	.09	20.62	2.6395	•4221	0874	.0197	.0072	0123	6.25	.684
.116	.96 (20.13)	.11	22.59	2,5391	.5161	0930	.0187	.0112	.0049	4,92	.685

ļ

RUN N	UMRER	77	LONGI	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q,KP	A (PSF)	BETA+DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.165	1.92	(40.18)	02	-3,95	.1858	.1365	3251	.0008	.0004	0084	1.36	.426
.165	1.93	(40.23)	01	-1.84	.6222	.1146	4511	.0093	.0003	0057	5.43	.472
.165	1.92	(40.15)	.00	.32	1.0480	.1179	5494	.0018	.0008	0104	8.89	.519
165	1.93	(40.26)	.01	2.38	1.3291	.1323	5579	0002	.0007	0094	10.04	.566
.165	1.93	(40.22)	.02	4.38	1.5556	.1530	5357	0010	.0008	0097	10.17	.611
•165	1.92	(40.14)	.03	6.47	1.7763	.1781	-,5035	0013	.0004	0096	9.97	.659
.165	1.93	(40+23)	.04	8.56	1.9743	.2071	4735	0003	.0003	0081	9.53	.685
•165	1.92	(40-17)	.05	10.54	2.1659	.2365	4337	0014	0005	0076	9.16	.684
.165	1.92	(40.08)	.06	12.63	2.3508	.2709	3798	0018	0008	0071	8.68	.685
•165	1.93	(40.26)	.08	14.64	2.4917	.3050	3234	0012	0013	0051	8.17	.685
.165	1,92	(40.16)	.08	16.62	2.5659	.3391	2477	.0054	.0009	0058	7.57	.685
.165	1.92	(40.20)	.05	18.66	2.5980	.3843	1747	.0234	.0096	0121	6.76	.685
•165	1.94	(40+43)	.04	20.63	2.6623	.4323	0997	.0295	.0137	0126	6.16	.685
•165	1.93	(40.31)	01	22.61	5.0151	.5070	0974	.0236	.0139	.0070	5.15	.685
RUN N	IMBER	78	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
MACH	Q • KP/	(PSF)	BETA+DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.203	2.90	(60.52)	01	-3.94	.7266	.1330	3427	.0069	.0002	.0002	1.70	.425
.203	2.88	(60.17)	01	-1.81	.7080	.1121	4956	.0066	.0011	0019	6.32	.470
.203	2.88	(60.20)	01	26	1.0512	.1177	-,5530	.0013	.0007	0024	8.93	.515
.203	2.88	(60.09)	01	2.37	1.3343	.1324	5663	0009	.0004	0006	10.08	.561
.203	2.90	(60.55)	00	4.39	1.5541	.1524	5402	0004	.0010	0023	10.20	.605
.203	2.89	(60-44)	00	6.45	1.7558	1778	5087	0023	0002	.0000	9.88	.651
.203	2.88	(60.18)	.00	8.48	1.9572	.2048	4757	0009	0000	.0017	9.56	. 686
.203	2.89	(60.29)	.01	10.56	2.1520	.2344	4338	0017	0007	.0039	9,18	.685
.203	2.89	(60.26)	.02	12,55	2.3416	.2674	3872	0031	0007	.0011	8.76	.686
.203	2.90	(60.51)	•02	14.62	2.4941	.3040	3279	0037	0015	.0045	8.20	.685
.203	2.89	(60.39)	• 02	16.62	2.5749	.3348	2490	.0024	0003	.0034	7.69	.685
.203	2.89	(60.29)	01	18.63	2.5819	.3824	1888	.0153	.0061	.0034	6.75	.685
.203	2.87	(60.04)	06	20.58	2.5593	.4424	1649	+0145	.0084	.0163	5.79	.685
.203	2.90	(60.53)	02	SS*00	2.5497	.5260	0923	.0070	.0061	.0211	4.85	.685

RUN	NUMBER	79	LONGII	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q,KP/	(PSF)	RETA, DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	1/D	H/8
.203	2.89	(60.37)	.01	-3.98	.1856	.1193	3312	.0067	.0014	0105	1.56	.425
.203	2.89	(60.33)	.01	-1.81	.6931	.0964	4923	.0073	.0011	0069	7.19	.470
.503	2.68	(60.18)	00	.28	1.0679	.1012	-,5604	.0027	.0010	0073	10.55	.514
•203	2.88	(60.15)	00	2.33	1.3318	.1180	-,5699	.0000	.0008	0066	11.28	.559
.203	2.87	(60.01)	01	4.43	1.5713	.1387	5416	0005	.0007	0064	11.33	.605
.203	2,90	(60.55)	01	6.48	1.7856	.1636	5078	0008	.0005	0075	10.91	.651
.203	2.89	(60.30)	01	8.52	1.9831	.1932	4740	0017	0003	0061	10.26	.685
.203	2.89	(60.29)	01	10.57	2.1771	.2240	4328	0026	0014	0024	9.72	.685
.203	2.89	(60.28)	01	12.61	2.3518	.2594	3854	0053	0021	0025	9.07	.685
.203	2.88	(60.24)	01	14.62	2.4986	.2946	3321	0053	0028	0002	8.48	.685
.203	2.88	(60.15)	01	16.62	2.5640	.3292	2668	0024	0024	0002	7.79	.685
.203	2.90	(60.52)	01	18.64	2.5614	.3751	2112	.0037	.0012	0002	6.83	.685
.203	2.88	(60.17)	03	20.65	2.6300	.4292	1589	.0088	.0058	0017	6.13	.684
.202	2.87	(59.98)	09	22.61	2.6213	.5076	1210	.0200	.0172	.0018	5.16	.684
PUN I	NUMBER	80	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q,KPA	(PSF)	RFTA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/В
.203	2.89	(60.42)	.01	-4.06	1614	.2306	.7449	.0035	.0007	0151	70	.418
.203	2.89	(60+44)	.01	-1.94	.2923	.1907	.5642	.0053	.0002	0086	1.53	.463
•503	2.89	(60.30)	.00	.16	.7055	.1747	.4405	.0023	.0004	0089	4.04	.507
.203	2.89	(60+40)	00	2.28	1.0004	1724	.3756	.0020	.0007	0077	5,80	.553
•204	5.90	(60.59)	01	4.34	1.2617	.1754	.3302	.0017	.0010	0070	7.19	.599
.203	2.90	(60+49)	01	6.39	1.4939	.1863	.2728	.0021	.0014	0063	8,02	.646
.203	2.89	(60.34)	01	8.46	1.7348	.2028	.1806	.0001	.0003	0085	8,55	.684
.203	5.60	(60.46)	01	10.49	1.9584	•5588	.1262	0010	.0000	0061	8,56	.684
•203	2.89	(60.35)	01	12.54	2.1751	.2621	.1032	0030	0006	0056	8.30	.686
.203	2.88	(60.15)	01	14.52	2.3537	.2961	.0727	0032	0011	0045	7,95	.685
.203	2.88	(60.14)	02	16,56	2.4720	.3254	.0548	.0036	.0002	0055	7.60	.685
.203	2.89	(60.28)	07	18,59	2.4994	.3750	.0155	.0196	.0086	0090	6.67	.685
.203	2.88	(60.20)	07	20.63	2.5218	.4379	1070	.0173	.0097	0017	5.76	.685
•203	2.89	(60.30)	06	22,55	2.5587	.5242	1832	.0133	.0081	0071	4,88	.685

43

_

PUN N	UMBER 81	LONGI	TUDINAL STAB	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	TA	TEST NUM	8E9 198	
масн	Q.KPA (PSF)	BETA+DEG	ALPHA, DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H78
.203	2.89 (60.41)	.01	-4.02	0889	.1825	.5798	.0037	.0013	0170	49	.419
.204	2.90 (60.62)	.01	-1.87	.3680	.1433	.3835	.0051	.0010	0116	2.57	.464
.203	2.89 (60.30)	00	•55	.7949	,1310	.2104	.0033	.0019	0102	6.07	.509
.203	2.89 (60.35)	00	2.29	1.0989	.1373	.0940	.0006	.0002	0067	8.00	.555
.203	2.89 (60.32)	01	4.37	1.3624	,1537	.0198	.0014	.0008	0070	8.87	.602
•203	2.88 (60.14)	01	6.39	1.6072	,1745	0519	0009	.0001	0081	9.21	.647
.203	2.89 (60.33)	01	8.50	1.8466	,2004	1206	0005	.0003	0070	9.21	.684
.203	2.88 (60.15)	01	10.54	2.0704	.2304	1707	~.0005	-000Z	0051	8.99	.685
.203	2.89 (60.46)	01	12.56	2.2767	.2667	1936	0031	0005	0062	8,54	.685
.203	2.88 (60.22)	00	14.60	2.4589	,3024	-,2179	0031	0008	0056	8,13	.684
.203	2.88 (60.21)	02	16.59	2.5593	.3366	2279	.0042	.0002	-,0057	7.60	,685
.203	2.89 (60.39)	05	18.55	2.5299	.3898	2866	.0141	.0063	0043	6.49	.686
.203	2.89 (60.34)	04	20.65	2,5900	.4571	4205	.0106	.0055	0103	5.67	.685
.203	2.90 (60.47)	02	22.63	2.6215	•5472	3940	.0069	.0028	0108	4.79	•684
PUN N	MRER 82	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q,KPA (PSF)	RETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
.204	2.90 (60.63)	.00	-3.98	.0092	.1481	.2700	.0060	.0008	0126	.06	.421
.203	2.90 (60.47)	.00	-1.90	4768	.1553	.0479	.0077	.0010	0115	3.90	.465
.203	2.89 (60.29)	00	.25	•9091	.1204	1146	.0023	.0006	0104	7.55	.512
.203	2.88 (60.17)	00	2.33	1.2318	.1312	-,2185	.0038	.0012	0098	9.39	•557
.203	2.89 (60.44)	00	4+41	1.4661	•1529	2826	.0009	.0008	0088	9.59	.603
.203	2.88 (60.25)	.00	6.46	1.7042	.1774	-,3455	.0007	.0004	0061	9,60	.650
.203	2.89 (60.26)	.00	8.48	1.9370	, 2042	-,4035	.0004	.0008	0063	9.49	.684
.503	2,88 (60+19)	.00	10.55	2.1537	.2375	4531	~.0016	.0004	0057	.9.07	.685
.203	2.88 (60.09)	.01	12.61	2.3664	.2767	4779	0032	0001	0063	8.55	.685
.202	2,87 (59,98)	.01	14.61	2.5417	.3152	-,5050	~.0032	0011	0048	8,06	.685
.203	2.89 (60.41)	.01	16.64	2.6222	•3535	5546	.0016	0000	0079	7.42	.684
.203	2.89 (60.43)	.00	18.61	2.5905	•4074	5812	.0079	.0034	0054	6.36	.685
•203	2.88 (60.14)	03	20.63	2.6669	.4798	6932	.0094	.0050	0132	5,56	.683
•203	2.87 (60.04)	08	22.64	2.7355	•5631	7053	.0175	.0130	0039	4.86	.685

PUN N	UMBER 83		LONGIT	UDINAL STAB	ILITY-AXIS	S AND LA	TERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	RETADEG	ALPHA,DEG	CL	CD	СРМ	CRM	Сүм	CSF	L/D	H/8
-202	2.87 (59	9.95)	.01	-3.98	.1075	.1395	0151	.0030	.0016	0183	.77	.423
.203	2.90 (6)	0•47)	.01	-1.89	•5751	.1175	2368	.0049	.0012	0125	4,89	. 467
.203	2,90 (6)	0•48)	.00	.25	.9999	.1188	-,3971	.0008	.0007	0113	8.41	.513
.203	2.88 (6)	0.18}	00	2.35	1.3140	.1334	-,5037	.0013	.0008	0077	9.85	.559
.203	2.88 (6(0.21)	01	4.42	1.5662	.1558	-,5722	.000A	.0015	0098	10.05	.605
.203	2.88 (60	0.18}	01	6.45	1.7975	.1831	6330	0014	.0004	0071	9.82	•651
.203	2.88 (60	0.19)	01	8.58	2.0389	.2154	6948	0022	.0001	-,0062	9.46	.685
.203	2.88 (60	0.19)	00	10.56	2.2510	.2506	7412	0033	.0004	0075	8.98	.685
.203	2.88 (6(0.11)	.00	12.66	2.4717	.2924	7729	0059	-,0009	0049	8.45	.684
.203	2.89 (60	0.27)	.00	14.67	2.6445	.3340	8045	0046	0006	0067	7,92	.683
.203	2.88 (60	0.18)	.00	16.66	2.7151	.3773	8484	0030	0002	0100	7.20	.685
•503	2.88 (60	0.24)	00	18.58	2.7110	,4385	8824	.0021	.0019	0163	6.18	.691
.203	2.88 (60	0.05)	•05	20.67	2.8153	.5163	-,9354	0041	0013	0080	5.45	.685
•204	2.91 (60	0.74)	.01	22.69	2.7937	.6326	-,9195	.0017	.0049	0091	4.42	.684
RUN N	UMBER 84		LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q,KPA (P	SF)	RETA. DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.203	2.89 (60	(85.(.01	-3.93	.2158	.1372	-,3292	.0050	.0012	0160	1.57	.425
•203	2.90 (60)•48)	.01	-1.79	•7042	.1181	-,5585	.0071	.0013	0114	5,96	.471
.203	2.89 (60).39)	00	.31	1.1131	.1232	-,7061	.0020	.0006	009B	9.03	.516
•203	2.89 (60).33)	00	2.38	1.4029	.1435	8062	.0001	.0007	0083	9.78	.561
•503	2.88 (60).17)	01	4.47	1.6732	.1682	-,8803	.0001	.0012	0085	9.95	.607
•203	2.88 (60	•16)	01	6.54	1.9201	•1979	-,9362	0016	.0008	0092	9.70	.654
•503	2.88 (60).14)	01	8.59	2.1517	.2325	-,9912	0014	.0007	0080	9.25	.701
.203	2.90 (60	•49)	~ .00	10.60	2.3592	.2711	-1.0270	0043	.0000	0073	8.70	.686
•503	2.89 (60	1.29)	.00	12.68	2.5781	.3158	-1.0588	0057	0004	0085	8,16	.684
•503	2.88 (60	(15•(.00	14.66	2,7325	.3594	-1.0710	0049	0006	0081	7.60	.684
•503	2.88 (60	•13)	01	16.56	2.8070	.4006	-1,0623	.0003	.0007	0142	7.01	.683
.203	5.90 (60	•56)	03	18.81	2.8400	.4750	-1.0406	.0083	.0064	0296	5,98	.684
.203	2,89 (60	1+45)	01	20.7A	2.8379	•5623	-1,1394	.0001	.0024	0151	5.05	.683
.203	2.89 (60	•46}	07	22,75	2.8923	.6685	-1,1366	.0164	.0190	0182	4.33	.685

RUN N	UMBER 86	LONGIT	TUNINAL STAR	ILITY-AXIS	AND LAT	EPAL RODY	-AXIS DAT	A	TEST NUP	BER 198	
MACH	Q.KPA (PSF)	RFTA,DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.203	2.89 (60.26)	.01	-3.90	.3473	.1436	6958	.0061	.0006	0129	2.42	.428
.203	2.89 (60.30)	.00	-1.71	.8802	.1265	-,9414	.0044	.0007	0108	6.96	.473
.203	2.88 (60.23)	00	•34	1.2392	.1389	-1.0762	.0030	.0008	0091	8.92	.518
.203	2.87 (60.04)	00	2.44	1.5343	.1615	-1.1719	.0002	.0004	0079	9.50	.565
.203	2.89 (60.41)	01	4.50	1.7831	.1899	-1.2263	.0013	.0006	0048	9.39	.610
•503	2.89 (60.40)	01	6.53	2.0031	.2248	-1,2678	0023	0005	0048	8.91	.656
.203	2.89 (60.29)	01	8,59	2.2372	.2620	-1.3163	0032	0016	0040	8.54	.685
•503	2.88 (60.15)	÷.01	10.65	2.4438	.3130	-1,3388	0048	0002	0067	7.81	.710
.203	2.89 (60.44)	00	12.62	2.6408	.3612	-1.3337	0051	0003	0074	7.31	.685
•203	2.89 (60.32)	00	14.69	2.7891	.4123	-1.2978	0056	0010	0070	6.76	.686
.203	2.89 (60.34)	01	16,72	2.8400	.4560	-1.2111	.0001	.0006	0129	6.23	.685
•203	2.88 (60.12)	01	18,77	2.8097	.5276	-1,2087	.0045	.0027	0176	5.33	.695
.203	2.89 (60.39)	.03	20.77	2.8718	.6156	-1.3001	.0004	.0018	0149	4.66	.686
•204	2,91 (60.72)	•06	22.70	2.8702	.7321	-1,2509	.0004	.0071	0155	3,92	.685
RUN N	UMBER 87	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUP	BER 198	
масн	Q,KPA (PSF)	RETADEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
.203	2.90 (60.52)	-9.99	-3,95	.1694	.1107	2007	.0052	0321	.2496	1.53	.425
•204	2.90 (60.59)	-9,99	-1.80	.6475	.0906	4029	.0260	0293	.2332	7.15	.471
.203	2.89 (60.43)	-10.00	.27	1.0186	.0943	4848	.0375	0241	.2094	10.80	.516
•503	2.88 (60.12)	-10.02	2.37	1.3173	.1094	5616	.0445	-,0209	.2015	12.04	.562
.203	2.89 (60.26)	-10.03	4.42	1.5706	.1320	6284	.0475	0195	.1996	11.90	.607
.203	2.88 (60.20)	-10.05	6.48	1.8162	.1610	6972	.0481	0201	.2020	11.28	.654
.203	2.88 (60.21)	-10.07	8.54	2.0657	.1952	7656	.0505	0203	.2057	10.58	.686
.203	2.89 (60.30)	-10.09	10.61	2.2831	.2326	⁸ 165	.0527	0189	.2038	9.82	.688
.203	2.89 (60.29)	-10.11	12.59	2.4570	.2726	8423	.0511	0196	.2030	9.01	.687
.203	2.88 (60.14)	-10.13	14.62	2.6314	•3145	8360	.0547	0195	.2034	8.37	.686
.203	2.89 (60.33)	-10.18	16.64	2.6760	.3741	8238	•0697	0168	.1955	7.15	.692
.203	2.89 (60+43)	-10.23	18.70	2.7697	.4337	-,8626	.0755	0165	.1916	6.39	.687
•204	2.90 (60.57)	-10,34	20.65	2.7950	.4958	8344	.0883	0134	.1962	5.64	.685
.204	2.91 (60.69)	-10.43	22.65	2.8110	.5713	-,7904	.1104	.0025	.1783	4.92	.688

RUNI	NUMBER (88	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q, KPA	(PSF)	RETA.DEG	ALPHA,DEG	CL	ĊD	CPM	CRM	CYM	CSF	L/D	H/B
.203	2.89	(60.37)	-4.96	-3.92	.1369	.1322	0667	.0079	0152	.1210	1.04	.425
• 203	2.89	(60.29)	-4.97	-1.77	•6498	.1093	3077	.0173	0141	.1159	5.95	.471
.203	2.89	(60.31)	-4.99	.27	1.0187	.1124	4315	.0200	0120	.1099	9.06	.515
.203	2.86	(60.22)	-5,01	2,36	1.3295	.1269	-,5282	.0222	0095	.1016	10.47	.561
•503	5.88	(60+12)	-5.03	4.43	1.5850	.1483	6028	.0247	0085	.0977	10.69	.607
*S03	2.88	(60+17)	-5.04	6.45	1.8050	.1787	6647	.0240	0090	.0989	10.10	.653
•503	2.88	(60.16)	-5.06	8,51	2.0526	.2111	7372	.0234	0111	.1072	9.72	.700
.203	2.89	(60.32)	-5.07	10,56	2.2695	.2470	7906	.0234	0116	.1078	9.19	.688
.203	2.88	(60.11)	-5.09	12.61	2.4582	.2872	8218	.0246	0118	.1059	8.56	.688
•503	2.88	(60+18)	-5,10	14.61	2.5981	.3276	8265	.0260	0125	.1024	7.93	.684
•503	2.88	(60.22)	-5.14	16.66	2.6803	.3771	8193	.0372	0092	.0932	7.11	.687
•503	2.89	(60.36)	-5,18	18,70	2.7557	.4461	8545	.0480	~.0054	.0855	6.18	.686
.203	2.88	(60.20)	-5,18	20.76	2,9134	.5097	8901	.0427	0074	.0787	5.72	.688
.203	2.89	(60.33)	-5.22	22.71	2.9085	.5825	8807	.0521	0066	.0806	4.99	.689
RUN I	NIMBER (89	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL HODY	-AXIS DAT	A	TEST NUM	IBER 198	
масн	Q.KPA	(PSF)	RETAODEG	ALPHA.DEG	ĊL	CD	ĊPM	CRM	CYM	CSF	L/D	H/8
.203	2.89	(60.31)	.03	-3.95	.1231	.1379	0275	.0054	.0010	0078	.89	.423
.203	2.88	(60.16)	.01	67	,8587	.1145	3573	.0030	.0010	0062	7.50	.493
.203	2.88	(60+18)	.01	.30	1.0238	.1182	4132	.0015	.0008	0052	8.66	.514
.203	2.88	(60+16)	.00	2.39	1.3291	.1335	5141	.0028	.0009	0013	9.95	.560
.205	2.87	(59.99)	00	4.40	1.5705	.1556	5777	0009	.0010	0047	10.09	.605
.203	2.90	(60.56)	01	6.45	1.7985	.1834	6370	0020	.0002	0024	9.80	.651
.203	2.89	(60+42)	02	8.54	2.0389	.2150	7017	0009	.0011	0038	9.48	698
.203	2.89	(60+42)	02	10.53	2.2529	.2495	7452	0034	0002	0005	9.03	.685
.203	2.89	(60.36)	02	12,59	2.4622	2925	-,7733	0045	0001	0028	8.42	.686
•203	2.88	(60.21)	02	14.65	2.6371	.3342	8109	0048	0010	0033	7.89	.688
.203	2.89	(60.34)	03	16.69	2.7088	.3787	-,8502	0013	.0002	0084	7.15	.690
.203	2,88	(60.21)	03	18,49	2.6905	.4374	8744	.0040	.0025	0110	6.15	.686
•204	2.90	(60+62)	00	20.76	2.8044	.5285	-,9591	0005	.0003	0129	5,31	.689
•204	2.90	(60.62)	06	22,69	2.8415	.6146	9285	.0170	.0134	0196	4.62	.686

RUNN	HIMBER 90	LONGI	TUDINAL STAB	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	A	TEST NU	MBER 198	
MACH	Q.KPA (PSF)	BFTA,DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
.203	2.90 (60.49)	5,02	-3.95	.1711	.1283	0710	0027	.0170	1366	1.33	.423
.203	2.90 (60.49)	5.03	-1.83	.6579	.1069	-,3073	-,0062	.0153	1271	6.16	469
.203	2.89 (60.45)	5.03	.27	1.0120	.1110	4349	0185	.0125	1225	9.12	.515
.203	2.89 (60.36)	5.04	2.38	1.3046	.1269	-,5301	0229	.0102	1125	10.28	.561
.203	2.89 (60.41)	5.05	4.39	1.5467	.1485	-,6098	0253	.0096	1082	10.42	.607
.203	2.89 (60.31)	5,06	6.40	1.7727	.1760	6821	0284	.0095	1103	10.07	.653
.203	2.88 (60.18)	5,08	8.50	2,0270	.2100	7348	0300	.0107	1177	9.65	.699
.203	2.89 (60.27)	5,10	10.53	2.2428	.2444	7786	0327	.0107	1171	9.18	.687
.203	2.88 (60.22)	5.11	12.58	2.4483	.2855	8166	0325	.0115	1186	8.58	.686
.203	2.88 (60.10)	5.13	14.71	2,5984	.3316	8314	0358	.0110	1183	7.84	.683
.203	2.89 (60.36)	5.17	16.65	2.6636	.3783	8376	0455	.0070	1157	7.04	.680
.203	2.88 (60.23)	5,20	18.64	2.7626	.4304	8275	0440	.0080	1127	6.42	.687
.203	2.89 (60.41)	5.19	20.63	2.7626	.5230	7914	0166	.0297	1177	5.28	- 690
.203	2.90 (60.50)	5.40	22.64	2.6595	.6190	8299	0530	.0048	1192	4.30	.684
RUN N	UMBER 91	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DATA	1	TEST NUR	BER 198	
MACH	G.KPA (PSF)	BETA+DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYN	CSF	L/D	H/8
.199	2.77 (57.80)	.00	.31	1.0745	.1056	4406	.0059	.0014	.0067	10.17	.019
.203	2.89 (60+46)	.00	. 32	1.0689	.1076	4384	.0065	.0012	.0091	9.93	.024
.203	2.87 (60.01)	.00	.28	1.0456	.1116	4284	.0045	.0017	.0022	9.37	-074
.203	2.89 (60.40)	.00	.29	1.0299	.1146	4205	.0031	.0012	0022	8.99	-123
.203	2.88 (60.25)	.00	.29	1.0292	.1153	4135	.0026	.0017	0060	8.92	172
.203	2.88 (60.19)	.00	.27	1.0079	.1173	4073	.0010	.0008	0068	8.59	.225
.203	2.88 (60.07)	.00	.27	.9931	.1194	3976	.0027	.0010	0086	8.32	.322
.203	2.89 (60.29)	.00	.27	1.0004	.1188	3986	.0031	.0016	0119	8.42	.422
.203	2.89 (60.29)	.00	.26	.9952	.1195	3964	.0018	.0013	0129	8.33	.513
	-	_									

RUN N	UMBER 92	LONGI	FUDINAL STAB	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DATA	•	TEST NU	MBER 198	
MACH	Q, KPA (PSF)	RETA+DEG	AL PHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	HZB
.204	2.90 (60.64)	.01	2.37	1.3605	.1173	5495	.0064	.0015	.0068	11.60	.018
.203	2.89 (60.44)	.01	2.36	1.3623	.1182	5509	.0036	.0004	.0084	11.53	.022
.203	2.88 (60.07)	.01	2.36	1.3516	.1232	-,5413	.0049	.0018	.0014	10.97	.073
•203	2.88 (60.15)	.01	2.34	1.3272	.1269	-,5226	.0025	.0011	.0012	10.46	.122
.203	2.89 (60.29)	.01	2.35	1.3282	.1284	5180	.0025	.0016	0046	10.34	.171
.203	2.89 (60.34)	.01	2.34	1.3096	.1305	5087	.0009	.0009	0060	10.03	.222
.203	2.89 (60.44)	.01	2.34	1.3007	.1330	5002	.0015	.0006	0076	9.78	.321
.203	2.89 (60+40)	.01	2.33	1.2880	.1343	4914	0006	.0010	0115	9.59	.419
.203	2.89 (60.33)	.01	2.35	1.3099	.1334	5023	.0005	.0012	0092	9.82	.559
RUN N	UMBER 93	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DATA		TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA, DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.203	2.90 (60.52)	.02	4.41	1.5958	.1423	6198	.0044	.0007	.0064	11.21	-071
.203	2.89 (60.39)	.02	4.40	1.5742	.1465	6018	.0020	.0008	-0008	10.74	-118
.203	2.87 (60.02)	.02	4.40	1.5644	.1494	5833	.0017	.0009	0015	10.47	.169
.203	2.88 (60.23)	.02	4.40	1.5496	.1528	5735	.0006	.0010	0040	10.14	.221
.203	2.88 (60.08)	.02	4.39	1.5455	.1545	5669	0016	.0008	0074	10.00	-317
.203	2.90 (60.51)	.02	4.41	1.5408	.1564	5623	0001	.0006	0089	9.85	418
.203	2.89 (60.43)	• 02	4.41	1.5461	.1577	5645	0016	.0012	0108	9.80	.604

RUN NUMBER 94		LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	RAL BODY	-AXIS DAT	A	TEST NUM	BER 198		
MACH	0,KP/	(PSF)	RETA, DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.203	2.89	(60.35)	.03	6.44	1,7957	.1716	6715	.0011	0000	.0050	10.46	.119
.203	2.88	(60.17)	.03	6.43	1.7743	.1762	6501	.0003	0004	.0053	10.07	.168
.202	2.87	(59.97)	.03	6.45	1.7759	.1785	6419	0004	0009	.0003	9,95	.217
.203	2.89	(60.32)	.03	6.46	1.7758	.1798	6296	0008	0003	0026	9.87	.317
.203	2.88	(60.22)	.03	6,46	1.7709	.1823	6225	0006	0000	0044	9.71	.419
.203	2.89	(60.43)	.03	6.44	1.7880	.1822	6283	0011	.0006	0057	9.81	.602
RUN N	IMBER	95	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0,KP/	(PSF)	RETADEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.203	2.90	(60.47)	02	-3.99	.0792	.1414	0009	0034	.0011	0201	.56	.423
.203	2.88	(60.05)	01	-1.82	.6000	.1152	2528	0027	.0014	0180	5.21	.469
.203	2.89	(60.33)	.00	.28	.9964	.1184	4054	0043	.0010	0163	8.41	.515
.203	2.89	(60.38)	.01	2,39	1.3158	.1330	5113	0038	.0009	0140	9.89	.560
.203	2.89	(60.42)	.02	4.43	1.5589	.1558	5737	0034	.0012	0113	10.00	.606
.203	2.89	(60.33)	.04	6.45	1.8023	.1818	6340	0053	.0002	0093	9.92	.651
.203	2.88	(60.19)	.05	8.54	2.0349	.2140	6909	0065	0003	0097	9.51	.692
.203	2.88	(60.12)	.07	10.62	2.2595	.2519	7386	0076	0009	0076	8.97	.685
.203	2.88	(60.25)	.08	12.59	2.4791	.2910	7706	0081	0006	0076	8.52	.686
.203	2.89	(60.27)	.09	14.63	2.6470	.3334	7795	0051	0008	0054	7.94	.687
.203	2.89	(60.29)	.09	16.65	2.7517	.3762	7577	.0001	0001	0072	7.31	.686
.203	2.89	(60.33)	.05	18.67	2.8155	.4247	7190	.0131	.0061	0092	6.63	.685
.203	2.89	(60.28)	04	20.65	2.8127	.5016	8000	.0101	.0059	.0142	5.61	.686
.203	2.89	(60.34)	12	22.63	2.8623	.5886	8715	.0222	.0158	.0154	4.86	.688

RUN N	IUMBER 96		LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL RODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	O+KPA (PSF)	RETA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.203	2.89 (6	0.42)	.00	-3.96	.0869	.1409	.0058	0074	.0011	0189	.62	.424
.203	2.88 (6	0.24)	.00	-1.85	.5539	.1168	2271	0083	.0020	0201	4.74	.469
.203	2.89 (6	0.30)	00	.30	.9846	.1176	3928	0075	.0015	0185	8.38	.515
.203	2.89 (6	0.31)	00	2.38	1.2837	.1335	4973	0082	.0009	0167	9.61	,561
.203	2.88 (6	0.11)	00	4.42	1.5373	.1557	5634	0090	.0010	0143	9.88	.606
.203	2.89 (6	0.40)	00	6.47	1.7851	.1813	6262	0102	.000Z	0134	9.85	.652
.203	2.89 (6	0.30)	.00	8,52	2.0034	.2141	6793	0115	0005	0136	9.36	.683
.203	2.88 (6	0.21)	.01	10.54	2.2203	.2510	-,7252	0124	0006	0139	8.84	.686
.203	2.88 (6	0.05)	.01	12.64	2.4580	.2911	-,7599	0121	0007	0135	8.44	.687
.203	2.89 (6	0.35)	.01	14.68	2.6273	.3342	-,7672	0097	0010	0125	7.86	.686
.203	2.90 (6	0.54)	.00	16.71	2.7354	.3773	7472	0033	0005	0123	7.25	.689
.203	2.89 (6	0.40)	05	18.66	2.7699	.4292	7215	.0169	.0079	0150	6.45	.686
.204	2.91 (6	0.68)	07	20.65	2.7757	.5031	8011	.0154	.0093	0014	5.52	.686
•203	2.89 (6	0+40)	-,13	22.60	2.8490	.5894	8837	.0266	.0192	0006	4.83	.689
RUN N			LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q,KPA (PSF)	BETA,DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.204	2.90 (6	0.61)	00	-3,99	.0401	.1475	.0227	0152	.0002	0189	.27	.423
.203	2.90 (6	0.55)	00	-1.86	.5251	.1179	1927	0249	.0010	0255	4.45	.468
.203	2.89 (6	0.39)	.00	.27	•9478	.1183	3698	0172	.0007	0182	8.01	.514
.203	2.89 (6	0.27)	.00	2.33	1.2400	.1339	4699	0195	0000	0186	9,26	.560
.203	2.88 (6	0.23)	.00	4.37	1.5044	•1544	-,5384	0180	.0003	0178	9.74	.605
.203	2.89 (6	0.36)	.01	6.44	1.7385	.1816	5919	0196	0005	0193	9.57	.651
.203	2,89 (6	0.37)	.01	8.51	1.9763	.2126	6564	0207	0017	0158	9.30	•698
.203	2.88 (6	0.24)	.02	10.54	2.1968	.2473	7026	0204	0017	0150	8.88	.685
.203	2.89 (6	0.39)	.03	12.63	2.4252	.2880	7349	0205	0025	0133	8.42	.684
.203	2.88 (6	0.07)	.03	14.69	2.5964	.3317	7419	0166	0025	0119	7.83	.684
.203	2.89 (6	0.32)	.02	16.71	2.7113	.3755	-,7284	0103	0051	0142	7.22	.685
.203	2.89 (6	0.37)	05	18.69	2.7418	.4267	-,6900	.0134	.0087	0183	6.43	.685
.203	2.89 (6	0.35)	05	20.67	2.7594	.5000	7862	.0085	.0074	0023	5,52	.686
.204	2.90 (6	0.60)	10	22.70	2.8292	.5925	8908	.0204	.0166	0030	4.78	.685

RUN N	IIMRER 98	LONGI	TUDINAL STAR	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	Α.	TEST NUM	BER 198	
масн	Q,KPA (PSF)	RFTA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	1/D	Ĥ/R
.203	2.89 (60.32)	00	-4.01	.0091	.1518	.0446	0205	0007	0243	.06	.423
.203	2.88 (60.19)	00	-1.88	•4506	.1244	-,1520	0294	0001	0245	3.62	.469
.204	2.90 (60.58)	.00	.27	.8944	.1216	3397	0253	.0001	0295	7.35	.515
.203	2.89 (60.46)	.01	2.30	1.2036	.1348	4467	0293	0013	0289	8,93	.560
.203	2.88 (60.25)	.03	4.38	1.4601	.1570	-,5138	0274	0014	0245	9,30	.606
.203	2.88 (60.19)	.04	6.40	1.6990	.181A	-,5712	0302	0024	0256	9,35	.651
.203	2.89 (60.28)	.06	8.49	1.9271	.2124	6265	0307	0036	0229	9,07	.685
.203	2.89 (60.35)	.08	10.50	2.1448	.2448	-,6744	0322	0039	0244	8,76	.685
.203	2.89 (60.34)	.10	12.62	2,3685	.2865	7067	0317	0046	0231	8.27	.684
.203	2.89 (60.30)	•11	14.60	2.5355	.3289	7187	0288	0055	0197	7.71	.685
.203	2.88 (60.21)	.11	16.68	2.6686	.3696	7088	0178	0032	0235	7.22	.685
.203	2.89 (60.29)	.05	18.62	2.6868	4251	6767	.0042	.0066	0278	6.32	.685
.203	2.89 (60.29)	00	20.64	2.6982	.4961	-,7578	.0024	.0064	0074	5.44	.685
.203	2.89 (60.35)	08	22.66	2.7729	•5924	9215	.0160	.0142	0170	4.68	.684
RUN N	UMBER 99	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	BETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.203	2.89 (60.44)	01	-3,95	.0071	.1526	.0579	0257	0008	0209	.05	.424
.203	2.89 (60.40)	-,01	-1.87	.4049	.1291	1226	0427	0007	0311	3.14	.469
.203	2.89 (60.45)	.00	.22	.8333	.1241	-,3066	0419	0017	0253	6.72	.514
.203	2.89 (60.46)	.01	2.31	1.1534	.1365	-,4134	0422	0023	0240	8.45	.560
.203	2.89 (60.26)	.03	4.40	1.4200	.1565	-,4876	0399	0026	0225	9.07	.606
.203	2.88 (60.24)	.05	6.41	1.6489	.1806	5442	0435	0046	0208	9.12	.652
.203	2.88 (60.11)	.06	8.46	1.8717	.2108	-,5999	0453	0062	-,0181	8.88	.685
.203	2.89 (60.45)	.09	10.52	2.1130	.2411	-,6522	0469	0070	0182	8,76	.684
.203	2.89 (60.30)	.11	12.57	2.3200	.2832	6835	0468	0080	0157	8.19	.684
.203	2.88 (60.23)	.12	14.62	2.5242	.3558	7131	0443	0094	0138	7.82	.684
.203	2.89 (60.42)	.13	16.6R	2.6551	.3662	7132	0372	0093	0137	7.25	.685
.203	2.89 (60.27)	.15	18.70	2.7803	.4171	-,7345	0337	0081	0155	6.67	.685
.203	2.88 (60.07)	.20	20.62	2.7259	.4958	8589	0254	0056	0512	5.50	.684
.203	2.90 (60.57)	.13	22.68	2.7606	.6016	8887	.0017	.0113	0312	4.59	.684

RUN NUMBER 100		LONGI	TUDINAL STAR	ILITY-AXI	S AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q,KPA (PSF)	BETA,DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.116	,96 (20.12)	02	-3.86	.5420	.1758	4394	.0001	.0012	0136	3.08	.424
.116	.96 (20.07)	01	-1.70	1.0296	.1824	-,5699	.0019	.0008	0082	5.65	.472
•116	.96 (20.06)	.00	.38	1.4172	.2031	6013	0057	.0006	0136	6.98	.519
. 116	.96 (20.04)	.01	2.42	1.6267	.2256	-,5764	0055	.0007	0122	7.21	.568
•116	, 96 (20 . 07)	.02	4.45	1.8408	.2482	5431	0062	.0005	0082	7.42	.615
•116	.96 (20.15)	.04	6.50	2.0191	.2739	4939	0076	0006	0071	7.37	.664
116	.96 (20.09)	.05	8,55	2.1939	.2983	-,4465	-,0097	0019	0072	7.35	.684
.116	.96 (20.07)	.06	10.57	2.3666	.3224	3939	0084	0012	0064	7.34	.684
.116	,96 (20.05)	.08	12.61	2.5084	.3573	3417	0094	0021	0057	7.02	.684
.116	.96 (20.02)	.08	14,65	2.6310	.3816	-,2657	0074	0029	0029	6.89	.685
•116	.96 (20.03)	.09	16.63	2.7079	.4072	1841	0053	0019	0041	6,65	.685
.116	.96 (20.04)	.10	18.65	2.7605	.4494	1079	0013	0011	0063	6.14	,684
•116	.96 (20.11)	.11	20.63	2.6963	.5069	0136	0029	0024	0089	5,32	.684
•116	.96 (20.04)	.12	22.62	2.6533	.5607	.0297	0017	0005	0151	4.73	.685
RUN NI	MRER 101	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q, KPA (PSF)	RETA.DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
•165	1.93 (40.32)	02	-3.84	.5843	.1759	4524	. 0035	.0007	0097	3.32	.424
.165	1.93 (40.31)	01	-1.71	1.0531	.1850	-,5811	0036	.0006	0100	5.69	.469
165	1.93 (40.28)	.00	.37	1.4020	.2047	-,6040	0055	.0008	0109	6.85	.515
.165	1.93 (40.23)	.01	2.45	1.6463	.2246	- 5839	0081	.0006	0088	7.33	.562
.165	1.92 (40.18)	.02	4.49	1.8427	.2475	5446	0089	0000	0059	7.45	.609
.165	1.93 (40.22)	.03	6,52	2.0330	.2710	-,4976	0111	0011	0015	7.50	.655
.165	1.92 (40.18)	.05	8,57	2.2034	.2981	4522	0112	0024	.0005	7.39	.685
.165	1.92 (40.17)	.06	10.63	2.3739	.3228	3962	0122	0028	.0014	7.35	.685
.165	1.92 (40.19)	.08	12.63	2.5303	.3538	-,3382	0121	0025	0001	7.15	.685
.165	1.92 (40.18)	.09	14.66	2.6529	.3858	2725	0089	0033	.0003	6.88	.685
.165	1.92 (40.12)	.10	16.65	2.7452	.4133	1954	0082	0031	.0012	6.64	.684
.165	1.92 (40.18)	.11	18.68	2.8270	.4551	1134	0041	0019	0009	6.21	.685
.165	1.93 (40.21)	.14	20.69	2.7170	5103	0186	0125	0062	0004	5.32	.685
.165	1.92 (40.08)	•17	22.59	2.5918	.5696	.0A39	0126	0075	0038	4.55	.684

RUN NUMRER 102		LONGII	TUDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	۵	TEST NUM	RER 198	
часн	O,KPA (PSF)	RFTA.DEG	ALPHA,DEG	CL	CD	Съж	CHH.	CYM	CSF	L/D	H/B
.203	2.89 (60.33)	02	-3.82	.6334	.1782	4899	0023	.0013	0117	3,56	.422
.203	2.88 (60.08)	01	-1.70	1.1417	.1886	6058	0062	.0010	0094	6.05	.465
.203	2.90 (60.47)	.00	.37	1.4043	.2033	6057	0091	.0004	0080	6,91	.509
.203	2.90 (60.47)	.01	2.44	1.6224	.2221	5795	0083	.0003	0050	7,31	.555
.203	2.89 (60.37)	.02	4.48	1.8232	.2437	5393	0109	0004	→ •0035	7.48	.601
.203	2.89 (60.3])	.04	6.52	2.0153	.2644	4881	0142	0019	.0006	7.62	.647
.203	2.89 (60.39)	.06	8.53	2.1725	.2920	4454	0166	0037	.0053	7.44	.685
.203	7.90 (60.53)	.07	10.59	2.3463	.3214	-,3943	0167	0034	.0021	7.30	.685
.203	2.89 (60.29)	.08	12.62	2,5153	.3521	3356	0136	0038	.0034	7.14	.684
.203	2.89 (60.34)	.10	14.64	2.6121	.3793	2679	0107	0043	.0042	6.89	.684
.203	2.89 (60.40)	.12	16.57	2.5192	.4065	2373	0096	0030	0040	6.20	.685
.203	2.90 (60.48)	.14	18.62	2.5396	.4660	2139	0123	0030	.0045	5.45	.685
.203	2.90 (60.49)	.18	20.65	2,5544	.5472	1858	0166	0088	0016	4.67	.685
.203	2.90 (60.49)	.10	22.66	2.5415	.6085	1179	.0002	.0001	0031	4.18	.685
RUN N	UMBER 103	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	EPAL BODY	-AXIS DAT	۵	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	RFTA,DEG	ALPHA,DEG	CL	CD	СРМ	CRM	Сүм	CSF	L/D	H/R
.203	2.90 (60.57)	00	-3.80	.7054	.1652	5281	.0048	.0003	0059	4.27	.422
.203	2.88 (60.20)	00	-1.68	1.1938	.1830	6370	. 0008	.0002	0076	6.52	.465
.203	7.89 (60.29)	.00	.41	1.5070	.1994	-,6432	.0002	.0011	0097	7,56	.509
.203	2.89 (60.31)	.00	2.47	1.7122	.2201	6121	0013	.0014	0099	7.78	•554
.203	2.89 (60.41)	.01	4.54	1.9100	2435	-,5667	0043	.0010	0094	7.84	.601
.203	2.89 (60.26)	.02	6.55	2.0811	.2706	-,5197	0065	.0001	0082	7.69	.646
.203	2.89 (60.43)	.03	8.61	2.2670	.2918	4601	0081	0012	0050	7,77	.684
.203	2.89 (60.43)	.04	11.65	2.5166	.3397	3826	0102	0014	0065	7.41	.685
.203	2.89 (60.32)	.05	12.64	2.5834	.3546	3504	0099	0021	0021	7.29	.685
.203	2.90 (60.47)	.05	14.65	2.6849	.3816	2725	0087	0027	0012	7.04	.685
.203	2.89 (60.30)	.10	16.68	2.6436	.4115	7266	0166	0076	.0128	6.42	.684
.203	2.88 (60.11)	.15	18.67	2.6785	.4470	1621	0155	0056	.0077	5.99	.685
.203	2.89 (60.37)	.14	20.60	2.6105	.5276	1077	0037	0017	.0043	4,95	.686
.203	2.90 (60.48)	.06	22.63	2,5857	.5927	0590	.0118	.0102	0025	4.36	.685

RUN NI	MAER 104	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	4	TEST NUM	BER 198	
масн	Q.KPA (PSF)	RETA, DEG	ALPHA,DEG	CL	CD	СРМ	CRM	СҮМ	CSF	L/D	H/B
.203	2.89 (60.45)	01	-3.94	.2134	.2746	.6501	.0070	.0005	0088	.78	.415
.203	2.90 (60.51)	00	-1.77	.7877	.2700	•4961	.0034	.0010	0102	2,92	•457
•503	2.89 (60.38)	00	.26	1.0818	.2678	•4329	.0048	.0011	0091	4.04	,501
•504	2.91 (60.70)	.01	2.35	1.3328	.2692	.4048	.0019	.0015	0090	4.95	•547
.203	2.90 (60.56)	.01	4.42	1.5402	.2776	•3925	0017	.0014	0088	5.55	•594
.203	2.89 (60.44)	.03	6.45	1.7530	.2854	.3769	0054	.0013	0123	6.14	•640
.203	2.89 (60.45)	.05	8.52	1.9440	.2974	.3370	0087	.0002	0066	6.54	.685
.203	2.89 (60.30)	.05	10.53	2.1453	.3116	.3028	0092	.0000	0054	6.89	,685
.203	2.88 (60.18)	.07	12.54	2.3124	.3389	.2589	0097	0027	.0010	6.82	,685
.203	2.90 (60.48)	.08	14.58	2.4681	.3654	.2187	0090	0026	0012	6.76	•685
.203	2.89 (60.45)	.08	16.60	2.5236	.3987	.1818	0050	0003	0035	6.33	,685
.203	2.88 (60.23)	•11	18.68	2.5781	.4402	.0659	0093	0031	.0009	5.86	.685
.204	2.91 (60.76)	.10	20.67	2.5302	.5226	.0121	0034	0003	.0038	4.84	.685
.203	2.89 (60.37)	.04	22.50	2.5082	.5958	1036	.0103	.0060	0115	4.21	.685
RUN NI	MAER 105	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q.KPA (PSF)	RETA, DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/R
.203	2.90 (60.52)	00	-3.94	.2443	2322	.4953	•007Z	.0005	0092	1.05	.415
.203	2.88 (60.14)	00	-1.75	.8530	.2270	.2969	.0033	.0012	0100	3.76	.458
.203	2.90 (60.52)	00	.29	1.1437	.2279	.2282	.0040	.0011	0100	5.02	.502
.204	2.90 (60.66)	.00	2.37	1.4059	.2279	.1814	.0007	.0037	0130	6.17	.549
.203	2.89 (60.26)	.01	4.43	1.6273	.2400	.1185	0015	.0009	0090	6.78	•596
.203	2.88 (60.09)	• 02	6.45	1.8402	.2599	.0571	0044	0001	0045	7.08	.642
.203	2.88 (60.07)	.03	8.50	2.0306	.2845	0034	0074	0013	0012	7.14	.684
.204	2.90 (60.58)	.04	10.58	2.7397	.3108	0368	0090	0014	0034	7.21	.684
.203	2.89 (60.43)	.05	12.62	2.4123	.3410	0625	0105	0021	0023	7.07	.685
.203	2.89 (60.39)	.05	14.66	2.5360	.3757	1005	0086	0020	0044	6.75	.683
.203	2.89 (60.36)	.05	16.63	2.5834	.4069	1685	0020	0004	0159	6.35	,685
.203	2.89 (60.29)	.05	18.62	2.6218	.4679	2747	.0014	.0020	0235	5.60	. 685
.203	2.87 (60.02)	.11	20.61	2.6254	.5511	3782	0169	0089	0051	4.76	.684
.203	2.89 (60.39)	05	22.61	2.5589	.6150	2944	.0166	.0090	0070	4.16	.684

49

	HIMBER 106	LONGIT	UDINAL STAR	ILITY-AXIS	AND LATE	ERAL BODY	-AXIS DAT	5	TEST NUM	RER 198	
масн	Q.KPA (PSF)	RFTA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/R
.203	2.90 (60.47)	.01	-3.87	.3838	.1845	,2257	.0065	.0006	0133	2.08	.418
.203	2.89 (60.35)	.00	-1.75	.9565	.1906	.0120	.0034	.0011	0096	5.02	.459
.203	2.88 (60.17)	00	.35	1,2730	.2029	-,0874	.0040	.0011	0093	6.27	.506
.203	2.89 (60.40)	00	2.36	1.4970	.2212	-,1375	0010	.0010	0096	6.77	.551
.203	2.89 (60.28)	00	4.43	1.7407	.2394	1875	0025	.0009	0068	7.27	.597
.203	2.88 (60.23)	.00	6.49	1.9514	·5648	2399	0070	0005	0055	7.37	.644
.203	2.90 (60.50)	.01	8.57	2.1538	.2922	-,2951	0087	0008	0045	7.37	.685
.203	2.89 (60.35)	.01	10.59	2.3505	.3210	3277	0115	0016	0048	7.32	.685
.203	2.89 (60.26)	.02	12.61	2.5195	.3571	-,3370	0127	→. 0019	0034	7.06	.685
.203	2.90 (60.54)	.02	14.63	2.6559	•388R	-,3534	0109	0023	0014	6.83	,685
.203	2.89 (60.40)	.03	16.67	2.7390	.4279	-,3689	0126	0027	0005	6.40	.684
-203	2.88 (60.24)	- 08	18.68	2.7744	.4725	3888	0209	0063	.0111	5.87	.685
•503	2.90 (60.51)	•14	20.66	2.7333	.5537	3980	+.0117	0015	•0024	4.94	.685
RUN I	11MBER 107	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	4	TEST NUM	8ER 198	
масн	D, KPA (PSF)	BETA.DEG	AL PHA, DEG	CL	CD	СРМ	CRM	Сүм	CSF	L/D	H/9
.203	2,90 (60,50)	• 01	-3.89	.4594	.1768	0727	.0099	.0007	0101	2.60	.419
.203	2.89 (60.43)	.00	-1.72	1.0418	.1866	-,2780	.0013	.0012	0135	5.58	•463
.203	2.89 (60+45)	00	.37	1.3723	.2004	3769	.0023	.0012	0137	6.85	.508
.203	2.89 (60.29)	00	2.42	1.6034	.2211	-,4268	.0001	.0017	0124	7.25	.554
.203	2.89 (60.42)	00	4.47	1.8251	.2455	-,4688	0034	.0017	0134	7.43	•599
.203	2.89 (60.33)	.00	6.54	2.0580	.2728	5146	0060	.0014	0147	7.54	.646
.203	2.89 (60.29)	.01	8.61	2.2835	.3016	-,5634	0087	.0004	0122	7.57	.685
.203	2 98 (60.25)	.01	10.60	2.4682	.3351	-,6055	0102	.0000	0125	7.37	.684
.203				2 (204	3744	6213	0104	0002	0134	7.02	. 685
•503	2.88 (60.17)	.02	12.63	2.0270	.3140						
	2.88 (60.17) 2.89 (60.40)	.02 00	12.63 14.59	2,6473	•4106	6769	.0051	.0040	0368	6.45	,685
•503	2.88 (60.17) 2.89 (60.40) 2.90 (60.51)	.02 00 02	12.63 14.59 16.71	2.6473 2.7149	•4106 •4723	6769 6858	.0051	.0040 .0050	0368 0532	6.45 5.75	.685
•203 •203	2.88 (60.17) 2.89 (60.40) 2.90 (60.51) 2.90 (60.50)	.02 00 02 01	12.63 14.59 16.71 18.68	2.6296 2.6473 2.7149 2.8296	•4106 •4723 •5251	6769 6858 6929	.0051 .0139 .0129	.0040 .0050 .0038	0368 0532 0578	6.45 5.75 5.39	.685 .684

RUN NUMBER 108		LONGII	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	D,KPA (PSF)	BETA.DEG	ALPHA.DEG	CL	cn	СРМ	CRM	CYM	CSF	L/D	H/B
.204	2.90 (60.58)	01	-3.86	.5708	.1755	3530	.0053	.0013	0120	3.25	.421
.203	2.88 (60.23)	00	-1.68	1.1669	.1869	-,5622	.0020	.0016	0123	6.24	,464
.203	2.89 (60.26)	00	.37	1.4544	.2062	6541	.0022	.0014	0120	7.05	,508
.203	2.89 (60.39)	.01	2.48	1.7057	.2288	7118	0027	.0016	→. 0126	7.46	.555
.203	2.89 (60.36)	.01	4.52	1,9280	.2570	7572	0052	.0017	0137	7.50	.601
.203	2.89 (60.40)	.02	6.61	2.1652	.2857	8035	0070	.0012	0126	7.58	.648
.203	2.89 (60.38)	.03	8.61	2,3707	.3187	8475	0082	.0007	0107	7.44	.684
.203	2.89 (60.29)	.04	10.63	2,5579	.3565	-,8881	0114	0008	0102	7.18	.685
.203	2.88 (60.17)	.05	12.70	2.7259	,3952	-,8950	0100	.0004	0130	6.90	.684
203	2.89 (60.44)	.06	14.71	2.8440	.4318	8762	0077	.0004	0190	6.59	.685
.203	2-89 (60+40)	- 02	16.60	2.7568	.4788	8871	.0155	.0090	0518	5.76	.684
.203	2.90 (60.51)	.03	18.72	2.8980	.5540	8975	.0117	.0067	0589	5,23	.685
.203	2.89 (60.39)	.15	20.67	2.8368	.6231	8225	0097	0090	0425	4.55	.685
RUN N	UMBER 109	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL RODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA,DEG	ALPHA,DEG	CL	CD	Срм	CRM	Сүм	CSF	L/D	H/B
•503	2.90 (60.47)	01	-3.83	.6254	.1786	5072	.0049	.0018	0189	3.50	.422
.203	2.88 (60.18)	01	-1.70	1.1990	.1920	-,7132	.0048	.0021	0143	6.24	.464
.203	2.89 (60.43)	.00	.41	1.5053	.2131	8097	.0034	.0023	0188	7.06	.510
.204	2.90 (60.62)	.01	2.45	1.7509	.2373	-,8715	.0008	.0026	0185	7.38	.555
203	2.90 (60.49)	.02	4.51	1.9781	,2662	9172	0018	.0029	0197	7.43	.602
203	2.89 (60.44)	.03	6.58	2.1974	.2996	-,9612	0030	.0029	0197	7.33	.649
203	2.90 (60.48)	.04	8.64	2.4099	.3323	9981	0051	.0017	0160	7.25	.685
.203	2.89 (60.42)	.05	10.63	2.6017	.3670	-1.0337	0058	.0023	0182	7.09	.685
203	2.89 (60.39)	.06	12.69	2.7613	.4142	-1.0437	0084	.0009	0166	6.67	.685
203	2.90 (60.52)	.07	14.73	2.8802	.4469	-1.0301	0034	.0012	0556	6.45	.685
.203	2.89 (60.40)	.04	16.72	2.8229	.5114	-1.0202	.014B	.0091	0589	5.52	•684
.203	2.89 (60.28)	.06	18.75	2,9299	.5710	-1.0148	.0132	.0075	0623	5.13	.685

PUN NUMBER 110		LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	RFR 198	
масн	Q.KPA (PSF)	RETAINEG	ΔLPHA ,DEG	CL	CD	CPN	CRM	Сүн	CSF	L/D	H/B
.203	2.90 (60.54)	01	-3.79	,7885	.1961	-,9932	.0034	.0017	0156	4.02	.425
.203	2.89 (60.30)	01	-1.67	1.3448	.2156	-1,1873	.0004	.0012	0148	6.24	.467
• 203	2.89 (60.34)	.00	.46	1.6581	.2415	-1,2870	0006	.0006	0146	6.87	.513
.203	2.89 (60.37)	.01	2.49	1.8939	.2693	-1,3325	0018	.0004	0115	7.03	,558
.203	2.88 (60.23)	.01	4.58	2.1206	.3033	-1,3672	0035	.0006	0123	6.99	.605
.203	2.88 (60.25)	.02	6.62	2.3297	.3447	-1.3716	0059	.0011	0124	6.76	.652
.204	2.90 (60.64)	.04	8.62	2,5159	.3838	-1,3683	0088	.0003	0116	6.56	.685
.203	2.90 (60.47)	.05	10.69	2.6739	.4303	-1.3467	0087	.0017	0182	6,21	.685
.204	2.90 (60.58)	.06	12.70	2,8122	.4708	-1.3244	0071	.0022	0220	5,97	.685
.203	2.89 (60.46)	00	14.57	2.7105	.5128	-1,2822	.0213	.0121	0565	5.29	.686
.204	2.90 (60.61)	.00	16.72	2,8584	.5662	-1.1976	.0137	.0093	0585	5.05	.685
.204	2.90 (60.5A)	.07	18.7?	2,9701	.6225	-1,1592	.0092	.0091	0610	4.77	.685
	MBER 111	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	۵	TEST NUM	BER 198	
масн	Q+KPA (PSF)	RETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	Сүм	CSF	L/Ð	н/в
.203	2.90 (60.55)	-10.00	-3.89	.5046	.1454	2940	.0031	0356	.2633	3.47	.420
.203	2.89 (60.40)	-9.99	-1.75	1.0194	.1521	3549	.0273	0281	.2222	6.70	463
.203	2.88 (60.15)	-10.00	.35	1.3683	.1711	4139	.0366	-,0258	.2094	8.00	.508
.203	2.89 (60.39)	-10.01	2.40	1.6069	.1900	4576	.0369	0242	.2040	8.46	.553
.203	2,89 (60.38)	-10.02	4.49	1.8338	.2145	- 4975	.0382	0226	.1989	8.55	.600
.203	2.89 (60.37)	-10.03	6.54	2,0396	.2430	5452	.0376	0226	1988	8.40	.647
.203	2.90 (60.49)	-10.04	8,62	2.2655	.2769	- 5944	.0400	0231	.2019	8.18	.685
.203	2.90 (60.53)	-10.06	10.60	2.4437	.3102	6274	.0416	0230	.2012	7.88	.685
.203	2.89 (60.35)	-10.07	12.65	2,6065	.3488	-,6525	.0444	0220	.1986	7.47	.685
.203	2.89 (60.33)	-10.09	14.67	2.7551	.3892	6538	.0486	0230	1986	7.08	.684
.203	2.89 (60.43)	-10.11	16.66	2.7299	.4431	6120	.0570	0228	.1832	6.16	.685
.203	2.88 (60.25)	-10.23	18,65	2.7239	.4890	5047	.0645	0215	.1989	5.57	.685

RUN NU	148ER 112	LUNGII	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	0.KPA (PSF)	BETA.DEG	ALPHA.OFG	CL	CD	CPM	CBM	CYM	CSF	L/D	H/B
.203	2,90 (60.53)	-4.99	-3.90	4 519	.1680	1064	.0054	0185	.1390	2.69	.420
.203	2.89 (60.32)	-5.00	-1.72	1.0530	.1780	2761	+0141	0130	.1117	5.92	.463
.203	2,88 (60.07)	-5.01	• 34	1,3748	.1933	3645	.0192	0118	.1066	7.11	.507
.203	2.89 (60.37)	-5.02	2.44	1.5915	•5115	4087	.0138	0112	.1004	7.54	.554
.203	2.89 (60.27)	-5.04	4.51	1.8155	.2310	4544	.0146	0104	.0981	7.86	.601
.203	2,88 (60,22)	-5.05	6.56	2.0410	.2616	5001	.0155	0097	.0947	7.80	.647
.203	2.88 (60.20)	-5,06	8.63	2.2709	.2922	5413	.0147	0113	.0965	7.77	.684
.203	2,88 (60.25)	-5.07	10.62	2,4717	.3264	-,5791	.0176	0121	.0986	7.57	.685
.203	2.88 (60.19)	-5.08	12.67	2,6539	.3648	6032	.0191	0129	.0980	7.27	.684
.203	2.88 (60.24)	-5.09	14.64	2.7727	.4009	6116	.0189	0139	.0976	6.92	.685
.203	2.89 (60.38)	-5,13	16,69	2,7460	.4606	-,6345	.0337	0119	.0771	5.96	.685
• 203	2.89 (60.32)	-5-13	18.68	2.8159	.5132	6272	.0306	0155	.0773	5.49	.685
RUN NU	MBER 113	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	EPAL BODY	-AXIS DAT.	A	TEST NUM	AER 198	
масн	Q,KPA (PSF)	PETA.DFG	ALPHA.DEG	CL	CD	CPM	CRM	Сүм	CSF	L/D	H/B
.203	2,90 (60.55)	.02	-3.86	.4842	.1760	0490	.0047	.0012	0021	2.75	.418
.203	2.90 (60.50)	.01	-1.72	1.0345	.1867	-,2400	.0007	.0009	0029	5.54	.462
.203	2.89 (60.36)	.00	• 35	1.3605	.2007	3366	.0021	.0015	0046	6.78	.506
.203	2,88 (60.21)	01	2.44	1.6173	•5501	3943	0013	.0017	0049	7.35	,553
.203	2,88 (60.16)	01	4.47	1.8461	•2422	4377	0037	.0016	0040	7.62	.599
.203	2.88 (60.22)	02	6.52	2.0592	.2711	-,4806	0067	.0016	0075	7.60	.645
.203	2.89 (60.32)	02	8.61	2.2727	.3026	-,5268	0089	.0004	0046	7.51	.685
.203	2.89 (60.42)	02	10.61	2.4702	.3346	-,5688	0114	→ •0006	0040	7.38	.685
.203	2.89 (60.43)	02	12.68	2.6378	.3723	-,5843	0109	.0000	0052	7.08	.685
.203	2.89 (60.41)	02	14.70	2.7826	.4052	5690	0095	0017	0046	6.87	.684
.203	2.89 (60.34)	02	16.68	2.8745	.4450	5593	0081	0018	0126	6.46	.685
.203	2.90 (60.50)	06	18.77	2,8507	.5156	6476	.0079	.0038	~.0440	5.53	.685

51

.

PUN N	U48ER 114	LONGIT	UDINAL STAR	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DATA		TEST NUM	RER 198	
масн	O,KPA (PSF)	BETA, DEG	ALPHA,DEG	CL	CD	СРМ	Cem	Сүм	CSF	L/D	H/A
.204	2.92 (6).02)	5.01	-3.87	.4750	.1663	0701	0022	.0169	1223	2.86	.419
.203	2.89 (60.46)	5.00	-1.79	1.0033	.1762	2726	0201	.0141	1139	5.69	.461
.203	2.90 (60.55)	5.00	.34	1.3420	.1914	3672	0218	.0134	1078	7.01	.507
.203	2.90 (60.49)	5.00	2.41	1.5809	.2104	4196	0257	.0127	1036	7,51	.553
.204	2.90 (60.61)	5.01	4.49	1.8059	.2339	4652	0285	.0129	1084	7.72	.600
.203	2.90 (60.57)	5.01	6.53	2.0394	.2617	-,5119	0313	•0131	1105	7.79	.646
.203	2.90 (60.52)	5.02	8,60	2.2624	.2920	5552	0337	.0131	1139	7,75	.684
.203	2.90 (60.48)	5.03	10.62	2.4561	.3291	5916	0367	.0122	1148	7.46	.685
.203	2.89 (60.36)	5.04	12,63	2.6420	.3674	6112	0356	.0129	1188	7.19	.684
.203	2.89 (60.35)	5.05	14.70	2.7968	.4047	6121	0336	.0147	1238	6.91	.684
.203	2.88 (60.23)	5.05	16.68	2.8790	.4443	6061	0300	.0164	-,1293	6.48	.685
•203	2.88 (60.18)	5.15	18,66	2.8425	.4878	6173	0372	.0104	1292	5.83	.684
RUN N	UMBER 115	LONGIT	UDINAL STAB	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DATA		TEST NUM	9ER 198	
масн	Q.KPA (PSF)	RETA DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/я
.199	2.77 (57.90)	.00	1.05	1.5214	.1715	 4333	.0046	.0021	.0079	8.87	.019
•199	2.77 (57.84)	.00	1.06	1.5111	.1747	4264	.0024	•0050	.0073	8,65	.024
.199	2.77 (57.79)	.00	1.05	1.4956	.1872	4052	.0020	.0023	.0025	7.99	.074
.198	2.76 (57.60)	.00	1,05	1.4813	.1935	-,3884	0017	.0024	0034	7.66	.123
.198	2.74 (57.31)	.00	1.04	1.4725	.1979	3799	0023	.0013	0036	7.44	.171
.199	2.77 (57.90)	.00	1.05	1.4753	.2012	-,3736	0006	.0014	0091	7.33	•552
.199	2.78 (57.99)	.00	1.04	1.4479	.2058	-,3584	0014	.0014	0136	7.03	.321
.199	2.78 (58.01)	01	1.06	1.4495	.2078	- .3555	0013	.0011	0152	6.98	.422
.199	2.78 (58.03)	01	1.06	1.4520	.2084	-,3577	0004	.0019	0143	6.97	.523

PUN N	UMBER 116	LONGII	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL RODY	-AXIS DATA		TEST NUM	BER 198	
масн	Q+KPA (PSF)	RETADEG	ALPHA,DEG	CL	CD	Сьн	CRM	Сүм	CSF	L/D	H/ņ
.200	2.80 (58.55)	01	2,33	1.6469	.1793	-,4751	.0014	.0017	.0061	9.19	.018
.200	2.80 (58.49)	01	2,35	1.6523	.1808	4771	.0026	.0009	.0104	9.14	•055
.200	2.79 (58.33)	00	2.35	1.6434	.1950	4453	0018	.0011	.0028	8.43	.073
.199	2.79 (58.18)	01	2,35	1.6252	.2039	4221	.0006	.0017	00SS	7.97	.122
•199	2.77 (57.81)	00	2.34	1.6182	.2089	4092	0020	•0020	0043	7.75	.171
•198	2,75 (57.40)	00	2.34	1.6098	.2117	3984	0015	.0017	0096	7.60	.223
.198	2.74 (57.22)	00	2,33	1.5915	.2173	-,3842	0016	.0014	0110	7.32	.321
.197	2.72 (56.90)	~. 00	2,33	1.5986	.2178	3797	0011	.0015	0123	7.34	.420
•198	2.74 (57.19)	00	2,34	1.5927	.2217	3851	0024	.0016	0130	7.18	•552
RUN N	UMBER 117	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DATA		TEST NUM	BER 198	
MACH	Q+KPA (PSF)	RETA.DEG	ALPHA,DEG	CL	CD	Срм	CRM	CYM	CSF	L/D	н/в
.202	2.85 (59.62)	.00	4,46	1.8633	.2136	-,5143	0002	.0010	.0012	8.72	.070
.202	2.85 (59.42)	.00	4,47	1.8600	.2225	4855	0015	.0016	0017	8.36	.119
.201	2.84 (59.22)	.00	4.47	1.8439	.2303	-,4651	0023	.0017	0082	8.01	.168
.199	2.78 (58.17)	.00	4.46	1.8372	.2342	4513	0013	.0015	0077	7.85	.221
.198	2.76 (57.64)	.00	4.43	1,8053	,2417	-,4317	-,0038	.0009	0108	7.47	.318
.198	2.75 (57.52)	.00	4,45	1.8070	.2440	4206	0040	.001S	0140	7.41	.418
.199	2,78 (58,05)	.00	4.48	1.8283	.2468	-,4298	0034	.0016	0126	7.4]	.599

RUN N	UMBER 118	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA,DEG	ALPHA, DFG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.201	2.84 (59.31)	.01	6.51	2.0599	. 2435	- 5359	0013	- 0010	- 0022	0 44	
.199	2.78 (58.05)	.01	6.49	2.0411	2547	5073	0018	.0013	0062	8 01	140
.198	2.76 (57.65)	.01	6.49	2.0344	2601	- 4945		.0005	- 0002	7 83	.109
.198	2.75 (57.47)	.01	6.49	2.0280	2455	- 4770	- 0050		0085	1.02	•210
.199	2.78 (58.01)	.01	6 50	2 0210	.2000	- 4677		.0002	0111	7.04	•317
199	2.78 (58.01)	.01	6 54	2.0710	.2710	+033	0000	.0002	0130	7.444	.419
••••	2.00 (38001)	.01	0.54	2.0430	.2134	/12	0000	.0008	0129	7.48	•602
RUN N	UMBER 119	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
MACH	G.KPA (PSF)	BETA, DEG	AL PHA, DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в
.203	2.90 (60.51)	02	-3.86	4384	.1872	- 0078	- 0174	- 0010	- 0103	2 24	410
.203	2.88 (60.23)	01	-1.73	.9989	1958	- 1805		- 0016	- 0300	2+34 E 10	.419
.203	2.88 (60.25)	- 00	34	1.3082	2114	- 2744	- 0200	- 0010	0209	5.10	.402
.203	2.88 (60.24)	.01	2.40	1.5454	2305	- 2224	- 0244	0028	0224	0.18	.507
-203	2.89 (60.30)	.03	A 47	1 7799	2533	- 3717	0200	0034	0219	0.70	.553
203	2.88 (60.24)	.05	6 6 1	1.0004	.2533	3/1/	0207	0032	0224	7.03	.599
. 203	2 80 (60.40)	• • • •	0.51	1.9900	.2010	+117	0285	0049	0190	7.07	.645
203		.08	0.59	2.2098	.3085	4520	0295	0065	0182	7.16	.685
-203		.04	10.59	2.3930	•3412	4896	0299	0065	0162	7.01	.685
•203	2.88 (60.20)	.10	12.63	2.5778	.3767	5116	0317	0076	0141	6.84	.685
•203	2.89 (60.41)	•11	14.65	2.7229	.4097	4994	0271	0079	0148	6.65	.685
•203	2.89 (60.30)	•11	16.67	2,7901	.4466	4639	0161	0055	0216	6.25	.685
•203	2.89 (60.68)	•09	18.73	2.8675	•4950	4406	0068	0009	-,0233	5,79	.685
	WRER 120	LONGIT									
	O-KPA (PSE)	LUNGI,	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	Α	TEST NUM	BER 198	
масн	Q,KPA (PSF)	RETADEG	ALPHA, DEG	CL	AND LAT	CPM	-AXIS DATA CRM	CYM	TEST NUMI CSF	BER 198 L/D	H/8
MACH	Q+KPA (PSF) 2.89 (60.46)	RETA.DEG	ALPHA.DEG	CL	AND LAT	ERAL BODY CPM 0093	-AXIS DAT CRM 0171	CYM 0001	TEST NUM CSF 0202	BER 198 L/D 2.42	H/8 •419
MACH •203 •203	Q+KPA (PSF) 2.89 (60.46) 2.88 (60.24)	RETA.DEG 02 01	ALPHA, DEG -3.88 -1.73	CL .4443 1.0073	AND LATO CD .1833 .1915	CPM 0093 2012	-AXIS DAT CRM 0171 0155	CYM 0001 0002	TEST NUM CSF 0202 0219	BER 198 L/D 2.42 5.26	H/8 •419 •462
MACH •203 •203 •203	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39)	BETA.DEG 02 01 .00	ALPHA.DEG -3.88 -1.73 .37	CL .4443 1.0073 1.3215	AND LATO CD .1833 .1915 .2070	CPM 0093 2012 2929	-AXIS DAT CRM 0171 0155 0172	A CYM 0001 0002 0012	TEST NUM CSF 0202 0219 0214	BER 198 L/D 2.42 5.26 6.38	H/8 •419 •462 •507
MACH •203 •203 •203	Q+KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.89 (60.39)	BETA, DEG 02 01 .00 .01	ALPHA, DEG -3.88 -1.73 .37 2.44	CL .4443 1.0073 1.3215 1.5643	AND LAT CD .1833 .1915 .2070 .2265	CPM 0093 2012 2929 3447	-AXIS DAT CRM 0171 0155 0172 0184	CYM 0001 0002 0012 0007	TEST NUM CSF 0202 0219 0214 0210	BER 198 L/D 2.42 5.26 6.38 6.91	H/8 •419 •462 •507 •554
MACH •203 •203 •203 •203 •204	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.89 (60.40) 2.90 (60.61)	BETA.DEG 02 01 .00 .01 .03	ALPHA.DEG -3.88 -1.73 .37 2.44 4.44	CL .4443 1.0073 1.3215 1.5643 1.7774	AND LAT CD .1833 .1915 .2070 .2265 .2514	CPM 0093 2012 2929 3447 3909	-AXIS DAT CRM 0171 0155 0172 0184 0221	CYM 0001 0002 0012 0007 0014	TEST NUM CSF 0202 0219 0214 0210 0199	BER 198 L/D 2.42 5.26 6.38 6.91 7.07	H/8 •419 •462 •507 •554 •599
MACH • 203 • 203 • 203 • 203 • 203 • 204 • 203	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.89 (60.63) 2.90 (60.61) 2.90 (60.53)	RETA.DEG 02 01 .00 .01 .03 .04	ALPHA, DEG -3.88 -1.73 .37 2.44 4.44 6.51	LITY-AXIS CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747	CPM 0093 2012 2929 3447 3909 4326	-AXIS DAT CRM 0171 0155 0172 0184 0221 0226	CYM 0001 0002 0012 0014 0021	TEST NUM CSF 0202 0219 0214 0210 0199 0207	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34	H/8 •419 •462 •507 •554 •599
MACH • 203 • 203 • 203 • 203 • 204 • 203 • 203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.24) 2.89 (60.39) 2.90 (60.61) 2.90 (60.453) 2.90 (60.45)	EDNOI PETA.DEG 02 01 .00 .01 .03 .04 .06	ALPHA.DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57	LITY-AXIS CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067	CPM 0093 2012 2929 3447 3909 4326 4718	-AXIS DAT CRM 0171 0155 0172 0184 0226 0216	CYM 0001 0002 0012 0014 0021 0029	TEST NUM CSF 0202 0219 0214 0210 0199 0207 0190	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24	H/8 •419 •462 •507 •554 •599 •684
MACH • 203 • 203 • 203 • 203 • 203 • 203 • 203 • 203 • 203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.24) 2.89 (60.39) 2.90 (60.61) 2.90 (60.53) 2.90 (60.449) 2.89 (60.449)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07	ALPHA, DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61	LITY-AXIS CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3351	CPM 0093 2012 2929 3447 3909 4326 4718 5130	-AXIS DAT CRM 0171 0155 0172 0184 0221 0226 0217	A 0001 0002 0012 0014 0021 0035	TEST NUM CSF 0202 0219 0214 0210 0199 0207 0190 0160	8ER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22	H/B .419 .462 .507 .554 .599 .645 .684
MACH • 203 • 203 • 203 • 203 • 203 • 203 • 203 • 203 • 203 • 203	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.90 (60.53) 2.90 (60.49) 2.90 (60.49) 2.99 (60.44) 2.99 (60.41)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09	ALPHA.DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61 12.67	LLITY-AXIS CL .4443 1.0073 1.3215 1.5643 1.774 2.0171 2.2195 2.4187 2.5980	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3734	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5350	-AXIS DAT. CRM 0171 0155 0172 0184 0221 0216 0217 0244	A 0001 0002 0012 0007 0014 0021 0029 0035 0040	TEST NUM CSF 0219 0214 0210 0210 0199 0207 0190 0160	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22 6.96	H/8 .419 .462 .507 .554 .685 .684 .685
MACH • 203 • 203 • 203 • 203 • 203 • 203 • 203 • 203 • 203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.39) 2.89 (60.39) 2.90 (60.61) 2.90 (60.45) 2.90 (60.44) 2.89 (60.44) 2.89 (60.51) 2.89 (60.36)	EDNG1, RETA, DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .10	ALPHA, DEG -3.88 -1.73 2.44 4.44 6.51 8.57 10.61 12.67 14.67	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3351 .3734 .4059	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5350	-AXIS DAT. CRM 0171 0155 0172 0184 0221 0226 0216 0217 0244 02190	A 0001 0002 0012 0007 0014 0021 0029 0040 0040	TEST NUM CSF 0202 0219 0214 0210 0199 0207 0190 0160 0162	EER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22 6.96 4.75	H/8 .419 .462 .554 .599 .645 .685 .685
MACH • 203 • 203	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.90 (60.51) 2.90 (60.49) 2.89 (60.44) 2.89 (60.451) 2.89 (60.31) 2.89 (60.31)	RETA.DEG 02 01 .00 .03 .04 .06 .07 .09 .10 .09	ALPHA.DEG -3.88 -1.73 37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3351 .3734 .4059 .4449	CPM 0093 2012 2929 3447 4326 4718 5130 5350 5196	-AXIS DAT. CRM 0171 0155 0172 0184 0226 0216 0217 0244 0190 0078	A 0001 0002 0012 0007 0014 0021 0029 0035 0040 0047 0026	TEST NUM CSF 0202 0219 0210 0210 0199 0207 0190 0190 0160 0152 0147 0147 0147	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22 6.96 6.75 6.75	H/8 .419 .462 .507 .554 .599 .645 .685 .685 .685
MACH • 203 • 203	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.90 (60.51) 2.90 (60.51) 2.90 (60.51) 2.89 (60.36) 2.89 (60.31) 2.89 (60.31) 2.90 (60.55)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .10 .09 .06	ALPHA.DEG -3.88 -1.73 37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.8047 2.8771	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3351 .3734 .4059 .44889	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5350 5196 4846 4553	-AXIS DAT. CRM 0171 0155 0172 0184 0221 0226 0216 0217 0244 0190 0078 .0018	A 0001 0002 0012 0007 0014 0029 0025 0040 0047 0028	TEST NUM CSF 0202 0214 0214 0210 0199 0207 0190 0160 0152 0147 0206	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22 6.75 6.30 5.89	H/8 .419 .507 .554 .599 .645 .685 .685 .685 .685
MACH • 203 • 203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.24) 2.89 (60.39) 2.90 (60.53) 2.90 (60.53) 2.90 (60.44) 2.89 (60.36) 2.89 (60.31) 2.89 (60.55) MBER 121	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .10 .09 .06	ALPHA, DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.8771	AND LATT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3351 .3734 .4059 .4449 .4889	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5156 4846 4553	-AXIS DAT. CRM 0171 0155 0172 0184 0221 0226 0216 0217 0244 0190 0078 .0018	CYM 0001 0002 0012 0014 0021 0029 0035 0040 0047 0026 .0018	TEST NUM CSF 0202 0210 0210 0190 0190 0152 0152 0157 0208 TEST NUM	EER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22 6.96 6.75 6.30 5.89	H/8 .419 .462 .507 .5599 .645 .685 .685 .685 .685 .685
MACH .203	Q.KPA (PSF) 2.89 (60.46) 2.89 (60.24) 2.89 (60.39) 2.90 (60.53) 2.90 (60.53) 2.90 (60.49) 2.89 (60.44) 2.89 (60.36) 2.89 (60.31) 2.90 (60.55) JMBER 121 Q.KPA (PSF)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .10 .09 .06 LONGIT BETA.DEG	ALPHA, DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65 UDINAL STAB	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.8071 2.8771	AND LATT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3351 .3734 .4059 .4449 .4889 .4889	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5196 4846 4553 ERAL BODY:	-AXIS DAT. CRM 0171 0155 0172 .0184 0226 0216 0216 0216 0217 0244 .0190 0078 .0018	CYM 0001 0002 0012 0007 0014 0029 0029 0040 0047 0026 0018	TEST NUM CSF 0202 0214 0210 0199 0207 0190 0160 0152 0147 0208 TEST NUM	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.24 7.24 6.96 6.75 6.30 5.89 BER 198	H/8 .419 .507 .559 .645 .685 .685 .685 .685 .685
MACH · 203 · 2	Q.KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.90 (60.51) 2.90 (60.51) 2.90 (60.49) 2.89 (60.44) 2.90 (60.51) 2.89 (60.31) 2.89 (60.35) 3.89 (60.35) 3.89 (60.55) 3.89 (60.55)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .00 .09 .06 LONGIT RETA.DEG	ALPHA.DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65 UDINAL STAB: ALPHA.DEG -3.00	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.8771 ILITY-AXIS CL	AND LATT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3754 .3754 .4059 .4489 .4889 AND LATT CD	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5130 5196 4846 4553 CPM	-AXIS DAT. CRM 0171 0155 0172 0184 0226 0216 0216 0216 0216 0216 0216 0216 0216 0216 0190 0078 .0018 0018 0018 0155 .0018 0172 .0184 0221 026 .0172 .0174 .0221 .0216 .0216 .0216 .0216 .0078 .0179 .0179 .0179 .0179 .0179 .0216 .0179 .0179 .0179 .0179 .0216 .0179 .0179 .0179 .0179 .0216 .0216 .0078	CYM 0001 0002 0012 0017 0014 0021 0029 0035 0040 0047 0026 .0018	TEST NUM CSF 0202 0214 0214 0210 0199 0207 0190 0160 0152 0147 0208 TEST NUM CSF	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22 6.96 6.75 6.30 5.89 BER 198 L/D	H/8 • 419 • 462 • 507 • 5545 • 685 • 685 • 685 • 685 • 685 • 685 • 685 • 685
MACH .203 .203 .203 .204 .203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.24) 2.89 (60.39) 2.90 (60.61) 2.90 (60.53) 2.90 (60.49) 2.89 (60.49) 2.89 (60.49) 2.89 (60.36) 2.89 (60.31) 2.90 (60.55) JMBER 121 Q,KPA (PSF) 2.89 (60.32) 2.89 (60.32)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .10 .09 .10 .09 .06 LONGIT RETA.DEG 01	ALPHA, DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65 UDINAL STAB: ALPHA, DEG -3.89 -3.87	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.8771 ILITY-AXIS CL .4595	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3351 .3734 .4059 .4489 .4889 AND LAT CD .1792	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5136 4846 4553 ERAL BODY- CPM 0244	-AXIS DAT. CRM 0171 0155 0172 .0184 0221 0226 0216 0217 0244 .0190 0078 .0018 0018 0018 0018 0018 0018 0018 0018 0216 0217 0244 0190 0018 0018 0216 00180 001	CYM 0001 0002 0012 0014 0021 0029 0040 0047 0026 .0018 CYM .0010	TEST NUM CSF 0202 0210 0210 0190 0160 0152 0167 0208 TEST NUM CSF 0147	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22 6.96 6.75 6.30 5.89 BER 198 L/D 2.56	H/8 .419 .462 .507 .5599 .645 .685 .685 .685 .685 .685 .685
MACH • 203 • 20	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.90 (60.51) 2.90 (60.51) 2.90 (60.45) 2.90 (60.45) 2.89 (60.44) 2.89 (60.55) MBER 121 Q,KPA (PSF) 2.89 (60.32) 2.89 (60.28) 3.89 (60.28)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .06 LONGIT RETA.DEG 01 01 01	ALPHA.DEG -3.88 -1.73 37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 14.67 16.68 18.65 UDINAL STAB: ALPHA.DEG -3.89 -1.71	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.5980 2.7404 2.8047 2.8047 2.8771 ILITY-AXIS CL .4595 1.0349	AND LATT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3734 .4059 .4489 .4889 AND LATT CD .1792 .1885	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5130 5196 4846 4553 CPM 0244 2277	-AXIS DAT. CRM 0171 0155 0172 0184 0226 0216 0216 0216 0216 0216 0216 0216 0217 0244 0190 0078 .0018 00216 0018 0017 0018 001	A 0001 0002 0012 0014 0029 0029 0029 0040 0040 0040 .0018 .0018 .0010	TEST NUM CSF 0202 0214 0214 0210 0199 0207 0190 0160 0152 0147 0181	BER 198 L/D 2.42 5.26 6.91 7.07 7.34 7.24 7.22 6.96 6.75 6.30 5.89 BER 198 L/D 2.56 5.49	H/8 •419 •462 •507 •5545 •685 •685 •685 •685 •685 •685 •685 •685 •685 •685
MACH .203 .203 .203 .203 .203 .203 .203 .203 .203 .203 .203 .203 .203 .203 .203 .203 .203 .203 .203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.24) 2.89 (60.39) 2.90 (60.53) 2.90 (60.53) 2.90 (60.49) 2.89 (60.49) 2.89 (60.41) 2.89 (60.31) 2.90 (60.55) JMBER 121 Q,KPA (PSF) 2.89 (60.32) 2.89 (60.37) 2.89 (60.37)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .06 LONGIT RETA.DEG 01 .00	ALPHA.DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65 UDINAL STAB ALPHA.DEG -3.89 -1.71 .39	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.80771 ILITY-AXIS CL .43595 1.0349 1.3594	AND LATT CD .1833 .1915 .2070 .2265 .2514 .747 .3067 .3351 .3734 .4059 .4449 .4889 .4889 AND LATT CD .1792 .1885 .2027	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5196 4846 4553 ERAL BODY: CPM 0244 2277 3220	-AXIS DAT. CRM 0171 0155 0172 .0184 0221 0226 0216 0217 0244 .0190 0078 .0018 00216 00216 00216 00216 0018 0018 00216 00216 0018 0018 0018 00216 00216 0018 0018 0018 00216 00216 0018 0018 00216 00216 0018 0018 0018 00216 00216 0018 0018 0018 00216 00216 0018 0018 0018 0018 00216 00216 0018 0006 0077 00063	CYM 0001 0002 0012 0007 0014 0029 0035 0040 0047 0026 0018 CYM .0010 0010 0010	TEST NUM CSF 0202 0214 0210 0199 0207 0190 0160 0152 0147 0208 TEST NUM CSF 0147 0147 0147 0147 0147	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.24 7.22 6.96 6.75 6.30 5.89 BER 198 L/D 2.56 5.49 6.71	H/8 .419 .462 .507 .599 .645 .685 .685 .685 .685 .685 .685 .685 .68
NACH .203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.24) 2.89 (60.39) 2.90 (60.53) 2.90 (60.51) 2.90 (60.44) 2.90 (60.41) 2.90 (60.41) 2.90 (60.55) WBER 121 Q,KPA (PSF) 2.89 (60.32) 2.89 (60.32) 2.89 (60.37) 2.89 (60.37) 3.89 (60.37) 3.80 (60	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .06 LONGIT RETA.DEG 01 01 .00 .01	ALPHA.DEG -3.88 -1.73 37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65 UDINAL STAB: ALPHA.DEG -3.89 -1.71 .39 2.43	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.8047 2.8771 ILITY-AXIS CL .4595 1.0349 1.3594 1.5916	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3734 .4459 .4889 AND LAT CD .1792 .1885 .2027 .2220	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5196 4846 4553 CPM 0244 2277 3220 3730	-AXIS DAT. CRM 0171 0155 0172 0184 0221 0226 0216 0217 0244 0190 0078 .0018 -AXIS DAT. CRM 0036 0077 0063 .0109	CYM 0001 0002 0012 0014 0021 0029 0035 0040 0047 0026 .0018 CYM .0010 .0010 .0013 .0009	TEST NUM CSF 0202 0214 0210 0199 0207 0160 0160 0162 0208 TEST NUM CSF 0147 0181 0201 0186	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22 6.75 6.30 5.89 BER 198 L/D 2.56 5.49 6.71 7.17	H/8 .419 .462 .507 .559 .645 .685 .685 .685 .685 .685 .685 .685 .68
MACH 203 203 203 203 203 203 203 203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.39) 2.89 (60.39) 2.90 (60.51) 2.90 (60.51) 2.90 (60.51) 2.90 (60.51) 2.89 (60.41) 2.89 (60.41) 2.89 (60.51) 3.89 (60.55) JMBER 121 Q,KPA (PSF) 2.89 (60.32) 2.89 (60.37) 2.89 (60.37) 2.89 (60.60)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .00 .09 .06 LONGIT RETA.DEG 01 .01 .02	ALPHA.DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65 UDINAL STAB ALPHA.DEG -3.89 -1.71 .39 2.43 4.38	LLITY-AXIS CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.8071 ILITY-AXIS CL .4595 1.0349 1.3594 1.5916 1.7900	AND LATT CD .1833 .1915 .2070 .2265 .2514 .3351 .3351 .3351 .3351 .4459 .4489 .4889 AND LATT CD .1792 .1885 .2027 .2248	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5196 4846 4553 CPM CPM 0244 2277 3220 3730 4170	-AXIS DAT. CRM 0171 0155 0172 0184 0226 0216 0017 0036 0018 0017 0008 0017 0008 0016 0017 0008 0018 0036 0006 0017 0036 00135 0103 01035 0105 0	CYM 0001 0002 0012 0007 0014 0029 0035 0040 0047 0026 .0018 CYM .0010 .0010 .0010 .0013 .0009 .0003	TEST NUM CSF 0202 0214 0210 0199 0207 0190 0160 0162 0147 0208 TEST NUM CSF 0147 0147 0181 0201 0186 0186 0186	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22 6.96 6.75 6.30 5.89 BER 198 L/D 2.56 5.49 6.71 7.17 7.35	H/8 .419 .462 .507 .599 .645 .685 .685 .685 .685 .685 .685 .685 .68
NACH .203	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.90 (60.53) 2.90 (60.51) 2.90 (60.41) 2.90 (60.41) 2.90 (60.41) 2.90 (60.55) JMBER 121 Q,KPA (PSF) 2.89 (60.32) 2.89 (60.50) 2.90 (60.65) 2.90 (6	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .10 .09 .06 LONGIT RETA.DEG 01 01 .00 .01 .03 .04 .05 .05 .05 .05 .05 .05 .05 .05	ALPHA, DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65 UDINAL STAB ALPHA, DEG -3.89 -1.71 .39 2.43 4.38 6.52	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.8771 ILITY-AXIS CL .4595 1.0349 1.3594 1.5916 1.7990 2.0417	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3351 .3734 .4059 .4449 .4889 .4889 .4889 .4459 .4459 .4489 .4885 .2027 .2220 .1792 .2220 .2448 .2719	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5130 5196 4846 4553 ERAL BODY CPM 0244 2277 3220 3730 4170 4584	-AXIS DAT. CRM 0171 0155 0172 0184 0221 0226 0216 0217 0244 0190 0078 .0018 0018 0018 0018 0018 0018 0018 0018 0018 0018 0018 0018 0018 0018 0018 0018 0018 00216 00078 00063 01090 01037 01063 0137 0137	CYM 0001 0002 0012 0014 0021 0029 0035 0040 0047 0026 .0018 CYM .0010 .0010 .0010 .0013 .0009 .0003	TEST NUM CSF 0202 0210 0210 0190 0160 0152 0167 0208 TEST NUM CSF 0147 0181 0201 0186 0201 0186 0201 0186 0177 0163	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.22 6.96 6.30 5.89 BER 198 L/D 2.56 5.49 6.71 7.17 7.351	H/8 .419 .462 .507 .5599 .645 .685 .685 .685 .685 .685 .685 .685 .68
MACH .203	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.89 (60.39) 2.90 (60.61) 2.90 (60.51) 2.90 (60.44) 2.89 (60.44) 2.89 (60.41) 2.89 (60.35) 3.89 (60.35) 3.89 (60.32) 2.89 (60.32) 2.89 (60.32) 2.89 (60.32) 2.89 (60.32) 2.89 (60.32) 2.89 (60.32) 2.89 (60.60) 2.90 (60.66) 2.90 (60.65) 2.90 (60.65)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .06 LONGIT RETA.DEG 01 01 .02 .03 .04	ALPHA.DEG -3.88 -1.73 37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 14.67 16.68 18.65 UNINAL STAB ALPHA.DEG -3.89 -1.71 .39 2.43 4.38 6.52 8.62	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.5980 2.7404 2.8771 2.8771 2.8771 2.8771 2.8771 1LITY-AXIS CL .4595 1.0349 1.3594 1.5916 1.7990 2.0417 2.2520	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3751 .3734 .4059 .4449 .4889 AND LAT CD .1792 .1885 .2027 .2248 .2719 .3044	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5130 5196 4846 4553 CPM 0244 2277 3220 4170 4584 4992	-AXIS DAT. CRM 0171 0155 0172 0184 0226 0216 0078 0018 0018 0018 0018 0216 0018 0019 0135 0137 0141	CYM 0001 0002 0012 0014 0021 0029 0035 0040 0047 0026 .0018 CYM .0010 .0010 .0010 .0010 .0013 .0002 0007	TEST NUM CSF 0202 0214 0214 0210 0199 0207 0190 0160 0152 0147 0208 TEST NUM CSF 0147 0181 0201 0186 0165	BER 198 L/D 2.42 5.26 6.91 7.07 7.34 7.24 7.22 6.96 6.75 6.30 5.89 BER 198 L/D 2.56 5.49 6.71 7.35 7.51 7.40	H/8 •419 •462 •507 •5545 •685
MACH .203 .204 .204 .204 .203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.24) 2.89 (60.39) 2.90 (60.53) 2.90 (60.53) 2.90 (60.49) 2.89 (60.49) 2.89 (60.41) 2.90 (60.55) DMBER 121 Q,KPA (PSF) 2.89 (60.28) 2.89 (60.32) 2.89 (60.37) 2.89 (60.37) 2.89 (60.64) 2.90 (60.66)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .06 LONGIT RETA.DEG 01 .00 .01 .02 .03 .04 .05	ALPHA.DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65 UDINAL STAB ALPHA.DEG -3.89 -1.71 .39 2.43 4.38 6.52 8.62 10.64	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.80771 2.8771 ILITY-AXIS CL .4595 1.0349 1.3594 1.5916 1.7990 2.0417 2.2520 2.4436	AND LATT CD .1833 .1915 .2070 .2265 .2514 .747 .3067 .3351 .3734 .4059 .4449 .4889 .4889 AND LATT CD .1792 .1885 .2027 .2220 .2448 .2719 .3044 .3339	ERAL BODY CPM 0093 2012 2929 4326 4718 5130 5196 4846 4553 ERAL BODY CPM 0244 2277 3220 3730 4992 5562	-AXIS DAT. CRM 0171 0155 0172 .0184 0221 0226 0216 0217 0244 .0190 0078 .0018 00216 0078 0018 00163 0105 0135 0135 0131 0141 0146	CYM 0001 0002 0012 0007 0014 0029 0035 0040 0047 0026 0018 CYM .0010 0010 0013 0019 0013 0019 0013 0003 0002 0007 0017	TEST NUM CSF 0202 0214 0210 0199 0207 0190 0160 0152 0147 0208 TEST NUM CSF 0147 0181 0201 0181 0201 0183 0165 0165 0165 0165 0165	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.24 7.24 7.22 6.96 6.75 6.30 5.89 BER 198 L/D 2.56 5.49 6.71 7.17 7.35 7.51 7.40 7.32	H/8 •462 •559 •685
NACH .203 .204 .203	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.89 (60.39) 2.90 (60.53) 2.90 (60.51) 2.89 (60.44) 2.90 (60.51) 2.89 (60.31) 2.89 (60.31) 2.89 (60.35) MBER 121 Q,KPA (PSF) 2.89 (60.32) 2.89 (60.32) 2.90 (60.64) 2.90 (60.64) 2.90 (60.43) 2.89 (60.31)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .06 LONGIT RETA.DEG 01 01 .02 .03 .04 .05 .06	ALPHA.DEG -3.88 -1.73 37 2.44 4.44 6.51 8.57 10.61 12.67 14.66 14.66	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.5960 2.7404 2.8047 2.8047 2.8047 2.8771 ILITY-AXIS CL .4595 1.0349 1.3594 1.5916 1.7990 2.0417 2.2520 2.4436 2.6160	AND LATT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3734 .4059 .4489 .4889 AND LATT CD .1792 .1885 .2027 .2220 .2448 .3739 .344 .3339 .344 .3339	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5130 5196 4553 CPM 0244 2277 3220 3730 4170 5362 5564	-AXIS DAT. CRM 0171 0155 0172 0184 0226 0216 0216 0217 0244 0190 0078 .0018 -AXIS DAT. CRM 0036 0109 0135 0137 0141 0146	CYM 0001 0002 0012 0007 0029 0029 0029 0040 0040 0040 0040 .0018 CYM .0010 .0010 .0010 .0009 .0003 .0009 .0003 .0009 .0003 .0007 0017 0017	TEST NUM CSF 0202 0214 0214 0210 0199 0207 0190 0160 0152 0147 0208 TEST NUM CSF 0147 0181 0201 0181 0201 0181 0165 0165 0120 0120 0120	BER 198 L/D 2.42 5.26 6.91 7.07 7.34 7.24 7.22 6.75 6.30 5.89 BER 198 L/D 2.56 5.49 6.71 7.35 7.51 7.40 7.32 7.30	H/8 • 4162 • 5545 • 6685 •
MACH 203 203 203 203 203 203 203 203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.24) 2.89 (60.39) 2.89 (60.39) 2.90 (60.51) 2.90 (60.51) 2.90 (60.51) 2.90 (60.51) 2.89 (60.31) 2.90 (60.49) 2.89 (60.28) 2.89 (60.32) 2.89 (60.32) 2.89 (60.32) 2.89 (60.32) 2.89 (60.32) 2.89 (60.55) 3.89 (60.60) 2.90 (60.64) 2.90 (60.64) 2.90 (60.49) 2.89 (60.31) 2.89 (60.31) 2.89 (60.31) 2.89 (60.31)	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .00 .09 .00 .09 .00 .09 .00 .00	ALPHA.DEG -3.88 -1.73 .37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65 UDINAL STAB ALPHA.DEG -3.89 -1.71 .39 2.43 4.38 6.52 8.62 10.64 12.66 14.70	LLITY-AXIS CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.80771 ILITY-AXIS CL .4595 1.3594 1.3594 1.3594 1.7990 2.0417 2.2520 2.4436 2.6160 2.7636	AND LAT CD .1833 .1915 .2070 .2265 .2514 .3351 .3734 .4059 .4489 .4889 AND LAT CD .1792 .1885 .2027 .2220 .2448 .2719 .3339 .3439 .3439 .3439	ERAL BODY CPM 0093 2012 2929 3447 3909 4326 4718 5130 5196 4846 4553 ERAL BODY CPM 0244 2277 3220 4170 4584 4553	-AXIS DAT. CRM 0171 0155 0172 .0184 0226 0216 0018 0113 0113 0114 0146 0114	CYM 0001 0002 0012 0021 0029 0035 0040 0047 0026 .0018 CYM .0010 .0010 .0010 .0013 .0002 0007 0017 0017 0017 0017 0017 0017	TEST NUM CSF 0202 0214 0210 0199 0207 0190 0160 0152 0147 0208 TEST NUM CSF 0147 0181 0201 0186 0185 0185 0165 0165 0120 01120 01120 01120 01120	BER 198 L/D 2.42 5.26 6.91 7.07 7.34 7.24 7.22 6.96 6.75 6.30 5.89 BER 198 L/D 2.56 5.49 6.71 7.17 7.35 7.51 7.40 7.32 7.00 6.82	H/8 •462 •504 •599 •685 •
NACH .203 .204 .204 .203 .203 .203 .204 .203	Q,KPA (PSF) 2.89 (60.46) 2.89 (60.24) 2.89 (60.39) 2.90 (60.53) 2.90 (60.51) 2.90 (60.41) 2.90 (60.41) 2.90 (60.41) 2.90 (60.45) 2.89 (60.31) 2.89 (60.31) 2.89 (60.31) 2.90 (60.64) 2.90 (60.64) 2.90 (60.43) 2.89 (60.31) 2.89 (60.31) 2.80 (60.40) 3.80 (60.40) 3.8	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .06 LONGIT RETA.DEG 01 01 .00 .01 .03 .04 .05 .05	ALPHA.DEG -3.88 -1.73 2.44 4.44 6.51 8.57 10.61 12.67 14.67 16.68 18.65 UDINAL STAB ALPHA.DEG -3.89 -1.71 .39 2.43 4.38 6.52 8.62 10.64 12.66 14.70 16.68	LLITY-AXIS CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.2195 2.4187 2.5980 2.7404 2.8047 2.8071 2.8771 CL .4595 1.0349 1.3594 1.3594 1.5916 1.7990 2.0417 2.2520 2.4436 2.6160 2.7636 2.8195	AND LAT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3351 .3734 .4059 .4459 .4889 AND LAT CD .1792 .1885 .2027 .2220 .1895 .2027 .2220 .2448 .2719 .3044 .3339 .3739 .40459	ERAL BODY CPM 0093 2012 2929 3909 4326 4718 5130 5196 4846 4553 ERAL BODY CPM 0244 2277 3220 3730 4170 4584 4592 5604 5382 5034	-AXIS DAT. CRM 0171 0155 0172 .0184 0221 0226 0216 0217 0244 .0190 0078 .0018 0018 0077 0063 0135 0137 0146 0134 0146 -	CYM 0001 0002 0012 0014 0021 0029 0040 0047 0026 .0018 CYM .0010 .0010 .0013 .0009 .0003 .0003 .0002 0017 0024	TEST NUM CSF 0202 0214 0210 0199 0207 0190 0160 0152 0147 0206 0208 TEST NUM CSF 0147 0181 0201 0186 0187 0187 0186 0187 0186 0187 0186 0187 0186 0187 0187 0186 0187 0186 0187 0272	BER 198 L/D 2.42 5.26 6.38 6.91 7.07 7.34 7.22 6.96 6.75 6.30 5.89 BER 198 L/D 2.56 5.49 2.56 5.49 2.56 5.49 0.71 7.17 7.35 7.51 7.40 7.32 7.00 6.82 6.39	H/8 .4192.5599.6485.6885.6885.6885.6885.6885.6885.6885
MACH .203	Q,KPA (PSF) 2.89 (60.46) 2.88 (60.24) 2.89 (60.39) 2.89 (60.39) 2.90 (60.53) 2.90 (60.51) 2.90 (60.44) 2.90 (60.44) 2.90 (60.41) 2.89 (60.31) 2.89 (60.31) 2.89 (60.32) 2.89 (60.31) 2.89 (60.32) 2.89 (60.32) 2.80 (60.32) 2.8	RETA.DEG 02 01 .00 .01 .03 .04 .06 .07 .09 .06 LONGIT RETA.DEG 01 .01 .02 .03 .04 .05 .06	ALPHA.DEG -3.88 -1.73 37 2.44 4.44 6.51 8.57 10.61 12.67 14.67 14.67 14.67 14.67 14.67 14.68 18.65 UDINAL STAB ALPHA.DEG -3.89 -1.71 .39 2.43 4.38 6.52 8.62 10.64 12.66 14.70 16.68 18.66	CL .4443 1.0073 1.3215 1.5643 1.7774 2.0171 2.5980 2.7404 2.8047 2.8047 2.8771 ILITY-AXIS CL .4595 1.0349 1.3594 1.5916 1.7990 2.0417 2.2520 2.4436 2.6160 2.7636 2.8195 2.8926	AND LATT CD .1833 .1915 .2070 .2265 .2514 .2747 .3067 .3734 .4059 .4489 .4889 AND LATT CD .1792 .1885 .2027 .2220 .2448 .2719 .3044 .3339 .3044 .3339 .3044 .3339 .4049 .4415 .4863	CPM 0093 2012 2929 3447 3909 4326 4718 5130 5130 5196 4846 4553 CPM 0244 2277 3220 3730 4170 4584 4584 5362 5604 5382 5034 4780	-AXIS DAT. CRM 0171 0155 0172 0184 0226 0216 0216 0216 0216 0216 0216 0216 0217 0244 0190 0078 .0018 0137 0141 0146 00163 0014 00163 0014 0016	CYM 0001 0002 0012 0029 0029 0029 0029 0040 0040 0040 0040 .0018 CYM .0010 .0010 .0010 .0009 .0003 .0002 .0007 0028 .0024 .0024	TEST NUM CSF 0202 0214 0214 0210 0199 0207 0190 0152 0147 0208 TEST NUM CSF 0147 0181 0201 0186 0165 0120 0165 0126 0122 0122 0122 0122 0122 02247	BER 198 L/D 2.42 5.26 6.91 7.07 7.34 7.24 7.22 6.96 6.75 6.30 5.89 BER 198 L/D 2.56 5.49 6.71 7.35 7.51 7.51 7.40 7.32 7.00 6.82 6.395	H/8 • 4162 • 5599 • 6685 • 66855 •

RUN N	UMBER 122	LUNGI	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198			
MACH	Q+KPA (PSF)	BFTA.DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	нив		
.204	2.90 (60.66)	00	-3.85	.5019	.1761	06B6	.0048	.0011	0085	2.85	.419		
.204	2.90 (60.64)	.00	-1.71	1.0904	.1838	2756	.0097	.0014	0092	5.93	.461		
.203	2.89 (60.45)	.00	.35	1.3706	.2017	3598	.0067	.0011	0115	6.79	.506		
.203	2.89 (60.44)	.00	2.43	1.6250	.2208	4138	.0063	.0020	0119	7.36	.553		
.203	2.89 (60.46)	.00	4.49	1.8559	.2455	4642	.0040	.0017	0097	7.56	.599		
.203	2.90 (60.56)	.01	6,54	2.0686	.2744	5001	0000	.0012	0118	7.54	.646		
.204	2.90 (60.64)	.01	8,56	2.2769	.3025	5376	0008	.0002	0097	7.53	.683		
.203	2.89 (60.45)	.02	10.60	2.4735	.3335	5733	0008	.0004	0086	7.42	.685		
.203	2.89 (60.26)	.02	12.68	2.6418	.3776	-,5923	0043	0005	0080	7.00	•685		
.203	2.89 (60.27)	.02	14.65	2.7855	.4100	5759	0011	0008	0082	6.79	.685		
.203	2.88 (60.15)	.01	16.65	2.8348	.4460	5317	.0085	.0028	0179	6.36	.685		
.203	2.88 (60.11)	.01	18,68	2.9110	.4944	4983	.0126	.0034	0181	5.89	.683		
RUN NI	INBER 123	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198			
масн	Q,KPA (PSF)	BETA.DEG	ALPHA,DEG	CL	CL CD CPM CRM CYM					YM CSF L/D H/B			
.203	2.89 (60.43)	.00	-3.85	.4982	.1773	0688	.0057	.0006	0091	2.81	.419		
.203	2.90 (60.50)	.00	-1.69	1.0940	.1853	-,2843	.0099	.0002	-,0045	5,90	.462		
.203	2.88 (60.18)	00	.41	1.3928	.2033	3713	.0085	.0004	0083	6.85	.508		
.203	2.88 (60.24)	00	2.41	1.6249	.2227	4208	.0059	.0004	0063	7.30	.553		
.204	2.91 (60.70)	00	4.47	1.8549	.2471	-,4695	.0046	.0007	0083	7.51	.599		
.204	2.91 (60.78)	.00	6.53	2.0779	.2755	5094	.0027	.0004	0081	7.54	.645		
.203	2.90 (60.47)	.01	8.61	2.2954	.3049	5459	.0011	0004	0084	7.53	.684		
.203	2.89 (60.44)	.01	10.60	2.4772	.3370	5781	0003	0007	0060	7.35	.685		
.203	2.89 (60.30)	.02	12.68	2.6540	.3766	5937	0043	0010	0064	7.05	.685		
.203	2.88 (60.14)	.02	14.67	2.7869	.4114	5752	0007	0018	0058	6.77	.685		
.203	2.88 (60.24)	00	16.68	2,8360	.4500	5341	.0106	.0015	0139	6.30	.685		
.203	2.88 (60.21)	~.01	18.64	2.9201	.4927	5069	.0124	.0016	0150	5.93	.685		

RUN NUMBER 124 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA	TEST NUMBER 198
MACH Q,KPA (PSF) RETA,DEG ALPHA,DEG CL CD CPM CRM CYM	CSF L/D H/B
.204 2.91 (60.69) .00 ~3.84 .5056 .17760694 .0085 .0002	0074 2.85 .419
.204 2.91 (60.70) .00 ~1.58 1.1045 .18832880 .00960003	0081 5.86 .464
.204 2.90 (60.59)00 .42 1.3984 .20453706 .00910003	0087 6.84 .508
.203 2.90 (60.47)00 2.42 1.6317 .22404253 .00660006	0037 7.28 .552
.204 2.90 (60.60)00 4.49 1.8541 .25004692 .00480004	0032 7.42 .599
.203 2.90 (60.55)00 6.53 2.0766 .27725105 .00290004	0077 7.49 .645
.204 2.90 (60.58)00 8.56 2.2888 .30635475 .00180008	0093 7.47 .686
.203 2.89 (60.44) .00 10.61 2.4770 .33935812 .00120011	0073 7.30 .685
.203 2.89 (60.28) .01 12.64 2.6482 .3789597600170013	0085 6.99 .687
.203 2.88 (60.17) .01 14.65 2.7869 .41345795 .00030025	0081 6.74 .686
.203 2.88 (60.18)01 16.68 2.8367 .45305351 .01080008	0132 6.26 .684
·203 2.89 (60.29)03 18.70 2.9014 .50245059 .0178 .0024	0172 5.77 .684
RUN NUMBER 125 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA	TEST NUMBER 198
MACH Q+KPA (PSF) RETA+DEG AL ['] PHA+DEG CL CD CPM CRM CYM	CSF L/D H/B
.203 2.89 (60.43) .02 -3.86 .4481 .18800070 .0262 .0021	.0018 2.38 .419
.203 2.88 (60.25) .01 -1.74 1.0182 .19962077 .0325 .0033	.0010 5.10 .461
.203 2.88 (60.16) .00 .34 1.3399 .21483045 .0303 .0049	0044 6.24 .507
.203 2.89 (60.28)01 2.39 1.5812 .23623551 .0278 .0053 ·	0010 6.69 .552
-203 2.88 (60-20)02 4.46 1.8080 .25964037 .0262 .0061 -	0031 6.96 .599
.203 2.88 (60.22)03 6.52 2.0320 .28594447 .0246 .0058 -	0052 7.11 .645
.203 2.89 (60.32)03 8.59 2.2429 .31614840 .0217 .0046 -	0029 7.10 .685
.203 2.89 (60.32)04 10.58 2.4317 .34705233 .0219 .0052 -	0037 7.01 .685
.203 2.88 (60.24)04 12.66 2.6134 .38675429 .0186 .0040	.0001 6.76 .685
.203 2.89 (60.33)05 14.68 2.7665 .42055329 .0169 .0028 -	0009 6.58 .685
.203 2.88 (60.13)05 16.70 2.8813 .46505109 .0163 .0023 -	0047 6.20 .685
.203 2.90 (60.51)05 18.73 2.9816 .51144877 .0160 .0026 -	0054 5.83 .685

MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPH CRH CYH CSF L/D H/B 204 2.90 (60.50) .02 -3.86 .4569 .1819 0302 .0203 .0012 .0005 2.51 .419 204 2.87 (59.98) .01 -1.72 1.0253 .1931 2245 .0203 .0012 0024 5.31 .462 204 2.89 (60.38) 01 2.42 1.5956 .2282 3263 .0025 0043 6.44 .507 204 2.88 (60.61) 02 4.45 1.8211 .2517 4315 .0181 .0038 0037 7.23 .598 204 2.88 (60.19) 04 8.63 2.2659 .3090 5107 .0128 .0022 0041 7.33 .665 204 2.88 (60.19) 04 12.668 2.4533 .3439 5541 .0066 .0002 0015 6.671 .665 204 2.88 (60.23) 05 16.70 2.9903 .4538	RUN N	MABER 126	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A Contraction	TEST NUM	BER 198	
.204 2.90 (60.50) .02 -3.86 .4569 .18190302 .0203 .0012 .0005 2.51 .419 .204 2.87 (59.98) .01 -1.72 1.0253 .19312245 .0231 .00200024 5.31 .462 .204 2.89 (60.38)00 .35 1.3479 .20923263 .0208 .00250043 6.44 .507 .204 2.88 (60.11)01 2.42 1.5956 .22823826 .0183 .00330050 6.99 .553 .204 2.88 (60.616)02 4.45 1.8211 .25174315 .0181 .00380037 7.23 .508 .204 2.88 (60.25)03 6.52 2.0443 .27934701 .0152 .00330061 7.32 .645 .204 2.88 (60.23)04 8.63 2.2659 .30905107 .0128 .00220041 7.33 .645 .204 2.88 (60.12)04 8.63 2.2659 .30905107 .0128 .00220041 7.33 .645 .204 2.88 (60.14)04 12.66 2.4438 .34395447 .0095 .00140038 7.11 .685 .204 2.88 (60.14)05 14.68 2.7780 4.4435544 .0066 .00020015 6.87 .685 .204 2.89 (60.32)05 16.70 2.9003 .45385539 .0080 .00190106 6.39 .665 .204 2.89 (60.32)05 18.76 2.9936 .50555081 .0070 .00020086 5.92 .684 .204 2.89 (60.36)05 18.76 2.9936 .50555081 .0070 .00020086 5.92 .684 .204 2.89 (60.38)05 -3.88 .4655 .17940360 .0102 .00140082 2.59 .684 .204 2.89 (60.34)05 1.8.76 2.9936 .50555081 .0070 .00020086 5.92 .684 .204 2.89 (60.34)05 1.8.76 2.9936 .50555081 .0070 .0032 .0086 .592 .684 .204 2.89 (60.36)05 1.8.76 2.9936 .50555081 .0070 .0032 .0086 5.92 .684 .204 2.89 (60.36)05388 .4655 .17940360 .0102 .00140082 2.59 .418 .204 2.89 (60.34)07 .35 1.3458 .20463390 .0131 .00110053 6.54 .462 .204 2.89 (60.34)08 2.41 1.6167 .22163380 .0151 .00150057 5.49 .462 .204 2.89 (60.34)08 2.41 1.6167 .22163380 .0131 .00110053 6.55 .50 .204 2.90 (60.650)07 .35 1.3458 .20463390 .0131 .00110057 5.49 .462 .205 2.90 (60.677)09 6.50 2.0465 .27354780 .0068 .00130057 7.48 .664 .205 2.90 (60.57110 8.57 2.2478 .33685541 .0047 .00070057 7.48 .664 .205 2.90 (60.57110 8.57 2.2473 .33685541 .0047 .00070057 7.48 .664 .205 2.90 (60.57110 8.57 2.2487 .3368 .5541 .0047 .00070057 7.48 .664 .204 2.88 (60.15)04 16.70 2.8999 .45	масн	Q.KPA (PSF)	RETA, DEG	ALPHA, DEG	CL.	CD	CPM	CRM	CYM	CSF	L/D	H/8
<pre>.204 2.87 (59.98) .01 -1.72 1.0253 .19312245 .0231 .00200024 5.31 .462 .204 2.88 (60.33)00 .35 1.3479 .20923263 .0208 .00250043 6.44 .507 .204 2.88 (60.16)01 2.42 1.5956 .22823826 .0183 .00330050 6.99 .553 .204 2.88 (60.25)03 6.52 2.0443 .27934701 .0152 .00330061 7.32 .645 .204 2.88 (60.25)03 6.52 2.0443 .27934701 .0152 .00330061 7.32 .645 .204 2.88 (60.23)04 8.63 2.2659 .30905107 .0128 .00220041 7.33 .665 .204 2.88 (60.32)04 10.66 2.4438 .34395541 .0066 .00020015 6.87 .665 .204 2.88 (60.32)04 12.68 2.7780 .41435544 .0079 .00110053 6.71 .665 .204 2.88 (60.32)05 14.68 2.7780 .41435544 .0079 .00110053 6.71 .665 .204 2.89 (60.32)05 18.76 2.9936 .50555081 .0070 .00020086 5.92 .684 .204 2.89 (60.32)05 18.76 2.9936 .50555081 .0070 .00020086 5.92 .684 .204 2.89 (60.46)05 18.76 2.9936 .50555081 .0070 .00020086 5.92 .684 .204 2.89 (60.46)05 18.76 2.9936 .50553081 .0070 .00020086 5.92 .684 .204 2.88 (60.62)06 -1.72 1.0346 .1885 .2380 .0131 .00110053 6.59 .685 .204 2.88 (60.56)07 .35 1.3458 .20463390 .0131 .00110083 6.58 .507 .204 2.89 (60.56)07 .35 1.3458 .20463390 .0131 .00110053 6.58 .507 .204 2.89 (60.56)07 .35 1.3458 .20463390 .0131 .00110053 6.58 .507 .204 2.89 (60.56)07 .35 1.3458 .20463390 .0131 .00110053 6.58 .507 .204 2.89 (60.56)07 .35 1.3458 .20463390 .0131 .00110063 6.58 .507 .204 2.89 (60.56)07 .35 1.3458 .20463390 .0131 .00110053 6.58 .507 .204 2.89 (60.56)07 .35 1.3458 .20463390 .0131 .00110053 6.58 .507 .204 2.89 (60.56)07 .35 1.3458 .20463390 .0131 .00110053 6.58 .507 .204 2.89 (60.56)07 .35 1.3458 .20463390 .0131 .00110053 6.58 .507 .205 2.90 (60.56)07 .35 1.3458 .20463390 .0131 .00110053 6.58 .507 .205 2.90 (60.56)07 .35 1.3458 .20463390 .0131 .00160057 7.48 .644 .205 2.90 (60.57)10 8.57 2.2487 .30645136 .0056 .0008 .0066 7.048 .464 .205 2.90 (60.57)003 1.470 2.8899 .4500 .</pre>	•204	2.90 (60.50)	.02	-3.86	.4569	.1819	0302	.0203	.0012	.0005	2.51	.419
.204 2.89 (60.38) 00 .35 1.3479 .2092 3263 .0208 .0025 0043 6.44 .507 .204 2.88 (60.16) 01 2.42 1.5956 .2282 3826 .0183 .0033 0050 6.99 .553 .204 2.88 (60.16) 02 4.45 1.8211 .2517 4315 .0181 .0033 0061 7.32 .6455 .204 2.88 (60.16) 04 8.63 2.2659 .3090 5107 .0128 .0022 0041 7.33 .6655 .204 2.88 (60.14) 04 12.664 2.6233 .3819 5541 .0066 .0002 0015 6.87 .6655 .204 2.88 (60.71) 05 14.68 2.7780 .4143 5544 .0079 .0011 0053 6.71 .685 .204 2.89 (60.46) 05 18.76 2.9936 .5055 5081 .0070 .0002 .0086 5.92 .684	.204	2.87 (59.98)	.01	-1.72	1.0253	.1931	2245	.0231	.0020	0024	5.31	.462
.204 2.88 (60.11) 01 2.42 1.5956 .2282 3826 .0183 .0033 0050 6.99 .553 .204 2.88 (60.16) 02 4.45 1.8211 .2517 4315 .0181 .0033 0050 6.99 .553 .204 2.88 (60.25) 03 6.52 2.0443 .2793 4701 .0152 .0033 0061 7.23 .645 .204 2.88 (60.23) 04 10.66 2.4438 .3439 5547 .0095 .0014 0038 .11 .665 .204 2.88 (60.71) 05 14.68 2.4780 .4143 5544 .0079 .0011 0053 6.71 .6685 .204 2.89 (60.32) 05 18.76 2.9936 .5055 5081 .0070 .0002 0086 5.92 .6684 .204 2.89 (60.38) 05 37.88 .4655 .1794 0360 .0102 .0014 .0082 2.59 .418	.204	2.89 (60.3A)	00	.35	1.3479	.2092	-,3263	.0208	.0025	0043	6.44	.507
.204 2.88 (60.16) 02 4.45 1.8211 .2517 4315 .0181 .0037 7.23 .598 .204 2.88 (60.25) 03 6.52 2.0443 .2793 4701 .0152 .0033 0061 7.32 .645 .204 2.88 (60.19) 04 8.63 2.2659 .3090 5107 .0128 .0022 0041 7.33 .665 .204 2.88 (60.14) 04 12.66 2.4438 .3439 5437 .0095 .0014 0038 7.11 .665 .204 2.88 (60.471) 05 14.68 2.7780 .4143 5544 .0079 .0011 0053 6.71 .665 .204 2.89 (60.46) 05 18.76 2.9936 .5055 5081 .0070 .0002 0086 5.92 .6684 RUN NUMBER 127 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM<	.204	2.88 (60.11)	01	2.42	1.5956	.2282	-,3826	.0183	.0033	0050	6.99	.553
.204 2.88 (60.25) 03 6.52 2.0443 .2793 4701 .0152 .0033 0061 7.32 .645 .204 2.88 (60.23) 04 10.66 2.4438 .3439 5437 .0095 .0014 0018 7.11 .665 .204 2.88 (60.14) 04 12.68 2.6233 .3819 5437 .0095 .0014 0038 7.11 .665 .204 2.88 (60.14) 04 12.68 2.6233 .3819 5641 .0066 .0002 0015 6.87 .685 .204 2.88 (60.42) 05 16.70 2.9903 .4538 5339 .0080 .0019 0106 6.39 .685 .204 2.89 (60.46) 05 18.76 2.9936 .5055 5081 .0070 .0002 0086 5.92 .684 RUN NUMRER 127 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 .204 .886 (60.38) 05 -3.88 .4655 .1794 <td>.204</td> <td>2.88 (60.16)</td> <td>02</td> <td>4.45</td> <td>1.8211</td> <td>.2517</td> <td>4315</td> <td>.0181</td> <td>.0038</td> <td>0037</td> <td>7.23</td> <td>.598</td>	.204	2.88 (60.16)	02	4.45	1.8211	.2517	4315	.0181	.0038	0037	7.23	.598
.204 2.88 (60.19) 04 8.63 2.2659 .3090 5107 .0128 .0022 0041 7.33 .665 .204 2.88 (60.14) 04 10.66 2.4438 .3439 5437 .0095 .0014 0038 7.11 .665 .204 2.88 (60.14) 05 14.68 2.7780 .4143 5544 .0079 .0011 0053 6.71 .665 .204 2.88 (60.42) 05 14.68 2.7780 .4143 55339 .0080 .0019 0166 6.39 .685 .204 2.89 (60.46) 05 18.76 2.9936 .5055 5081 .0070 .0022 0086 5.92 .684 RUN NUMBER 127 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 *204 2.89 (60.38) 05 -3.88 .4655 .1794 0360 .0102 .0014 0082 2.59 .418 *204 2.89 (60.38) 05 -3.48 .4655	.204	2.88 (60.25)	03	6.52	2.0443	.2793	4701	.0152	.0033	0061	7.32	.645
.204 2.88 (60.23) 04 10.66 2.4438 .3439 5437 .0095 .0014 0038 7.11 .665 .204 2.88 (60.14) 04 12.68 2.6233 .3819 5641 .0066 .0002 0015 6.87 .685 .204 2.88 (60.72) 05 14.68 2.7780 .4143 5544 .0079 .0011 0036 6.71 .685 .204 2.89 (60.32) 05 16.70 2.9003 .4538 5339 .0080 .0019 0106 6.39 .685 .204 2.89 (60.46) 05 18.76 2.9936 .5055 5081 .0070 .0002 0086 5.92 .684 RUN NUMBER 127 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRN CYM CSF L/D H/B .204 2.89 (60.38) 05 -3.88 .4655 .1794	.204	2.88 (60.19)	04	8.63	2.2659	.3090	5107	.0128	.0022	0041	7.33	.685
.204 2.88 (60.14) 04 12.68 2.6233 .3819 5641 .0066 .0002 0015 6.87 .685 .204 2.88 (60.07) 05 14.68 2.7780 .4143 5544 .0079 .0011 0053 6.71 .685 .204 2.89 (60.32) 05 16.70 2.9903 .4538 5339 .0080 .0019 0106 6.39 .685 .204 2.89 (60.46) 05 18.76 2.9936 .5055 5081 .0070 .0002 0086 5.92 .684 RUN NUMRER 127 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRN CYM CSF L/D H/B .204 2.89 (60.38) 05 -3.88 .4655 .1794 0360 .0102 .0014 0082 2.59 .418 .204 2.88 (60.34) 05 -3.88 .4655 .1794 .0360 .0102 .0014 0082 2.59 </td <td>.204</td> <td>2.88 (60.23)</td> <td>04</td> <td>10.66</td> <td>2.4438</td> <td>.3439</td> <td>-,5437</td> <td>.0095</td> <td>.0014</td> <td>0038</td> <td>7.11</td> <td>.685</td>	.204	2.88 (60.23)	04	10.66	2.4438	.3439	-,5437	.0095	.0014	0038	7.11	.685
.204 2.88 (60.07) 05 14.68 2.7780 .4143 5544 .0079 .0011 0053 6.71 .685 .204 2.89 (60.32) 05 16.70 2.9003 .4538 5339 .0080 .0019 0106 6.39 .685 .204 2.89 (60.46) 05 18.76 2.9936 .5055 5081 .0070 .0002 0086 5.92 .684 RUN NUMBER 127 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPMA.DEG CL CD CPM CRH CYH CSF L/D H/B .204 2.89 (60.38) 05 -3.88 .4655 .1794 0360 .0102 .0014 0082 2.59 .418 .204 2.88 (60.22) 06 -1.72 1.0346 .1885 2386 .0151 .0015 0057 5.49 .462 .204 2.89 (60.39) 09 4.51 1.8300 .2478	.204	2.88 (60.14)	04	12.68	2.6233	.3819	-,5641	.0066	.0002	0015	6.87	.685
.204 2.89 (60.32) 05 16.70 2.9003 .4538 5339 .0080 .0019 0106 6.39 .685 .204 2.89 (60.46) 05 18.76 2.9936 .5055 5081 .0070 .0002 0086 5.92 .664 RUN NUMBER 127 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRN CYM CSF L/D H/B .204 2.89 (60.38) 05 -3.88 .4655 .1794 0360 .0102 .0014 0082 2.59 .418 .204 2.89 (60.38) 05 -3.88 .4655 .1794 0360 .0102 .0014 0082 2.59 .418 .204 2.89 (60.36) 07 .35 1.3458 .2046 .3390 .0131 .0015 .0057 5.49 .462 .204 2.89 (60.39) 09 4.51 1.8300 .2775 <td>.204</td> <td>2.88 (60.07)</td> <td>05</td> <td>14.68</td> <td>2.7780</td> <td>.4143</td> <td>5544</td> <td>.0079</td> <td>.0011</td> <td>0053</td> <td>6.71</td> <td>.685</td>	.204	2.88 (60.07)	05	14.68	2.7780	.4143	5544	.0079	.0011	0053	6.71	.685
.204 2.89 (60.46) 05 18.76 2.9936 .5055 5081 .0070 .0002 0086 5.92 .684 RUN NUMBER 127 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.89 (60.38) 05 -3.88 .4655 .1794 0360 .0102 .0014 0082 2.59 .418 .204 2.88 (60.22) 06 -1.72 1.0346 .1885 2386 .0151 .0015 0057 5.49 .462 .204 2.88 (60.34) 08 2.41 1.6167 .2216 3982 .0161 .0013 0057 5.49 .462 .204 2.89 (60.34) 09 4.51 1.8300 .2478 4398 .0016 0057 7.39 .600 .205 2.90 (60.57) 10 8.57 2.487 .3064 .5136 <t< td=""><td>.204</td><td>2.89 (60.32)</td><td>05</td><td>16.70</td><td>2.9003</td><td>.4538</td><td>5339</td><td>.0080</td><td>.0019</td><td>0106</td><td>6.39</td><td>.685</td></t<>	.204	2.89 (60.32)	05	16.70	2.9003	.4538	5339	.0080	.0019	0106	6.39	.685
RUN NUMBER 127 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 MACH 0,KPA (PSF) RETA.DEG CL CD CPM CRH CYH CSF L/D H/B .204 2.89 (60.38) 05 -3.88 .4655 .1794 0360 .0102 .0014 0082 2.59 .418 .204 2.88 (60.22) 06 -1.72 1.0346 .1885 2386 .0151 .0015 0057 5.49 .462 .205 2.90 (60.36) 07 .35 1.3458 .2046 3390 .0131 .0011 0082 2.59 .418 .204 2.89 (60.34) 08 2.41 1.6167 .2216 3982 .0116 .0016 0039 7.29 .552 .204 2.89 (60.39) 09 4.51 .8300 .2478 4399 .0079 .0016 0057 7.39 .600 .205 <td< td=""><td>.204</td><td>2.89 (60.46)</td><td>05</td><td>18.76</td><td>2.9936</td><td>.5055</td><td>5081</td><td>.0070</td><td>.0002</td><td>0086</td><td>5.92</td><td>.684</td></td<>	.204	2.89 (60.46)	05	18.76	2.9936	.5055	5081	.0070	.0002	0086	5.92	.684
MACH 0,KPA (PSF) RETA:DEG ALPHA.DEG CL CD CPM CRH CYM CSF L/D H/B :204 2.89 (60.38) 05 -3.88 .4655 .1794 0360 .0102 .0014 0082 2.59 .418 :204 2.88 (60.22) 06 -1.72 1.0346 .1885 2386 .0151 .0015 0057 5.49 .462 :204 2.88 (60.36) 07 .35 1.3458 .2046 3390 .0131 .0011 0063 6.58 .507 :204 2.89 (60.39) 09 4.51 1.8300 .2478 4399 .0016 0057 7.39 .600 :205 2.90 (60.671) 09 6.50 2.0465 .2735 4780 .0068 .0013 0057 7.48 .664 :205 2.90 (60.671) 09 6.50 2.0465 .2735 4780 .0068 .0013 0057 7.48 .6648 :205 <td>RUN NI</td> <td>UMBER 127</td> <td>LONGIT</td> <td>UDINAL STAB</td> <td>ILITY-AXIS</td> <td>AND LAT</td> <td>ERAL BODY</td> <td>-AXIS DAT</td> <td>•</td> <td>TEST NUM</td> <td>BER 198</td> <td></td>	RUN NI	UMBER 127	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MACH	Q+KPA (PSF)	RETAODEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.89 (60.38)	05	-3.88	.4655	.1794	-,0360	.0102	.0014	0082	2.59	.418
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.88 (60.22)	06	-1.72	1.0346	.1885	2386	.0151	.0015	0057	5.49	.462
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.205	2.90 (60.56)	07	. 35	1.3458	.2046	3390	.0131	.0011	0063	6.58	.507
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.89 (60.34)	08	2.41	1.6167	.2216	3982	.0116	.0016	0039	7.29	.552
.205 2.90 (60.67) 09 6.50 2.0465 .2735 4780 .0068 .0013 0059 7.48 .6644 .205 2.90 (60.57) 10 8.57 2.2487 .3064 5136 .0056 .0008 0066 7.34 .665 .205 2.91 (60.70) 10 10.62 2.4533 .3368 5551 .0047 .0066 7.34 .665 .205 2.90 (60.54) 09 12.68 2.6376 .3769 5775 0012 0016 0054 7.00 .685 .204 2.89 (60.27) 03 14.70 2.7890 .4127 5652 .0014 0115 6.76 .664 .204 2.88 (60.15) 04 16.70 2.8899 .4500 5522 .0037 0012 6.012 .684 .204 2.88 (60.10) 03 18.70 2.9409 .5017 5899 .0031 0012 6.42 .684	.204	2.89 (60.39)	09	4.51	1.8300	.2478	4399	.0079	.0016	0057	7.39	.600
.205 2.90 (60.57) 10 8.57 2.2487 .3064 5136 .0008 0066 7.34 .685 .205 2.91 (60.70) 10 10.62 2.4533 .3368 5541 .0047 .0007 0063 7.29 .665 .205 2.90 (60.54) 09 12.68 2.6376 .3769 5775 0012 0016 0053 7.29 .665 .204 2.89 (60.27) 03 14.70 2.7890 .4127 5552 .0025 .0014 0115 6.76 .664 .204 2.88 (60.15) 04 16.70 2.8899 .4500 5522 .0037 0012 6.42 .664 .204 2.88 (60.10) 03 18.70 2.9409 .5017 5529 .0037 0012 6.42 .664	.205	2.90 (60.67)	09	6.50	2.0465	.2735	4780	.0068	.0013	0059	7.48	.644
.205 2.91 (60.70) 10 10.62 2.4533 .3368 5541 .0047 .0007 0063 7.29 .685 .205 2.90 (60.54) 09 12.68 2.6376 .3769 5775 0012 0016 0054 7.00 .685 .204 2.89 (60.27) 03 14.70 2.7890 .4127 5652 .0025 .0014 0115 6.76 .684 .204 2.88 (60.15) 04 16.70 2.8899 .4500 5522 .0037 0013 0112 6.42 .684 .204 2.88 (60.10) 03 18.70 2.9409 .5017 5899 .0031 0013 0137 5.86 .685	.205	2.90 (60.57)	10	8.57	2.2487	.3064	5136	.0056	.0008	0066	7.34	.685
.205 2.90 (60.54)09 12.68 2.6376 .37695775001200160054 7.00 .685 .204 2.89 (60.27)03 14.70 2.7890 .41275652 .0025 .00140115 6.76 .684 .204 2.88 (60.15)04 16.70 2.8899 .45005522 .003700030112 6.42 .684 .204 2.88 (60.10)03 18.70 2.9409 .50175899 .003100160237 5.86 .6684	.205	2.91 (60.70)	10	10.62	2.4533	.3368	5541	.0047	.0007	0063	7.29	.685
.204 2.89 (60.27)03 14.70 2.7890 .41275652 .0025 .00140115 6.76 .684 .204 2.88 (60.15)04 16.70 2.8899 .45005522 .003700030112 6.42 .684 .204 2.88 (60.10)03 18.70 2.9409 .50175899 .003100160237 5.86 .686	.205	2.90 (60.54)	09	12.68	2.6376	.3769	5775	0012	0016	0054	7.00	.685
.204 2.88 (60.15)04 16.70 2.8899 .45005522 .003700030112 6.42 .684 .204 2.88 (60.10)03 18.70 2.9409 .50175899 .003100160237 5.86 .685	.204	2.89 (60.27)	03	14.70	2.7890	.4127	5652	.0025	.0014	0115	6.76	.684
·204 2.88 (60·10)03 18.70 2.9409 .50175899 .003100160237 5.86 .685	.204	2.88 (60.15)	04	16.70	2.8899	.4500	- 5522	.0037	0003	0112	6.42	.684
	.204	2.88 (60.10)	03	18.70	2,9409	.5017	-,5899	.0031	0016	0237	5.86	.685

RUN N	UMBER 129	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY-	AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	RETAODEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
.205	2.90 (60.57)	00	.08	.1916	.2441	1034	.0029	.0008	.0080	.79	.019
.205	2.90 (60.57)	00	.07	.1833	.2446	1084	.0020	.0010	.0081	.75	.024
.204	2.89 (60.30)	.00	.01	.1256	.2462	1290	.0014	.0018	0023	.51	.073
.205	2.90 (60.54)	00	.04	.1073	.2451	1425	.0024	.0024	0059	.44	.122
.205	2.90 (60.54)	00	.03	.0972	.2432	1512	.0017	.0022	0089	.40	.172
.204	2.89 (60.35)	.00	.02	.0958	.2433	1598	.0022	.0019	0095	. 39	.225
.204	2.89 (60.33)	.00	.01	.0865	.2417	1600	.0010	.0019	0117	.36	.322
.204	2.89 (60.37)	.00	.01	.0883	.2427	1660	.0015	.0019	0145	.36	.422
•204	2.90 (60.52)	.00	.00	.0830	.2412	-,1635	.0008	.0016	0131	.34	.522
RUN N	UMBER 130	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY-	AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA.DEG	ALPHA, DEG	C∟	CD	CPM	CRM	CYM	CSF	L/D	H/B
.205	2.92 (60.90)	.00	.00	.0207	.2780	0660	.0022	.0004	.0047	.07	.019
.205	2.91 (60.86)	.00	00	.0239	.2774	0784	.0017	.0006	.0096	.09	.024
.205	2.90 (60.66)	.00	06	0388	.2737	1032	.0016	.0003	.0041	14	.074
.205	2.90 (60.56)	.00	09	0700	.2708	1147	.0010	0001	0025	-,26	.123
.204	2.89 (60.42)	.00	11	0786	.2677	-,1251	.0027	0010	0044	-,29	.172
.204	2.89 (60.34)	.00	12	0912	.2662	1348	.0003	0007	0098	34	.225
.205	2.90 (60.51)	00	01	0773	.2638	1433	.0030	0013	0077	29	.322
.204	2.88 (60.20)	00	02	0792	.2638	1456	.0003	0004	0129	30	.422
.205	2.90 (60.59)	00	02	0805	.2627	1491	.0020	0011	0098	31	.525

-

_...-

_

_....

RUN N	UMBER 131	LONGI	TUDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	0.KPA (PSF)	RFTA,DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
.117	.96 (20.05)	.01	-3.82	.6822	.1709	4986	0032	.0018	0210	3.99	.425
.117	.96 (20.02)	.00	-1.71	1.1723	.1823	6155	0031	.0023	0163	6.43	.471
.117	.96 (20.06)	.00	.39	1.5255	.2095	-,6520	0061	.0009	0131	7.29	.519
.117	.96 (20.08)	00	2.46	1.7630	.2307	6198	0097	.0007	0168	7.64	.567
.117	.96 (20.13)	01	4,48	1.9511	.2559	-,5799	0080	.0011	0120	7.63	.615
.117	.96 (20.09)	01	6.55	2.1419	.2823	-,5315	0083	.0004	0115	7.59	.664
.117	.96 (20.10)	01	8,61	2.3053	.3096	-,4813	0097	0007	0123	7.45	.684
.117	.97 (20.17)	01	10.62	2.4666	.3370	-,4200	0105	0016	0111	7.32	.684
.117	.96 (20.13)	.00	12.66	2.6123	.3697	-,3684	0096	0021	0112	7.07	.684
.117	.96 (20.06)	.01	14.70	2.7128	.3980	-,2944	0083	0023	0132	6.82	.685
.117	.96 (20.08)	.00	16.71	2.7938	.4307	-,2107	0043	0002	0165	6.49	.685
.117	.96 (20.05)	.00	18.68	2.8283	.4801	1164	0105	0079	0136	5.89	.684
.117	.96 (20.01)	.01	20.64	2.7325	.5306	0464	0050	0008	0198	5.15	.684
.116	.96 (19.98)	.04	22.63	2.6993	.5918	.0384	0158	0082	0223	4.56	.685
RUN N	UMBER 132	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA, DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
.166	1.93 (40.28)	.00	-3.82	.6414	.1745	4918	0079	.0019	0220	3.68	.424
.166	1.92 (40.09)	.00	-1.68	1.1677	.1851	-,6217	0090	.0013	0174	6.31	.469
.166	1.92 (40.08)	00	.42	1.5256	.2075	-,6516	0101	.0009	0155	7.35	.515
.166	1.92 (40.09)	00	2.45	1.7464	.2296	-,6244	0097	.0008	0118	7.61	.561
.166	1.92 (40.13)	00	4,50	1.9446	.2541	-,5841	0101	.0006	0103	7.65	.607
.166	1.92 (40.14)	.00	6.56	2.1295	.2830	-,5365	0134	0010	0090	7.53	.654
.166	1.92 (40.15)	.00	8.58	2.3014	.3099	4854	0144	0016	0108	7.43	.685
.166	1.92 (40.12)	.01	10.63	2.4736	.3361	4278	0135	0019	0109	7.36	.685
.166	1.93 (40.26)	.01	12.67	2.6344	.3722	3696	0101	0009	0128	7.08	.684
.166	1.92 (40.16)	.01	14.68	2.7459	.4016	-,2978	0098	0027	0118	6.84	.684
.166	1.94 (40.42)	.01	16.69	2.8475	.4341	2249	0080	0007	0132	6.56	.685
166	1.93 (40.25)	.01	18.71	2.9083	.4752	1408	0031	0001	0126	6.12	.685
.166	1.93 (40.21)	.07	20.67	2.7428	.5300	-,0486	0022	0026	0199	5.18	.684
.166	1.93 (40.39)	.05	22.65	2.6384	.5984	.0412	.0066	.0032	0171	4.41	.685

RUN N	UMBER 133	LONGI	TUDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA.DEG	ALPHA, DEG	CL	ĊD	CPM	CRM	CYM	CSF	L/0	H/B
.204	2.89 (60.36)	.01	-3.80	.7461	.1744	5388	0107	.0013	0171	4.28	.421
•204	2.88 (60.24)	.01	-1.61	1.2385	.1871	6409	0077	.0014	0136	6.62	.465
.204	2.89 (60.26)	.01	.42	1.5254	.2085	6519	0092	.0012	0149	7.32	.508
.204	2,89 (60,36)	.00	2.43	1.7251	.2313	6277	0099	.0006	0109	7.46	.553
.204	2.89 (60.33)	.02	4.53	1.9356	.2549	5800	0112	.0003	0108	7.59	.599
.204	2.89 (60.36)	.01	6.53	2.1230	.2815	5369	0128	0004	0112	7.54	.645
.205	2,89 (60.41)	.03	8.55	2,2996	.3078	4853	0138	0011	0109	7.47	•685
.204	2.89 (60.29)	.03	10.71	2.4763	.3359	4186	0119	0001	0136	7.37	.684
.204	2,89 (60.27)	.03	12.68	2,5932	.3683	3651	0110	.0001	0215	7.04	.685
.204	2.88 (60.17)	.02	14.69	2.6301	.3947	3002	0039	.0032	0377	6.66	.685
.204	2.88 (60.06)	.00	16.63	2.6301	.4496	2881	.0100	.0060	0529	5.85	.685
.204	2,88 (60.17)	.01	18.67	2.7406	.4976	2252	.0065	.0029	0509	5.51	.685
PUN N	IMBER 134	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q,KPA (PSF)	BETA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.204	2.89 (60.39)	01	-3.85	.6142	.1558	4983	.0041	.0010	0067	3.94	.423
.204	2.89 (60.28)	01	-1.63	1.2877	.1781	-,6633	0010	.0002	0058	7.23	.464
.204	2.88 (60.23)	.00	.43	1.5790	.2018	6732	0030	0000	0042	7.82	.508
.204	2,88 (60.15)	.01	2.48	1.7954	.2230	-,6408	0027	.0006	0060	8.05	.553
.205	2.89 (60.44)	.01	4.53	1.9960	.2488	6034	0024	.0014	0084	8.02	.598
.205	2.90 (60.63)	.02	6.57	2.1860	.2785	5485	0086	0008	0055	7.85	.644
.204	2.89 (60.33)	.03	8.65	2.3801	.3075	4965	0087	0009	0064	7.74	.685
.205	2.89 (60.43)	.03	10.62	2.5507	.3365	4434	0083	0013	0075	7.58	.685
.205	2.89 (60.43)	.04	12.66	2.6750	.3706	3861	0044	.0017	0194	7.22	.685
.205	2.90 (60.49)	.03	14.66	2.6618	.3924	3209	.0050	.0050	0395	6.78	.685
.205	2.90 (60.59)	.04	16.68	2.7288	.4363	2711	.0075	.0046	0419	6.25	.685
.205	2.89 (60.43)	.05	18.65	2.8115	.4895	2237	.0085	.0033	0463	5.74	.685

i

PUN N	MAER 135	LUNGIT	UDINAL STAB	ILITY-AXIS	AND LATE	RAL BODY	AXIS DAT	A	TEST NUME	9ER 198	
MACH	D.KPA (PSF)	BETA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	СҮМ	CSF	L/D	HZB
.205	2.91 (60.74)	01	-3.91	.3422	.2726	.6053	.0032	.0011	0073	1.25	.414
.205	2.90 (60.55)	01	-1.79	.8586	.2703	<u>4765</u>	.0016	.0015	0054	3.18	•455
.205	2.90 (60.52)	01	.32	1.1786	.2774	.4142	0038	.0014	0137	4.25	.501
.205	2.90 (60.53)	00	2,38	1.4197	.2826	.3841	0056	.0015	0148	5.02	•546
•204	2.89 (60.39)	.00	4.45	1.6421	.2932	.3665	0041	.0021	0125	5.60	.593
.205	2.90 (60.51)	.01	6.51	1.8637	.3059	.3526	0047	.0018	0110	6.09	.639
.205	2.89 (60.46)	.03	8.56	2,0594	.3228	.3354	0072	.0011	0134	6.38	.685
+05+	2.89 (60.36)	.04	10.67	2.2642	.3410	.2908	0068	.0021	-+0141	6.64	.685
.204	2.89 (60.30)	.05	12.61	2.4450	.3669	.2436	0069	.0007	0147	6.66	.685
.205	2.89 (60.42)	.06	14.66	2,5648	.3947	.2380	-,0055	0009	0151	6,50	.685
•204	2.89 (60.34)	.03	16.69	2.6211	.4274	.1997	.0080	.0041	0193	6.13	.685
•204	2.89 (60.26)	.01	18.70	2.7393	.4686	.1752	.0089	.0053	0166	5.85	.685
RUN N	UMBER 136	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA+DEG	ALPHA,DEG	CL	CD	СРМ	CPM	CYM	CSF	L/D	H/8
.205	2.91 (60.68)	00	-3.88	.4151	.2297	.4303	.0006	.0015	0088	1.81	•415
+204	2.89 (60.40)	00	-1.72	.9378	.2288	.2842	0018	.0018	0110	4.10	.457
.205	2.89 (60.42)	00	.33	1.2682	.2347	.2060	0036	.0018	0099	5.40	.502
+204	2.89 (60.26)	.00	2.41	1.5159	.2436	.1669	0024	.0029	0103	6.22	.548
.204	2.88 (60.25)	.01	4.45	1.7380	.2581	.1109	0039	.0025	0103	6,73	.594
.204	2.88 (60.20)	.01	6.48	1.9542	,2807	.0548	0048	.0006	0088	6.96	.640
.204	2.88 (60.07)	.02	8.57	2.1722	.3081	.0072	0068	0002	0105	7.05	.684
.204	2.89 (60.26)	.03	10.64	2,3695	.3382	0433	0079	0003	0110	7.01	.685
+05.	2.89 (60.28)	.03	12.64	2.5432	.3712	0676	0059	.0008	0141	6.85	.685
.205	2.89 (60.42)	.04	14.68	2.6522	.4000	0720	0057	0009	0150	6.63	.685
.205	2.89 (60.44)	.02	16.64	2.6876	.4373	1459	.0033	.0011	0254	6.15	.685
.204	2.89 (60.30)	.01	18.70	2.7641	.5011	2499	.0116	.0037	0409	5.52	.685

PUN NI	IMBER 137	LONGIT	UDINAL STAB	ILITY-AXIS	AND LATE	ERAL BODY	AXIS DAT	N	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	BETA, DEG	ALPHA, DEG	CL	CĐ	СРМ	CRM	Сүм	CSF	L/D	H/R
.205	2.90 (60.59)	01	-3.89	.5058	.1835	.1706	.0019	.0007	0051	2.76	.416
.204	2.89 (60.30)	01	-1.71	1.0360	.1906	.0006	0011	0000	0026	5.44	.459
.205	2.90 (60.55)	.00	.38	1.3655	.2094	0968	0039	.0004	0081	6.52	.504
.205	2.90 (60.55)	.01	2.43	1.6020	.2299	1519	0039	.0006	0050	6.97	.550
.204	2.89 (60.36)	.01	4.50	1.8409	.2536	2008	0057	.0004	0056	7.26	.597
.204	2.88 (60.22)	.02	6.55	2.0605	.2823	-,2430	0067	.0001	0078	7.30	.643
.205	2.90 (60.53)	.03	8.62	2.2736	.3133	2886	0080	-,0009	0052	7.26	.684
.205	2.90 (60.55)	.04	10.60	2.4647	.3437	3281	0093	0012	0054	7.17	.685
.205	2.89 (60.43)	.05	12.68	2.6412	.3813	-,3511	0060	.0005	0081	6.93	.685
.205	2.90 (60.46)	.06	14.67	2.7380	.4136	-,3402	0075	0021	-,0076	6.62	.685
.205	2.89 (60.45)	.04	16.69	2.7859	.4514	3332	.0048	.0029	0166	6.17	.684
.204	2.89 (60.31)	.04	18.68	2.8945	.4928	3237	.0072	•0047	0160	5.87	.685
RUN N	HMBER 138	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	RETA, DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
.205	2.90 (60.50)	01	-3.82	.6189	.1757	1202	0011	.0012	0099	3.52	.418
.205	2.89 (60.46)	00	-1.67	1.1460	.1863	2860	.0006	.0003	0029	6.15	•462
.205	2.90 (60.56)	.00	•38	1.4633	.2061	-,3845	0032	.0003	0041	7.03	.506
.205	2.90 (60.53)	.00	2.46	1.7040	.2311	4342	0037	.0009	0066	7.37	.552
.205	2.90 (60.47)	.01	4.50	1.9348	.2579	4831	0057	.0007	0084	7,50	.598
.205	2.90 (60.51)	.02	6.54	2.1474	.2916	5241	0073	.0001	0073	7.36	•644
.204	2.89 (60.31)	.03	8.61	2.3736	.3212	-,5735	0102	0012	0042	7.39	.685
•204	2.89 (60.28)	•04	10.61	2.5561	.3590	6144	0111	0012	0058	7.12	.685
.204	2.89 (60.30)	.04	12.71	2.7400	.3963	6380	0084	.0006	0099	6,91	.684
.204	2.88 (60.08)	.05	14.71	2.8463	.4324	6206	0102	0020	0076	6,58	.685
.204	2.88 (60.09)	.07	16.74	2.9770	.4746	6160	0104	0012	0108	6.27	.684
.204	2.87 (59.99)	.08	18,77	3.0411	.5221	6043	0104	0017	0105	5.83	.684

_	-
~	
_	
-	-

RUN N	IUMRER 139	LONGI	TUDINAL STAB	ILITY-AXIS	LITY-AXIS AND LATERAL RODY-AXIS DATA					TEST NUMBER 198		
MACH	Q,KPA (PSF)	BETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8	
.204	2.89 (60.29)	01	-3.81	.7509	.1741	4598	0053	.0012	0127	4.31	.420	
.204	2.88 (60.17)	01	-1.67	1.2649	.1881	6185	0056	0000	0056	6.73	.463	
.204	2.88 (60.16)	.00	_41	1.5954	,2128	7151	0076	.0000	0072	7.50	.507	
.204	2.88 (60.12)	.01	2.46	1.8172	.2405	-,7645	0085	0002	0067	7.56	.553	
.204	2,87 (60.02)	.01	4.52	2.0364	,2733	-,8121	0086	.0001	0070	7.45	.599	
.204	2.88 (60.15)	.02	6.63	2.2748	,3057	8549	0088	.0003	0073	7.44	.647	
.204	2.88 (60.10)	.03	8.61	2.4660	,3431	8944	-,0106	0003	0088	7.19	.685	
.204	2.88 (60.09)	.04	10.66	2.6540	,3801	-,9339	0100	0001	0089	6.98	.684	
.204	2.88 (60.19)	.05	12.70	2,8376	.4222	9612	0115	0008	0105	6.72	.685	
.204	2.88 (60.24)	.06	14.73	2.9447	.4608	-,9362	0128	0031	0105	6.39	.684	
.204	2.89 (60.41)	.08	16.77	3.0728	.5039	9171	0133	0032	0099	6.10	.685	
.204	2.89 (60.35)	.14	18.63	3.1084	.5442	-,8486	0167	0054	0134	5.71	.684	
PUN N	UMBER 140	LONGIT		IL ITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	۵	TEST NUM	AFD 199		
								-	1001 100	NEN 170		
MACH	Q.KPA (PSF)	BETA.DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в	
MACH	Q.KPA (PSF) 2.89 (60.36)	BETA.DEG	ALPHA,DEG	CL .8761	CD	СРН -,7555	CRM 0023	CYM •0012	CSF	L/D 4.91	H/B •422	
.204 .204	Q+KPA (PSF) 2.89 (60+36) 2.89 (60+29)	BETA.DEG 01 01	ALPHA,DEG -3.77 -1.64	CL .8761 1.3661	CD •1785 •1958	СРМ -,7555 -,9067	CRM 0023 0081	CYM =0012 =•0000	CSF 0095 0063	L/D 4.91 6.98	H/B •422 •464	
.204 .204 .204	Q.KPA (PSF) 2.89 (60.36) 2.89 (60.29) 2.89 (60.34)	PETA.DEG 01 01 00	ALPHA,DEG -3.77 -1.64 .42	CL .8761 1.3661 1.6694	CD •1785 •1958 •2256	СРМ 7555 9067 9986	CRM 0023 0081 0096	CYM •0012 •0000 •0000	CSF 0095 0063 0083	L/D 4.91 6.98 7.40	H/B •422 •464 •509	
MACH •204 •204 •204 •204	Q.KPA (PSF) 2.89 (60.36) 2.89 (60.29) 2.89 (60.34) 2.88 (60.18)	BETA.DEG 01 01 00 .01	ALPHA, DEG -3.77 -1.64 .42 2.51	CL •8761 1•3661 1•6694 1•9147	CD •1785 •1958 •2256 •2561	СРМ 7555 9067 9986 -1.0542	CRM 0023 0081 0096 0098	CYM -0012 -0000 -0000 -0003	CSF 0095 0063 0083 0091	L/D 4.91 6.98 7.40 7.48	H/B •422 •464 •509 •555	
MACH •204 •204 •204 •204 •204	Q.KPA (PSF) 2.89 (60.36) 2.89 (60.29) 2.89 (60.34) 2.88 (60.18) 2.88 (60.13)	BETA, DEG 01 01 00 .01 .02	ALPHA, DEG -3.77 -1.64 .42 2.51 4.56	CL •8761 1•3661 1•6694 1•9147 2•1444	CD •1785 •1958 •2256 •2561 •2885	СРМ 7555 9067 9986 -1.0542 -1.0952	CRM 0023 0081 0096 0098 0103	CYM -0012 -0000 -0000 .0003 .0006	CSF 0095 0063 0083 0091 0109	L/D 4.91 6.98 7.40 7.48 7.43	H/B •422 •464 •509 •555 •602	
MACH •204 •204 •204 •204 •204 •205	Q.KPA (PSF) 2.89 (60.36) 2.89 (60.29) 2.89 (60.34) 2.88 (60.18) 2.88 (60.13) 2.88 (60.13)	RETA.DEG 01 01 .01 .01 .02 .03	ALPHA, DEG -3.77 -1.64 .42 2.51 4.56 6.63	CL •8761 1•3661 1•6694 1•9147 2•1444 2•3534	CD .1785 .1958 .2256 .2561 .2885 .3262	СРМ 7555 9067 9986 -1.0542 -1.0952 -1.1257	CRM 0023 0081 0096 0098 0103 0091	CYM -0012 -0000 -0000 0003 -0006 -0006	CSF 0095 0063 0083 0091 0109 0089	L/D 4.91 6.98 7.40 7.48 7.43 7.21	H/B •422 •464 •509 •555 •602 •648	
MACH .204 .204 .204 .204 .204 .204 .205 .205	Q+KPA (PSF) 2.89 (60.36) 2.89 (60.29) 2.89 (60.34) 2.88 (60.13) 2.88 (60.13) 2.99 (60.46) 2.90 (60.51)	RETA.DEG 01 00 .01 .02 .03 .04	ALPHA, DEG -3.77 -1.64 .42 2.51 4.56 6.63 8.61	CL .8761 1.3661 1.6694 1.9147 2.1444 2.3534 2.5482	CD •1785 •1958 •2556 •2561 •2885 •3262 •3613	СРН 7555 9067 9986 -1.0542 -1.0952 -1.1257 -1.1551	CRM 0023 0081 0098 0098 0103 0091 0104	CYM -0012 -0000 -0000 0003 0006 0006 -0006	CSF 0095 0063 0083 0091 0109 0089 0105	L/D 4.91 6.98 7.40 7.48 7.43 7.21 7.05	H/B •422 •464 •509 •555 •602 •648 •685	
HACH • 204 • 204 • 204 • 204 • 204 • 205 • 205 • 205	Q.KPA (PSF) 2.89 (60.36) 2.89 (60.29) 2.89 (60.34) 2.88 (60.18) 2.88 (60.13) 2.89 (60.46) 2.90 (60.51) 2.89 (60.34)	RETA.DEG 01 00 .01 .02 .03 .04 .05	ALPHA, DEG -3,77 -1.64 .42 2.51 4.56 6.63 8.61 10,69	CL •8761 1•3661 1•6694 1•9147 2•1444 2•3534 2•5482 2•7303	CD 1785 1958 2256 2561 2885 3262 3613 4018	СРН 7555 9067 9986 -1.0542 -1.0952 -1.1257 -1.1551 -1.1828	CRM 0023 0081 0096 0098 0103 0091 0104 0109	CYM -0012 -0000 -0000 -0003 -0006 -0006 -0006 -0006	CSF 0095 0063 0083 0091 0109 0189 0105 0101	L/D 4.91 6.98 7.40 7.48 7.43 7.21 7.05 6.79	H/B •422 •564 •555 •602 •648 •685 •685	
HACH • 204 • 204 • 204 • 204 • 204 • 205 • 205 • 205 • 204 • 204	Q.KPA (PSF) 2.89 (60.36) 2.89 (60.32) 2.89 (60.34) 2.88 (60.18) 2.88 (60.13) 2.89 (60.46) 2.90 (60.51) 2.89 (60.42) 2.89 (60.42)	RETA.DEG 01 01 .01 .02 .03 .04 .05 .07	ALPHA, DEG -3.77 -1.64 .42 2.51 4.56 6.63 8.61 10.69 12.73	CL •8761 1•3661 1•6694 1•9147 2•1444 2•3534 2•5482 2•7303 2•9069	CD •1785 •1958 •2256 •2561 •2885 •3262 •3613 •4018 •4448	CPH 7555 9067 9986 -1.0542 -1.0952 -1.1257 -1.1257 -1.1551 -1.1828 -1.2017	CRM 0023 0081 0096 0098 0103 0104 0109 0117	CYM -0012 -0000 -0003 -0003 -0006 -0006 -0006 -0001 -00016	CSF 0095 0063 0083 0091 0109 0109 0105 0101 0103	L/D 4.91 6.98 7.40 7.48 7.43 7.21 7.05 6.53	H/B •422 •464 •555 •602 •648 •685 •685	
MACH • 204 • 204 • 204 • 204 • 204 • 205 • 205 • 204 • 204 • 204	Q+KPA (PSF) 2.89 (60.36) 2.89 (60.29) 2.89 (60.34) 2.88 (60.18) 2.88 (60.13) 2.89 (60.46) 2.90 (60.51) 2.89 (60.34) 2.89 (60.34)	PETA.DEG 01 01 .02 .03 .04 .05 .07 .08	ALPHA, DEG -3.77 -1.64 .42 2.51 4.56 6.63 8.61 10,69 12.73 14.75	CL .8761 1.3661 1.6694 1.9147 2.1444 2.3534 2.5482 2.7303 2.9069 3.0029	CD 1785 1958 2256 2561 2885 3262 3613 4018 4448 4485	CPM 7555 9067 9986 -1.0542 -1.0552 -1.1257 -1.1551 -1.1828 -1.2017 -1.1634	CRM 0023 0081 0096 0098 0103 01091 0104 0109 0117 0124	CYM .0012 0000 0003 .0003 .0006 .0006 .0006 .0006 .0007 00016	CSF 0095 0063 0091 0109 0109 0105 0105 0101 0103 0147	L/D 4.91 6.98 7.40 7.48 7.43 7.21 7.05 6.79 6.53 6.15	H/B •422 •464 •509 •555 •602 •648 •685 •685 •685	
MACH 204 204 204 204 204 205 205 205 204 204 204 204	Q.KPA (PSF) 2.89 (60.36) 2.89 (60.29) 2.89 (60.34) 2.88 (60.18) 2.88 (60.13) 2.89 (60.46) 2.90 (60.51) 2.89 (60.42) 2.89 (60.42) 2.89 (60.34) 2.89 (60.27)	BETA.DEG 01 00 .02 .03 .04 .05 .07 .08 .10	ALPHA, DEG -3.77 -1.64 .42 2.51 4.56 6.63 8.61 10.69 12.73 14.75 16.78	CL .8761 1.3661 1.6694 1.9147 2.1444 2.53534 2.5363 2.9069 3.0029 3.1111	CD 1785 1958 2256 2561 2885 3262 3613 4018 4448 4885 5418	CPH 7555 9067 9986 -1.0542 -1.0952 -1.1257 -1.1551 -1.1828 -1.2017 -1.1634 -1.1176	CRM 0023 0081 0096 0098 0103 0104 0104 0124 0123	CYM -0012 -0000 -0000 0006 -0006 -0006 -0001 -0016 -0014	CSF 0095 0063 0091 0109 0109 0105 0101 0103 0147 0157	L/D 4.91 6.98 7.40 7.43 7.43 7.43 7.43 7.43 7.43 6.79 6.53 6.15 5.74	H/B •422 •464 •509 •555 •602 •648 •685 •685 •685 •685 •684	

RUN N	UMRER 141	LONGI	TUDINAL STAB	ILITY-AXIS	AND LAT	FERAL BODY	-AXIS DAT	A	TEST NUMBER 198		8		
MACH	Q.KPA (PSF)	BETA.DEG	ALPHA+DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8		
.205	2.90 (60.59)	01	-3.76	.9268	1947	-1.0574	0050	.0011	0082	4.76	.424		
.205	2.90 (60.53)	01	-1.58	1.4857	,2136	+1.2343	0068	.0005	0072	6.95	.467		
.205	2.90 (60.50)	00	•45	1.7795	,2464	-1.3164	0109	0010	0069	7.22	.511		
.204	2.89 (60.26)	.01	2.50	1.9991	,2799	-1,3536	0113	0014	0034	7.14	.556		
.205	2.90 (60.54)	.02	4,61	2.2272	,3145	-1,3717	0086	0008	0014	7.08	.603		
.204	2.89 (60.42)	.03	6.64	2.4244	.3544	-1.3809	0105	0034	.0006	6.84	.650		
.204	2.89 (60.36)	.04	8,63	2.6033	.4004	-1.3895	0121	0022	0017	6.50	.685		
.204	2.88 (60.21)	.05	10.74	2.7737	.4476	-1.3785	0123	0025	0035	6,20	.685		
.204	2.88 (60.21)	.06	12.73	2.9414	,4889	-1.3577	0117	0017	+.0082	6.02	.685		
.204	2.88 (60.24)	.08	14.77	3.0202	.5339	-1.2727	0123	0021	0116	5.66	.685		
.204	2.89 (60.30)	.09	16.80	3.1251	5787	-1,1958	0130	0026	0133	5.40	.685		
.204	2.89 (60.28)	.06	18,65	3.0185	.6317	-1,1594	.0028	•0074	0473	4.78	.686		
	U48ER 142	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198			
MACH	Q+KPA (PSF)	BETA.DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8		
.205	2.90 (60.58)	-10.03	-3.85	.6412	.1391	-,3318	.0078	0357	.2715	4.61	.419		
.205	2.89 (60.45)	-10.03	-1.72	1.1275	.1512	4101	.0186	0296	.2366	7.46	.462		
.204	2.89 (60.29)	-10.03	.38	1.4944	,1764	4500	.0282	0257	.2133	8.47	,506		
+05+	2.88 (60.11)	-10.04	2,45	1.7305	,2002	4933	.0315	0239	.2058	8.64	•552		
.204	2.87 (59.98)	-10.05	4.52	1.9526	,2298	5394	.0319	0230	.2027	8,50	.599		
.204	2.87 (59.99)	-10.05	6,58	2.1738	.2645	5911	.0304	0232	.2020	8.22	.646		
.204	2.88 (60.24)	-10.06	8.60	2.3825	,2985	6359	.0333	0237	.2054	7.98	.685		
.204	2.89 (60.30)	-10.08	10.67	2.5589	.3361	6677	.0368	0233	.2036	7.61	.685		
.204	2.68 (60.17)	-10.09	12,68	2.7266	.3738	6897	.0389	0232	.2015	7.29	.684		
.204	2.89 (60.28)	-10,10	14.70	2.8312	.4164	6736	.0423	0249	.2067	6.80	.684		
.204	2.89 (60.30)	-10.10	16.68	2.8572	4585	6566	.0365	0295	.2081	6.23	.684		
.204	2.88 (60.18)	-10.24	18.64	2.6972	.5101	5518	.0569	0260	.2255	5.29	.684		

MACH 0,KPA (PSF) RETA,DEG ALPHA,DEG CL CD CPH CRH CYH CSF L/D H/R 204 2.89 (60.37) -5.00 -3.88 .5676 .1651 1769 .0028 0190 .1487 3.44 .419 204 2.89 (60.43) -5.01 -1.67 1.1683 .1803 3166 .0102 0115 .1076 7.55 .556 204 2.89 (60.43) -5.03 2.43 1.7240 .2203 4472 .0138 0107 .1032 7.63 .551 204 2.89 (60.43) -5.06 6.55 2.1817 .2792 5519 .0134 0103 .1001 7.77 .659 204 2.89 (60.28) -5.06 1.656 2.7225 .3866 6526 .0155 0134 .0097 7.06 .664 204 2.88 (60.17) -5.12 16.68 2.8461 .4720 6526 .0155 .0134 .09797 .7.66 .663 .663	RUN NUMBER 143		LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
.204 2.89 (60.39) -5.00 -3.88 .5676 .16511769 .00280190 .1487 3.44 .419 .204 2.89 (60.37) -5.01 -1.67 1.1683 1.8033166 .01020133 .1160 6.48 .462 .204 2.89 (60.43) -5.02 .39 1.5061 .19863988 .01210115 .1076 7.58 .506 .204 2.89 (60.43) -5.03 2.43 1.7240 .22034472 .01380107 .1032 7.83 .551 .204 2.89 (60.36) -5.05 4.53 1.9445 .25035001 .01560103 .1001 7.77 .59 .204 2.89 (60.39) -5.06 6.55 2.1817 .27925519 .01340109 .0977 7.82 .644 .204 2.89 (60.32) -5.07 8.70 2.3914 .31615951 .01340123 .1015 7.55 .665 .204 2.89 (60.32) -5.07 8.70 2.3914 .31615951 .01340123 .1017 7.31 .664 .204 2.89 (60.32) -5.07 8.70 2.3914 .31615551 .0134 .0123 .1017 7.31 .664 .204 2.88 (60.25) -5.07 12.66 2.7725 .38566526 .01550134 .0997 7.66 .664 .204 2.88 (60.19) -5.10 14.69 2.8103 .42776636 .01730155 .0059 6.57 .665 .204 2.89 (60.35) -5.11 18.68 2.8667 .53726538 .02490154 .0961 6.03 .665 .204 2.89 (60.35) -5.14 18.68 2.8627 .53726538 .02490154 .0961 6.03 .665 .204 2.89 (60.36) 5.00 -3.87 .6295 .168614140106 .01721187 3.73 .417 .204 2.89 (60.40) 5.00 -3.87 .6295 .168614140106 .01721187 3.73 .417 .204 2.89 (60.40) 5.00 -3.87 .6295 .168614140106 .01721187 3.73 .417 .204 2.89 (60.40) 5.00 -3.87 .6295 .168614140106 .01721187 3.73 .417 .204 2.89 (60.40) 5.00 2.44 1.6933 .221144690258 .01181051 7.56 .505 .204 2.89 (60.40) 5.00 2.44 1.6933 .221144690258 .01181051 7.56 .505 .204 2.89 (60.41) 5.00 2.44 1.6933 .221144690288 .01181051 7.56 .505 .204 2.89 (60.43) 5.02 8.461 2.3782 .378553790328 .01070388 7.66 .552 .204 2.89 (60.43) 5.02 8.461 2.3518 .313855130348 .01071038 7.66 .552 .204 2.89 (60.43) 5.02 8.461 2.3518 .313855130348 .01071038 7.66 .552 .204 2.89 (60.43) 5.02 8.461 2.505753590328 .01071038 7.66 .552 .204 2.89 (60.43) 5.02 8.461 2.566 2.754 .385564640343 .01141096 7.05 .554 .204 2.88 (60.14) 5.00 14.468 2.3553 .348761380348 .01061041 7.49 .664 .204 2.88	MACH	Q, KPA (PSF)	RETA.DEG	ALPHA, DEG	CL	сл	Срм	CRM	CYM	CSF	L/D	H/B
204 2.89 (60.37) -5.01 -1.67 1.1683 .1803 3166 .0102 0113 .1160 6.48 .462 204 2.89 (60.43) -5.03 2.43 1.7240 .2203 4472 .0138 0107 .1032 7.83 .551 .204 2.89 (60.43) -5.03 2.43 1.7240 .2203 4472 .0138 0107 .1032 7.83 .551 .204 2.89 (60.36) -5.06 6.55 2.1817 .2792 .5519 .0134 .0107 7.31 .664 .204 2.89 (60.21) -5.08 10.66 2.7225 .3856 6526 .0155 0134 .0997 7.86 .664 .204 2.88 (60.17) -5.10 14.69 2.8103 .4277 .6636 .0173 .0155 .0959 6.57 .6635 .204 2.88 (60.17) -5.12 16.68 2.8627 .5372 6538 .0248 .0961 6.03 .6684 .204 2.89 (60.43) -5.00 -3.87 .6295 .1686 </td <td>•204</td> <td>2.89 (60.39)</td> <td>-5.00</td> <td>-3,88</td> <td>.5676</td> <td>.1651</td> <td>1769</td> <td>.0028</td> <td>-,0190</td> <td>.1487</td> <td>3.44</td> <td>.419</td>	•204	2.89 (60.39)	-5.00	-3,88	.5676	.1651	1769	.0028	-,0190	.1487	3.44	.419
.204 2.89 (60.41) -5.07 .39 1.5061 .1986 3988 .0121 0115 .1076 7.58 .508 .204 2.89 (60.43) -5.03 2.43 1.7240 .2203 4472 .0136 0107 .1032 7.83 .551 .204 2.89 (60.36) -5.05 4.53 1.9445 .2503 5011 .0156 0103 .1001 7.77 .999 .204 2.89 (60.32) -5.07 8.70 2.3914 .3161 5051 .0134 0103 .1001 7.77 .820 .204 2.89 (60.32) -5.07 8.70 .3515 6313 .0139 0130 .1007 7.31 .644 .204 2.88 (60.42) -5.09 12.66 2.7225 .3856 6526 .0155 0134 .0997 7.06 .684 .204 2.88 (60.35) -5.14 18.68 2.8627 .5372 6538 .0249 0162 .0870 5.33 .6655	.204	2.89 (60.37)	-5.01	-1.67	1.1683	.1803	3166	.010S	0133	.1160	6.48	.462
.204 2.89 (60.43) -5.03 2.43 1.7240 .2203 4472 .0138 0107 .1032 7.83 .551 .204 2.89 (60.36) -5.05 4.53 1.9445 .2203 5010 .1051 0103 .1001 7.77 .559 .204 2.89 (60.36) -5.07 8.70 2.3914 .3161 5951 .0134 0123 .1015 7.56 .684 .204 2.89 (60.32) -5.06 10.66 2.5677 .3515 6313 .0139 0134 .00977 7.06 .684 .204 2.88 (60.17) -5.10 14.69 2.8103 .4277 6546 .0155 0134 .0997 7.06 .685 .204 2.88 (60.17) -5.12 16.68 2.8461 .4720 6542 .0230 0154 .0961 6.03 .885 .204 2.89 (60.35) -5.14 18.68 2.8627 .5372 6538 .0249 0162 .0870 5.33 .665	.204	2.89 (60.41)	-5.02	.39	1.5061	.1986	3988	.0121	0115	1076	7.58	.506
.204 2.89 (60.36) -5.05 4.53 1.9445 .2503 5001 .0156 0103 .1001 7.77 .5599 .204 2.89 (60.39) -5.06 6.55 2.1817 .2792 5519 .0134 0109 .0977 7.82 .644 .204 2.89 (60.32) -5.07 8.70 2.3914 .3161 5551 .0134 0123 .1015 7.56 .644 .204 2.88 (60.42) -5.07 8.70 2.3914 .3161 5551 .0134 0123 .1017 7.31 .664 .204 2.88 (60.41) -5.10 14.69 2.8103 .4277 6636 .0173 0154 .0961 6.03 .685 .204 2.88 (60.35) -5.14 18.68 2.8627 .5372 6538 .0249 0162 .0870 5.33 .685 RUN NUMBER 144 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 .204 2.89 (60.40) 5.00 -3.87 .6295 .168	+05+	2.89 (60.43)	-5.03	2.43	1.7240	.2203	4472	.0138	0107	.1032	7.83	.551
.204 2.89 (60.39) -5.06 6.55 2.1817 .2792 5519 .0134 0109 .0977 7.82 .644 .204 2.89 (60.32) -5.07 8.70 2.3914 .3161 5951 .0134 0123 .1015 7.56 .683 .204 2.89 (60.32) -5.08 10.66 2.5677 .3515 6313 .0139 0134 .0997 7.06 .684 .204 2.88 (60.17) -5.10 14.69 2.8103 .4277 6636 .0173 0155 .0959 6.57 .685 .204 2.88 (60.17) -5.12 16.66 2.8461 .4720 6532 .0230 0162 .0870 5.33 .685 .204 2.89 (60.35) -5.14 18.68 2.8627 .5372 6538 .0249 0162 .0870 5.33 .685 .204 2.89 (60.40) 5.00 -3.87 .6295 .1686 1414 0106 .0172 1187 3.73 .417<	.204	2.89 (60.36)	-5,05	4.53	1.9445	.2503	5001	.0156	0103	.1001	7.77	.599
.204 2.89 (60.28) -5.07 8.70 2.3914 .3161 5951 .0134 0123 .1015 7.56 .685 .204 2.89 (60.25) -5.08 10.66 2.5677 .3515 6513 .0139 0130 .1007 7.31 .684 .204 2.88 (60.25) -5.09 12.66 2.725 .3856 6526 .0155 .0055 6.57 .685 .204 2.88 (60.17) -5.12 16.68 2.8461 .4770 6532 .0230 0154 .0951 6.657 .685 .204 2.89 (60.35) -5.14 18.68 2.8627 .5372 6538 .0249 0162 .0870 5.33 .685 RUN NUMBER 144 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.89 (60.40) 5.00 -3.87 .6295 .1686 1414 0106 .0172	+02.	2.89 (60.39)	-5,06	6.55	2,1817	.2792	5519	.0134	0109	.0977	7.82	.644
.204 2.89 (60.32) -5.08 10.66 2.5677 .3515 6313 .0130 0130 1007 7.31 .664 .204 2.88 (60.425) -5.09 12.66 2.7225 .3856 6526 .0155 0134 .0997 7.06 .6684 .204 2.88 (60.17) -5.10 14.69 2.8103 .4277 6636 .0155 0154 .0961 6.03 .685 .204 2.88 (60.17) -5.12 16.68 2.8461 .4720 6532 .0230 0154 .0961 6.03 .685 .204 2.89 (60.35) -5.14 18.68 2.8627 .5372 6538 .0249 0162 .0870 5.33 .685 RUN NUMBER 144 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198	•204	2.89 (60.28)	-5.07	8.70	2.3914	.3161	5951	.0134	0123	.1015	7.56	.685
.204 2.88 (60.25) -5.00 12.66 2.7225 .3856 6526 .0155 0134 .0997 7.06 .684 .204 2.88 (60.19) -5.10 14.69 2.8103 .4277 6636 .0173 0155 .0959 6.57 .685 .204 2.88 (60.17) -5.12 16.68 2.8461 .4720 6532 .0230 0154 .0951 6.53 .685 .204 2.89 (60.35) -5.14 18.68 2.8627 .5372 6538 .0249 0162 .0870 5.33 .685 RUN NUMBER 144 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 .0248 .0152 .0172 1187 3.73 .417 .204 2.89 (60.40) 5.00 -3.87 .6295 .1686 1414 0106 .0172 1187 3.73 .417 .204 2.89 (60.40) 5.00 -3.87 .6295 .1686 1414 0106 .0172 .1187 3.73 .417	.204	2.89 (60.32)	-5.08	10.66	2.5677	.3515	6313	.0139	0130	.1007	7.31	.684
.204 2.88 (60.19) -5.10 14.69 2.8103 .4277 6636 .0173 0155 .0959 6.57 .665 .204 2.88 (60.17) -5.12 16.68 2.8461 .4720 6542 .0230 0154 .0961 6.03 .685 .204 2.89 (60.35) -5.14 18.68 2.8627 .5372 6538 .0249 0162 .0070 5.33 .685 RUN NUMBER 144 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.89 (60.40) 5.00 -3.87 .6295 .1686 1414 0106 .0172 1187 3.73 .417 .204 2.89 (60.41) 5.00 -3.87 .6295 .1686 1414 0106 .0172 .1187 3.73 .417 .204 2.89 (60.41) 5.00 2.44 1.6933 .211 4469 .0280 .0107 .0390 7.66 .55	.204	2.88 (60.25)	-5.09	12.66	2.7225	.3856	6526	.0155	0134	.0997	7.06	.684
.204 2.88 (60.17) -5.12 16.68 2.8461 .4720 6542 .0230 0154 .0961 6.03 .685 .204 2.89 (60.35) -5.14 18.68 2.8627 .5372 6538 .0248 0162 .0070 5.33 .685 RUN NUMBER 144 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.89 (60.40) 5.00 -3.87 .6295 .1686 1414 0106 .0172 1187 3.73 .417 .204 2.89 (60.40) 5.00 -3.87 .6295 .1686 1414 0106 .0172 1187 3.73 .417 .204 2.89 (60.41) 5.00 2.44 .16933 .2211 4469 0258 .0118 .1051 7.55 .504 .552 .204 2.89 (60.43) 5.00 2.44 .6933	.204	2.88 (60.19)	-5.10	14.69	2.8103	.4277	6636	.0173	0155	.0959	6.57	.685
.204 2.89 (60.35) -5.14 18.68 2.8627 .5372 6538 .0249 0162 .0870 5.33 .685 RUN NUMBER 144 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.89 (60.40) 5.00 -3.87 .6295 .1686 1414 0106 .0172 1187 3.73 .417 .204 2.89 (60.36) 4.99 -1.70 1.1762 .1787 3183 0205 .0139 1116 6.58 .461 .204 2.89 (60.41) 5.00 2.44 1.6933 .2211 4469 0258 .0118 1051 7.56 .552 .204 2.89 (60.43) 5.00 4.47 1.9026 .2205 0280 .0107 1038 7.66 .552 .204 2.89 (60.43) 5.00 6.54 2.1282 .2785 5359	.204	2.88 (60.17)	-5.12	16.68	2.8461	.4720	6542	.0230	0154	.0961	6.03	.685
RUN NUMBER 144 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0,KPA (PSF) RETA,DEG ALPHA,DEG CL CD CPH CRM CYM CSF L/D H/B .204 2.89 (60.40) 5.00 -3.87 .6295 .1686 1414 0106 .0172 1187 3.73 .417 .204 2.89 (60.40) 5.00 -3.87 .6295 .1686 1414 0106 .0172 1187 3.73 .417 .204 2.89 (60.41) 5.00 2.44 .16933 .2211 4026 0258 .0118 1051 7.56 .506 .204 2.89 (60.41) 5.00 2.44 1.6933 .2211 4469 0280 .0107 0960 7.66 .552 .204 2.89 (60.43) 5.00 4.47 1.9026 .2765 0328 .0107 1083 7.27 .598 .204	•204	2.89 (60.35)	-5,14	18,68	2.8627	.5372	-,6538	.0248	0162	.0870	5.33	.685
MACH 0,KPA (PSF) RETA, DEG ALPHA, DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.89 (60+40) 5.00 -3.87 .6295 .1686 1414 0106 .0172 1187 3.73 .417 .204 2.89 (60+36) 4.99 -1.70 1.1762 .1787 3183 0205 .0139 1116 6.58 .461 .204 2.89 (60+34) 4.99 .39 1.4825 .1961 4026 0255 .0118 1051 7.56 .506 .204 2.89 (60+41) 5.00 2.44 1.6933 .2211 4469 .0280 .0107 0980 7.66 .552 .204 2.89 (60+33) 5.00 4.47 1.9026 .2505 4923 0280 .0107 1016 7.59 .598 .204 2.89 (60+43) 5.01 6.54 2.1282 .2785 5359 0328 .0107 1038 7.64 .645	RUN N	UMBER 144	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	масн	G.KPA (PSF)	BETA.DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.89 (60.40)	5.00	-3.87	.6295	.1686	1414	0106	.0172	1187	3.73	.417
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.89 (60.36)	4,99	-1,70	1.1762	.1787	3183	0205	.0139	1116	6.58	.461
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.89 (60.34)	4,99	.39	1.4825	.1961	4026	0258	.0118	1051	7,56	.506
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.89 (60.41)	5.00	2.44	1.6933	.2211	4469	0280	.0107	0980	7.66	,552
.205 2.89 (60.46) 5.01 6.54 2.1282 .2785 5359 0328 .0107 1038 7.64 .645 .204 2.89 (60.43) 5.02 8.60 2.3518 .3138 5813 0348 .0106 1041 7.49 .684 .204 2.89 (60.38) 5.03 10.60 2.553 .3487 6138 0313 .0123 1083 7.27 .685 .204 2.89 (60.25) 5.04 12.66 2.7254 .3865 6469 0343 .0114 1096 7.05 .684 .204 2.88 (60.18) 5.06 14.68 2.8528 .4256 6534 0391 .0107 1102 6.70 .685 .204 2.88 (60.14) 5.10 16.77 2.9348 .4256 6536 0391 .0107 1087 6.30 .685 .203 2.87 (59.45) 5.21 18.69 2.9335 .5267 6357 .0021 1007 5.57 .685 <td>.204</td> <td>2.89 (60.33)</td> <td>5.00</td> <td>4.47</td> <td>1.9026</td> <td>.2505</td> <td>4923</td> <td>0289</td> <td>.0109</td> <td>1016</td> <td>7,59</td> <td>.598</td>	.204	2.89 (60.33)	5.00	4.47	1.9026	.2505	4923	0289	.0109	1016	7,59	.598
.204 2.89 (60.43) 5.02 8.60 2.3518 .3138 5813 0348 .0106 1041 7.49 .664 .204 2.89 (60.38) 5.03 10.60 2.5353 .3487 6138 0313 .0123 1083 7.27 .665 .204 2.88 (60.25) 5.04 12.66 2.7254 .3865 6469 0343 .0114 1096 7.05 .664 .204 2.88 (60.18) 5.06 14.68 2.87528 .4256 6534 0107 1102 6.70 .685 .204 2.88 (60.14) 5.10 14.67 2.9348 .4256 6534 0301 .0107 1087 6.30 .685 .203 2.87 (59.45) 5.21 18.69 2.9335 .5267 6357 0620 .0015 1007 5.57 .685	.205	2.89 (60.46)	5.01	6.54	2.1282	.2785	5359	0328	.0107	1038	7.64	.645
.204 2.89 (60.38) 5.03 10.60 2.5353 .3487 6138 0313 .0123 1083 7.27 .685 .204 2.88 (60.25) 5.04 12.66 2.7254 .3865 6469 0343 .0114 1096 7.05 .664 .204 2.88 (60.18) 5.06 14.68 2.8528 .4256 6534 0391 .0107 1102 6.70 .685 .204 2.88 (60.18) 5.06 14.68 2.8528 .4256 6534 0391 .0107 1102 6.70 .685 .204 2.88 (60.14) 5.10 16.72 2.9348 .4658 6556 0506 .0091 1007 6.30 .685 .203 2.87 (59.85) 5.21 18.69 2.9335 .5267 6357 0620 .0015 1007 5.57 .685	+05.	2.89 (60.43)	5.02	8.60	2,3518	.3138	5813	0348	.0106	1041	7.49	.684
.204 2.88 (60.25) 5.04 12.66 2.7254 .386564690343 .01141096 7.05 .684 .204 2.88 (60.18) 5.06 14.68 2.8528 .425665340391 .01071102 6.70 .685 .204 2.88 (60.14) 5.10 16.72 2.9348 .465865660506 .00911087 6.30 .685 .203 2.87 (59.85) 5.21 18.69 2.9335 .526763570620 .00151007 5.57 .688	.204	2.89 (60.38)	5,03	10.60	2.5353	.3487	6138	0313	.0123	1083	7.27	.685
.204 2.88 (60.18) 5.06 14.68 2.8528 .425665340391 .01071102 6.70 .685 .204 2.88 (60.14) 5.10 16.72 2.9348 .465865660506 .00911087 6.30 .685 .203 2.87 (59.85) 5.21 18.69 2.9335 .526763570620 .00151007 5.57 .685	.204	2.88 (60.25)	5.04	12.66	2,7254	.3865	6469	0343	.0114	1096	7.05	.684
.204 2.88 (60.14) 5.10 16.77 2.9348 .465865660506 .00911087 6.30 .685 .203 2.87 (59.85) 5.21 18.69 2.9335 .526763570620 .00151007 5.57 .685	.204	2.88 (60.18)	5,06	14.68	2.8528	.4256	6534	0391	.0107	1102	6.70	.685
.203 2.87 (59.85) 5.21 18.69 2.9335 .526763570620 .00151007 5.57 .685	.204	2.88 (60.14)	5.10	16.72	2.9348	.4658	6566	0506	.0091	1087	6.30	.685
	.203	2.87 (59.85)	5,21	18.69	2.9335	.5267	6357	0620	.0015	1007	5.57	.685

RUN N	UMBER 145	LONGIT	TUDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q,KPA (PSF)	BFTA,DEG	ALPHA,DEG	CL	cn	СРМ	CRM	CYM	CSF	L/D	H/B
.117	.97 (20.29)	01	-3.78	.8090	.1786	6420	.0041	.0003	0140	4.53	.425
•117	.97 (20.35)	01	-1.64	1.4202	.2004	8320	.0004	.0006	0030	7.09	.471
•117	.97 (20.29)	.00	.45	1.7529	.2274	-,8461	0064	.0000	0075	7.71	.519
•117	.97 (20.26)	.01	2,50	1.9418	.2597	8216	0045	0004	0032	7.48	.567
•117	.97 (20.25)	.01	4.54	2.1481	.2857	7761	0045	.0002	0054	7.52	.614
•117	.97 (20.24)	.02	6.60	2.3433	.3112	7268	0031	.0008	0049	7.53	.663
•117	.97 (20.24)	.03	8.63	2.5022	.3418	6766	0033	.0001	0035	7.32	.684
•117	.97 (20.25)	.03	10.64	2.6461	.3738	6147	0049	0011	0047	7.08	.684
•117	.97 (20.26)	.04	12.68	2.7813	.4063	5556	0067	0027	0049	6.84	.684
•117	.97 (20.21)	.05	14.70	2.8567	.4364	4685	0049	0021	0087	6.55	.684
•117	.97 (20.20)	.06	16.70	2.9026	.4651	3747	.0007	.0019	0203	6.24	.684
•117	.97 (20,22)	.06	18.67	2.8694	.5358	-,3644	.0089	.0029	0420	5.36	.68
-117	.96 (20.11)	.09	20.70	2.8361	.5990	2604	0053	0054	0370	4.73	.68
.116	.96 (19.99)	.10	22.68	2.7811	.6624	1610	0073	0070	0360	4.20	.684
•117	.96 (20.15)	.13	24,66	2.6167	.7296	0444	0128	0159	0227	3.59	.68
RUN N	UMBER 146	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q+KPA (PSF)	BETA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.166	1.93 (40.31)	.02	-3,79	.8640	.1770	-,6634	.0111	-,0012	.0026	4.88	.422
.166	1.92 (40.17)	.02	-1.63	1.4398	•5051	8447	0041	0008	0006	7.13	.467
.166	1.92 (40.20)	.02	.47	1.7500	.2290	8495	0062	0008	.0004	7.64	.513
•166	1.92 (40.18)	.03	2.50	1.9597	.2572	8251	0017	0003	.0051	7.62	.559
.166	1.92 (40.17)	.03	4.57	2.1567	.2859	7814	0040	0005	.0015	7.54	.606
•166	1.92 (40.13)	.04	6.58	2.3412	.3135	7258	0070	0010	0013	7.47	.653
•166	1.92 (40.03)	.05	8.66	2.4991	.3472	6760	0070	0015	.0009	7.20	.685
.166	1.93 (40.30)	.05	10.69	2.6604	.3763	6156	0051	0016	0015	7.07	.684
.166	1.93 (40.21)	.06	12.71	2.7939	.4044	5471	0059	0006	0048	6.91	.684
.166	1.92 (40.17)	.06	14.69	2.8646	.4403	4784	0016	0009	0082	6.51	.684
.166	1.92 (40.19)	.06	16.70	2.9086	.4733	4063	.0072	.0037	0276	6.15	.68
.166	1.92 (40.15)	.06	18.71	2,9189	•5397	-,3804	.0114	.0042	0436	5.41	.68
•165	1.91 (39.94)	.13	20.68	2.8793	•5958	-,3104	0110	0091	0336	4,83	.68

RUN NUMBER 147		LONGI	UDINAL STAB	ABILITY-AXIS AND LATERAL BODY-AXIS DATA					TEST NUMBER 198			
масн	Q.KPA (PSF)	RETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8	
.204	2.89 (60.40)	.02	-3.75	.9997	.1801	-,7353	.0104	.0002	.0021	5.55	.419	
.205	2.89 (60.41)	.02	-1.60	1.4626	,2047	8417	.0035	0000	.0014	7,14	.462	
.204	2.89 (60.43)	.02	.45	1.7340	,2307	~,8466	0017	0001	0003	7,52	.507	
.204	2.89 (60.43)	.02	2.51	1.9390	.2572	8119	0020	0001	.0011	7,54	.553	
.205	2.89 (60.33)	.03	4.55	2.1376	.2849	7718	0031	0000	0002	7,50	.598	
.204	2.88 (60.22)	.04	6.60	2.3316	.3121	-,7190	0045	0000	0002	7.47	.644	
.204	2.88 (60.24)	.04	8.63	2,4958	.3440	6714	0048	0005	0031	7,25	.685	
.204	2.89 (60.29)	.05	10.63	2.6477	3752	~.6151	0032	-,0002	0046	7.06	.685	
.204	2.89 (60.30)	.05	12.66	2.7555	4069	~ 5517	0002	.0011	0108	6.77	.684	
.204	2.89 (60.38)	.06	14.71	2.8680	4400	~.4644	0019	0001	0094	6.52	.685	
.204	2.89 (60.40)	.04	16.67	2.8010	.4931	- 4453	.0114	.0053	0397	5.68	.685	
.205	2.90 (60.52)	.09	18,66	2.7792	5393	4094	0031	0019	0183	5.15	.685	
RUN N	UMBER 148	LONGIT	UDINAL STAB	ILITY-AXIS	AND LATE	ERAL BODY	-AXIS DAT	4	TEST NUM	BER 198		
MACH	G+KPA (PSF)	RETA,DEG	ALPHA,DEG	CL	CD	СРМ	CRM	Сүм	ĊSF	L/D	H/8	
.204	2.89 (60.28)	00	-3.77	.036.9							. 4 20	
				.7300	.1696	≈ ₀/143	•0030	0000	.0039	3,32		
.204	2.87 (60.02)	00	~1.57	1.5091	.1696	~.7143 ~.8609	•0030 •0028	-0000	0010	7.58	.462	
•204 •204	2.87 (60.02) 2.88 (60.10)	00	-1.57 .45	1.5091	.1096 .1990 .2254	~.8609 ~.8634	.0030 .0028 0003	0008 0002	0010	5.52 7.58 7.87	.462	
•204 •204 •204	2.87 (60.02) 2.88 (60.10) 2.87 (60.02)	00	+1.57 .45 2.55	1.5091 1.7735 1.9869	.1696 .1990 .2254 .2520	~.8609 ~.8634 ~.8247	•0030 •0028 ••0003 ••0026	0008 0001 0003	0010 0021 0013	7.58 7.87 7.89	•462 •506 •553	
•204 •204 •204 •204	2.87 (60.02) 2.88 (60.10) 2.87 (60.02) 2.88 (60.08)	00 00 .00 .01	-1.57 .45 2.55 4.57	1.5091 1.7735 1.9869 2.1748	.1696 .1990 .2254 .2520 .2818	7143 8609 8634 8247 7861	.0030 .0028 0003 0026 0014	0008 0008 0003 0003	0010 0021 0013 0008	5.52 7.58 7.87 7.89 7.72	.462 .506 .553 .598	
•204 •204 •204 •204 •204	2.87 (60.02) 2.88 (60.10) 2.87 (60.02) 2.88 (60.08) 2.87 (59.92)	00 00 .00 .01	-1.57 .45 2.55 4.57 6.60	1.5091 1.7735 1.9869 2.1748 2.3737	1696 1990 2254 2520 2818 3084	7143 8609 8634 8247 7861 7303	.0030 .0028 0003 0026 0014 0013	0008 0002 0001 0003 .0002 .0007	0010 0021 0013 0008 0050	5.52 7.58 7.87 7.89 7.72 7.70	.462 .506 .553 .598 .643	
.204 .204 .204 .204 .203 .205	2.87 (60.02) 2.88 (60.10) 2.87 (60.02) 2.88 (60.08) 2.87 (59.92) 2.91 (60.70)	00 00 .00 .01 .01	-1.57 .45 2.55 4.57 6.60 8.66	1.5091 1.7735 1.9869 2.1748 2.3737 2.5491	.1696 .1990 .2254 .2520 .2818 .3084 .3438	7143 8609 8634 8247 7861 7303 6858	.0030 .0028 0003 0026 0014 0013 0027	0008 0002 0001 0003 .0002 .0007 .0002	0039 0010 0021 0013 0008 0050 0034	5.52 7.58 7.87 7.89 7.72 7.70 7.42	.462 .506 .553 .598 .643	
.204 .204 .204 .204 .203 .205 .205	2.87 (60.02) 2.88 (60.10) 2.87 (60.02) 2.88 (60.08) 2.87 (59.92) 2.91 (60.70) 2.91 (60.75)	00 00 .00 .01 .01 .02 .02	~1.57 .45 2.55 4.57 6.60 8.66 10.69	1.5091 1.7735 1.9869 2.1748 2.3737 2.5491 2.7073	.1696 .1990 .2254 .2520 .2818 .3084 .3438 .3788	7143 8609 8634 8247 7861 7303 6858 6278	.0030 .0028 0003 0026 0014 0013 0027 0027	0008 0002 0003 .0002 .0007 .0002 .0003	0039 0010 0021 0013 0008 0050 0034 0063	5.52 7.58 7.87 7.89 7.72 7.70 7.42 7.15	.462 .506 .553 .598 .643 .683	
.204 .204 .204 .203 .205 .205 .205	2.87 (60.02) 2.88 (60.10) 2.88 (60.02) 2.88 (60.08) 2.88 (60.08) 2.87 (59.92) 2.91 (60.70) 2.91 (60.79) 2.91 (60.79)	00 00 .00 .01 .01 .02 .02 .03	-1.57 .45 2.55 4.57 6.60 8.66 10.69 12.69	1.5091 1.7735 1.9869 2.1748 2.3737 2.5491 2.7073 2.8370	.1696 .1990 .2254 .2520 .2818 .3084 .3438 .3788 .4119	-,7143 -,8609 -,8634 -,8247 -,7861 -,7303 -,6858 -,6278 -,5643	.0030 .0028 0003 0026 0014 0013 0027 0027 0020	0008 0002 0001 0003 .0002 .0007 .0002 .0003 0009	0010 0021 0013 0008 0050 0034 0063 0037	5.52 7.58 7.87 7.89 7.72 7.70 7.42 7.42 7.15 6.89	.462 .506 .553 .598 .643 .683 .685	
.204 .204 .204 .204 .203 .205 .205 .205 .205	2.87 (60.02) 2.88 (60.10) 2.87 (60.02) 2.88 (60.08) 2.87 (59.92) 2.91 (60.70) 2.91 (60.79) 2.91 (60.79) 2.91 (60.81)	00 00 .01 .01 .02 .02 .03 .04	-1.57 .45 2.55 4.57 6.60 8.66 10.69 12.69 14.70	1.5091 1.5091 1.7735 1.9869 2.1748 2.3737 2.5491 2.7073 2.8370 2.9317	.1696 .1990 .2254 .2520 .2818 .3084 .3438 .3788 .4119 .4384	7143 8609 8634 8247 7861 7303 6858 6278 5643 5643	.0030 .0028 0003 0026 0014 0013 0027 0027 0020 0031	0002 0001 0003 .0002 .0007 .0002 .0003 0009 0012	0039 0010 0021 0013 0008 0050 0034 0063 0037 0011	5.52 7.58 7.87 7.89 7.72 7.70 7.42 7.15 6.89 6.69	.462 .503 .598 .643 .683 .685 .684	
.204 .204 .204 .204 .203 .205 .205 .205 .205 .205	2.87 (60.02) 2.88 (60.10) 2.88 (60.08) 2.87 (50.92) 2.91 (60.70) 2.91 (60.79) 2.91 (60.79) 2.91 (60.81) 2.89 (60.33)	00 00 .01 .01 .02 .02 .03 .04 .06	-1.57 .45 2.55 4.57 6.60 8.66 10.69 12.69 14.70 16.74		.1696 .1990 .2520 .2818 .3084 .3438 .3788 .4119 .4384 .4740	7143 8609 8634 8247 7861 7303 6858 6278 5643 5643 5643 5643	.0030 .0028 0003 0026 0014 0013 0027 0027 0027 0020 0031 0095	0008 0001 0003 .0002 .0007 .0002 .0003 0009 0012 0039	0010 0021 0013 0008 0050 0034 0063 0037 0011 .0003	5.52 7.58 7.87 7.89 7.72 7.70 7.42 7.15 6.89 6.89 6.69 6.39	.462 .506 .553 .598 .683 .683 .685 .685	

MACH 0.KPA (pSF) BETA.DEG ALPHA.DEG CL CD CPH CRM CYH CSF L/D H/B *204 2.87 (60.02) 00 -3.92 .4553 .2813 .4937 .0086 .0004 00655 1.62 .412 *204 2.89 (60.46) 00 -1.70 1.0784 .2880 .2865 .0064 .0015 0063 3.74 .4555 *205 2.90 (60.55) 00 .35 1.3882 .2956 .219A .0025 .0018 0067 4.70 .499 *205 2.90 (60.55) 00 .35 1.882 .2956 .219A .0025 .0018 0067 4.70 .499 *205 2.90 (60.58) .01 4.46 1.8562 .3152 .1794 0023 .0015 0056 6.10 .637 .204 .290 (60.430) .01 1.466 .8320 .6481 .0015 0079 6.40 .685 .204 .289 (60.30) .04 12.63 <th colspan="2">RUN NUMBER 149</th> <th>LONGI</th> <th>TUDINAL STAB</th> <th>ILITY-AXIS</th> <th>S AND LAT</th> <th>ERAL BODY</th> <th>-AXIS DAT</th> <th>A</th> <th>TEST NUM</th> <th>BER 198</th> <th></th>	RUN NUMBER 149		LONGI	TUDINAL STAB	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
.204 2.87 (60.02)00 -3.92 .4553 .2813 .4937 .0086 .00040065 1.62 .412 .204 2.89 (60.46)00 -1.70 1.0784 .2880 .2865 .0064 .00150063 3.74 .455 .204 2.89 (60.55)00 .35 1.3882 .2956 .2198 .0025 .0018 .0063 5.21 .545 .205 2.90 (60.55) .00 2.40 1.5917 .3057 .19230018 .00130063 5.21 .545 .205 2.90 (60.58) .01 4.46 1.8262 .3152 .17940023 .00150044 5.79 .591 .204 2.99 (60.38) .01 6.49 2.0246 .3320 .16480038 .00150044 5.79 .591 .204 2.90 (60.51) .03 8.60 2.2341 .3489 .14360051 .00150079 6.40 .685 .204 2.99 (60.35) .03 10.58 2.4251 .3670 .10250036 .00210090 6.61 .685 .204 2.89 (60.35) .04 12.63 2.5905 .3935 .0664003400070039 6.58 .685 .204 2.89 (60.32) .04 12.63 2.5905 .3935 .0664003400070039 6.58 .685 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0668009000330068 6.16 .684 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0668009000330068 6.16 .684 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0082 .0008 .0025 4.78 .456 .204 2.89 (60.42) .00 -3.86 .5927 .2331 .2634 .00900000 .0006 2.54 .413 .204 2.89 (60.42) .00 -3.86 .5927 .2331 .2634 .00900003 .0025 4.78 .456 .204 2.89 (60.40) .00 2.45 1.6734 .266704030017 .0014 5.67 .502 .204 2.89 (60.40) .00 2.45 1.6734 .266704030016 .0017 .0014 5.67 .502 .204 2.89 (60.40) .00 2.45 1.6734 .266704030016 .0007 .0014 5.67 .502 .204 2.89 (60.40) .00 2.45 1.6734 .266704030013 .00090014 5.67 .502 .204 2.89 (60.40) .00 2.45 1.6734 .266704030013 .00090014 5.67 .502 .204 2.89 (60.40) .00 2.45 1.6734 .266704030013 .00090014 5.67 .502 .204 2.89 (60.40) .00 2.45 1.6734 .266704030013 .0007 .0014 5.67 .502 .204 2.89 (60.42) .00 .39 1.4472 .2554 .0024 .0006 .0007 .0014 5.67 .502 .204 2.88 (60.42) .02 10.63 2.5295 .304815320033 .0007 .0014 5.67 .564 .204 2.88 (60.42) .02 10.63 2.5295 .304815320033 .0007 .0014 5.67 .564 .204 2.88 (60.12) .02 10.63 2.5295 .304815320033 .0007 .0027 6.91 .594 .204 2.88 (60.12) .03 12.67 2.6923 .3987226100380027 .0025 6.45 .	MACH	0.KPA (PSF)	BETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.204 2.89 (60.46) 00 -1.70 1.0784 .2880 .2865 .0064 .0015 0063 3.74 .455 .204 2.90 (60.55) 00 .35 1.3882 .2956 .2198 .0025 .0018 0063 5.21 .545 .205 2.90 (60.57) .00 2.40 1.5917 .3057 .1923 0018 .0013 0063 5.21 .545 .204 2.89 (60.38) .01 6.44 1.8262 .3152 .1794 0023 .0015 0044 5.79 .591 .204 2.89 (60.49) .03 8.60 2.2341 .3489 .1436 0051 .0015 0079 6.40 .685 .204 2.89 (60.30) .04 12.63 2.5905 .3935 .0664 0034 0010 0079 6.45 .685 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0668 0090 0033 0068 6.16 .684	•204	2.87 (60.02)	00	-3.92	•4553	.2813	.4937	.0086	.0004	0065	1.62	•412
2204 2.90 (60.55) 00 .35 1.3882 .2956 .2198 .0025 .0018 0067 4.70 .499 .205 2.90 (60.57) .00 2.40 1.5917 .3057 .1923 0018 .0013 0063 5.21 .545 .205 2.90 (60.58) .01 4.46 1.8262 .3152 .1794 0023 .0015 0044 5.79 .591 .204 2.89 (60.49) .03 6.60 2.231 .3469 .1436 0036 .0015 0079 6.40 .685 .204 2.89 (60.30) .04 12.63 2.5905 .3935 .0664 0034 0007 0039 6.58 .685 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0668 0034 0010 0049 6.45 .685 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0668 0090 0033 0068 6.16 .684	•204	2.89 (60.46)	00	-1.70	1.0784	.2880	.2865	.0064	.0015	0063	3.74	•455
.205 2.90 (60.57) .00 2.40 1.5917 .3057 .1923 0018 .0013 0063 5.21 .545 .205 2.90 (60.58) .01 4.46 1.8262 .3152 .1794 0023 .0015 0044 5.79 .591 .204 2.90 (60.48) .01 6.49 2.0246 .3320 .1648 0038 .0015 0079 6.40 .685 .204 2.89 (60.35) .03 10.58 2.4251 .3670 .1025 0036 .0021 0090 6.61 .685 .204 2.89 (60.30) .04 12.63 2.5905 .3935 .0664 0034 0010 0049 6.45 .685 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0668 0010 0049 6.45 .685 .204 2.89 (60.42) .00 -3.86 .5927 .2331 .2634 .0090 0033 .0068 6.16 .684 PUN	+204	2.90 (60.55)	00	.35	1.3882	.2956	.2198	.0025	.0018	0067	4.70	.499
2205 2.90 (60.58) .01 4.46 1.8262 .3152 .1794 0023 .0015 0044 5.79 .591 .204 2.89 (60.48) .01 6.49 2.0246 .3320 .1648 0038 .0015 0076 6.40 .683 .204 2.89 (60.49) .03 8.60 2.2341 .3489 .1436 0034 0077 6.40 .685 .204 2.89 (60.30) .04 12.63 2.5955 .3935 .0664 0034 0077 0039 6.58 .685 .204 2.88 (60.23) .04 14.66 2.7201 .4218 .0722 0026 0010 0049 6.45 .685 .204 2.88 (60.42) .07 16.72 2.8507 .4631 .0668 0090 0033 0068 6.16 .684 RUN NIMBER 150 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 .204 2.90 (60.468) .00 -3.86 .5927 .2331 .2634	.205	2.90 (60.57)	.00	2.40	1.5917	.3057	.1923	0018	.0013	0063	5,21	.545
.204 2.89 (60-38) .01 6.49 2.0246 .3320 .1648 0038 .0016 0056 6.10 .637 .204 2.90 (60-36) .03 8.60 2.2341 .3489 .1436 0051 .0015 0079 6.40 .685 .204 2.89 (60-35) .03 10.58 2.4251 .3670 .1025 0034 0007 0039 6.58 .685 .204 2.88 (60-32) .04 12.63 2.5905 .3935 .0664 0026 0010 0049 6.45 .685 .204 2.88 (60-32) .07 16.72 2.8507 .4631 .0668 0026 0010 0049 6.45 .685 .204 2.89 (60-32) .07 16.72 2.8507 .4631 .0668 0090 0033 0068 6.16 .684 PUN NIMBER 150 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 .204 2.90 (60.48) .00 -3.86 .5927 .2331	.205	2.90 (60.58)	.01	4.46	1.8262	.3152	.1794	0023	.0015	0044	5,79	.591
.204 2.90 (60.49) .03 8.60 2.2341 .3489 .1436 0051 .0015 0079 6.40 .685 .204 2.89 (60.35) .03 10.57 2.4251 .3670 .1025 0036 .0021 0090 6.61 .685 .204 2.89 (60.30) .04 12.63 2.5905 .3935 .0664 0034 0007 0049 6.45 .685 .204 2.88 (60.23) .04 14.66 2.7201 .4218 .0722 0026 0010 0049 6.45 .685 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0668 0090 0033 0068 6.16 .684 RUN NIMARER 150 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.90 (60.49) .00 -3.86 .5927 .2331 <	.204	2.89 (60.38)	.01	6.49	2.0246	.3350	.1648	0038	.0016	0056	6,10	.637
.204 2.89 (60.35) .03 10.58 2.4251 .3670 .1025 0036 .0021 0090 6.61 .685 .204 2.89 (60.30) .04 12.63 2.5905 .3935 .0664 0034 0007 0039 6.58 .685 .204 2.88 (60.32) .04 14.66 2.7201 .4218 .0722 0026 0010 0049 6.45 .685 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0668 0090 0033 0068 6.16 .684 RUN NIMARER 150 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.90 (60.48) .00 -3.86 .5927 .2331 .2634 .0090 0000 .0006 2.54 .413 .204 2.89 (60.49) .00 .39 1.4472 .2554 <td>•204</td> <td>2.90 (60.49)</td> <td>.03</td> <td>8,60</td> <td>2.2341</td> <td>.3489</td> <td>.1436</td> <td>0051</td> <td>.0015</td> <td>0079</td> <td>6.40</td> <td>.685</td>	•204	2.90 (60.49)	.03	8,60	2.2341	.3489	.1436	0051	.0015	0079	6.40	.685
.204 2.89 (60.30) .04 12.63 2.5905 .3935 .0664 0034 0039 6.58 .685 .204 2.88 (60.23) .04 14.66 2.7201 .4218 .072 0026 0010 0049 6.45 .685 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0668 0026 0033 0068 6.16 .685 .204 2.89 (60.32) .07 16.72 2.8507 .4631 .0668 0090 0033 0068 6.16 .684 PUN NHMER 150 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 *204 2.90 (60.48) .00 -3.86 .5927 .2331 .2634 .0090 0000 .0006 2.54 .413 .204 2.89 (60.29) .00 .39 1.4472 .2554 .0024 .0006 .0007 0014 5.67 .502 .204 2.89 (60.40) .00 2.45 1.6734 .2667 <td< td=""><td>•204</td><td>2.89 (60.35)</td><td>.03</td><td>10.58</td><td>2.4251</td><td>.3670</td><td>,1025</td><td>0036</td><td>.0021</td><td>0090</td><td>6.61</td><td>.685</td></td<>	•204	2.89 (60.35)	.03	10.58	2.4251	.3670	,1025	0036	.0021	0090	6.61	.685
.204 2.88 (60-23) .04 14.66 2.7201 .4218 .0722 0026 0010 0049 6.45 .685 .204 2.89 (60-32) .07 16.72 2.8507 .4631 .0668 0090 0033 0068 6.16 .685 RUN NIMBER 150 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH Q.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRM CYH CSF L/D H/B .204 2.90 (60.48) .00 -3.86 .5927 .2331 .2634 .0090 0000 .0006 2.54 .413 .204 2.89 (60.49) .00 -1.70 1.1557 .2418 .0810 .0082 .0008 .0025 4.76 .5502 .204 2.89 (60.40) .00 2.45 1.6734 .2667 0403 .0007 0014 5.67 .502 .204 2.89 (60.40) .00 2.45 1.6734 .2667 0013 .	.204	2.89 (60.30)	.04	12.63	2.5905	.3935	.0664	0034	0007	0039	6,58	.685
.204 2.89 (60.32) ,07 16.72 2.8507 ,4631 .0668 0033 0068 6.16 .684 RUN NIMBER 150 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.90 (60.48) .00 -3.86 .5927 .2331 .2634 .0090 0000 .0006 2.54 .413 .204 2.89 (60.39) .00 -1.70 1.1557 .2418 .0810 .0082 .0008 .0025 4.78 .456 .204 2.89 (60.49) .00 .39 1.4472 .2554 .0024 .0008 .0025 4.78 .456 .204 2.89 (60.43) .00 2.451 1.6734 .2667 .0013 .0007 .0014 5.67 .502 .204 2.89 (60.43) .01 4.51 1.9249 .2785 .1065 .0023 .00012 .0014 <td>•204</td> <td>2.88 (60.23)</td> <td>.04</td> <td>14.66</td> <td>2.7201</td> <td>.4218</td> <td>.0722</td> <td>0026</td> <td>0010</td> <td>0049</td> <td>6,45</td> <td>.685</td>	•204	2.88 (60.23)	.04	14.66	2.7201	.4218	.0722	0026	0010	0049	6,45	.685
RUN NIMMER 150 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.90 (60.48) .00 -3.86 .5927 .2331 .2634 .0090 0000 .0006 2.54 .413 .204 2.89 (60.39) .00 -1.70 1.1557 .2418 .0810 .0082 .0008 .0025 4.78 .456 .204 2.89 (60.29) .00 .39 1.4472 .2554 .0024 .0006 .0007 0014 5.67 .502 .204 2.89 (60.43) .00 2.45 1.6734 .2667 .0023 .0007 .0014 5.67 .502 .204 2.88 (60.43) .01 4.51 1.9249 .2785 1065 .0023 .0007 .0027 6.91 .594 .204 2.88 </td <td>+204</td> <td>2.89 (60.32)</td> <td>.07</td> <td>16.72</td> <td>2.8507</td> <td>.4631</td> <td>.0668</td> <td>0090</td> <td>0033</td> <td>0068</td> <td>6.16</td> <td>.684</td>	+204	2.89 (60.32)	.07	16.72	2.8507	.4631	.0668	0090	0033	0068	6.16	.684
MACH $0, KPA$ (PSF) $BETA, DEG$ $ALPHA, DEG$ CL CD CPM CRH CYM CSF L/D H/B .2042.90 (60.48) .00 -3.86 .5927.2331.2634.0090 0000 .00062.54.413.2042.89 (60.39) .00 -1.70 1.1557 .2418.0810.0082.0008.00254.78.456.2042.89 (60.29) .00.39 1.4472 .2554.0024.0006.0007 0014 5.67.502.2042.89 (60.43) .002.45 1.6734 .2667 0403 0013 .0009 0004 6.27.554.2042.89 (60.43) .014.51 1.9249 .2785 1065 0023 .0007.00145.67.554.2042.89 (60.421) .028.662.3428.3349 1532 0032 .0002.00187.02.661.2042.88 (60.12) .02 10.63 2.5525.3667 2361 0039 .0002.00127.00.663.2042.88 (60.12) .0312.672.6923.3987 2585 0034 0008 .00246.75.685.2042.88 (60.18) .0314.6672.4693.3987 2585 0034 0008 .00256.45.665.2042.88 (60.18) .03		MRER 150	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MACH	Q+KPA (PSF)	BETA.DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•204	2.90 (60.48)	.00	-3.86	.5927	.2331	.2634	.0090	0000	.0006	2.54	.413
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.89 (60.39)	.00	-1.70	1.1557	.2418	.0810	.0082	.0008	.0025	4,78	.456
.204 2.89 (60.40) .00 2.45 1.6734 .2667 0013 .0009 0004 6.27 .588 .204 2.89 (60.33) .01 4.51 1.9249 .2785 1065 0023 .0007 .0027 6.91 .594 .204 2.88 (60.25) .01 6.56 2.1391 .3048 152 0032 .0002 .0018 7.02 .641 .204 2.88 (60.24) .02 8.64 2.3428 .3349 1972 0033 .0012 7.00 .663 .204 2.88 (60.12) .02 10.63 2.525 .3667 2361 0039 .0012 7.00 .663 .204 2.88 (60.12) .03 12.67 2.6923 .3987 2585 0034 0006 .0024 6.75 .685 .204 2.88 (60.18) .03 14.69 2.8109 .4360 2449 0038 0027 .0025 6.45 .665 .204 2.87 (60.4	+204	2.89 (60.29)	.00	.39	1.4472	.2554	.0024	.0006	.0007	0014	5,67	.502
•204 2.89 (60.33) ,01 4.51 1.9249 ,2785 -,1065 -,0023 ,0007 ,0027 6.91 .594 •204 2.88 (60.25) ,01 6.56 2,1391 ,3048 -,1532 -,0032 ,0007 ,0018 7,02 .641 •204 2.88 (60.24) ,02 8.64 2,3428 ,3349 -,1972 -,0056 -,0003 ,0012 7,00 .663 •204 2.88 (60.12) ,02 10,63 2,5295 ,3667 -,2361 -,0039 -,0008 ,0024 6,75 ,663 •204 2.88 (60.12) ,03 12,67 2,6923 ,3987 -,2585 -,0038 -,0024 6,45 ,665 •204 2.88 (60.18) ,03 14,69 2,8109 ,4360 -,2449 -,0038 -,0027 ,0025 6,455 ,685 •204 2.87 (60.42) ,06 16,74 2,9403 ,4741 -,2449 -,016 ,0021 6,20 ,685	.204	2.89 (60.40)	.00	2.45	1.6734	.2667	0403	0013	.0009	0004	6.27	.548
•204 2.88 (60.25) .01 6.56 2.1391 .3048 1532 0032 .0018 7.02 .641 •204 2.88 (60.24) .02 8.64 2.3428 .3349 1972 0056 0003 .0012 7.00 .683 •204 2.88 (60.12) .02 10.63 2.5295 .3667 2361 0039 .0012 7.00 .683 •204 2.88 (60.12) .02 10.63 2.5295 .3667 2361 0039 .0018 .0024 6.75 .685 •204 2.88 (60.12) .03 12.67 2.6923 .3987 2585 0034 0008 .0024 6.75 .685 •204 2.88 (60.18) .03 14.69 2.4109 .4360 2449 0038 0027 .0025 6.45 .685 •204 2.87 (60.42) .06 16.74 2.9403 .4741 2449 0016 .0021 6.20 .685	+02.	2.89 (60.33)	.01	4.51	1.9249	.2785	-,1065	0023	.0007	.0027	6,91	.594
•204 2.88 (60.24) .02 8.64 2.3428 .3349 1972 0056 0003 .0012 7.00 .683 •204 2.88 (60.12) .02 10.63 2.5295 .3667 2361 0039 0006 .0031 6.90 .684 •204 2.88 (60.12) .03 12.67 2.6923 .3987 2585 0034 0008 .0024 6.75 .685 •204 2.88 (60.18) .03 14.69 2.8109 .4360 2449 0038 0027 .0025 6.45 .685 •204 2.87 (60.02) .06 16.74 2.9403 .4741 2409 0106 .0021 6.20 .685	.204	2.88 (60.25)	.01	6,56	2.1391	.3048	1532	0032	.0002	.0018	7.02	.641
•204 2.88 (60.12) .02 10.63 2.5295 .3667 ~.2361 0039 0006 .0031 6.90 .684 •204 2.88 (60.12) .03 12.67 2.6923 .3987 ~.2585 0034 0008 .0024 6.75 .685 •204 2.88 (60.18) .03 14.69 2.8109 .4360 ~.2449 0038 ~.0027 .0025 6.45 .685 •204 2.87 (60.02) .06 16.74 2.9403 .4741 ~.249 0106 .0021 6.20 .685	.204	2.88 (60.24)	.02	8.64	2.3428	.3349	1972	0056	0003	.0012	7.00	.683
•204 2.88 (60•12) .03 12.67 2.6923 .3987 ~.258500340008 .0024 6.75 .685 •204 2.88 (60•18) .03 14.69 2.8109 .4360 ~.244900380027 .0025 6.45 .685 •204 2.87 (60•2) .06 16.74 2.9403 .4741240901060146 .0021 6.20 .685	+05+	Z.88 (60.12)	.05	10.63	2.5295	.3667	2361	0039	0006	.0031	6,90	.684
•204 2.88 (60•18) .03 14.69 2.8109 .4360 ~.24490038 ~.0027 .0025 6.45 .685 •204 2.87 (60•02) .06 16.74 2.9403 .4741 ~.240901060046 .0021 6.20 .685	.204	2.88 (60.12)	.03	12,67	2.6923	.3987	2585	+.0034	0008	.0024	6,75	.685
.204 2.87 (60.02) .06 16.74 2.9403 .4741240901060046 .0021 6.20 .685	+05+	2.88 (60.18)	.03	14.69	2.8109	.4360	~.2449	0038	0027	.0025	6,45	.685
	•204	2.87 (60.02)	.06	16.74	2.9403	.4741	2409	0106	0046	.0021	6.20	•685

RUN NUMBER 151		LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL PODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	Q+KPA (PSF)	BFTA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.204	2.89 (60.37)	.01	-3.78	.7297	.1910	0324	.0099	.0003	.0028	3.82	. +16
.205	2.90 (60.60)	.00	-1.63	1.2833	.2076	-,2300	.0052	.0002	.0012	6.18	.458
.205	2.90 (60.63)	00	•41	1.5681	.2303	-,3158	.0000	.0001	.0015	6.81	.503
.204	2.90 (60.56)	00	2.46	1.7895	.2530	3710	0016	0000	.0032	7.07	.549
.204	2.89 (60.27)	.00	4.50	2.0144	.2804	4165	0027	.0001	.0049	7.19	.595
.204	2.88 (60.21)	.00	6.60	2.2498	.3081	-,4602	0037	.0001	.0031	7.30	.642
.204	2.89 (60.37)	.01	8.62	2.4452	.3413	5034	0063	0013	.0038	7,16	.685
.204	2.88 (60.20)	.01	10.65	2.6418	.3748	5392	0041	0006	.0020	7.05	.685
.204	2.88 (60.23)	.01	12.70	2.7954	.4117	- 5516	0034	0005	.0016	6.79	.684
.204	2.88 (60.21)	.01	14.79	2.9378	.4477	-,5374	0016	0009	0008	6.56	.684
.204	2.88 (60.20)	.02	16.78	3.0739	4931	-,5225	0030	0007	0032	6.23	.685
.203	2.87 (59.97)	.07	18,84	3.1094	.5344	4908	0074	.0005	0097	5.82	.684
RUN N	UMBER 152	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
MACH	Q, KPA (PSF)	RETA,DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.204	2.89 (60.32)	.01	-3.78	.8209	.1834	3172	.0086	.0012	0013	4.48	•417
.204	2.89 (60.39)	.00	-1.62	1.3546	.2042	5085	.0093	.0012	.0017	6.64	.460
.204	2.89 (60.42)	00	.47	1.6832	.2302	6118	.0059	.0011	.0001	7.31	.505
.204	2.89 (60.27)	00	2.51	1.9130	.2550	6629	.0041	.0010	.0026	7.50	.551
.204	2.88 (60.20)	00	4.52	2.1252	.2860	-,7065	.0022	.0014	.0018	7.43	. 596
.204	2.89 (60.27)	00	6.58	2.3515	.3165	7492	.0018	.0016	.0013	7.43	.643
.204	2.88 (60.18)	.00	8.62	2.5535	.3524	7949	0024	0002	.0018	7.25	.685
.204	2.89 (60.31)	.00	10.74	2.7437	.3905	8295	0015	0000	.0034	7.03	.684
.204	2.88 (60.23)	.00	12.74	2.9006	.4301	8412	.0007	.0009	.0008	6.74	.685
.204	2.89 (60.27)	.00	14.80	3.0315	.4658	8178	.0002	.0008	0012	6.51	.685
.204	2.88 (60.09)	.02	16.77	3.1541	.5122	7870	0049	0016	0038	6.16	.684
			-								

RUN N	JMBER 153	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	AXIS DAT	A	TEST NUMBER 198		
MACH	Q, KPA (PSF)	RETADEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/R
.204	2.89 (60.29)	.01	-3.76	.9257	.1825	6086	.0112	.0000	0012	5.07	•419
.204	2.89 (60.31)	.00	-1.63	1.4523	.2059	8015	.0039	.0004	0014	7.05	.461
.204	2.89 (60.44)	.00	.45	1.7679	.2347	896R	.0046	.0009	0037	7.53	.506
.204	2.89 (60.35)	00	2.56	2.0197	.2627	-,9564	.0027	.0012	0021	7.69	.553
.204	2.89 (60+46)	00	4.56	2.2209	.2967	-1.0030	-,0003	.0006	0030	7.48	.598
.204	2.89 (60.41)	00	6.60	2.4297	.3332	-1.0398	.0000	.0011	0026	7.29	.645
.204	2.89 (60.30)	.00	8.67	2.6453	.3689	-1.0863	0013	.0008	0008	7.17	.684
.204	2.89 (60.40)	.00	10.68	2.8238	.4089	-1.1145	0024	.0007	0029	6.91	.684
.204	2.90 (60.48)	.00	12.78	2.9900	4509	-1.1236	.0015	.0016	0029	6.63	.685
.204	2.89 (60.42)	.01	14.81	3.0962	.4929	-1.0830	0004	.0005	0059	6.28	.685
.204	2.08 (60.20)	.03	16.82	3.2061	.5410	-1.0353	0076	0016	0082	5,93	.685
	UMBER 154	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	RETA,DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.204	2.89 (60.38)	.00	-3.75	1.0415	.1893	9261	.0051	.0005	0035	5.50	.420
.204	2.88 (60.15)	.00	-1.59	1.5800	.2153	-1.1207	.0017	.0002	0008	7.34	.463
.204	2.90 (60.53)	00	.49	1.8900	.2488	-1.2120	.0019	.0007	0039	7.60	.508
.204	2.90 (60.48)	00	2.55	2.1031	.2836	-1.2685	.0007	.0008	0014	7.42	•554
.204	2.89 (60.38)	00	4.59	2.3227	.3196	-1.3062	0014	.0014	0038	7.27	.600
.204	2.89 (60,29)	.00	6.66	2.5423	.3569	-1.3355	0030	.0013	0048	7.12	.647
.204	2.89 (60.32)	.00	8.71	2.7357	.3977	-1.3654	0042	.0009	0033	6.88	.684
.204	2.88 (60.13)	.00	10.78	2.9242	.4380	-1.3936	-,0043	.0006	0020	6.68	.685
.204	2.89 (60.25)	.01	12.77	3.0832	.4809	-1.4071	-,0032	0015	0004	6.41	.684
304			• • • • • •				0.053				
• 2 0 4	2.90 (60.51)	•01	14.79	3.1937	.5256	-1.3029	0051	0030	0025	0,08	.004

61

ER 198	TEST NUMBER	198
L/D H/R	CSF	L/D
6.16 .41	.2776 6	6.16
8.32 .46	.2401 8	8.32
8.79 .50	•2185 B	8.79
8.73 .553	.2181 8	8.73
8.59 .599	.2133 8	8,59
8.33 .645	.2123 8	8.33
7.98 .68	.2149 7	7.98
7.65 .685	.2113 7	7.65
7.25 .685	.2108 7	7.25
6.84 .685	.2125 6	6.84
6.41 .684	.2185 6.	6.41
ER 198	TEST NUMBER	198
L/D H/B	CSF I	L/D
4.80 .417	.1476 4.	4.80
6.93 .461	.1188 6/	6.93
7.77 .505	,1085 7,	7.77
7.92 .551	.1020 7,	7.92
7.85 .597	.1016 7,	7.85
7.65 .646	.1010 7.	7.65
7.47 .685	.1011 7,	7.47
7.27 .682	.1045 7,	7.27
6.99 .684	.1052 6	6.99
6.60 .685	.1067 6.	6.60
6.32 .685	.1077 6.	6.32
•	.2185 TEST NUMBI CSF .1476 .1188 .1085 .1020 .1016 .1010 .1011 .1045 .1052 .1057 .1077	ER

RUN N	IIMPER 157	LONGI	TUNINAL STAB	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM		
MACH	Q,KPA (PSF)	BETA, DEG	ALPHA,DEG	CL	CD	СРм	CRM.	Сум	CSF	L/D	H/8
.205	2.91 (60.85)	5.03	-3.88	.7024	.1746	2579	0037	.0159	1233	4.02	.416
+05+	2.89 (60.28)	5.02	-1.67	1.3289	.1973	- 5253	0209	.0144	1132	6.74	.460
.204	2.90 (60.51)	5.02	.46	1.6358	,2217	6078	0227	.0126	1059	7.38	.506
+204	2.89 (60.35)	5.02	2.48	1.8685	.2466	6543	~. 0228	.0123	1002	7.58	.551
.204	2.89 (60.28)	5.02	4.54	2.0880	,2756	7058	0250	.0121	1024	7.58	.598
.204	2.89 (60.33)	5.03	6.58	2.3041	.3078	7519	~.0271	.0126	-,1058	7.49	,644
.204	2.89 (60.37)	5,03	8,68	2.5139	.3439	7920	0271	•0135	1096	7.31	.685
.204	2.89 (60.44)	5.04	10.70	2.6975	3813	8216	0291	.0142	1119	7.07	.685
.204	2.89 (60.36)	5,05	12.73	2.8702	4179	8491	0329	.0140	1122	6.87	.684
.204	2.89 (60.33)	5.07	14.76	2.9781	.4557	8505	0379	.0133	1083	6.54	.685
•204	2.89 (60.26)	5.08	16.84	3.0520	.5010	8088	0386	•0147	1098	6.09	.685
RUN N	UMBER 158	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DATA	۱.	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	RFTA.DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.205	2.90 (60.64)	.01	-3.81	.7634	,1832	-,2641	0001	.0010	0064	4.17	•417
+02+	2.89 (60.33)	.00	-1.66	1.3394	.2018	4758	0001	.0019	0070	6.64	.459
.204	2.90 (60.49)	.00	•42	1.6438	.2296	-,5602	-,0081	.0014	0097	7.16	.504
.204	2.89 (60.35)	00	2.50	1.8901	,2548	6165	0079	.0012	0074	7.42	.551
+204	2.89 (60.28)	00	4.52	2.1050	,2845	-,6664	0076	.0017	0082	7.40	.596
•204	2.88 (60.22)	00	6.59	2.3265	.3186	-,7136	0075	.0016	0075	7.30	.643
.204	2.88 (60.24)	00	8.64	2.5369	.3509	-,7659	0062	.0013	0059	7,23	.685
+02+	2.88 (60.17)	01	10.72	2.7228	, 3863	7976	0067	0000	0030	7,05	.685
+05+	2.88 (60.11)	01	12.73	2.8766	4269	8157	0068	0004	0022	6,74	.684
.203	2.87 (59.98)	01	14.77	3,0008	. 4608	-,8013	0083	0016	0045	6,51	.684
+02+	2.88 (60.23)	00	16.77	3,1275	,5071	7924	0099	0012	0077	6.17	.685

---- -

RUN NU	JMRER 159	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	RER 198	
масн	0,KPA (PSF)	RETA.DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в
.204	2.89 (60.31)	.01	-3,80	.7705	.1835	2581	.0039	.0005	0050	4.20	.417
.204	2.89 (60.35)	.00	-1.67	1.3200	.2028	4575	0044	.0018	0084	6.51	.459
•204	2.89 (60.42)	00	.43	1.6228	.2314	-,5477	0100	.0010	0094	7.01	.505
.204	2.89 (60.40)	00	2.47	1.8625	.2549	6059	0100	.0018	0118	7.31	.550
.204	2,89 (60.31)	00	4.22	2.0751	.2780	-,6492	0094	.0016	0104	7.46	.596
+05+	2.89 (60.29)	.00	6.59	2.3040	.3172	6967	0113	.0010	0081	7.26	.643
.204	2.89 (60.43)	.00	8.64	2.5100	,3488	-,7418	0106	.0009	0067	7.20	.683
.204	2.89 (60.36)	.01	10.70	2.6856	.3870	- 7742	0111	-,0002	0041	6.94	.685
.204	2.89 (60.31)	.03	12,76	2.8533	.4255	-,7946	0122	0004	0066	6.71	.684
.204	2.88 (60.25)	.02	14.76	2.9644	.4598	7787	0140	0027	0040	6.45	.684
.204	2.88 (60.21)	.04	16.81	3.0300	.5040	-,7695	0198	0043	0003	6.01	.684
RUN NI	MBER 160	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	0.KPA (PSF)	RETA.DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
.204	2.89 (60.44)	.01	-3.80	.7552	.1845	2455	0011	.0001	0099	4.09	.418
.204	2.88 (60.14)	00	-1.69	1,2928	.2034	4456	0105	.0020	0126	6.36	.459
.204	2.89 (60.36)	00	.39	1.6129	.2304	-,5373	0151	.0012	0143	7,00	.504
.204	2.89 (60.27)	.00	2.47	1.8540	.2551	-,5903	0142	.0010	0106	7.27	•550
.204	2.89 (60.29)	.00	4.51	2.0667	.2850	6381	0144	.0008	0086	7.25	.596
.204	2.89 (60.37)	.01	6.56	2.2899	.3149	6777	0151	.0003	0103	7.27	.643
.204	2.88 (60.21)	.01	8.64	2.4926	.3504	7251	0154	0005	0092	7.11	.685
.204	2.89 (60.29)	.02	10.65	2.6749	.3854	7586	0140	.0000	0092	6.94	.684
.204	2.89 (60.40)	.03	12.76	2.8489	.4264	7833	0158	0017	-,0074	6.68	.685
.204	2.89 (60.36)	.03	14.75	2.9531	.4628	7646	0156	0023	0106	6.38	.685
.204	2.89 (60.40)	.05	16.76	2.9763	.5030	7084	0076	0013	0156	5,92	685

L/D H/B	CSF	CYM	CRM	CPM	CD	CL	ALPHA,DEG	RFTA.DEG	Q.KPA (PSF)	масн
3.83 .41	0097	.0002	0044	2249	.1857	.7113	-3.81	00	2.91 (60.70)	.205
6.22 .46	0155	.0015	0172	4330	.2062	1.2834	-1.61	֥01	2.89 (60.35)	.204
6.96 .50	0130	.0016	0155	5276	.2310	1.6078	.42	.00	2.89 (60.37)	•204
7.19 .55	0124	.0005	0183	5828	.2560	1.8410	2.48	.01	2.89 (60.38)	•504
7.26 .59	0100	+0004	0176	6283	.2846	2.0659	4.54	.01	2.88 (60.25)	•204
7.22 .64	0096	.0002	0176	6703	.3158	2.2797	6.56	.02	2.88 (60.19)	•204
7.02 .68	0088	0010	-,0185	7157	.3522	2.4735	8,64	•03	2.89 (60.31)	•504
6.94 .68	0071	0018	0181	7503	.3842	2.6655	10.69	.04	2.88 (60.20)	•504
6.67 .68	0068	0023	0188	7711	.4253	2.8350	12.74	.05	2.89 (60.28)	•204
6.38 .68	0054	0036	0184	7603	.4585	2,9272	14.75	.06	2.89 (60.40)	.204
5,82 ,68	0049	0022	0112	7237	.5028	2.9269	16,76	.06	2.89 (60.44)	•204
BER 198	TEST NUME	۱.	AXIS DATA	RAL BODY-	AND LATE	ILITY-AXIS	UDINAL STAB	LONGIT	BER 162	RUN NU
L/D H/B	CSF	CYM	CRM	CPM	CD	CL	ALPHA,DEG	PETA+DEG	Q+KPA (PSF)	MACH
3.99 .41	0055	0009	0005	2384	.1860	.7430	-3,78	00	2.90 (60.48)	.204
6.24 .46	0141	.0014	0149	4235	.2054	1.2814	-1.67	01	2.88 (60.21)	.204
6.94 .50	0151	.0011	0191	5180	.2305	1.5999	.41	00	2.89 (60.37)	+204
7.16 .55	0115	.0002	0204	5726	.2560	1.8320	2,49	.01	2.89 (60.33)	.204
7.28 .59	0143	.0006	0203	6219	.2828	2.0572	4.52	.02	2.90 (60.49)	+204
7.19 .64	0116	0010	0221	6654	.3161	2.2724	6,58	.03	2.89 (60.42)	.204
7.04 .68	0099	0012	0216	-,7053	,3502	2.4639	8.62	.04	2.89 (60.27)	.204
6.96 .68	0078	0011	0200	7443	.3825	2.6607	10.67	.05	2.88 (60.07)	.204
6.64 .68	0052	0027	0229	7627	.4233	2.8089	12,67	.07	2.86 (59.80)	.203
6.31 .68	.0015	0059	0238	7625	,4588	2.8965	14.69	.08	2.87 (59.96)	.203
5.71 .68	0033	0048	0166	7269	.5057	2.8864	16,80	.10	2.87 (59.86)	.203
6.94 . 7.16 . 7.28 . 7.19 . 6.96 . 6.64 . 6.31 . 5.71 .	0151 0115 0143 0199 0078 0078 0052 .0015 0033	.0011 .0002 .0006 0010 0012 0011 0027 0059 0048	0191 0204 0203 0221 0216 0200 0229 0238 0166	5180 5726 6219 6654 7053 7443 7627 7625 7269	.2305 .2560 .2828 .3161 .3502 .3825 .4233 .4588 .5057	1.5999 1.8320 2.0572 2.2724 2.4639 2.6607 2.8089 2.8965 2.8864	.41 2.49 4.52 6.58 8.62 10.67 12.67 14.69 16.80	00 .01 .02 .03 .04 .05 .07 .08 .10	2.89 (60.37) 2.89 (60.33) 2.90 (60.49) 2.89 (60.42) 2.89 (60.42) 2.89 (60.42) 2.88 (60.07) 2.86 (59.80) 2.87 (59.96) 2.87 (59.86)	.204 .204 .204 .204 .204 .204 .204 .203 .203 .203

MACH 0.KPA (pSF) RFTA.DEG ALPHA.DEG CL CD CPH CRM CYM CSF L/D H/B 204 2.89 (60.45) 04 -3.85 .5033 .1976 0699 0540 .0004 0324 2.55 .419 204 2.88 (60.21) 03 -1.73 1.0393 .2164 2765 0774 0028 0336 4.80 .462 204 2.88 (60.17) 00 .34 1.3780 .2386 3782 0774 0028 0311 5.78 .507 204 2.89 (60.47) .06 4.45 1.8428 .2857 4360 0764 0047 .0261 6.45 .588 204 2.89 (60.42) .06 4.45 1.8428 .2857 .4793 0768 0017 .0212 6.51 .645 204 2.89 (60.27) .12 8.55 2.2549 .3464 6322 .0077 .0212 6.51 .645 204 2.89 (60.27) .12 8.55 2.2549 .4454	PUN N	UMBER 163	LONGI	TUDINAL STAR	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	`A	TEST NUM	BER 198	
.204 2.89 (60.45)04 -3.85 .5033 .197606990540 .00040324 2.55 .419 .204 2.88 (60.21)03 -1.73 1.0393 .21642765077400080336 4.80 .462 .204 2.88 (60.17)00 .34 1.3780 .23863882077200280311 5.78 .507 .204 2.90 (60.47) .03 2.42 1.6081 .26274360076400470261 6.12 .553 .204 2.89 (60.42) .06 4.45 1.8428 .28594793076800510248 6.45 .598 .204 2.89 (60.42) .06 4.45 1.8428 .28594793076800770212 6.51 .645 .204 2.89 (60.42) .09 6.52 2.0568 .31595178079100990176 6.51 .6655 .204 2.89 (60.29) .12 8.55 2.2549 .34645514079100990176 6.51 .6655 .204 2.89 (60.27) .19 12.63 2.6269 .41586322077601440126 6.32 .666 .204 2.89 (60.33) .22 14.69 2.7442 .45136504072201680035 6.08 .685 .204 2.89 (60.477) .26 16.78 2.8491 .4493667407410208 .0081 5.71 .665 .204 2.89 (60.55)04 -3.82 .5504 .194009260439 .00220357 2.84 .419 .204 2.88 (60.14)00 .36 1.4418 .233341050617 .00150351 5.23 .451 .204 2.89 (60.37) .03 2.41 1.6551 .25684476065000150351 5.23 .451 .204 2.89 (60.37) .03 2.41 1.6551 .25684476065000150351 5.23 .451 .204 2.89 (60.37) .03 2.41 1.6551 .25684476065000150351 5.23 .451 .204 2.89 (60.47) .03 2.41 1.6551 .25684476065000150351 5.23 .451 .204 2.89 (60.47) .03 2.41 1.6551 .25684476065000150351 5.23 .451 .204 2.89 (60.47) .03 2.41 1.6551 .25684476065000150351 5.23 .451 .204 2.89 (60.41) .05 4.47 1.8832 .28224925005400300224 6.67 .558 .204 2.89 (60.41) .05 4.47 1.8832 .28224925005400310234 6.68 .68 .204 2.89 (60.41) .05 4.47 1.8832 .28224925005400300264 6.67 .558 .204 2.89 (60.41) .05 4.47 1.8832 .28224925005400300264 6.67 .588 .204 2.89 (60.41) .05 4.47 1.8832 .28224925005400300264 6.67 .588 .204 2.89 (60.43) .12 8.57 2.2815 .34145784066300550185 6.64 .665 .204 2.89 (60.43) .18 12.64 2.6631 .413265270676010801	масн	Q+KPA (PSF)	RFTADEG	ALPHA, DEG	CL	ĊD	CPM	CRM	CYM	CSF	L/D	H/8
204 2.88 (60.21) 03 -1.73 1.0393 .2164 2765 0774 0008 0336 4.80 .462 .204 2.88 (60.17) 00 .34 1.3780 .2386 0774 0028 0311 5.78 .507 .204 2.89 (60.47) .03 2.42 1.6081 .2627 4360 0764 0047 0261 6.12 .553 .204 2.89 (60.47) .09 6.52 2.0568 .3159 5178 0778 0047 0261 6.12 .553 .204 2.89 (60.29) .09 6.52 2.0568 .3159 5178 0774 0047 0261 6.51 .685 .204 2.89 (60.27) .12 8.55 2.2549 .3464 5614 0773 0114 0166 .6032 .6682 .204 2.89 (60.27) .26 16.78 2.8491 .4993 6824 0741 0208 .0081 5.71 .685	.204	2.89 (60+45)	04	-3.85	.5033	.1976	0699	0540	.0004	0324	2.55	.419
.204 2.88 (60.17) 00 .34 1.3780 .2386 3882 0772 0028 0311 5.78 .507 .204 2.89 (60.47) .03 2.42 1.6081 .2627 4360 0764 0047 0261 6.12 .553 .204 2.89 (60.42) .06 4.45 1.8428 .2859 4793 0768 0077 0248 6.45 .553 .204 2.89 (60.29) .12 8.55 2.2549 .3464 5518 00791 0099 0176 6.51 .645 .204 2.89 (60.27) .19 12.63 2.6269 .4158 6322 0776 0144 0126 6.32 .6866 .204 2.89 (60.27) .26 16.78 2.8491 .4993 6674 0741 0126 .0081 5.71 .6655 .204 2.89 (60.27) .26 16.78 2.8491 .4993 6741 0208 .0081 5.71 .6655 <tr< td=""><td>.204</td><td>2.88 (60.21)</td><td>03</td><td>-1.73</td><td>1.0393</td><td>.2164</td><td>2765</td><td>0774</td><td>0008</td><td>0336</td><td>4,80</td><td>.462</td></tr<>	.204	2.88 (60.21)	03	-1.73	1.0393	.2164	2765	0774	0008	0336	4,80	.462
.204 2.90 (60.47) .03 2.42 1.6081 .2627 4763 0764 0047 0261 6.12 .553 .204 2.89 (60.42) .06 4.45 1.8428 .2859 4793 0768 0051 0248 6.45 .553 .204 2.89 (60.429) .12 8.55 2.2549 .3464 5614 0791 0099 0176 6.51 .665 .204 2.89 (60.427) .19 12.63 2.6269 .4158 6013 0144 0126 6.32 .6685 .204 2.89 (60.427) .19 12.63 2.6269 .4158 6322 0776 0144 0126 6.32 .6865 .204 2.89 (60.427) .26 16.78 2.8491 .4993 6824 0741 0208 .0081 5.71 .685 .204 2.89 (60.59) 04 382 .5504 .1940 0741 0208 .0081 5.71 .685 RUN NUM	.204	2.88 (60.17)	00	.34	1.3780	.2386	3882	0772	0028	0311	5.78	.507
2.89 (60.42) .06 4.45 1.8428 .2859 4793 0768 0051 0248 6.45 .598 .204 2.89 (60.429) .09 6.52 2.0568 .3159 5178 0788 0071 0212 6.51 .645 .204 2.89 (60.429) .12 8.55 2.2549 .3464 5614 00791 0014 0126 6.51 .685 .204 2.89 (60.427) .19 12.63 2.6269 .4158 6322 0776 0144 0126 6.32 .686 .204 2.89 (60.431) .22 14.69 2.7442 .4513 6704 0724 .0164 0126 6.08 .685 .204 2.89 (60.427) .26 16.78 2.8491 .4993 6824 0741 0208 .0081 5.71 .665 .204 2.89 (60.59) 04 -3.82 .5504 .1940 0926 0439 .0022 0357 2.84 .419	.204	2.90 (60.47)	.03	2,42	1.6081	.2627	4360	0764	0047	0261	6.12	•553
.204 2.89 (60.29) .09 6.52 2.0568 .3159 5178 0078 0077 0212 6.51 .645 .204 2.89 (60.29) .12 8.55 2.2549 .3464 5614 0071 0014 0161 6.40 .685 .205 2.90 (60.27) .19 12.63 2.6269 .4158 6504 0776 0144 0126 6.32 .686 .204 2.89 (60.27) .19 12.63 2.6269 .4158 6504 0722 0168 0035 6.08 .685 .204 2.89 (60.27) .26 16.78 2.8491 .4933 6874 0741 0208 .0081 5.71 .685 .204 2.89 (60.59) 04 -3.82 .5504 .1940 0726 0357 2.84 .419 .205 2.90 (60.59) 04 -3.82 .5504 .1940 0926 0439 .0022 0357 2.84 .419 .204	.204	2.89 (60.42)	.06	4.45	1.8428	.2859	4793	0768	0051	-,0248	6.45	•598
.204 2.89 (60.29) .12 8.55 2.2549 .3464 5614 0099 0176 6.51 .685 .205 2.90 (60.26) .16 10.62 2.4436 .3816 6003 0773 0114 0161 6.40 .685 .204 2.89 (60.27) .19 12.63 2.6269 .4158 6322 0776 .0144 0126 6.32 .686 .204 2.89 (60.27) .26 16.78 2.8491 .4993 6874 0741 0208 .0081 5.71 .685 .204 2.89 (60.27) .26 16.78 2.8491 .4993 6874 0741 0208 .0081 5.71 .685 RUN NUMBER 164 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RFTA.DEG ALPHA.OEG CL CD CPM CPM CYM CSF L/D H/B .204 2.88 (60.14) 00 .36 1.4418 .2333 4105	.204	2.89 (60.29)	.09	6.52	2.0568	.3159	5178	0788	0077	0215	6,51	.645
.205 2.90 (60.66) .16 10.62 2.4436 .3816 6003 0773 0114 0161 6.40 .685 .204 2.89 (60.27) .19 12.63 2.6269 .4158 6322 0776 0144 0126 6.32 .686 .204 2.89 (60.27) .26 16.78 2.8491 .4993 6824 0741 0208 .0081 5.71 .685 .204 2.89 (60.27) .26 16.78 2.8491 .4993 6824 0741 0208 .0081 5.71 .685 RUN NUMBER 164 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 *204 2.88 (60.19) 02 -1.71 1.1057 .2113 0439 .0022 0357 2.84 .419 .204 2.88 (60.14) 00 .36 1.4418 .2333 4105 0027 0014 0328 6.18 .506 .204 2.89 (60.41) 00 .36 1.4418 .2333 <td>+05+</td> <td>2.89 (60.29)</td> <td>.12</td> <td>8,55</td> <td>2,2549</td> <td>.3464</td> <td>5614</td> <td>0791</td> <td>0099</td> <td>0176</td> <td>6,51</td> <td>.685</td>	+05+	2.89 (60.29)	.12	8,55	2,2549	.3464	5614	0791	0099	0176	6,51	.685
.204 2.69 (60.27) .19 12.63 2.6269 .4158 6322 0176 0124 0126 6.32 .686 .204 2.69 (60.33) .22 14.69 2.7442 .4513 6504 0722 0168 0035 6.08 .685 .204 2.89 (60.27) .26 16.78 2.8491 .4993 6874 0741 0208 .0081 5.71 .665 RUN NUMBER 164 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPAA (PSF) RFTA.NEG ALPHA.0EG CL CD CPM CPM CYM CSF L/D H/B .204 2.88 (60.19) 02 011 1.057 .213 0026 0617 .0015 0351 5.23 .661 .204 2.88 (60.14) 00 .36 1.4418 .2333 4105 0627 0004 0328 6.18 .506 .204 2.89 (60.41) .05 4.41 1.6561	.205	2,90 (60,66)	.16	10.62	2.4436	.3816	6003	0773	0114	0161	6.40	.685
.204 2.69 (60.33) .22 14.69 2.7442 .4513 6504 0722 0168 0035 6.08 .665 .204 2.89 (60.27) .26 16.78 2.8491 .4993 6874 0741 0208 .0081 5.71 .685 RUN NUMBER 164 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RFTA.DEG ALPHA.0EG CL CD CPM CPM CYM CSF L/D H/8 .204 2.88 (60.19) 02 -1.71 1.1057 .213 3062 0015 0351 5.23 .461 .204 2.88 (60.14) 00 .36 1.4418 .2333 4105 0027 .0031 028 6.18 .506 .204 2.89 (60.14) 00 .36 1.4418 .2333 4105 0027 .0031 .0228 6.18 .506 .204 2.89 (60.14) .05 4.41 1.8632 .2262 4925 <	.204	2.89 (60.27)	.19	12.63	2.6269	.4158	6322	0776	0144	0126	6,32	.686
.204 2.89 (60+27) .26 16.78 2.8491 .4993 6874 0741 0208 .0081 5.71 .685 RUN NUMBER 164 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RFTA.DEG ALPHA.0EG CL CD CPM CYM CSF L/D H/B .205 2.90 (60-59) 04 -3.82 .5504 .1940 0926 0439 .0022 0357 2.84 .419 .204 2.88 (60-19) 02 -1.71 1.1057 .2113 3062 0617 .0015 0351 5.23 .461 .204 2.88 (60-14) 00 .36 1.4418 .2333 4105 0627 0004 0328 6.18 .506 .204 2.89 (60-41) .05 4.41 1.86561 .2562 00554 0015 0306 6.45 .552 .204 2.89 (60-41) .05 4.41 1.86561 .2562 0651 0015 <td>.204</td> <td>2.89 (60.33)</td> <td>.22</td> <td>14.69</td> <td>2.7442</td> <td>.4513</td> <td>6504</td> <td>0722</td> <td>0168</td> <td>0035</td> <td>6,08</td> <td>.685</td>	.204	2.89 (60.33)	.22	14.69	2.7442	.4513	6504	0722	0168	0035	6,08	.685
RUN NUMBER 164 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RFTA.DEG ALPHA.OEG CL CD CPM CPM CYM CSF L/D H/B .205 2.90 (60-59) 04 -3.82 .5504 .1940 0926 0439 .0022 0357 2.84 .419 .204 2.88 (60-19) 02 -1.71 1.1057 .213 3062 0617 .0015 0351 5.23 .461 .204 2.88 (60-14) 00 .36 1.4418 .2333 4105 0627 0004 0328 6.18 .506 .204 2.89 (60-37) .03 2.41 1.6551 .2568 4476 0050 0015 0328 6.18 .506 .204 2.89 (60-41) .05 4.447 1.8832 .2822 4925 .0051 0224 6.66 .598 .204	•204	2.89 (60.27)	.26	16.78	2.8491	.4993	6874	0741	0208	.0081	5.71	.685
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		UMBER 164	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MACH	0.KPA (PSF)	RFTA.DEG	ALPHA,DEG	CL	CD	CPM	CRN	CYM	CSF	L/D	H/B
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.205	2.90 (60.59)	04	-3.82	.5504	.1940	0926	0439	.0022	0357	2.84	.419
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.88 (60.19)	02	-1.71	1.1057	.2113	3062	0617	+0015	-,0351	5.23	.461
.204 2.89 (60.37) .03 2.41 1.6561 .2568 4476 0650 0015 0306 6.45 .552 .204 2.89 (60.41) .05 4.47 1.8832 .282 0425 0054 0015 0264 6.67 .598 .204 2.89 (60.41) .05 4.47 1.8832 .222 0425 0051 0264 6.67 .598 .204 2.89 (60.44) .05 4.47 1.8832 .222 0455 0051 0264 6.67 .598 .204 2.89 (60.44) .12 8.57 2.2851 .3441 5784 0053 0077 0185 6.64 .668 .204 2.89 (60.39) .14 10.60 2.4841 .3762 6259 0086 0153 6.60 .684 .204 2.89 (60.39) .18 12.64 2.6631 .4132 6507 0076 0188 .0132 6.45 .685 .204 2.89 <td< td=""><td>.204</td><td>2.88 (60-14)</td><td>00</td><td>• 36</td><td>1.4418</td><td>.2333</td><td>4105</td><td>0627</td><td>0004</td><td>0328</td><td>6.18</td><td>.506</td></td<>	.204	2.88 (60-14)	00	• 36	1.4418	.2333	4105	0627	0004	0328	6.18	.506
.204 2.89 (60.41) .05 4.47 1.8832 .2822 4925 0030 0264 6.67 .598 .204 2.90 (60.53) .08 6.58 2.0961 .3136 5326 0661 0051 0234 6.68 6.64 .645 .204 2.89 (60.44) .12 8.57 2.2851 .3441 5784 0683 0177 0185 6.64 .685 .204 2.89 (60.39) .14 10.60 2.4841 .3762 6229 0659 0086 0153 6.60 .684 .204 2.89 (60.39) .14 10.60 2.4841 .3762 6229 0659 0186 0153 6.60 .684 .204 2.89 (60.39) .18 12.64 2.6631 .4132 6507 0164 0132 6.45 .685 .204 2.88 (60.37) .20 14.70 2.7719 .4497 6840 01638 0142 0003 6.16 .684	.204	2.89 (60.37)	.03	2.41	1.6561	.2568	4476	0650	0015	0306	6,45	.552
.204 2.90 (60.53) .08 6.58 2.0961 .3136 5326 0051 0234 6.68 .646 .204 2.89 (60.44) .12 8.57 2.2851 .3441 5784 0683 0077 0185 6.64 .685 .204 2.89 (60.39) .14 10.60 2.4841 .3762 6229 00559 00553 6.60 .684 .204 2.89 (60.39) .18 12.64 2.6631 .4132 6507 0056 0132 6.45 .685 .204 2.89 (60.37) .20 14.70 2.7719 .4497 6640 0638 0142 0003 6.16 .684 .204 2.89 (60.37) .23 16.71 2.4894 7049 0638 0142 0003 6.16 .684 .204 2.89 (60.37) .23 16.71 2.4894 7049 0635 0164 .0085 5.84 .684	.204	2.89 (60+41)	.05	4.47	1.8832	.2822	~,4925	0654	0030	0264	6.67	. 598
.204 2.89 (60.44) .12 8.57 2.2851 .3441 5784 0683 0077 0185 6.64 .685 .204 2.89 (60.39) .14 10.60 2.4841 .3762 6229 0059 0086 0153 6.60 .684 .204 2.89 (60.39) .18 12.64 2.6631 .4132 6507 0108 0132 6.45 .685 .204 2.88 (60.22) .20 14.70 2.7719 .4497 65840 00538 0182 .0003 6.16 .684 .204 2.89 (60.37) .23 16.71 2.8812 .4934 7049 01635 0164 .0085 5.84 .685	.204	2.90 (60.53)	.08	6.58	2.0961	.3136	5326	0661	0051	-,0234	6.68	.646
.204 2.89 (60.39) .14 10.60 2.4841 .37626229065900860153 6.60 .684 .204 2.89 (60.39) .18 12.64 2.6631 .41326507067601080132 6.45 .685 .204 2.88 (60.22) .20 14.70 2.7719 .44976840063801420003 6.16 .684 .204 2.89 (60.37) .23 16.71 2.8812 .4934704906350164 .0085 5.84 .685	+05+	2.89 (60+44)	.12	8.57	2,2851	.3441	5784	0683	0077	0185	6.64	.685
.204 2.89 (60-39) .18 12.64 2.6631 .41326507067601080132 6.45 .685 .204 2.88 (60-22) .20 14.70 2.7719 .44976840063801420003 6.16 .684 .204 2.89 (60-37) .23 16.71 2.8812 .4934704906350164 .0085 5.84 .685	.204	2.89 (60.39)	.14	10.60	2.4841	.3762	6229	0659	0086	0153	6.60	.684
.204 2.88 (60.22) .20 14.70 2.7719 .44976840063801420003 6.16 .684 .204 2.89 (60.37) .23 16.71 2.8812 .4934704906350164 .0085 5.84 .685	.204	2.89 (60.39)	.18	12.64	2.6631	.4132	6507	0676	0108	0132	6.45	.685
.204 2.89 (60·37) .23 16.71 2.8812 .4934704906350164 .0085 5.84 .685	.204	2.88 (60.25)	.20	14.70	2.7719	.4497	6840	0638	0142	0003	6.16	.684
	.204	2.89 (60.37)	.23	16.71	2.8812	.4934	7049	0635	0164	.0085	5.84	.685

RUN N	UMBER 165	LONGI	TUDINAL STAB	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	Α.	TEST NUM	BER 198	
MACH	G,KPA (PSF)	BETA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.204	2.89 (60.41)	04	-3.73	.6741	.1913	1406	0419	.0028	0338	3.26	.422
.204	2.89 (60.33)	05	-1.66	1.1942	.2070	3534	0490	.0021	0306	5.77	.463
.204	2.89 (60+42)	.00	.48	1.5009	.2321	4479	0535	.0003	0307	6.47	.510
.204	2.89 (60.34)	.02	2.43	1.7128	.2541	4841	0554	0007	0292	6.74	,553
.204	2.89 (60.35)	.05	4.54	1.9391	.2819	5258	0568	0023	0238	6,88	.601
.204	2.89 (60.42)	.08	6.57	2.1577	.3103	5705	0582	0038	0227	6.95	.647
•204·	2.90 (60+48)	.10	8.61	2.3478	.3445	6133	0574	0051	0202	6.82	,684
.204	2.89 (60.29)	.13	10.71	2.5472	.3773	6476	0544	0056	0186	6.75	.685
.204	2.89 (60.44)	.15	12.75	2.7271	.4152	6727	0553	0085	0140	6.57	.685
.204	2.89 (60.43)	.17	14.68	2.8614	.4491	6719	0506	~.0105	0125	6.37	.685
.204	2.89 (60.44)	.19	16.73	3.0179	.4965	-,6734	0443	0095	0136	6,08	.684
•204	2.89 (60.38)	.19	18.76	3.1104	•5473	~. 6659	0332	0078	0137	5.68	.686
	UMBER 166	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
масн	0.KPA (PSF)	BETA+DEG	ALPHA, DEG	CL	CD	СРм	CRM	CYM	CSF	٤/٥	H/8
.204	2.89 (60.43)	03	-3.82	.6635	.1864	1801	0292	.0032	0301	3,56	.420
.204	2.89 (60.27)	02	-1.67	1.2332	.2033	3928	0334	.0026	0272	6.07	,462
.204	2.88 (60.22)	.00	.46	1,5613	.2265	4958	0336	.0014	0236	6.89	.508
.204	2.89 (60.32)	.02	2.47	1.7727	.2520	5376	0361	.0009	0233	7.03	.554
.204	2.89 (60.30)	04	4.48	1.9831	.2778	5814	0383	.0003	0214	7.14	. 599
.204	2.89 (60.37)	.06	6.59	2.2142	.3064	6226	0385	0008	0192	7,23	.646
.204	2.89 (60.26)	.08	8.58	2.4161	.3405	6648	0387	0021	0170	7.10	.685
.204	2.89 (60.29)	.10	10.70	2.6095	.3768	6993	0378	0029	0170	6.93	.684
.204	2.89 (60.39)	.12	12,70	2.7785	• 4158 ·	7204	0396	0055	0122	6.68	.685
.204	2.88 (60.22)	.14	14.77	2.9243	.4495	7184	-,0333	0064	0092	6.51	.685
.204	2.90 (60.50)	.15	16.74	3.0621	4969	7229	0274	0051	0108	6.16	.685
.204	2.89 (60.40)	.15	18,77	3.1321	.5439	7146	0206	0039	0147	5.76	.684

ł

. . . .

MACH Q+KPA Q+SF RFTA.DEG ALPHA.DEG CL CD CPH CRH CYH CSF L/D H/B 2205 2.91 (60.68) 02 -3.81 .7095 .1830 2206 0145 .0030 0262 3.88 .419 2204 2.88 (60.25) 01 -1.64 1.2942 .2020 4421 0148 .0029 0268 .6.41 .462 2204 2.88 (60.33) 01 .249 1.8375 .2249 0177 .0016 0175 7.36 .553 2204 2.89 (60.35) .03 4.54 2.0650 .2762 0168 .0017 .0155 7.36 .553 .204 2.89 (60.27) .05 8.61 2.4643 .3433 7152 0166 .0017 .0134 7.06 .648 .204 2.88 (60.20) .09 12.70 2.4839 .4197 7732 0206 0134 7.06 .648 .204 2.88 (60.59) <th>RUN N</th> <th>IMBER 167</th> <th>LONGIT</th> <th>UDINAL STAB</th> <th>ILITY-AXIS</th> <th>AND LAT</th> <th>ERAL BODY</th> <th>-AXIS DAT</th> <th>4</th> <th>TEST NUM</th> <th>PER 198</th> <th></th>	RUN N	IMBER 167	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	4	TEST NUM	PER 198	
.205 2.91 (60.68) 02 -3.81 .7095 .1830 2206 0145 .0030 0262 3.88 .419 .204 2.88 (60.25) 01 -1.64 1.2942 .2020 4421 0148 .0029 0208 6.41 .462 .204 2.88 (60.13) 00 .39 1.5947 .2263 .5397 0178 .0016 0175 7.36 .5533 .204 2.89 (60.36) .03 4.54 2.0450 .2768 0177 .0016 0175 7.36 .5533 .204 2.89 (60.35) .04 6.56 2.2682 .3081 6720 0168 .0017 0155 7.36 .6455 .204 2.88 (60.20) .07 10.71 2.6623 .3802 7537 0165 .0113 .706 .684 .204 2.88 (60.20) .07 12.71 2.8339 .4197 7732 0206 0113 .6.76 .684 .204 2.86 (60.59)	масн	Q+KPA (PSF)	AFTA.DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
204 2.88 (60.25) 01 -1.64 1.2942 .2020 4421 0148 .0029 0208 6.41 .462 204 2.88 (60.13) 00 .39 1.5947 .2263 5397 0178 .0016 0197 7.05 .566 203 2.87 (59.94) .01 2.49 1.8375 .2495 5905 0177 .0016 0175 7.36 .553 204 2.89 (60.35) .04 6.56 2.2682 .3081 6720 0168 .0017 0155 7.36 .6645 204 2.89 (60.20) .07 10.71 2.6823 .3802 7547 0176 .0000 0134 7.06 .684 .204 2.88 (60.20) .00 10 14.78 2.9685 .4556 7541 0120 0116 .014 .263 .204 2.90 (60.51) .08 18.70 .1125 .5559 8355 .0008 .0034 0332 5.60 .684	.205	2.91 (60.68)	02	-3.81	.7095	.1830	2206	0145	.0030	0262	3,88	.419
204 2.88 (60.13) 00 .39 1.5947 .2263 5397 0178 .0016 0197 7.05 .550 203 2.87 (50.94) .01 2.49 1.8375 .2495 5505 0177 .0016 0175 7.36 .553 204 2.89 (60.36) .03 4.54 2.0650 .2768 6354 0195 .0012 0166 7.46 .559 204 2.89 (60.35) .04 6.56 2.2682 .3081 6720 0168 .0017 0155 7.36 .664 204 2.88 (60.20) .07 10.71 2.6823 .3802 7547 0176 .0000 0134 7.06 .664 .204 2.86 (60.20) .09 12.70 2.8389 .4197 7321 0206 00134 7.06 .664 .204 2.86 (60.59) .10 14.78 2.9685 .4556 .7641 0102 0016 0184 6.21 .663 <td< td=""><td>.204</td><td>2,88 (60+25)</td><td>01</td><td>-1.64</td><td>1.2942</td><td>.2020</td><td>4421</td><td>0148</td><td>.0029</td><td>0205</td><td>6.41</td><td>.462</td></td<>	.204	2,88 (60+25)	01	-1.64	1.2942	.2020	4421	0148	.0029	0205	6.41	.462
-203 2.87 (59-94) .01 2.49 1.8375 .2495 5905 0177 .0016 0175 7.36 .553 .204 2.89 (60.35) .03 4.54 2.0650 .2768 6354 0195 .0012 0166 7.46 .599 .204 2.89 (60.35) .04 6.56 2.2682 .3081 6770 0168 .0017 0155 7.36 .645 .204 2.89 (60.27) .05 8.61 2.4643 .3433 7152 0195 .0005 0134 7.06 .664 .204 2.88 (60.20) .07 10.71 2.6823 .3802 7757 0176 .0000 0134 7.06 .684 .204 2.88 (60.59) .10 16.79 3.101 .4994 7871 0162 0164 6.21 .663 .204 2.90 (60.51) .08 18.70 3.1125 .5559 8355 .0008 .0034 0332 5.60 .664 <	•504	2.88 (60-13)	00	.39	1,5947	.2263	-,5397	0178	.0016	0197	7.05	.506
-204 2.89 (60.36) .03 4.54 2.0650 .2768 6354 0195 .0012 0166 7.46 .559 .204 2.89 (60.35) .04 6.56 2.2682 .3081 6720 0168 .0017 0155 7.36 .645 .204 2.88 (60.27) .05 8.61 2.4643 .3433 77547 0176 .0000 0134 7.06 .684 .204 2.88 (60.20) .07 10.71 2.6823 .3802 7547 0176 .0000 0134 7.06 .684 .204 2.88 (60.20) .00 12.70 2.8389 .4197 7732 0020 0134 6.52 .683 .204 2.88 (60.05) .10 16.79 3.1001 .4994 7821 0102 0166 .211 .663 .204 2.90 (60.51) .08 18.70 3.1125 .5559 8355 .0008 .0034 0332 5.60 .684 RUN NI/MRER 16A	.203	2.87 (59.94)	.01	2.49	1.8375	.2495	- 5905	0177	.0016	0175	7.36	•553
-204 2.89 (60.35) .04 6.56 2.2682 .3081 6720 0168 .0017 0155 7.36 .6645 -204 2.89 (60.27) .05 8.61 2.4643 .3433 7152 0195 .0005 0159 7.18 .6845 -204 2.88 (60.20) .07 10.71 2.6823 .3802 7547 0176 .0000 0134 7.06 .684 -204 2.88 (60.20) .00 12.70 2.8389 .4197 7732 0206 0029 0082 6.52 .683 -204 2.88 (60.59) .10 16.79 3.1001 .4994 7621 0164 0164 6.21 .683 -204 2.90 (60.51) .08 18.70 3.1125 .5559 8355 .0008 .0034 0332 5.60 .684 RUN NIMBER 168 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 .204 2.90 (60.48) .01 -3.78 .8463 .1822 3094<	•204	2,89 (60.36)	.03	4.54	2.0650	.2768	6354	0195	.0012	0166	7.46	.599
.204 2.89 (60.27) .05 8.61 2.4643 .3433 7152 0195 .0005 0159 7.18 .684 .204 2.88 (60.20) .07 10.71 2.6823 .3802 7547 0176 .0000 0134 7.06 .684 .204 2.88 (60.20) .00 12.70 2.8389 .4197 7732 0206 0020 0134 7.06 .684 .204 2.88 (60.20) .10 14.78 2.9685 .4556 7641 0102 0016 0164 6.52 .663 .205 2.90 (60.51) .08 18.70 3.1125 .5559 8355 .0008 .0034 0164 6.21 .663 .204 2.90 (60.48) .01 -3.78 .8463 .1822 3094 .0173 .0013 0055 4.64 .418 .204 2.89 (60.45) .01 -3.78 .8463 .1822 6394 .0173 .0013 0055 4.64 .418	.204	2.89 (60.35)	.04	6.56	2.2682	.3081	-,6720	0168	.0017	0155	7,36	.645
.204 2.88 (60.20) .07 10.71 2.6823 .3802 7547 0176 .0000 0134 7.06 .684 .204 2.88 (60.20) .09 12.70 2.8389 .4197 7732 0206 0020 0113 6.76 .684 .204 2.88 (60.20) .09 12.70 2.8389 .4197 7732 0206 0020 0113 6.76 .684 .204 2.88 (60.20) .10 14.78 2.9685 .4556 7641 0164 0029 0164 6.21 .683 .204 2.90 (60.51) .08 18.70 3.1125 .5559 8355 .0008 .0034 0332 5.60 .684 RUN NI/MRER 16A LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 #ACH 0.KPA (PSF) RFTA.DEG ALPHA.DEG CL CD CPM CPM CYM CSF L/D H/B .204 2.90 (60.46) .01 -3.78 .8463 .1822 3094 .0173 .0013 0055	.204	2.89 (60.27)	.05	8.61	2.4643	.3433	7152	0195	.0005	0159	7.18	.684
*204 2.88 (60.20) .00 12.70 2.8389 .4197 7732 0206 0020 0113 6.76 .684 *204 2.88 (60.20) .10 14.78 2.9685 .4556 7641 0164 0029 0082 6.52 .683 *205 2.90 (60.59) .10 16.79 3.1001 .4994 7821 0102 0034 0332 5.60 .683 *204 2.90 (60.51) .08 18.70 3.1125 .5559 8355 .0008 .0034 0332 5.60 .684 RUN NUMBER 16A LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 *204 2.90 (60.48) .01 -3.78 .8463 .1822 3094 .0173 .0013 0055 4.64 .419 *204 2.89 (60.48) .01 -3.78 .8463 .1822 3094 .0173 .0013 0055 4.64 .419 *204 2.89 (60.43) .01 -3.679 .2264	.204	2.88 (60.20)	.07	10.71	2,6823	.3802	7547	0176	.0000	0134	7.06	.684
.204 2.88 (60.09) .10 14.78 2.9685 .4556 7641 0164 0029 0082 6.52 .663 .205 2.90 (60.59) .10 16.79 3.1001 .4994 7821 0102 0016 0164 6.21 .663 .204 2.90 (60.51) .08 18.70 3.1125 .5559 8355 .0008 .0034 0332 5.60 .664 RUN NUMBER 16A LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 #ACH 0,KPA (PSF) RFTA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.90 (60.48) .01 -3.78 .8463 .1822 3094 .0173 .0013 0055 4.64 .418 .204 2.89 (60.45) 00 .43 1.6796 .2276 .5922 .0056 .0024 0069 7.38 .505 .204 2.89 (60.45) 00 2.47 .9077 .2521 6395	.204	2.88 (60.20)	.09	12.70	2.8389	.4197	-,7732	0206	0020	0113	6.76	.684
.205 2.90 (60.59) .10 16.79 3.1001 .4994 7821 0102 0164 6.21 .663 .204 2.90 (60.51) .08 18.70 3.1125 .5559 8355 .0008 .0034 0332 5.60 .6684 RUN NIMBER 168 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RFTA.DEG CL CD CPM CRM CYM CSF L/D H/B .204 2.90 (60.48) .01 -3.78 .8463 .1822 3094 .0173 .0013 0055 4.64 .418 .204 2.89 (60.45) .01 -3.78 .8463 .1822 3094 .0173 .0013 0055 4.64 .418 .204 2.89 (60.45) .00 -1.64 1.3620 .2276 .5922 .0056 .0024 0053 6.74 .461 .204 2.89 (60.45) 00 2.477 1.9077 .2521 .6395 .0067	.204	2.88 (60.09)	.10	14.78	2.9685	,4556	-,7641	0164	0029	0082	6.52	.683
.204 2.90 (60+51) .08 18.70 3.1125 .5559 8355 .0008 .0034 0332 5.60 .684 RUN NIMMER 168 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) RFTA.DEG ALPHA.DEG CL CD CPM CRH CYM CSF L/D H/B .204 2.90 (60+48) .01 -3.78 .8463 .1822 3094 .0173 .0013 0055 4.64 .418 .204 2.89 (60+51) .00 -1.64 1.3620 .2021 4914 .0066 .0024 0053 6.74 .461 .204 2.89 (60+21) .00 -1.64 1.3620 .2276 5922 .0056 .0024 0069 7.38 .555 .204 2.89 (60+23) 00 .433 1.6796 .2276 .5922 .0056 .0024 0069 7.38 .555 .204 2.89 (60+23) 00 4.58 .247 .896 .001	.205	2.90 (60.59)	.10	16.79	3.1001	.4994	-,7821	0102	0016	0164	6.21	.683
RUN NIMMER 16A LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0,KPA (PSF) RFTA.DEG CL CO CPM CRH CYM CSF L/D H/B .204 2.90 (60.48) .01 -3.78 .8463 .1822 3094 .0173 .0013 0055 4.64 .418 .204 2.88 (60.21) .00 -1.64 1.3620 .2021 4914 .0066 .0024 0053 6.74 .461 .204 2.89 (60.29) 00 2.43 1.6796 .2217 6395 .0056 .0024 00053 6.74 .461 .204 2.89 (60.29) 00 2.447 1.9077 .2521 6395 .0067 .0026 0001 7.57 .551 .204 2.89 (60.30) 00 8.68 2.5579 .3485 778 .0029 .0034 0046 7.33 .664 .204 <t< td=""><td>.204</td><td>2.90 (60.51)</td><td>.08</td><td>18,70</td><td>3.1125</td><td>.5559</td><td>8355</td><td>.0008</td><td>.0034</td><td>0332</td><td>5.60</td><td>.684</td></t<>	.204	2.90 (60.51)	.08	18,70	3.1125	.5559	8355	.0008	.0034	0332	5.60	.684
MACH 0,KPA (PSF) RFTA.DEG ALPHA.DEG CL CO CPH CRH CYH CSF L/D H/B .204 2.90 (60.48) .01 -3.78 .8463 .1822 3094 .0173 .0013 0055 4.64 .418 .204 2.88 (60.45) .00 -1.64 1.3620 .2021 4914 .0066 .0024 0055 4.64 .418 .204 2.89 (60.45) 00 .43 1.6796 .2276 5922 .0056 .0024 0069 7.38 .505 .204 2.89 (60.45) 00 .43 1.6796 .2276 .5922 .0056 .0024 0069 7.38 .505 .204 2.89 (60.33) 00 4.58 2.1408 .2222 .6084 .0041 .0030 0055 7.59 .599 .204 2.89 (60.30) 00 8.68 2.5579 .3488 0024 .0026 .0044 .0026 .0044 .0026 .0044		MARER 168	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MACH	Q,KPA (PSF)	RETA.DEG	ALPHA,DEG	C∟	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.204 2.88 (60.21) .00 -1.64 1.3620 .2021 4914 .0066 .0024 0053 6.74 .61 .204 2.89 (60.45) 00 .43 1.6796 .2276 5922 .0055 .0024 0069 7.38 .505 .204 2.89 (60.29) 00 2.47 1.9077 .2521 6395 .0067 .0026 00069 7.38 .505 .204 2.89 (60.33) 00 4.58 2.1408 .2822 .6844 .0041 .0030 0055 7.59 .599 .204 2.90 (60.48) 00 6.60 2.3543 .3145 7278 .0029 .0034 0066 7.49 .645 .204 2.89 (60.40) 00 8.68 2.5579 .3486 7696 .0024 .0026 0044 7.33 .684 .204 2.88 (60.40) .00 10.78 2.7555 .3867 8041 .0002 .0014 0029 6.83 .684	.204	2.90 (60.48)	.01	-3.78	.8463	.1822	3094	.0173	.0013	0055	4.64	.418
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.88 (60.21)	.00	-1.64	1.3620	.2021	- 4914	.0066	.0024	0053	6.74	.461
.204 2.89 (60.29) 00 2.47 1.9077 .2521 6395 .0067 .0026 0001 7.57 .551 .204 2.89 (60.43) 00 4.58 2.1408 .2822 6844 .0041 .0030 0055 7.57 .551 .204 2.89 (60.48) 00 6.60 2.3543 .3145 7278 .0029 .0034 0066 7.49 .645 .204 2.89 (60.30) 00 8.68 2.5579 .3488 7696 .0024 .0026 0044 7.33 .664 .204 2.88 (60.30) .00 10.78 2.7565 .3867 8041 .0002 .0019 0034 7.13 .663 .204 2.89 (60.30) .00 12.71 2.9083 .4256 8204 0006 .0017 0029 6.83 .684 .204 2.89 (60.471) .01 14.74 3.0239 .4612 794 0028 .0006 0031 6.56 .684	.204	2.89 (60.45)	00	.43	1.6796	.2276	-,5922	.0056	.0024	0069	7.38	.505
.204 2.89 (60-33) 00 4.58 2.1408 .2822 6844 .0041 .0030 0055 7.59 .599 .204 2.90 (60-48) 00 6.60 2.3543 .3145 7278 .0029 .0034 0066 7.49 .645 .204 2.89 (60-43) 00 8.68 2.3543 .3145 7278 .0029 .0034 0066 7.49 .645 .204 2.89 (60-30) 00 8.68 2.5579 .3488 7696 .0024 .0026 0044 7.33 .684 .204 2.88 (60-22) .00 10.78 2.7565 .3867 8041 .0002 .0017 0029 6.83 .683 .204 2.89 (60-30) .00 12.71 2.9083 .4256 8204 0016 .0017 0029 6.83 .684 .204 2.90 (60-47) .01 14.74 3.0239 .4612 7994 0028 .0006 0031 6.52 .684	.204	2.89 (60.29)	00	2.47	1.9077	.2521	6395	.0067	.0026	0001	7.57	.551
.204 2.90 (60.48) 00 6.60 2.3543 .3145 7278 .0029 .0034 0066 7.49 .645 .204 2.89 (60.30) 00 8.68 2.5579 .3488 7696 .0024 .0026 0044 7.33 .664 .204 2.88 (60.2) .00 10.78 2.7565 .3867 8041 .0002 .0019 0034 7.13 .664 .204 2.88 (60.30) .00 12.71 2.9083 .4256 8204 0006 .0017 0029 6.83 .684 .204 2.90 (60.47) .01 14.74 3.0239 .4612 7994 0028 .0006 0031 6.55 .684 .204 2.89 (60.47) .01 14.74 3.0239 .4612 7934 0028 .0006 0031 6.55 .684 .204 2.89 (60.47) .01 14.79 .505 .5069 7980 0042 .0031 6.52 .684 <td>.204</td> <td>2.89 (60.33)</td> <td>00</td> <td>4.58</td> <td>2.1408</td> <td>.2822</td> <td>- 6844</td> <td>.0041</td> <td>.0030</td> <td>0055</td> <td>7.59</td> <td>.599</td>	.204	2.89 (60.33)	00	4.58	2.1408	.2822	- 6844	.0041	.0030	0055	7.59	.599
.204 2.89 (60.30)00 8.68 2.5579 .34887696 .0024 .00260044 7.33 .684 .204 2.88 (60.22) .00 10.78 2.7565 .38678041 .0002 .00190034 7.13 .683 .204 2.89 (60.30) .00 12.71 2.9083 .425682040006 .00170029 6.83 .684 .204 2.90 (60.47) .01 14.74 3.0239 .461279940028 .00060031 6.56 .684 .204 2.89 (60.32) .02 16.79 3.1505 .506978000042 .00030031 6.22 .684	.204	2.90 (60.48)	00	6.60	2.3543	.3145	7278	.0029	.0034	0066	7.49	.645
.204 2.88 (60.22) .00 10.78 2.7565 .38678041 .0002 .00190034 7.13 .683 .204 2.89 (60.30) .00 12.71 2.9083 .425682040006 .00170029 6.83 .684 .204 2.90 (60.47) .01 14.74 3.0239 .461279940028 .00060031 6.56 .684 .204 2.89 (60.32) .02 16.79 3.1505 .506978000042 .00030031 6.22 .688	-204	2.89 (60.30)	00	8.68	2.5579	.3488	- 7696	.0024	.0026	0044	7.33	.684
•204 2.89 (60-30) .00 12.71 2.9083 .425682040006 .00170029 6.83 .684 •204 2.90 (60-47) .01 14.74 3.0239 .461279940028 .00060031 6.56 684 •204 2.89 (60-32) .02 16.79 3.1505 .506978000042 .00030031 6.22 .685	.204	2.88 (60.22)	.00	10.78	2.7565	.3867	-,8041	.0002	.0019	0034	7.13	.683
•204 2.90 (60.47) .01 14.74 3.0239 .461279940028 .00060031 6.55 .684 •204 2.89 (60.32) .02 16.79 3.1505 .506978000042 .00030031 6.22 .685	.204	2.89 (60.30)	.00	12.71	2.9083	.4256	8204	0006	.0017	0029	6.83	.684
·204 2.89 (60·32) .02 16.79 3.1505 .506978000042 .00030031 6.22 .685	.204	2.90 (60.47)	.01	14.74	3.0239	.4612	7994	0028	.0006	0031	6.56	684
· · · · · · · · · · · · · · · · · · ·	.204	2.89 (60.32)	.02	16.79	3,1505	.5069	7800	0042	.0003	0031	6.22	.685

RUN N	UMBER 169	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY-	AXIS DATA		TEST NUM	BER 198.	
MACH	Q+KPA (PSF)	RETA.DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в
.210	3.04 (63.58)	00	.44	1.7094	,1900	6406	.0117	.0026	.0169	9.00	.018
.210	3.04 (63.55)	.00	.44	1.7014	.1925	6409	.0118	.0027	.0158	8.84	.024
.205	2.90 (60.60)	.00	.40	1.6889	.2058	6299	.0093	.0027	.0098	8.21	.074
.204	2.89 (60.46)	.00	.40	1.6923	.2113	6184	.0088	.0035	.0044	8.01	.123
.204	2.88 (60.09)	.00	.41	1.6794	.2164	6103	.0068	.0032	0016	7.76	.171
.203	2.87 (59.85)	.00	.43	1.6711	.2210	6031	.0066	.0030	0021	7.56	.225
• 204	2.89 (60.34)	00	.44	1.6725	.2234	5945	.0088	.0029	0042	7.49	.321
•504	2.90 (60.54)	00	.44	1.6585	.2272	- 5882	.0048	.0027	0080	7.30	.422
.204	2.90 (60.53)	00	.45	1.6704	.2273	-,5923	.0065	.0024	0043	7.35	.505
RUN N	UMBER 170	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY-	AXIS DATA		TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETADEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.204	2.90 (60.56)	00	2.44	1.8988	.2051	7007	.0090	.0031	.0091	9.26	.018
.204	5.88 (60.36)	00	2.44	1.9048	.2079	7037	•0092	.0030	.0109	9.16	.023
.204	2.87 (60.03)	00	2.44	1.9099	.2222	6933	.0092	.0025	.0111	8.59	.073
.203	2.87 (59.93)	00	2.45	1.9010	.2327	6684	.0061	.0023	.0068	8.17	.122
.204	2.87 (60.02)	00	2.45	1.8996	.2380	6563	.0071	.0027	.0025	7.98	.171
•203	2.87 (59.84)	00	2.45	1.8785	.2439	6426	.0042	.0020	0012	7.70	.222
.203	2.85 (59.55)	0,0	2.45	1.8762	.2487	6355	.0032	.0022	0046	7.54	.321
•205	2.84 (59.40)	00	2.46	1.8901	.2489	6301	.0057	.0028	0056	7.59	.419
.203	2.85 (59.43)	00	2.47	1.8801	.2531	6329	.0037	•0024	0044	7.43	.551

RUN NUMBER 171 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA T	EST NUMBER 198
MACH Q.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPM CRM CYM	CSF L/D H/B
.205 2.90 (60.67)01 4.48 2.1085 .24347477 .0069 .0031	.0076 8.66 .071
•204 2•89 (60•40) -•01 4•48 2•1132 •2541 -•7270 •0065 •0029	.0050 8.32 .118
,204 2.89 (60.27)01 4.50 2.1059 .26237088 .0053 .0030 -	.0006 8.03 .169
.203 2.87 (59.92)01 4.49 2.0945 .26946951 .0035 .0023 -	.0013 7.78 .221
-202 2.84 (59·37)01 4.49 2.0929 .27506812 .0052 .0020 -	.0032 7.61 .318
-205 2.91 (60.71)01 4.53 2.0998 .27906730 .0042 .0018 -	.0036 7.53 .418
•204 2.89 (60.28)01 4.55 2.1227 .28006829 .0041 .0024 -	.0034 7.58 .597
RUN NUMBER 172 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TH	EST NUMBER 198
MACH Q+KPA (PSF) RETA+DEG ALPHA+DEG CL CD CPM CRN CYM	CSF L/D H/B
.206 2.95 (61-51)01 6.54 2.3149 .28057793 .0050 .0017	.0078 8.25 .118
-204 2.90 (60.54)01 6.53 2.3074 .28837552 .0055 .0027	.0014 8.00 .169
-204 2.89 (60-26)01 6-53 2-2961 -29737408 -0044 -0027	.0001 7.72 .218
-203 2-86 (59-80)01 6-62 2-3013 -30577223 -0038 -0025	0025 7.53 .317
203 2.87 (59.96)01 6.64 2.3044 .31067131 .0022 .0017	.0033 7.42 .419
204 2.89 (60.46)00 6.68 2.3369 .31387252 .0016 .0024	.0068 7.45 .602

RUN N	UMBER 179	LONGI	TUDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	Ά.	TEST NUM	BER 198	
MACH	Q,KPA (PSF)	8FTA+DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в
•117	.97 (20.21)	.01	-3.83	.6133	.1752	4884	0025	.0019	0121	3.50	.426
•117	.97 (20.16)	.01	-1.67	1.2374	.1964	-,7561	.0042	•0055	0094	6.30	.473
•117	.96 (20.10)	00	.41	1.6011	.2236	-,7922	0003	.0023	0139	7.16	.521
.116	.96 (20.06)	00	2.49	1.8267	.2482	7643	.0005	.0025	0109	7.36	.570
•117	.96 (20.08)	01	4.52	2.0150	.2752	7256	0012	.0029	011B	7.32	.617
+117	.97 (20.19)	01	6.57	2.2146	.3008	-,6779	0050	.0028	0137	7.36	.666
.117	.97 (20.16)	01	8.66	2.3956	.3247	-,6179	0046	.0011	0112	7.38	.685
+117	.96 (20.13)	01	10,65	2.5475	.3546	-,5589	0056	.0004	0101	7.18	.685
+117	.96 (20.13)	02	12.74	2.6830	.3926	498A	0054	.0006	0124	6.83	.681
.116	.96 (20.06)	02	14.76	2,7888	•4191	4170	-,0042	0009	0103	6.65	.684
+117	.97 (20.23)	02	16.70	2.8524	.4474	-,3250	0036	0005	0104	6.37	.684
•117	.96 (20.11)	01	18.81	2,9072	.4910	-,2457	0045	0009	0119	5.92	.686
•117	.96 (20.11)	01	20.69	2.8309	.5404	1407	0017	.0008	0195	5.24	.683
•117	.96 (20.13)	.01	55.69	2.7321	.6109	0477	0210	0141	0152	4.47	.683
	WRER 180	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	N.KPA (PSF)	RETA, DEG	ALPHA, DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
.166	1.93 (40.34)	.01	-3.77	.6655	.1757	-,5330	.0030	.0006	0098	3,79	.426
.165	1.92 (40.09)	.01	-1.65	1,2798	.1982	7690	.0009	.0022	0141	6.46	.470
.166	1.93 (40.33)	00	.45	1.6190	.2226	-,7960	.0014	.0026	0139	7.27	.517
.166	1.92 (40.14)	00	2.51	1.8284	.2473	-,7685	0019	.0024	0151	7.39	.564
.166	1.92 (40.20)	01	4.53	2.0301	.2718	-,7266	0022	.0029	0135	7.47	.610
.166	1.93 (40.29)	01	6.68	2.2278	.3009	6755	0046	.0022	0131	7.40	.659
.166	1.93 (40.31)	01	8,59	2.3828	.3273	6247	0064	.0002	0094	7.28	.688
.166	1.93 (40.30)	01	10.74	2.5570	.3571	-,5567	-,0069	.0003	0097	7,16	.684
.166	1.92 (40.18)	01	12.63	2.6950	.3896	5008	0094	0009	0080	6.92	.685
.166	1.92 (40.19)	01	14.68	2.8022	.4223	4257	0072	0020	0064	6.64	.684
.166	1.92 (40.17)	01	16.74	2.8999	.4529	3379	0048	0009	0073	6.40	.681
.166	1.93 (40.24)	01	18,78	2.9815	.4918	-,2474	0058	0012	0081	6.06	.686
.166	1.93 (40.23)	.00	20.80	2.8209	.5438	1615	0052	0003	0169	5.19	.685

L

MACH 0.4KPA (PSF) RFTA.DEG ALPHA.DEG CL CD CPH CRH CYH CSF L/D H/R 2204 2.89 (60.32) .01 -3.89 .7178 .1794 5913 .0049 .0021 0181 4.00 .422 2204 2.89 (60.32) .01 -1.66 1.3272 .2031 7863 .0027 .0014 6.53 .465 2204 2.89 (60.36) -00 2.53 1.8087 .2247 7751 .0005 .0028 0156 7.30 .557 2204 2.89 (60.30) -00 6.557 2.1973 .2765 7148 0024 .0162 7.36 .667 2204 2.89 (60.261) 00 8.57 2.3713 .3252 6143 0002 .0009 .0117 .0024 .0160 .666 2204 2.89 (60.261) .01 12.68 2.6724 .3886 4899 .0145 0079 .665 2204 2.89 (60.361) </th <th>PUN N</th> <th>WHER 181</th> <th>LONGII</th> <th>TUDINAL STAB</th> <th>ILITY-AXIS</th> <th>AND LAT</th> <th>ERAL BODY</th> <th>-AXIS DAT</th> <th>A</th> <th>TEST NUM</th> <th>BER 198</th> <th></th>	PUN N	WHER 181	LONGII	TUDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
.204 2.90 (60.56) .01 -3.89 .7178 .1794 5913 .0049 .0021 0181 4.00 .422 .204 2.89 (60.32) .01 -1.66 1.3272 .2031 7863 .0027 .0027 0148 6.53 .465 .204 2.89 (60.32) .01 -1.66 1.3272 .2031 7863 .0027 .0027 0148 6.53 .465 .204 2.89 (60.31) 01 4.55 .20179 .77628 0035 .0028 0162 7.36 .647 .204 2.89 (60.31) 00 6.55 2.1973 .2984 6700 0077 .0024 0162 7.36 .647 .204 2.89 (60.31) 00 8.57 2.3713 .3252 5143 0092 .0008 0130 7.29 .665 .204 2.89 (60.31) 00 1.4.67 .7706 .4880 3167 0145 0017 .0026 .0077 .0026 .575	MACH	0, KPA (PSF)	RFTA.DEG	ALPHA, DEG	CL	ĊD	CPM	CRM	CYM	CSF	L/D	H/8
204 2.89 (60.32) .01 -1.66 1.3272 2031 -7.7633 .0027 .014 7.21 550 204 2.89 (60.38) 00 .38 1.6033 .2224 .7951 .0006 .0032 0174 7.21 .557 204 2.89 (60.38) 01 4.55 2.0179 .2705 7148 0051 .0028 0156 7.30 .557 204 2.89 (60.30) 00 6.55 2.1973 .2984 .6010 0158 7.46 .6627 204 2.89 (60.31) 00 6.57 2.3713 .3252 6143 0002 0099 7.14 .663 204 2.89 (60.22) .01 12.68 2.6824 .3886 4899 0145 0017 0078 6.90 .668 204 2.89 (60.36) .02 14.67 2.7906 .4180 4146 0143 0070 6.68 .668 204 2.89 (60.36) .02 16.69 <td>.204</td> <td>2.90 (60.56)</td> <td>.01</td> <td>-3.89</td> <td>.7178</td> <td>.1794</td> <td>5913</td> <td>.0049</td> <td>.0021</td> <td>0181</td> <td>4.00</td> <td>.422</td>	.204	2.90 (60.56)	.01	-3.89	.7178	.1794	5913	.0049	.0021	0181	4.00	.422
2204 2.89 (60.27) .00 .38 1.6033 .2224 7951 .0006 .0032 0174 7.21 .557 2204 2.89 (60.31) 00 2.53 1.8087 .2479 7128 0035 .0028 0156 7.30 .557 2204 2.89 (60.31) 00 6.55 2.1973 .2984 6710 0077 .0024 0162 7.36 .647 2204 2.89 (60.26) 00 8.57 2.1973 .2984 57555 0104 0002 0008 .0130 7.29 .665 2204 2.89 (60.26) .01 12.68 2.682 .4899 0145 0017 0078 6.90 .668 2204 2.89 (60.22) .01 12.68 2.6824 .4886 4899 0145 0070 6.68 .686 .204 2.89 (60.32) .02 16.69 2.8831 .4480 3167 0145 0070 .0070 .0077 .0025 .0026	•504	2,89 (60,32)	.01	-1.66	1.3272	.2031	7863	.0027	.0027	0148	6.53	.465
204 2.89 (60.38) 00 2.53 1.8087 .2479 7628 0035 .0028 0156 T.30 .55 204 2.89 (60.31) 01 4.55 2.0179 .2704 .0051 .0028 0158 7.46 .602 204 2.89 (60.30) 00 6.55 2.1973 .2984 6170 0077 .0024 0162 7.36 .667 214 2.89 (60.31) 00 8.57 2.3713 .3252 6143 0092 .0008 0130 7.29 .668 2104 2.89 (60.31) 00 1.6.67 2.3546 555 0145 0017 0078 6.90 .668 2104 2.89 (60.32) .01 14.67 2.706 4.480 3167 0145 0017 0078 6.90 .668 2104 2.89 (60.32) .02 16.69 2.8831 .4480 3167 0145 .0035 0070 6.48 6686 2104 <	+204	2.89 (60.27)	.00	.38	1.6033	.2224	-,7951	.0006	.0032	0174	7.21	.509
-204 2.89 (60.31) 01 4.55 2.0179 .2705 7148 0051 .0028 0158 7.46 .602 .204 2.89 (60.30) 00 6.55 2.1973 .2984 6700 0077 .0024 0162 7.36 .647 .204 2.89 (60.26) 00 8.57 2.3713 .3252 6143 0002 0009 7.14 .663 .204 2.89 (60.26) .01 12.68 2.6724 .3866 4015 0017 0078 6.90 .686 .204 2.89 (60.26) .01 14.67 2.7906 .4180 4046 0145 0035 0070 6.688 .666 .204 2.89 (60.36) .06 18.49 2.8329 .4928 3018 0270 0082 .0226 5.75 .688 RUN NUMBER 182 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198 TEST NUMBER 198 .204 2.89 (60.30) .001 -3.80 .7833 .1650	•204	2,89 (60,38)	00	2.53	1.8087	.2479	7628	0035	.0028	0156	7.30	.557
.204 2.89 (60.30) 00 6.55 2.1973 .2984 6700 0077 .0024 0162 7.36 .647 .204 2.89 (60.31) 00 8.57 2.3713 .3252 .56143 0092 .0008 0130 7.29 .665 .204 2.88 (60.31) 00 10.61 2.5332 .3546 5555 .0104 0002 .0009 7.14 .665 .204 2.88 (60.32) .01 12.68 2.6824 .3886 4899 0145 0017 0070 6.68 .666 .204 2.89 (60.36) .00 18.49 2.8829 .4928 3018 0270 0082 .0226 5.75 .668 RUN NUMBER 182 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 H/A RUN NUMBER 182 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 .204 2.89 (60.30) .00 -1.64 1.3354 .1896 0270 0069 4.75 .423 .204<	•204	2.89 (60.31)	01	4.55	2.0179	.2705	7148	0051	.0028	0158	7.46	-602
.204 2.89 (60.26) 00 8.57 2.3713 .3252 6143 0092 .0008 0130 7.29 .685 .204 2.89 (60.31) 00 10.61 2.5332 .3546 5555 0104 0002 0099 7.14 .683 .204 2.89 (60.26) .01 12.68 2.6824 .3886 4899 .0145 0017 .0070 6.68 .668 .204 2.89 (60.32) .02 16.69 2.8831 .4480 0145 0035 0051 6.44 .689 .204 2.89 (60.36) .06 18.49 2.8329 .4928 3018 00270 0082 .0226 5.75 .668 RUN NUMBER 182 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPAA (PSF) BFTA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/A .204 2.89 (60.35) .01 -3.80 .7833 .1650 6196	.204	2.89 (60.30)	00	6.55	2.1973	.2984	6700	0077	+200	0162	7.36	-647
.204 2.89 (60.31) 00 10.61 2.5332 .3546 5555 0104 0002 0009 7.14 .683 .204 2.88 (60.22) .01 12.68 2.6824 .3886 4899 0145 0017 0078 6.90 .668 .204 2.89 (60.32) .01 14.67 2.7906 .4180 0143 0035 0051 6.44 .668 .204 2.89 (60.36) .02 16.69 2.8831 .4480 3167 0145 0035 0051 6.44 .668 .204 2.89 (60.36) .06 18.49 2.8329 .4928 3018 0270 0082 .0226 5.75 .668 RUN NUMBER 182 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.4KPA (PSF) RFTA.DEG ALPHA.DEG CL CD CPH CRH CYH CSF L/D H/R .204 2.89 (60.30) .00 -1.64 1.3354 .1896 7945 <td>.204</td> <td>2.89 (60.26)</td> <td>00</td> <td>8,57</td> <td>2.3713</td> <td>.3252</td> <td>- 6143</td> <td>0092</td> <td>.0008</td> <td>0130</td> <td>7.29</td> <td>-685</td>	.204	2.89 (60.26)	00	8,57	2.3713	.3252	- 6143	0092	.0008	0130	7.29	-685
.204 2.88 (60.22) .01 12.68 2.6824 .3886 4899 0145 0017 0078 6.00 .686 .204 2.89 (60.22) .01 14.67 2.7906 .4180 0143 0025 0070 6.68 .686 .204 2.89 (60.32) .02 16.69 2.8831 .44480 3167 0145 0070 6.68 .686 .204 2.89 (60.36) .06 18.49 2.8329 .4928 3018 0270 0082 .0226 5.75 .688 RUN NUMBER 182 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPAA (PSF) RFTA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/R .204 2.89 (60.30) .00 -1.64 1.3354 .1896 7945 .0025 .0029 0165 7.04 .466 .204 2.88 (60.451) 00 .42 1.6236 .2120 8080 .0018	•204	2.89 (60.31)	00	10.61	2.5332	.3546	- 5555	0104	0002	0099	7.14	.683
.204 2.49 (60.26) .01 14.67 2.7906 .4180 4046 0143 0025 0070 6.68 .686 .204 2.89 (60.32) .02 16.69 2.8831 .4480 3167 0145 0035 0051 6.44 .669 .204 2.89 (60.36) .06 18.49 2.8329 .4928 3018 0270 0082 .0226 5.75 .668 RUN NUMBER 182 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KKPA (PSF) RFTA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/A .204 2.89 (60.35) .01 -3.80 .7833 .1650 6196 .0090 .0007 0069 4.75 .423 .204 2.89 (60.30) .00 -1.64 1.3354 .1896 .77945 .0025 .0027 0165 7.04 .466 .204 2.88 (60.40) .00 .421 .6236 .2120	.204	2.88 (60.22)	.01	12.68	2.6824	.3886	- 4899	0145	0017	0078	6.90	-686
.204 2.89 (60.32) .02 16.69 2.8831 .4480 3167 0145 0051 6.44 .689 .204 2.89 (60.36) .06 18.49 2.8329 .4928 3018 0270 0082 .0226 5.75 .6688 RUN NUMBER 182 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) BFTA.DEG CL CD CPM CRM CYM CSF L/D H/R .204 2.89 (60.30) .00 -1.64 1.3354 .1896 7945 .0025 .0029 0165 7.04 .466 .204 2.89 (60.30) .00 -1.64 1.3354 .1896 7945 .0025 .0029 0165 7.04 .466 .204 2.89 (60.40) 00 .42 1.6236 .2120 .8080 .0015 .0038 0181 7.66 .5108 .204 2.88 (60.40) 00 4.51 2.0350 .2614 .7257 .0041 .	•204	2.89 (60.26)	.01	14.67	2.7906	.4180	4046	0143	0025	0070	6.68	.686
.204 2.89 (60.36) .06 18.49 2.8329 .4928 301A 0270 0082 .0226 5.75 .6688 RUN NUMBER 182 LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH 0.KPA (PSF) BFTA.DEG ALPHA.DEG CL CD CPM CRM CYM CSF L/D H/A .204 2.89 (60.35) .01 -3.80 .7833 .1650 6196 .0090 .0007 0069 4.75 .423 .204 2.89 (60.30) .00 -1.64 1.3354 .1896 7945 .0025 .0029 0165 7.04 .466 .204 2.89 (60.515) 00 .422 .2363 .7660 .0025 .0029 0165 7.04 .466 .204 2.88 (60.40) 00 .451 2.0350 .2614 7257 0041 .0036 0181 7.78 .661 .204 2.89 (60.40) 00 4.51 2.0350 .2614 7257 <	.204	2.89 (60.32)	.02	16.69	2.8831	.4480	3167	0145	0035	0051	6.44	.689
RUN NUMBER 18? LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUMBER 198 MACH Q+KPA (PSF) BFTA+DEG CL CD CPM CRM CYM CSF L/D H/R -204 2.89 (60-35) .01 -3.80 .7833 .1650 6196 .0090 .0007 0069 4.75 .423 .204 2.89 (60-30) .00 -1.64 1.3354 .1896 7945 .0025 .0029 0165 7.04 .466 .204 2.88 (60-10) 00 .42 1.6236 .2120 .8080 .0015 .0038 0181 7.66 .510 .204 2.88 (60-15) 00 2.61 .8492 .2363 7660 .0022 .0035 .0181 7.66 .510 .204 2.89 (60-54) 00 6.56 2.2317 .2918 .6781 0065 .0032 .0195 7.65 .647 .204 2.89	•204	2.89 (60.36)	.06	18.49	2.8329	4928	-,301A	0270	0082	.0226	5.75	.688
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		MAREA 182	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MACH	Q+KPA (PSF)	BFTA,DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.89 (60.35)	.01	-3.80	.7833	.1650	6196	.0090	.0007	0069	4.75	. 4 2 3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.204	2.89 (60.30)	.00	-1.64	1.3354	.1896	7945	.0025	.0029	0165	7.04	.466
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	+204	2.88 (60.10)	00	.42	1.6236	2120	8080	.0015	.0038	0181	7.66	.510
-204 2.89 (60.40) -00 4.51 2.0350 261472570041 00360181 7.78 0601 -204 2.89 (60.54) -00 6.56 2.2317 291867810065 00320195 7.65 0647 -204 2.89 (60.33) 00 8.58 2.4136 320862490085 00160169 7.55 0647 -204 2.89 (60.38) 00 10.61 2.5822 353756750091 00110162 7.30 065 -204 2.89 (60.30) 01 12.66 2.7285 38985027014700160087 7.00 663 -204 2.89 (60.39) 02 14.69 2.8331 41784107017300360047 6.78 683 -204 2.89 (60.26) .04 16.72 2.9189 44933161020700590001 6.50 685	.204	2.88 (60.15)	00	2.61	1.8492	.2363	7660	0022	.0035	0189	7.83	.558
•204 2.90 (60.54)00 6.56 2.2317 .291867810065 .00320195 7.65 .647 •204 2.89 (60.33) .00 8.58 2.4136 .320862490085 .00160169 7.52 .679 •204 2.89 (60.38) .00 10.61 2.5822 .353756750091 .00110162 7.30 .683 •204 2.88 (60.20) .01 12.66 2.7285 .38985027014700160087 7.00 .683 •204 2.89 (60.39) .02 14.69 2.8331 .41784107017300360047 6.78 .686 •204 2.89 (60.28) .04 16.72 2.9189 .44933161020700590001 6.50 .685 •204 2.89 (60.26) .05 18.71 2.9546 .4918240202330074 .0077 6.01 .685	.204	2.89 (60.40)	00	4.51	2.0350	.2614	7257	0041	.0036	0181	7.78	-601
*204 2.89 (60.33) .00 8.58 2.4136 .320862490085 .00160169 7.52 .679 *204 2.89 (60.38) .00 10.61 2.5822 .353756750091 .00110162 7.30 .665 *204 2.88 (60.20) .01 12.66 2.7285 .38985027014700160087 7.00 .663 *204 2.89 (60.39) .02 14.69 2.8331 .41784107017300360047 6.78 .686 *204 2.89 (60.26) .04 16.72 2.9189 .44933161020700590001 6.50 .685 *204 2.89 (60.26) .05 18.71 2.9546 .4918240202330074 .0077 6.01 .685	.204	2.90 (60.54)	00	6.56	2.2317	2918	6781	0065	.0032	0195	7.65	.647
.204 2.89 (60.38) .00 10.61 2.5822 .353756750091 .00110162 7.30 .685 .204 2.88 (60.20) .01 12.66 2.7285 .38985027014700160087 7.00 .683 .204 2.89 (60.39) .02 14.69 2.8331 .41784107017300360047 6.78 .686 .204 2.89 (60.28) .04 16.72 2.9189 .44933161020700590001 6.50 .685 .204 2.89 (60.26) .05 18.71 2.9546 .4918240202330074 .0077 6.01 .687	.204	2.89 (60.33)	.00	8.58	2.4136	.3208	- 6249	0085	-0016	0169	7.52	.679
.204 2.88 (60.20) .01 12.66 2.7285 .38985027014700160087 7.00 663 .204 2.89 (60.39) .02 14.69 2.8331 .41784107017300360047 6.78 .686 .204 2.89 (60.28) .04 16.72 2.9189 .44933161020700590001 6.50 .685 .204 2.89 (60.26) .05 18.71 2.9546 .4918240202330074 .0077 6.01 .685	+02.	2.89 (60.38)	.00	10.61	2.5822	.3537	5675	0091	.0011	0162	7.30	.685
.204 2.89 (60.39) .02 14.69 2.8331 .41784107017300360047 6.78 .686 .204 2.89 (60.28) .04 16.72 2.9189 .44933161020700590001 6.50 .685 .204 2.89 (60.26) .05 18.71 2.9546 .4918240202330074 .0077 6.01 .685	.204	2.88 (60.20)	.01	12.66	2.7285	3898	- 5027	0147	0016	0087	7.00	-683
•204 2.89 (60.28) •04 16.72 2.9189 •44933161020700590001 6.50 .685 •204 2.89 (60.26) •05 18.71 2.9546 .4918240202330074 .0077 6.01 .685	.204	2.89 (60.39)	.02	14.69	2.8331	.4178	4107	0173	0036	0047	6.78	.686
-204 2.89 (60-26) .05 18.71 2.9546 .4918240202330074 .0077 6.01 .687	•204	2.89 (60.28)	.04	16.72	2.9189	4493	- 3161	0207	0059	0001	6.50	.685
	+204	2.89 (60.26)	.05	18.71	2.9546	4918	2402	0233	0074	.0077	6.01	.687

RUN N	UMBER 183	LONGIT	UNINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BFTA,DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	н/в
.204	2.90 (60.47)	.01	-3.89	.2925	.2762	,5693	.0130	0001	0094	1.06	.417
•204	2.89 (60.46)	.00	-1.73	.9449	.2824	.3222	.0044	.0023	0132	3.35	.458
.204	2.89 (60.36)	.00	.31	1.2394	.2869	.2445	.0022	.0020	0124	4.32	.503
.205	2.90 (60.53)	00	2.40	1.4954	.2912	.2206	0022	.0026	0188	5.14	.549
-204	2.89 (60.35)	00	4.45	1.7076	.3035	.2063	0036	.0024	0147	5.63	.595
•504	2.89 (60.40)	.00	6,47	1.9171	.3174	.1976	0067	.0016	0157	6.04	.773
•204	2.90 (60.48)	.00	8,56	2.1351	.3290	.1843	0082	.0010	0140	6.49	.688
•204	2.89 (60.29)	.01	10.56	2.3212	.3442	.1312	0106	0003	0112	6.74	.683
•204	2.88 (60.25)	.02	12.63	2.4987	.3740	.1103	0143	0015	0081	6.68	687
•204	2.89 (60.45)	.03	14.66	2.6257	.4036	,1219	0165	0030	0067	6.51	.684
.204	2.89 (60.29)	.05	16.71	2.7306	.4364	.1242	0208	0044	0065	6.26	-685
.204	2.89 (60.35)	.08	18,70	2.7488	.4890	0263	0314	0075	.0153	5.62	.693
RUN N	UMBER 184	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	RFTA.DEG	ALPHA,DFG	CL	CD	СРМ	CRM	CYM	CSF	L/D	HZB
.204	2.89 (60.46)	.01	-3,97	.3318	.2328	.4084	.0108	.0006	0137	1.42	.418
•204	2.89 (60.32)	.00	-1.76	1.0058	.2392	.1294	.0038	.0024	0141	4.21	459
.205	2.90 (60.57)	00	• 34	1.3160	.2449	,0463	0000	.0028	0185	5.37	.505
.205	2.90 (60.54)	00	2.39	1.5660	.2483	-,0048	0004	.0061	0265	6.31	.550
.204	2.89 (60.36)	00	4.69	1.8372	.2683	0694	0034	.0036	0181	6.85	.602
+204	2.88 (60.14)	.00	6.51	2.0242	.2920	1033	0072	.0022	0187	6.93	.644
.204	2.88 (60.17)	.00	8.54	2.2393	.3167	1453	0090	.0009	0152	7.07	-690
•504	2.89 (60.31)	.01	10.65	2.4290	.3471	1849	0089	.0010	0135	7.00	.687
.204	2.89 (60.32)	.02	12.63	2.5914	.3810	1997	0140	0016	0075	6.80	685
• 204	2.89 (60.33)	.03	14.69	2.7219	.4114	1801	0166	0029	0068	6.62	.686
.204	2.89 (60.40)	.05	16.75	2.7812	.4489	1970	0239	0065	.0017	6.20	.688
•504	2.89 (60.26)	.09	18.67	2,7961	•5157	3291	0368	0075	.0240	5.42	.687

67

RUN N	NUMBER 185	LONGI	TUDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q, KPA (PSF)	BETA .DEG	ALPHA, DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.205	2.90 (60.53)	.01	-3.88	.4841	.1880	.1218	.0105	.0018	0174	2.58	.419
.204	2.89 (60.36)	.00	-1.56	1.1355	.2055	1655	.0049	.0030	0147	5.53	.465
.204	2.89 (60.27)	.00	.36	1.4076	.2223	-,2555	0012	.0031	0197	6.33	.507
.204	2.89 (60.35)	.00	2.44	1.6630	.2425	3119	0016	.0036	0191	6.86	,553
.204	2.90 (60.46)	.00	4.49	1.8824	.2679	3544	0037	.0030	0170	7.03	.577
.204	2.88 (60.25)	.00	6.64	2.1367	.2926	4002	0055	.0032	0182	7.30	.614
.204	2.89 (60.41)	.01	8.59	2.3229	.3205	4347	0078	.0014	0138	7.25	.647
.204	2.89 (60.45)	.02	10.68	2.5052	.3575	4668	0091	.0004	0099	7.01	.662
.204	2.89 (60.46)	.03	12.71	2.6728	.3931	4810	0137	0019	0048	6.80	.654
.204	2.89 (60.32)	.04	14.67	2.7860	.4234	4506	0168	0028	0051	6.58	.646
.204	2.89 (60.46)	.07	16.64	2.8545	4580	4279	0249	0064	0007	6.23	.675
•204	2.89 (60.28)	•11	18.85	2.8652	.5337	5463	0364	0083	.0234	5.37	.679
RUN N	IMBER 186	LONGIT	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.204	2.89 (60.37)	.01	-3.84	.5652	.1802	1860	.0136	.0011	0148	3.14	.421
.204	2.89 (60.37)	00	-1.66	1.2068	.2014	4671	0025	.0025	0174	5.99	.464
.204	2.89 (60.33)	.00	.40	1.5243	.2195	-,5672	0028	.0033	0226	6.95	.509
.204	2.89 (60.33)	.00	2.45	1.7690	.2424	6188	0046	.0029	0187	7.30	.554
.204	2.88 (60.18)	.00	4.68	2.0122	.2735	6661	0076	.0025	0192	7.36	.605
.204	2.89 (60.36)	.01	6.51	2.2129	.2990	7031	-,0095	.0019	0172	7.40	.626
.204	2.89 (60.29)	.02	8.91	2.4487	.3379	7497	0110	.0007	0136	7.25	.648
.205	2.90 (60.52)	.02	10.64	2.6064	.3674	7794	0131	.0005	0134	7.09	.658
.204	2.88 (60.25)	.03	12.78	2.7859	.4111	7997	0161	0017	0085	6.78	.652
.204	2.89 (60.41)	.04	14.80	2.9033	.4470	7664	0162	0024	0075	6.50	.669
.204	2.89 (60.31)	.06	16.70	2.9612	4805	7642	0215	0038	.0013	6.16	.675
.205	2.90 (60.61)	.11	18.78	2.9566	.5563	7995	0372	0093	.0264	5.31	.670

RUN N	UMPER 187	LONGI	TUDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	RER 198	
MACH	Q+KPA (PSF)	BETA,DEG	ALPHA, DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.205	2.90 (60.56)	.01	-3.81	.7097	.1803	4937	.0139	.0009	0113	3.94	.423
.204	2.89 (60.28)	.00	-1.67	1.3083	.2030	7468	.0003	.0030	0166	6.45	.465
.204	2.88 (60.24)	00	.47	1.6325	.2248	8514	0017	.0035	0215	7,26	.511
.204	2.89 (60.46)	.00	2,55	1.8734	.2512	9062	0034	.0027	0151	7.46	.557
.204	2.89 (60.38)	.00	4.50	2.0899	.2805	-,9508	0064	.0021	0156	7,45	.602
.205	2.90 (60.53)	.01	6.62	2.3233	.3147	9980	0089	.0020	0183	7.38	.650
.204	2.89 (60.44)	.01	8.66	2.5270	.3497	-1.0374	0086	.0010	0114	7.23	.685
.204	2.89 (60.35)	.02	10.73	2.7114	.3896	-1.0686	0108	.0009	0124	6.96	.685
.204	2.89 (60.30)	.03	12.69	2.8780	.4284	-1,0723	0143	0007	0099	6.72	.686
.204	2.89 (60.26)	.03	14.79	2.9891	.4679	-1.0146	0150	0027	•.0052	6.39	.685
.204	2.88 (60.16)	.07	16.77	3.0386	.5121	9538	0239	0067	0045	5.93	.685
.204	2.89 (60+45)	.10	18.79	3.0168	.5936	-1.0268	0343	0102	.0330	5.08	.685
	IMBER 188	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	O,KPA (PSF)	RETA.DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.204	2.89 (60.31)	.00	-3.78	.8130	.1848	7993	.0116	.0008	0099	4.40	.425
.204	2.89 (60.42)	00	-1.62	1.3996	.2129	-1.0583	0040	.0023	0168	6.57	.468
.204	2.89 (60.28)	00	.43	1.7099	.2379	-1.1621	0023	.0028	0183	7.19	.512
.204	2.89 (60.32)	.00	2.52	1.9646	.2662	-1.2231	0042	.0026	0148	7.38	.558
.205	2.90 (60.61)	.01	4.55	2.2014	.2983	-1.2680	0057	.0028	0182	7.38	.604
.204	2.89 (60.42)	.01	6.67	2.4277	.3361	-1.3053	0075	.0022	0141	7.22	.652
.204	2.89 (60.40)	.02	8.68	2.6158	.3731	-1.3316	0103	.0009	0138	7.01	.671
.204			10 70	2.7055	4138	-1.3522	0105	.0010	0117	6.76	.692
.204	2.89 (60.34)	.02	10.70	201733							
	2.89 (60.34) 2.88 (60.21)	.02	12.74	2.9583	.4583	-1.3470	0138	0017	0071	6.45	.690
•204	2.89 (60.34) 2.88 (60.21) 2.88 (60.15)	•04 •04	12.74	2.9583	.4583 .5019	-1.3470	0138	0017	0071	6.45	.690
.204 .204	2.89 (60.34) 2.88 (60.21) 2.88 (60.15) 2.88 (60.22)	.02 .04 .04	12.74 14.80 16.72	2.9583 3.0631 3.1030	.4583 .5019 .5424	-1.3470 -1.2784 -1.2115	0138 0119 0158	0017 0024 0055	0071 0056 .0082	6.45 6.10 5.72	.690 .699 .678

- - - -

PUN N	UMBER 189	LONGIT	UNTNAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	AXIS DAT	A	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	BETA+DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.204	2.89 (60.31)	.00	-3.78	.9296	.2005	-1,1326	.0101	0002	0083	4.64	.426
.204	2.88 (60.23)	00	-1.57	1.5468	•5565	-1.3959	0031	.0020	0146	6.75	.470
.204	2.89 (60.37)	.00	.49	1.8215	.2594	-1.4856	0038	.0024	0178	7,02	.515
.205	2.91 (60.85)	.00	2,56	2.0779	.2894	-1.5357	0047	.0021	0147	7.18	.560
+05.	2.89 (60.43)	.01	4.61	2.2935	.3276	-1.5656	0071	.0009	0124	7.00	.607
.205	2.90 (60.57)	.01	6.66	2.4979	.3705	-1.5657	0089	.0020	0159	6.74	.653
.204	2.89 (60.28)	.02	8.65	2.6697	.4118	-1.5459	0094	.0012	0120	6.48	.684
.204	2.88 (60.23)	.03	10.72	2.8302	.4591	-1-5292	0118	.0004	0107	6.16	.685
.204	2.89 (60.27)	.04	12.73	2.9836	.5013	-1.4966	0150	0022	0038	5,95	.684
.204	2.88 (60.22)	.04	14.82	3.0676	.5434	-1.3852	0144	0040	.0055	5.65	.683
.205	2.91 (60.68)	.09	16.71	3,0245	.5838	-1,3236	0313	0122	.0275	5,18	.685
	UMRER 190	LONGII	UDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA.DEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.204	2.89 (60.44)	-10.01	-3.82	.6961	.1534	-,3789	.0211	0311	.2397	4,54	.421
.204	2.89 (60.41)	-10.01	-1,69	1.1637	.1673	5461	.0346	0276	.2230	6.96	.466
.204	2.89 (60.26)	-10.02	.35	1.5130	.1901	6168	.0462	0252	.2128	7,96	.510
.204	2.89 (60.36)	-10.03	2.46	1.7576	.2127	-,6677	.0475	0239	.2087	8.26	.687
.204	2.88 (60.22)	-10.04	4.50	1.9779	.2414	-,7099	.0480	0231	.2047	8.19	.603
.204	2.90 (60.48)	-10.06	6.59	2.2056	.2724	-,7631	.0483	0234	.2072	8.10	.650
.204	2.89 (60.33)	-10.07	8.58	2.4093	.3058	-,7984	.0483	0236	.2073	7.88	.685
.205	2.90 (60.60)	-10.08	10.66	2.5937	.3426	-,8265	.0488	0235	.2074	7.57	.685
.204	2.89 (60.45)	-10.08	12.69	2.7471	.3843	8310	.0458	- 0255	.2109	7.15	.685
.205	2.90 (60.53)	-10.08	14.69	2.8091	.4316	8254	.0355	0322	.2229	6.51	.684
.204	2.89 (60.35)	-10.09	16.73	2.8798	.4718	8210	.0361	0361	.2331	6.10	.684

RUN NUMBER 191		LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA							TEST NUMBER 198		
MACH	Q, KPA (PSF)	RETA.DEG	ALPHA, DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H78
.205	2.90 (60.65)	.02	-3.88	.5232	.1806	1357	.0076	.0015	0069	2.90	.420
.204	2.90 (60.47)	.01	-1.68	1.2022	.2002	4487	.0016	.0030	0078	6.00	.464
•204	2.89 (60.43)	00	.41	1.5145	.2193	5465	0055	.0030	0096	6.91	.509
.204	2.89 (60.27)	00	2.43	1.7606	.2426	6014	0041	.0027	0100	7.26	,554
•504	2.88 (60.18)	01	4.53	1.9935	.2710	6485	0061	.0026	0108	7.36	.601
.204	5*88 (00*18)	01	6.55	2.2120	.2989	6935	0076	.0023	0092	7.40	.647
•204	2,88 (60.14)	00	8.65	2.4233	.3296	7459	0110	0002	0028	7.35	.684
.204	2.88 (60.20)	00	10.65	2.6011	.3650	7824	0116	0005	.0000	7.13	.684
+02+	2.89 (60.34)	•00	12.68	2.7527	.4053	8063	0150	0021	.0061	6.79	.685
.204	2.89 (60.41)	.01	14.71	2.8381	.4415	8129	0183	0047	.0144	6.43	.685
.205	2.91 (60.77)	•07	16.75	2.8121	.5045	8336	0287	0085	.0348	5.57	.685
.204	2.88 (60.25)	.06	18.68	2,9241	.5556	8205	0224	0030	.0286	5.26	.684
RUN NUMBER 192		LONGITUDINAL STABILITY-AXIS AND LATERAL BODY-AXIS DATA						TEST NUMBER 198			
MACH	Q,KPA (PSF)	BETA,DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
•204	Q+KPA (PSF) 2.89 (60.44)	BETA,DEG 5.03	ALPHA,DEG -3.90	CL •5362	CD .1716	СРМ -,1509	CRM .0094	CYM .0158	CSF 1184	L/D 3.13	H/B •419
.204	Q,KPA (PSF) 2.89 (60.44) 2.90 (60.50)	BETA,DEG 5.03 5.02	ALPHA,DEG -3.90 -1.69	CL •5362 1•2187	CD .1716 .1917	СРМ 1509 4782	CRM .0094 0214	CYM .0158 .0160	CSF 1184 1193	L/D 3.13 6.36	H/B •419 •464
.204 .204 .204	Q+KPA (PSF) 2.89 (60+44) 2.90 (60+50) 2.89 (60+34)	5.03 5.02 5.02 5.02	ALPHA,DEG -3.90 -1.69 .42	CL •5362 1•2187 1•5481	CD .1716 .1917 .2112	СРМ 1509 4782 5815	CRM .0094 0214 0272	CYM .0158 .0160 .0152	CSF 1184 1193 1137	L/D 3.13 6.36 7.33	H/B •419 •464 •510
.204 .204 .204 .204	Q,KPA (PSF) 2.89 (60.44) 2.90 (60.50) 2.89 (60.34) 2.89 (60.43)	BETA+DEG 5.03 5.02 5.02 5.03	ALPHA,DEG -3.90 -1.69 .42 2.42	CL •5362 1•2187 1•5481 1•7515	CD .1716 .1917 .2112 .2341	CPM 1509 4782 5815 6319	CRM .0094 0214 0272 0328	CYM .0158 .0160 .0152 .0145	CSF 1184 1193 1137 1121	L/D 3.13 6.36 7.33 7.48	H/B •419 •464 •510 •555
.204 .204 .204 .204 .204	Q+KPA (PSF) 2+89 (60+44) 2+90 (60+50) 2+89 (60+34) 2+89 (60+43) 2+90 (60+51)	BETA+DEG 5.03 5.02 5.02 5.03 5.03 5.03	ALPHA,DEG -3.90 -1.69 .42 2.42 4.50	CL •5362 1•2187 1•5481 1•7515 1•9743	CD .1716 .1917 .2112 .2341 .2589	СРМ 1509 4782 5815 6319 6771	CRM 0294 0214 0272 0328 0337	CYM .0158 .0160 .0152 .0145 .0143	CSF 1184 1193 1137 1121 1119	L/D 3.13 6.36 7.33 7.48 7.63	H/B •419 •464 •510 •555 •602
.204 .204 .204 .204 .205 .205	Q+KPA (PSF) 2.89 (60.44) 2.90 (60.50) 2.89 (60.34) 2.89 (60.43) 2.90 (60.51) 2.89 (60.32)	BETA,DEG 5.03 5.02 5.02 5.03 5.03 5.04	ALPHA,DEG -3.90 -1.69 .42 2.42 4.50 6.53	CL •5362 1•2187 1•5481 1•7515 1•9743 2•1950	CD •1716 •1917 •2112 •2341 •2589 •2884	CPM 1509 4782 5815 6319 6771 7226	CRM 0214 0214 0272 0328 0337 0391	CYM .0158 .0160 .0152 .0145 .0143 .0132	CSF 1184 1193 1137 1121 1119 1133	L/D 3.13 6.36 7.33 7.48 7.63 7.61	H/B •419 •464 •510 •555 •602 •648
.204 .204 .204 .204 .205 .204 .205	Q+KPA (PSF) 2.89 (60.44) 2.90 (60.50) 2.89 (60.34) 2.89 (60.51) 2.89 (60.51) 2.89 (60.52)	BETA+DEG 5.03 5.02 5.02 5.03 5.03 5.04 5.05	ALPHA,DEG -3.90 -1.69 .42 2.42 4.50 6.53 8.62	CL •5362 1•2187 1•5481 1•7515 1•9743 2•1950 2•4048	CD .1716 .1917 .2112 .2341 .2589 .2884 .3217	CPM 1509 4782 5815 6319 6771 7226 7671	CRM -0094 -0214 -0272 -0328 -0337 -0391 -0397	CYM .0158 .0160 .0152 .0145 .0143 .0132 .0137	CSF 1184 1193 1137 1121 1119 1133 1148	L/D 3.13 6.36 7.33 7.48 7.63 7.61 7.47	H/B •419 •464 •510 •555 •602 •648 •684
.204 .204 .204 .204 .205 .204 .205 .204	0.KPA (PSF) 2.89 (60.44) 2.90 (60.50) 2.89 (60.43) 2.89 (60.43) 2.90 (60.51) 2.90 (60.52) 2.90 (60.47)	BETA,DEG 5.03 5.02 5.02 5.03 5.03 5.04 5.05 5.06	ALPHA,DEG -3.90 -1.69 .42 2.42 4.50 6.53 8.62 10.64	CL •5362 1•2187 1•5481 1•7515 1•9743 2•1950 2•4048 2•5898	CD .1716 .1917 .2112 .2341 .2589 .2884 .3217 .3559	CPM 1509 4782 5815 6319 6771 7226 7671 7994	CRM -0094 -0214 -0272 -0328 -0337 -0391 -0397 -0395	CYM .0158 .0160 .0152 .0145 .0143 .0132 .0137 .0135	CSF 1184 1193 1137 1121 1119 1133 1148 1154	L/D 3.13 6.36 7.33 7.48 7.63 7.61 7.61 7.47 7.28	H/B •419 •464 •510 •555 •602 •648 •684 •685
.204 .204 .204 .204 .205 .204 .205 .204 .205	0.KPA (PSF) 2.89 (60.44) 2.89 (60.50) 2.89 (60.34) 2.89 (60.43) 2.90 (60.51) 2.90 (60.52) 2.90 (60.52) 2.90 (60.47) 2.88 (60.23)	BETA, DEG 5.03 5.02 5.02 5.03 5.03 5.04 5.05 5.06 5.08	ALPHA, DEG -3,90 -1.69 .42 2,42 4,50 6,53 8,62 10,64 12,71	CL .5362 1.2187 1.5481 1.7515 1.9743 2.1950 2.4048 2.5898 2.7181	CD .1716 .1917 .2112 .2341 .2589 .2884 .3217 .3559 .3974	CPM 1509 4782 5815 6319 6771 7226 7671 7994 8348	CRM 0214 0272 0328 0337 0391 0395 0441	CYM .0158 .0160 .0152 .0145 .0143 .0143 .0132 .0137 .0135 .0121	CSF 1184 1193 1137 1121 1119 1133 1148 1154 1066	L/D 3.13 6.36 7.33 7.48 7.63 7.61 7.47 7.28 6.84	H/B .419 .464 .510 .555 .602 .648 .684 .685 .684
.204 .204 .204 .204 .205 .204 .205 .204 .205 .204 .204 .204	0.KPA (PSF) 2.89 (60.44) 2.90 (60.50) 2.89 (60.43) 2.90 (60.51) 2.90 (60.52) 2.90 (60.52) 2.90 (60.47) 2.88 (60.423) 2.88 (60.15)	BETA,DEG 5.03 5.02 5.03 5.03 5.04 5.05 5.06 5.08 5.11	ALPHA, DEG -3.90 -1.69 .42 2.42 4.50 6.53 8.62 10.64 12.71 14.66	CL .5362 1.2187 1.5481 1.7515 1.9743 2.1950 2.4048 2.5898 2.7181 2.7697	CD .1716 .1917 .2112 .2341 .2589 .2884 .3217 .3559 .3974 .4379	CPM 1509 4782 5815 6319 6771 7226 7671 7994 8348 8275	CRM .0094 0214 0272 0328 0391 0397 0395 0441 0524	CYM .0158 .0160 .0152 .0145 .0143 .0132 .0137 .0135 .0121 .0091	CSF 1184 1193 1137 1121 1119 1133 1148 1154 1066 0970	L/D 3.13 6.36 7.48 7.63 7.61 7.47 7.28 6.84 6.33	H/B .419 .464 .510 .555 .602 .648 .684 .685 .684
.204 .204 .204 .204 .205 .204 .205 .204 .205 .204 .204 .204	0,KPA (PSF) 2,89 (60.44) 2,89 (60.34) 2,89 (60.34) 2,90 (60.51) 2,90 (60.51) 2,90 (60.52) 2,90 (60.47) 2,88 (60.23) 2,88 (60.15) 2,87 (60.01)	BETA, DEG 5.03 5.02 5.02 5.03 5.03 5.04 5.05 5.06 5.08 5.11 5.17	ALPHA, DEG -3.90 -1.69 .42 2.42 4.50 6.53 8.62 10.64 12.71 14.66 16.72	CL .5362 1.2187 1.5481 1.7515 1.9743 2.1950 2.4048 2.5898 2.7181 2.7697 2.8120	CD 1716 1917 2112 2341 2884 3217 3559 3974 4379 4974	CPM 1509 4782 5815 6319 6771 7226 7671 7994 8348 8275 8348	CRM .0094 0214 0272 0328 0337 0391 0397 0395 0441 0524 0600	CYM .0158 .0160 .0152 .0145 .0143 .0132 .0137 .0135 .0121 .0091 .0081	CSF 1184 1193 1137 1121 1119 1133 1148 1154 1066 0970 0903	L/D 3.13 6.36 7.33 7.48 7.63 7.61 7.47 7.28 6.84 6.33 5.65	H/B .419 .464 .510 .555 .602 .648 .684 .685 .684 .685

- · · _ _ _
| PUN N | UMBER 193 | LONGI | UDINAL STAB | ILITY-AXIS | S AND LAT | ERAL BODY | -AXIS DATA | | TEST NUM | BER 198 | |
|-------|--------------|----------|-------------|------------|-----------|-----------|------------|-------|----------|---------|------|
| масн | O, KPA (PSF) | BFTA,DEG | ALPHA,DEG | CL | ср | CPM | CRM | CYM | CSF | L/D | H/8 |
| .205 | 2.90 (60.60) | 01 | -3.60 | 1.5111 | ,1854 | 9055 | .0017 | .0013 | 0095 | 8.15 | .416 |
| .204 | 2.89 (61.42) | 01 | -1.53 | 1.6917 | .2077 | 9729 | .0007 | .0012 | 0097 | 8.15 | .462 |
| .204 | 2.89 (60.37) | .00 | .49 | 1,8628 | .2299 | 8319 | 0010 | .0013 | 0118 | 8.10 | .507 |
| .204 | 2.89 (60.33) | .01 | 2.53 | 2.0521 | .2559 | 7960 | 0005 | .0014 | 0108 | 8.02 | .553 |
| .204 | 2.89 (60.36) | .01 | 4.59 | 2.2410 | .2860 | 7545 | .0002 | .0019 | 0126 | 7.83 | .599 |
| .204 | 2.88 (60.24) | 03 | 6.61 | 2.3248 | .3397 | 6263 | .0296 | .0114 | 0045 | 6.84 | .646 |
| .204 | 2.88 (60.14) | .01 | 8,54 | 2.1503 | .4295 | 3918 | 0020 | .0013 | 0082 | 5.01 | .685 |
| RUN N | UMBER 194 | LONGIT | UDINAL STAR | ILITY-AXIS | AND LAT | ERAL BODY | -AXIS DATA | | TEST NUM | NER 198 | |
| масн | 0.KPA (PSF) | RETADEG | AL PHA, DEG | CL | CD | СРМ | CRM | CYM | CSF | L/D | H/B |
| .204 | 2.90 (61.50) | 00 | -3.71 | 1.1609 | .1638 | ~.6658 | 0007 | .0026 | 0142 | 7.09 | .419 |
| .204 | 2.89 (60.35) | 00 | -1,63 | 1.3505 | .1777 | 6306 | 0032 | .0020 | 0149 | 7.60 | .465 |
| .204 | 2.90 (60.53) | 00 | .38 | 1.5379 | .1943 | 5977 | 0044 | .0018 | 0167 | 7.92 | .509 |
| .204 | 2.90 (60.51) | .00 | 2.46 | 1.7444 | .2133 | 5604 | 0040 | .0022 | 0196 | 8,18 | .555 |
| .204 | 2.90 (60.50) | .01 | 4.49 | 1.9325 | .2373 | 5231 | 0044 | .0021 | 0187 | 8.14 | .601 |
| .204 | 2.89 (60.40) | .01 | 6,54 | 2.1291 | .2644 | 4791 | 0037 | .0017 | 0162 | 8.05 | .647 |
| .205 | 2.91 (60.76) | .02 | 8.49 | 2.0363 | .3534 | 2789 | 0021 | .0026 | 0167 | 5.76 | .685 |

RUN N	UMBER 195	LONGI	TUDINAL STAR	ILITY-AXIS	S AND LAT	ERAL BODY	-AXIS DAT	A	TEST NU	BER 198	
MACH	Q+KPA (PSF)	BETA.DEG	ALPHA, DFG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/8
.204	2.90 (60.51)	00	-3.88	.5441	.0761	4357	.0000	.0010	+.0120	7.15	.424
.204	2.89 (60.35)	00	-1.79	.7787	.0824	4127	.0028	.0012	0113	9.45	.470
.204	2.89 (60.36)	.00	.27	1.0000	.0932	3904	.0017	.0009	0123	10.73	.516
.203	2.87 (60.03)	.00	2.32	1.2120	.1082	3651	.0001	.0005	0090	11.20	.562
.204	2.88 (60.25)	.00	4.40	1.4334	.1258	3358	.0009	.0010	0110	11.39	.608
.204	2.88 (60.22)	.01	6.41	1.6443	.1458	3014	0002	.0009	0131	11.28	.653
.204	2.88 (60.09)	.01	8.44	1.8354	.1710	2689	0003	.0005	0112	10.73	.685
.203	2.87 (60.04)	. 02	10.41	1.7607	.2621	1003	0021	.0014	0143	6.72	.685
.204	2.88 (60.22)	.01	12.42	1.7797	.3236	0168	.0040	.0025	0125	5.50	.685
.204	2.90 (60.54)	.01	14.47	1.8152	.3770	.0549	.0064	.0026	0110	4.81	.685
PUN N	MARER 196	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	RETADEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/B
.205	2.91 (60.86)	00	-3.78	.8044	.0798	6042	.0051	.0016	0097	10.08	.424
.204	2.88 (60.22)	00	-1,73	1.0239	.0916	-,5836	.0042	.0018	0118	11.17	.469
.204	2.90 (60.49)	.00	• 35	1.2417	.1066	5601	.0043	.0017	0124	11.64	.515
.204	2.89 (60.41)	.00	2,39	1.4545	.1258	5347	.0036	.0017	0125	11,56	.560
.204	2.89 (60.33)	.00	4.44	1.6755	.1466	5074	.0040	.0022	0116	11.43	.605
.204	2.88 (60.13)	.00	6.49	1.8864	.1721	4778	.0037	.0025	0141	10.96	.651
.204	2.89 (60.26)	01	8,50	1.9807	.2276	3664	.0211	.0103	0167	8.70	.698
.204	2.89 (60.33)	.02	10,48	1.8869	.3097	2003	0037	.0002	0122	6.09	.684
.204	2.90 (60.63)	.01	13.79	1,8965	.4013	0484	.0088	.0031	0120	4.73	.692
.204	2.89 (60.45)	.02	14.39	1.8435	.4378	0758	.0037	0009	.0023	4.21	.684

i

PUN N	IMAFR 198	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	RETAODEG	ALPHA.DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/8
•117	.97 (20.21)	01	-3.96	.1387	.1378	-,2764	.0015	.0017	0117	1.01	.428
.117	.97 (20.25)	01	-1.89	.4347	.1203	-,3311	.0029	.0010	0067	3.61	.475
.117	.97 (20.18)	00	.22	.8708	.1162	4711	0001	0001	0069	7.49	.523
.117	.97 (20.18)	.01	2.31	1.1729	.1286	-,4830	.0016	.0008	0080	9.12	.571
.116	.97 (20.16)	•02	4.35	1.3902	.1481	4602	0015	→.0005	0028	9.39	.619
•116	.96 (20.10)	.02	6.39	1.6122	.1707	4377	.0019	.0007	0046	9.44	.667
.116	.97 (20.16)	.03	8,45	1.8090	.1966	-,3958	0022	0010	0045	9.20	.685
.116	.96 (20.13)	.04	10.49	1.9876	,2248	3557	0036	0015	0043	8.84	.685
.116	.96 (20.09)	.06	12,55	2.1722	.2571	-,3010	0081	0030	0047	8.45	.685
.116	.96 (20.10)	.07	14.56	2.2868	.2961	-,2470	0129	0053	.0008	7.72	.685
.116	.96 (20.03)	.09	16.56	2.3550	.3330	1818	0242	0116	.0098	7.07	.685
.116	.96 (20.04)	.12	18.63	2.3475	.3952	-,1520	0388	0157	.0200	5.94	.684
.116	.96 (20.06)	.14	20.58	2.3320	4557	1273	0409	0193	.0192	5,12	.684
.116	.95 (19.90)	.15	22.58	2.3507	.5317	1000	0392	0210	.0016	4.42	.685
	U48ER 199	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q.KPA (PSF)	BETA,DEG	ALPHA+DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	HZB
.166	1.93 (40.38)	01	-3.93	.1615	.1365	2931	.0021	.0004	004A	1.18	.429
.166	1.93 (40.36)	00	-1.84	.4861	.1196	-,3701	.0065	0009	0009	4.06	.475
.166	1.93 (40.36)	.00	.26	.9050	.1175	-,4801	.0002	0003	0059	7.70	.522
.165	1.92 (40.20)	.01	2.31	1.1618	.1315	-,4852	0000	0002	0025	8.83	.568
.165	1.92 (40.14)	.01	4.39	1.4027	.1491	4629	0017	0004	0040	9.41	.615
.165	1.92 (40.13)	.02	6.40	1.6064	.1729	4346	0034	0010	0036	9.29	.661
.165	1.92 (40.00)	.04	8.48	1.7991	.1998	-,3980	0067	0025	0046	9.00	.683
.165	1.91 (39.95)	.05	10.58	1.9774	.2301	-,3578	0099	0041	.0015	8.59	.684
.165	1.92 (40.07)	.07	12.56	2.1271	.2632	3100	0170	0070	.0046	8.08	.686
.165	1.92 (40.16)	.10	14.61	2.2218	.304B	-,2694	0293	0130	.0188	7.29	.684
.165	1.92 (40.04)	.13	16.60	2.2757	.3541	-,2273	0410	0182	.0264	6.43	.685
165	1.93 (40.27)	.16	18,63	2.3241	.4059	1640	04.46	0201	+0294	5.73	.684
.165	1.93 (40.26)	.18	20.55	2.3064	.4651	1428	0445	0212	.0174	4.96	.686

RUN N	UMBER 200	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	HETA,DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	H/R
.204	2.89 (60.38)	01	-3.95	+1641	.1387	3122	.0039	0000	0029	1.18	.429
.203	2.89 (60.35)	00	-1.79	.5867	.1171	-,4371	.0013	.0004	0062	5.01	.475
.204	2.89 (60.37)	.00	.27	.9208	.1191	4906	.0014	.0001	0046	7.73	.519
.203	2.89 (60.30)	.01	2.29	1.1738	.1305	4886	.0006	.0001	0044	8.99	•564
.203	2.89 (60.29)	.01	4.38	1.3994	.1505	4680	0021	0003	0025	9.30	.610
.203	2.89 (60.28)	.02	6.40	1.5936	.1742	4397	0055	0012	0045	9,15	.655
.204	2.89 (60.44)	.03	8.47	1.8024	.1976	4005	0069	0017	0031	9.12	.693
.203	2.89 (60.31)	.05	10.51	1.9806	.2251	3537	0115	0033	0009	8.80	.685
.203	2.88 (60.24)	.06	12.55	2.1486	.2570	3165	0131	0044	.0034	8,36	.685
.203	2.89 (60.36)	.12	14.51	2.1418	.3108	3252	0328	0139	.0293	6.89	.684
.203	2.89 (60.32)	.14	16.55	2.2385	.3526	2785	0354	0136	.0319	6.35	.684
•503	2.88 (60.22)	.20	18,55	2.2554	.4029	1867	0471	0196	.0299	5,60	.685
RUN N	UMBER 201	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q+KPA (PSF)	BETA,DEG	ALPHA,DEG	CL	CD	СРМ	CRM	CYM	CSF	L/D	H/B
.203	2.88 (60.24)	01	-4.00	.1243	.1212	3013	.0059	.0003	0024	1.03	.428
.203	2.89 (60.29)	01	-1.88	•5574	.0991	4340	.0031	.0013	0086	5.62	.473
.203	2.88 (60.25)	00	•53	.9463	.0991	4970	.0042	.0010	0062	9.55	.518
.203	2.88 (60.21)	.01	2.32	1.1963	1134	-,5014	.0010	.0010	0064	10,55	.564
.203	2.88 (60.21)	.01	4.37	1.4322	.1330	4788	.0007	.0009	0055	10.77	.608
.203	2.88 (60.19)	.02	6.45	1.6645	.1559	4440	.0010	.0016	0082	10.68	.655
.203	2.88 (60.17)	.03	8,51	1.8688	.1849	4138	0022	.0004	0076	10.11	.685
.203	2.88 (60.14)	.04	10.49	2.0428	.2159	-,3737	0064	0022	0009	9.46	.684
.203	2.88 (60.24)	.06	12.55	2.1957	.2519	3333	0107	0043	.0048	8,72	.685
.204	2.90 (60.48)	.11	14.58	2.2023	.3064	3387	0296	0122	.0256	7.19	.685
.204	2.90 (60.48)	.13	16.59	2.3004	.3480	2890	0321	0122	.0283	6.61	.685
.203	2.89 (60.33)	.15	18.56	2.3663	.3904	2400	0296	0101	.0271	6.06	.688

_____ ·

•204 •204 •203

_

___.

71

RUN N	IMBER 202	LONGI	TUDINAL STAB	ILITY-AXI	S AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	RER 198	
масн	Q, KPA (PSF)	BETA, DEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
.204	2.89 (60.45)	01	-4.06	1954	.2318	.7678	.0053	.0010	0092	84	.421
.204	2.90 (60.47)	00	-1.99	.1748	,1949	.6247	.0094	.0010	0056	.90	.465
.203	2.89 (60.39)	00	.13	.5898	,1733	.4926	.0045	.0009	0064	3.40	.510
.203	2.88 (60.23)	.01	2.22	.8626	,1685	.4455	.0020	.0009	0076	5.12	.556
.203	2.89 (60.37)	.01	4.29	1.1134	.1711	.4061	.0028	.0014	0054	6.51	.603
.203	2.89 (60.32)	.02	6.35	1.3571	,1779	.3674	.0010	.0009	0070	7.63	+649
.203	5.83 (60.29)	.03	8.47	1.6016	,1924	.2802	.0002	.0003	0052	8.33	.685
.203	2.88 (60.11)	•04	10.41	1.8070	,2166	.2236	0023	0007	0042	8.34	.684
.203	2.68 (60.10)	.05	12.49	2.0176	.2456	.1829	~.0045	0021	0018	8.21	-685
.203	2.88 (60.06)	.08	14.47	2.1401	,2861	.1048	0124	0061	.0096	7.48	-686
.203	2.87 (60.04)	.12	16.56	2.1962	.3365	0215	0223	0087	.0236	6.53	-685
.203	2.87 (59.84)	•12	18,58	2.2792	.3810	0599	0187	0053	.0204	5.98	.685
	IMBER 203	LONGIT	NUDINAL STAR	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	A	TEST NUM	BER 198	
MACH	Q, KPA (PSF)	RETAODEG	ALPHA,DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
.203	2.88 (60.25)	01	-4.03	1412	.1834	.6009	.0052	0002	0049	~.77	.422
.204	2.90 (60.47)	00	-1.89	.2767	.1418	.4174	.0042	.0005	0079	1.95	.468
.204	2.89 (60.42)	00	.16	.6482	,1270	.2585	.0038	.0003	0072	5.11	.513
•203	2.89 (60.37)	.01	2.24	.9537	.1319	.1666	.0009	0000	0053	7.23	.558
.203	2.89 (60.39)	.01	4.31	1.2093	.1469	.0978	.0016	.0009	0065	8.23	-605
.203	2.88 (60.16)	.02	6.40	1.4614	.1675	.0377	0008	.0002	0075	8.73	.652
.203	2.88 (60.16)	.03	8.41	1.6894	,1918	0248	0019	0002	0065	8.81	.684
.203	2.89 (60.35)	• 04	10.51	1.8972	.2218	0819	~.0047	0016	0039	8.55	.684
.203	2.89 (60.27)	.05	12.54	2.0941	,2545	1146	0079	0031	0013	8.23	.684
.203	2.88 (60.09)	.08	14.53	2.2263	.2941	1308	0166	0073	.0050	7.57	.684
.203	2.89 (60.31)	•12	16.60	2.2558	.3478	2639	~.0263	0099	.0225	6.49	.684
.203	5.88 (00.51)	•12	18.54	2.3314	,3932	3012	·•0555	0071	.0205	5.93	.685

MACH Q+KPA (PSF) RETA,DEG ALPHA,DEG CL CD CPM CRM CYM CSF L/D	H/8
.203 2.89 (60.31)00 -1.81 .4072 .1224 .1165 .0066 .00130063 3.33	.472
•203 2.89 (60.35)00 -1.89 .3802 .1224 .1272 .0051 .00040043 3.11	.469
•203 2.88 (60+17)00 •19 •7559 •11910155 •0024 •00060074 6.34	.515
•203 2.88 (60·13) •00 2.29 1.0597 •12701095 •0021 •0006 +.0054 8.34	.561
-203 2.88 (60-22) .01 4.37 1.3208 .14401774 .0026 .00130065 9.17	.607
•203 2.89 (60·35) •01 6.37 1.5524 . 16732291 •0012 •00140097 9.28	.652
+203 2.88 (60.25) .02 8.48 1.7887 .195628650012 .00050078 9.14	.684
.203 2.88 (60.13) .04 10.55 1.9849 .22893271005800200028 8.67	.685
•203 2.89 (60·29) •05 12.54 2.1680 •2645 •.3587 •.008600290007 8.20	.684
·203 2.88 (60.16) .07 14.57 2.3204 .3033367201450060 .0069 7.65	.685
•203 2.89 (60.27) •11 16.57 2.3308 .3578488202710102 .0241 6.51	.685
.203 2.88 (60.07) ,12 18.56 2.3926 .4117536802240069 .020B 5.81	.685
RUN NUMBER 205 LONGITUDINAL STABILITY-AXIS AND LATERAL RODY-AXIS DATA TEST NUMBER 198	
MACH Q+KPA (PSF) RETA+DEG ALPHA+DEG CL CD CPM CRM CYM CSF L/D	H/8
.203 2.89 (60.30)00 -4.00 .0726 .1428 .0692 .0056 .00030057 .16	.425
•203 2.88 (60.24)00 -1.87 .4682 .11941393 .0035 .00120090 3.92	.471
•203 2.89 (60·27)00 •20 •8400 •11822791 •0030 •00040063 7.11	.516
•203 2•88 (60•19) •00 2•31 1•1487 •1287 ••3678 •0023 •0008 ••0074 8•92	.563
•203 2.88 (60.12) •01 4.35 1.3892 •14924293 •0016 •00120062 9.31	.608
•203 2•89 (60•35) •02 6•42 1•6370 •1739 ••4847 ••0014 •0007 ••0094 9•42	.654
•203 2.88 (60·18) •02 8.52 1.8734 •203754060029 •00010066 9.19	.685
·203 2.88 (60·17) .03 10.54 2.0692 .23755866005600110043 8.71	.685
·203 2.88 (60·18) .04 12.55 2.2576 .27536076007900210023 8.20	.684
.203 2.89 (60.37) .07 14.61 2.3976 .31736106 ~.01500053 .0048 7.56	.685
•203 2•89 (60•26) •11 16•57 2•3881 •3776 ••7034 ••0293 ••0117 •0237 6•32	.685
•204 2.89 (60.45) •12 18.61 2.4534 •4371 •.751002590101 .0226 5.61	.684

MACH 0.KPA (PSF) RETA.DEG ALPHA.DEG CL CD CPH CRM CYM CSF .203 2.89 (60.34)00 -3.96 .1510 .13812598 .0064 .00070083 .203 2.89 (60.31)00 -1.85 .5832 .12034657 .0024 .00140102 .203 2.88 (60.99)00 .24 .9583 .12226043 .0038 .00050067	L/D H/ 1.09 .4 4.85 .4 7.84 .5 9.08 .5 9.27 .6 8.78 .6 8.27 .6
-203 2.89 (60.34)00 -3.96 .1510 .13812598 .0064 .00070083 .203 2.89 (60.31)00 -1.85 .5832 .12034657 .0024 .00140102 .203 2.88 (60.99)00 .24 .9583 .12226043 .0038 .00050067	1.09 4 4.85 4 7.84 5 9.08 5 9.27 6 9.21 6 8.78 6 8.27 6
•203 2.89 (60.31)00 -1.85 .5832 .12034657 .0024 .00140102 •203 2.88 (60.99)00 .24 .9583 .12226043 .0038 .00050067	4.85 .4 7.84 .5 9.08 .5 9.27 .6 9.21 .6 8.78 .6 8.27 .6
+203 2,88 (60+09)00 .24 .9583 .12226043 .0038 .00050067	7.84 .5 9.08 .5 9.27 .6 9.21 .6 8.78 .6 8.27 .6
	9.08 .5 9.27 .6 9.21 .6 8.78 .6 8.27 .6
•203 2.89 (60.48) •00 2.30 1.2424 •13686943 •0004 •00090079	9.27 .6 9.21 .6 8.78 .6 8.27 .6
•203 2.88 (60·12) •01 4.35 1.4902 •160875740012 •00080076	9.21 .6 8.78 .6 8.27 .6
•203 2.88 (60·l3) •02 6.46 1.7429 •189281360031 •00040084	8.78 .6 8.27 .6
•203 2.88 (60·22) .03 8.48 1.9575 .22308555008000160055	8.27 .6
•203 2.89 (60·35) .04 10.58 2.1556 .26068910009600150064	
·203 2.88 (60·11) .05 12.65 2.3485 .30259036013000340024	7.76 .6
•203 2.88 (60.22) .08 14.63 2.4813 .3463887502110067 .0025	7.16 .6
·203 2.89 (60.26) .13 16.60 2.4734 .4115970103650159 .0278	6.01 .6
.204 2.90 (60.63) .15 18.60 2.5173 .4733 -1.012003520167 .0282	5.32 .6
RUN NUMBER 207 LONGITUDINAL STARILITY-AXIS AND LATERAL BODY-AXIS DATA TEST NUM	BER 198
MACH Q+KPA (PSF) RETA+DEG ALPHA+DEG CL CD CPM CRM CYM CSF	L/D H/
.203 2.89 (60.36)01 -3.95 .2433 .14485684 .0055 .00050060	1.68 .4
·204 2.90 (60·54)00 -1.86 .6809 .12887731 .0033 .00130088	5.29 .4
•203 2.89 (60.36) .00 .28 1.0633 .13389208 .0015 .00050070	7.94 .5
•203 2.88 (60·19) .00 2.39 1.3603 .1530 -1.01630008 .00040039	8.89 .5
.203 2.88 (60.22) .01 4.45 1.6020 .1805 -1.06940042 .00030074	8.88 .6
-203 2.89 (60-27) .02 6.44 1.8204 .2104 -1.1064007200050081	8.65 .6
·203 2.89 (60.29) .03 8.51 2.0440 .2436 -1.1299009600080087	8.39 .6
·203 2.88 (60·16) .05 10.60 2.2371 .2832 -1.1490012300230065	7.90 .6
-203 2.89 (60.36) .06 12.62 2.4146 .3298 -1.1587015900490009	7.32
-203 2.88 (60-11) .09 14.61 2.5387 .3779 -1.134602490103 .0072	6.72 .6
.203 2.89 (60.34) .15 16.62 2.5165 .4491 -1.174704220199 .0315	5.60
·204 2.89 (60.45) .20 18.68 2.5322 .5216 -1.202504220191 .0258	4.85 .6

RUN NUMBER 208		LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	AXIS DAT	4	TEST NUM	BER 198	
масн	Q.KPA (PSF)	RETAIDEG	ALPHA.DEG	CL	CD	Срм	CRM	CYM	CSF	L/D	H/B
.204	2.90 (60.47)	01	-3.87	.3670	.1546	8A33	.0073	.0006	0065	2.37	.432
•503	2.89 (60.40)	01	-1.81	.8073	.1415	-1.0875	•0029	.0010	0079	5,71	.476
.203	2.88 (60.21)	.00	• 35	1.1716	.1527	-1.2257	0001	.0007	0098	7.68	,523
•503	2.88 (60.10)	.01	2.43	1.4552	.1763	-1.3135	0025	0009	0064	8.26	.570
.203	2.89 (60.35)	.02	4.43	1.6868	.2066	-1,3455	0025	0021	0020	8.16	.614
.203	2.88 (60.24)	.03	6.47	1.9067	.2411	-1.3443	0081	0055	.0020	7.91	.659
.203	2.89 (60.26)	•04	8,58	2.0931	.2890	-1.3348	0116	0040	0007	7.24	.685
.203	2.88 (60.18)	.06	10.60	2.2650	,3265	-1.3421	0153	0037	0018	6.94	.685
.203	2.88 (60.16)	.08	12.64	2.4223	.3718	-1.3081	0224	0072	.0049	6.52	.685
•503	2.88 (60.13)	•12	14.68	2.5209	+4253	-1,2479	0335	0134	.0153	5,93	.685
.203	2.88 (60.16)	.18	16.62	2.4984	.5040	-1,3221	0491	0217	.0358	4.96	.684
•204	2,90 (60,49)	•25	18.60	2,5173	•5758	-1.3382	0531	0238	.0330	4.37	.685
	UMBER 209	LONGIT	UDINAL STAB	ILITY-AXIS	AND LAT	ERAL BODY	-AXIS DAT	•	TEST NUM	BER 198	
масн	Q.KPA (PSF)	RFTA,DEG	ALPHA.DEG	CL	CD	CPM	CRM	CYM	CSF	L/D	н/в
.205	2.90 (60.52)	-4.98	-3.79	.5941	.1724	2448	.0133	0171	.1373	3.45	.423
.204	2.89 (60.31)	-4,99	-1.70	1.2210	.1926	4741	.0212	0115	.1098	6.34	.464
.204	2.89 (60.34)	-5.00	.41	1.5363	.2127	5659	.0223	0111	.1071	7.22	.510
•20 4	2.88 (60.18)	-5.01	2.43	1.7497	.2322	6187	.0203	0108	.1049	7.54	.686
.204	2.88 (60.20)	-5.02	4.51	1.9743	.2590	6673	.0206	0106	.1017	7.62	.602
.204	2.89 (60.34)	-5.04	6.57	2.2075	.2887	7148	.0200	0101	.0994	7.65	.648
.204	2.89 (60.33)	-5.04	8.69	2.4167	.3256	7536	.0177	0117	.1000	7.42	.817
.204	2.89 (60.44)	-5.05	10.61	2.5993	.3600	7792	.0172	0134	.1037	7.22	.685
.204	2.88 (60.20)	-5.06	12.71	2.7560	.4000	7908	.0155	0150	.1071	6.89	.684
•204	2.88 (60.22)	-5.04	14.71	2.8130	.4345	8189	.0038	0199	.1189	6.47	.684
.205	2.90 (60.54)	-5.02	16.72	2.8526	.4810	7881	0018	0267	.1268	5.93	.685

LONGITUDINAL TRIM PERFORMANCE DATA

The longitudinal trim performance data, presented graphically in figures 12 to 18, are presented in tabular form in this appendix.

TRIM PERFORMANCE DATA FOR CRUISE WING CONFIGURATION

ALPHA,DEG	ISUBT,DEG	CL	CD	L/D	CHCL
-1.789	350	.0337	.0287	1.176	2435
-1.681	-•400	•0448	.0287	1.562	-,2430
-1.464	500	•0669	.0286	2,338	2418
-1.249	600	•0890	•0586	3.115	2407
-1.034	700	.1113	.0286	3.889	2396
820	800	•1336	.0287	4.658	2384
606	900	1560	.0288	5.420	2372
394	-1.000	. 1785	.0289	6.170	-,2359
182	$-1 \cdot 100$.2011	.0291	6.909	2346
•029	-1.200	•2238	.0293	7.634	2332
•239	-1.300	.2467	.0296	8.342	2320
• 4 4 B	$-1 \cdot 400$	•2696	•0299	9.032	2308
•657	-1.500	•2926	.0302	9.700	2297
•866	-1+600	.3158	.0305	10,349	2287
1.075	-1.700	.3390	.0309	10.974	2277
1.286	-1.800	.3623	.0313	11.571	2268
1.498	-1.900	•3857	.0318	12.140	2258
1.711	-2.000	•4092	.0323	12.676	2249
1.928	-2.100	•4328	.0328	13.183	2239
2.148	-2.200	•4565	.0334	13,652	2228
2.372	-2.300	•4804	.0341	14.085	2211
2.601	-2.400	•5046	.0349	14.479	2189
2.836	-2.500	•5291	.0357	14.838	2161
3.077	-2.600	•5541	.0366	15.159	2127
3.325	-2.100	•5795	.0375	15.442	2086
3.582	-2.800	.6057	•0386	15.690	2036
3.847	-2.900	•6326	.0398	15,906	1979
4.124	-3.000	•6605	•0411	16.090	1915
4.411	-3.100	.6895	•0425	16.239	1852
4.709	-3.200	•7196	• 0440	16.358	1794
5.019	-3.300	•7508	•0457	16.442	1739
5.340	-3+400	•7830	•0475	16.488	1690
5.671	-3.00	.8163	•0495	16.498	1650
6.012	-3+000	•8505	.0516	16,469	1617
6.361	-3.700	.8854	.0540	16,402	-,1590
6.720	=3+800	.9212	.0565	16,304	1564
7.089	-3.900	•9577	.0592	16,174	1542
7.467	-4.000	•9948	.0621	16,025	1532
7.851	-4.100	1.0322	.0650	15,873	1539
8.235	-4+200	1.0094	.0680	15.727	1553
8.626	-4.300	1.1069	.0710	15,583	1523
9.037	-4+400	1.1460	.0743	15,417	1436
9.498	-4.500	1.1894	•0783	15.192	1216
10.164	-4.000	1.2521	.0849	14.742	0614
10.277	-4.610	1.2627	.0862	14.647	0500
11.000	-4.027	1.3282	•0962	13.803	.0190

TRIM PERFORMANCE DATA FOR CLIMB WING CONFIGURATION

ľ

_

ALPHA, DEG	ISUBT, DEG	CL	CD	L/D	CMCL
-3.392	700	2122	.1241	-1.710	2308
-2.163	-1.000	1197	.1053	-1.137	1896
-1.279	-1.200	0467	.0929	503	1732
487	-1+400	.0248	.0829	.299	1906
.144	-1.600	.0869	.0759	1.145	2180
.672	-1.800	•1422	.0709	2.007	2347
1.158	-2.000	•1945	.0669	2.906	2426
2.112	-2+400	.2970	.0617	4.814	2417
3.119	-2+800	.4017	.0601	6.690	-,2338
3.644	-3.000	•4551	.0604	7.532	-,2293
4.190	-3.200	.5095	.0614	8.296	2230
4.770	-3.400	.5655	.0630	8.983	2142
5.388	-3.600	.6243	.0651	9,590	2033
6.043	-3.800	•6867	•0678	10.123	-,1914
6.725	-4.000	•7534	.0712	10.589	1795
7.445	-4.200	.8255	.0752	10.974	1652
8.245	-4.400	•9070	.0806	11.250	1437
9.160	-4.000	1.0007	.0880	11.372	1369
9.615	-4.100	1.0468	.0920	11.376	1503
10.021	-4.000	1.08/3	.0957	11.303	1/39
10.096	-5.000	1.1527	.1019	11.312	- 2275
11.107	-5.400	1 9451	•1009	11.124	- 2306
13 303	-5.600	1.2060	+1117	11.120	- 1047
12 956	-5.800	1 3601	1250	10 903	- 1549
13.712		1.4432	1375	10.499	1241
14.671	-6.200	1.5304	1509	10.140	-1302
15.548	-6-400	1.6023	-1634	9.804	1733
16.324	-6.600	1.6607	1753	9.474	2086
16.985	-6.800	1.7071	1866	9.151	2683
17.518	-7.000	1.7417	1966	8.859	3605
17.939	-7.200	1.7663	2052	8.607	4859
18.284	-7.400	1.7842	.2127	8.387	6242
18.581	-7.600	1.7979	2195	8,191	7547
18.849	-7.800	1.8090	2258	8.010	8816
19.096	-8.000	1.8182	.2319	7.842	-1.0055
19.330	-8.200	1.8261	.2377	7.683	-1.1100
19.555	-8.400	1.8331	. 2434	7.530	-1.1900
19.776	-8+600	1.8396	.2492	7.383	-1.2432
19.997	-8.800	1.8458	.2550	7.239	-1.2667
20.250	-9.000	1.8519	.2610	7.096	-1.2701
20.449	-9.200	1.8580	.2672	6.955	-1.2653
20.683	-9.400	1.8642	-2736	6.813	-1.2514
20.925	-9.600	1.8705	-2804	6.672	-1.2273
21.177	-9.800	1.8770	•2875	6.529	-1.1971
21.439	-10.000	1.8838	.2950	6.385	-1.1770
21.738	-10.00	1.8904	.3043	6.213	-1.1495
22.000	-10.500	1.8975	.3142	6.039	-1.1341
22 201	-10.500	1.9011	.3195	5.951	-1.1249
55+241	-10.000	1.9049	.3250	20805	-1+1105

•

TRIM PERFORMANCE DATA FOR PART-SPAN FLAP WING CONFIGURATION WITH TAKE-OFF FLAP SETTING

ALPHA, DEG	ISUBT, DEG	CL	CD	LZD	CMCL
-3,517	•200	.1118	.1362	.821	3338
-3.310	0.000	•1445	.1331	1.086	3337
-2.904	-+400	.2063	.1281	1.611	3345
-2,700	600	•237Ĩ	.1259	1.884	-,3353
-2.294	-1.000	.2985	.1221	2.445	3382
-1.893	-1+400	.3590	.1191	3.014	3427
-1.696	-1.600	.3889	.1179	3.298	-,3445
-1.306	-2.000	.4483	.1161	3.861	3457
-,915	-2+400	.5076	.1149	4.417	3438
717	-2.600	•5374	.1145	4.694	3411
311	-3+000	.5980	.1140	5.247	3314
.128	-3+400	.6614	.1139	5.807	3132
.368	-3.600	. 6948	.1141	6.092	3022
.902	-4.000	.7657	.1149	6.666	2793
1.518	-4•400	.8429	.1166	7.232	2607
1.850	-4.600	.883]	.1178	7.498	2582
2.517	-5.000	.9628	.1207	7.977	2630
3.144	-5•400	1.0374	.1245	8.335	2619
3.463	-5.600	1.0753	.1266	8,496	2583
4.140	-6.000	1.1545	.1316	8.776	2416
4.910	-6.400	1.2404	.1382	8,976	2248
5.331	-6.600	1.2852	.1422	9.035	2211
6.174	-7.000	1.3724	.1510	9.088	2345
6.938	-7•400	1.4520	.1593	9.115	2503
7.296	-7.600	1.4897	.1632	9.126	2548
7.990	-8.000	1.5640	.1710	9.147	2546
8.341	-8.200	1.6014	.1750	9.151	2507
8.701	-8+400	1.6394	.1792	9.149	2443
9.079	-8.600	1.6787	.1837	9.138	2345
9.942	-9.000	1.7657	.1946	9.074	1919
11.243	-9•400	1.8934	.2134	8.874	1156
12.083	-9.600	1.9751	.2262	B.730	1339
13.123	-10.000	2.0745	.2414	8,593	2531
14,000	-10.400	2.1433	2565	8,356	5090
14.333	-10.600	2.1608	.2638	8.190	7380
14.875	-11.000	2.1778	.2779	7.837	-1.4712
15.308	-11+400	2.1819	.2908	7.504	-2.6454
15.501	-11.600	2.1821	.2967	7.355	-2.9950
15.865	-12.000	2.1821	.3076	7.094	-2.6489
16.231	-12+400	2.1848	.3176	6.879	-1.7168
16.427	-12.600	2.1880	.3224	6.787	-1.3656
16.876	-13.000	2.2009	.3320	6.629	7934
17.524	-13.400	2.2316	.3433	6.501	4435
17.906	-13.600	2.2509	.3500	6.432	5377
18.485	-14+000	2.2719	•3628	6.262	-1.1884
18.708	-14.200	2.2766	.3689	6.172	-1.6840
18,903	-14•400	2.2790	.3747	6.083	-2.3874
19.077	-14.600	2.2799	.3802	5,996	-3.4190
19.234	-14.800	2.2798	.3856	5.912	-4.653,1
19.382	-15.000	2.2790	.3909	5.830	-5.9361

TRIM PERFORMANCE DATA FOR PART-SPAN FLAP WING CONFIGURATION WITH LANDING FLAP SETTING

ALPHA.DEG	ISUBT,DEG	CL	CD	L/D	CMCL
-3.591	-1.800	•5257	.1805	2.913	3700
-3.488	-2.000	•5547	.1811	3.063	-,3697
-3.278	-2.400	.6125	.1823	3.360	3689
-3.169	-2.600	•6414	.1829	3,507	3683
-2.945	-3.000	•6992	.1841	3.797	3669
-2.711	-3+400	•7569	.1854	4.082	-,3650
-2.589	-3+600	•7858	.1861	4.223	3638
-2.332	-4.000	.8437	.1874	4.502	3607
-2.054	-4•400	•9020	.1889	4.776	-,3563
-1.905	-4.600	•9314	.1897	4.911	3534
-1.578	-5.000	•9909	•1914	5.178	-,3457
-1.194	-5•400	1.0513	.1959	5.367	3273
-,967	-5+600	1.0835	.1983	5.465	3151
405	-6.000	1.1547	.2036	5.673	2810
.371	-6.400	1.2415	.2100	5.912	2336
.857	-6.600	1.2937	.2137	6.054	2117
1.950	-7.000	1.4122	.2213	6.380	2018
2.969	-7•400	1.5227	•2281	6.674	-,2333
3.428	-7.600	1.5708	•2314	6.787	2499
4.297	-8.000	1.6581	.2386	6.950	2639
5.150	-8+400	1.7407	.2468	7.054	2667
5,573	-8.600	1.7808	.2512	7.091	2732
6.381	-9.000	1.8546	. 2599	7.135	-,3083
7.144	-9+400	1.9187	.2685	7.145	3373
7.523	-9.600	1.9490	•2729	7.141	3329
8.361	-10+000	2.0175	•2828	7.135	2569
9.842	-10+400	2.1595	.3016	7.160	1363
10.873	-10.600	2.2564	•3149	7.166	1423
11.846	-10.800	2.3362	.3287	7.108	1762
12.713	-11.000	2.4006	.3422	7.015	2035
14.334	-11.400	2.5026	.3681	6.799	2729
15.266	-11.600	2.5361	.3819	6,641	-,5069
16.440	-12.000	2.5560	•4003	6.385	-1.5734
17.051	-12+400	2.5657	.4114	6.236	-1.8466
17.289	-12.500	2.5701	•4160	6.179	-1.9163
17.714	-13.000	2.5782	.4243	6.076	-2.1468
17.918	-13-200	2.5817	•4285	6.025	-2,3663
18.125	-13+400	2.5847	.4331	5.969	-,2,7453
18.338	-13.600	2.5869	•4380	5,906	-3.2789

77

·· - --

TRIM PERFORMANCE DATA FOR FULL-SPAN FLAP WING CONFIGURATION WITH TAKE-OFF FLAP SETTING

ALPHA,DEG	ISUBT, DEG	CL	CD	L/D	CMCL
-3.528	-1.200	.1882	.1346	1.399	5024
-3.32 ^A	-1.600	•5561	.1324	1.708	4933
-3.122	-2.000	.2649	.1303	2.033	4840
-3.017	-2.200	.2847	.1293	2.202	4792
-2.802	-2.600	.3249	.1274	2,551	4692
-2.580	-3.000	.3661	.1256	2.916	4582
-2.467	-3.200	.3872	.1248	3.104	4524
-2.234	-3.600	.4304	.1232	3.493	4399
-1.992	-4.000	•4752	.1219	3.897	4263
-1.868	-4.200	.4982	.1214	4.105	4193
-1.611	-4.600;	•5455	.1205	4.528	4059
-1.343	-5.000	•5947	.1199	4.962	3930
-1.179	-5.200	.6247	.1201	5.200	3865
839	-5.600	.6861	.1209	5.677	3756
485	-6.000	•7487	.1218	6.148	3683
305	-6.200	.7803	.1223	6.379	3660
•076	-6.600	.8432	.1236	6,825	3640
•474	-7.000	•9054	.1250	7.242	3632
.683	-7.200	•9363	.1259	7.437	3625
1.126	-7.600	.9975	.1280	7.793	3594
1.613	-8.000	1.0588	.1307	8,099	3490
1.877	-8.200	1.0905	.1324	8.232	3388
2.464	-8.600	1.1570	.1367	8.463	3087
3.136	-9.000	1.2315	.1423	8.657	2772
3.500	-9.200	1.2719	.1455	8.742	2675
4.237	-9.600	1.3543	.1523	8.890	2714
4.938	-10.000	1.4327	.1591	9.004	-,2870
5.299	-10.200	1.4726	.1634	9.011	2925
5.664	-10.400	1.5120	.1677	9.014	2968
6.030	-10.600	1.5510	.1721	9.013	3011
6.757	-11.000	1.6266	.1807	9.003	3120
7.111	-11.200	1.6628	.1849	8.995	3176
7.795	-11.600	1.7322	.1930	8.976	3198
8.482	-12.000	1.8014	.2013	8,948	3005
8.846	-12.200	1.8380	.2059	8,926	2820
9.696	-12.600	1.9233	.2173	8.849	2184
11.063	-13.000	2.0622	.2382	8.657	1091
12.223	-13+200	2.1790	.2580	8.447	1090
13.891	-13.600	2.3294	.2874	8.105	1723
16.360	-14.000	2.4828	.3239	7.666	-,2240
17.381	-14.00	2.4997	• 3452	7.242	-2.1996
17,918	-14.400	2.5003	•3585	6.975	-7.0034
18.286	-14.000	2.5004	.3678	6.798	-7.3666
18,583	-14.800	2.5007	.3754	6.662	-7.0861
18.84?	-15.000	2.5012	.3820	6.548	-6.9008

TRIM PERFORMANCE DATA FOR FULL-SPAN FLAP WING CONFIGURATION WITH LANDING FLAP SETTING

ALPHA, DEG	ISUBT, DEG	CL	CD	L/D	CMCL
-3,557	-6.000	.7766	.2006	3.872	3610
-3.452	-6.200	.8045	.2028	3,966	3584
-3,344	-6•400	.8327	.2051	4.060	3558
-3.232	-6.600	.8612	.2073	4.154	3531
-3,115	-6.800	.8902	.2096	4,247	-,3503
-2.994	-7.000	•9195	.2119	4,339	3474
-2.868	-7.200	•9493	.2142	4.432	3444
-2.737	-7•400	.9796	.2166	4.523	3412
-2.599	-7.600	1.0103	.2189	4.615	3379
-2.455	-7.800	1.0415	.2213	4.706	-,3343
-2.301	-8.000	1.0733	.2238	4.797	3304
-2.138	-8.200	1.1057	•5563	4.886	3263
-1.964	-8+400	1.1387	•2289	4,976	3216
-1.774	-8.600	1.1724	.2315	5.064	3163
-1.567	-8.800	1.2070	.2343	5.151	3101
-1.338	-9.000	1.2426	.2373	5.237	3026
-1.081	-9.200	1.2795	.2404	5.322	-,2930
786	-9.400	1.3182	•2438	5.407	2801
441	-9.600	1.3595	•2475	5.493	2613
024	-9.800	1.4054	.2516	5,586	2334
• 499	-10.000	1.4595	.2561	5,699	1978
•933	-10.200	1.5039	.2604	5.777	1775
1.413	-10+400	1.5526	.2647	5.866	1706
1.885	-10.000	1.6007	.2687	5.957	1826
2.310	-10.000	1.6452	.2723	6.042	1998
2.702	-11.000	1.68/6	.2750	6.123	2103
3.080		1.7730	•2788	6.204	2159
3.401		1.0106	• 2021	0.284	2139
5.011		1.0170	.2039	6,300	- 1903
4 019	-12.000	1.0720	-2900	0.442 6 Ene	- 1712
5.645	-12.200	2.0022	3062	6.505	- 1535
6.503	-12.400	2.0810	3174	6.558	- 1458
7.400	-12.600	2.1655	3286	6.591	- 1495
8.249	-12.800	2.2457	3386	6.632	- 1689
9.007	-33-000	2.3164	3476	6.665	- 1955
9.354	-13.100	2.3482	3517	6.677	- 2088
9.685	-13.200	2.3780	3557	6.686	- 2200
10.005	-13.300	2.4063	.3596	6.693	- 2294
10.320	-13.400	2.4335	3634	6.696	2364
10.632	-13.500	2.4598	.3674	6.696	2404
10.949	-13.600	2.4857	.3714	6.693	2408
11.276	-13.700	2.5118	.3757	6.685	2346
11.633	-13.800	2.5392	.3806	6.672	2138
12.073	-13.900	2.5716	.3866	6.651	1642

TRIM PERFORMANCE DATA FOR FULL-SPAN FLAP WITH LOW-SPEED AILERONS WING CONFIGURATION WITH TAKE-OFF FLAP SETTING

ALPHA, DEG	ISUBT,DEG	CL	CD	L/D	CMCL
-3,598	800	.1740	.1330	1.308	3878
-3.444	-1.000	.1999	.1311	1.525	3825
-3.125	-1.400	-2530	.1274	1.985	3720
-2.960	-1.600	.2802	.1257	2.229	3668
-2.620	-2.000	.3361	.1225	2.744	3557
-2.269	-2.400	.3943	.1197	3.293	3439
-2.089	-2.600	.4243	.1185	3.580	3377
-1.723	-3.000	•4861	.1164	4.175	3262
-1.350	-3.400	.5501	.1149	4.788	3177
-1.161	-3.600	.5826	.1143	5.097	3146
777	-4.000	.6485	.1135	5.714	3103
382	-4.400	•7147	.1132	6.313	3093
179	-4.600	.7478	.1133	6,601	3101
.245	-5.000	. 8131	.1139	7,138	-,3135
•757	-5.400	.8844	.1160	7,622	3171
1.028	-5.600	•9196	.1174	7.835	3171
1.604	-6.000	•9904	.1206	8,211	3089
2.230	-6.400	1.0648	.1245	8,551	2859
2.567	-6.600	1.1047	.1268	8.716	2728
3.299	-7.000	1.1909	.1319	9.026	2495
4.106	-7•400	1.2829	.1385	9.261	2447
4.525	-7.600	1.3283	.1424	9,325	2496
5.356	-8.000	1.4145	.1510	9.366	2651
6.145	-8-400	1.4943	.1597	9,355	2752
6,519	-8+600	1.5327	.1639	9.351	2777
7.237	-9.000	1.6076	.1719	9,354	2795
7.938	-9•400	1.6811	.1798	9.350	2788
8.296	-9.600	1.7177	.1840	9.335	2761
9.063	-10.000	1.7934	.1936	9.263	2560
10.208	-10+400	1.9046	.2098	9.079	1789
11.030	-10.600	1.9902	.2218	8,974	1161
13,680	-11.000	2.2430	.2668	8,408	1352
15,632	-11•400	2.3785	.3011	7,901	2598
16.305	-11-600	2.4129	.3123	7.727	4462
17.286	-12.000	2.4404	•3298	7.400	-1.4495
17.943	-12.400	2.4449	•3435	7.117	-3.9121
18,188	-12.600	2.4444	.3494	6,996	-5.4481
18,587	-13.000	2+4415	.3600	6.781	-8,6317
18,910	-13+400	2.4371	•3698	6.591	-11.6010
19.051	-13.600	2.4347	• 3744	6.503	-12.8892
19.307	-14.000	2.4294	.3833	6.338	-14.8051
19.425	-14-200	2.4266	.3877	6.260	-15.3604
19,539	-14.400	2.4237	•3920	6.184	-15.6016
19.650	-14.600	2.4208	•3963	6.109	-15,5031
19.759	-14.800	2.4179	•4006	6.036	-15.0540
19.867	-15.000	2.4150	.4049	5,964	-14.2626

TRIM PERFORMANCE DATA FOR FULL-SPAN FLAP WITH LOW-SPEED AILERONS WING CONFIGURATION WITH LANDING FLAP SETTING

ALPHA,DEG	ISUBT, DEG	CL	CD	L/D	CMCL
-3.516	-2.600	•6569	.1802	3,646	3188
-3.386	-2.800	•6887	.1807	3.810	3190
-3,253	-3.000	.7203	.1813	3.973	3191
-3.116	-3.200	•7520	.1819	4.133	3191
-2.977	-3.400	.7836	.1826	4.291	3189
-2.834	-3.600	.8152	.1833	4.446	3186
-2.688	-3.800	.8468	.1841	4.599	3183
-2.537	-4.000	.8784	.1850	4.749	3178
-2.381	-4.200	.9101	.1859	4.895	3172
-2.220	-4.400	•9418	.1869	5.038	3164
-2.054	-4.600	•9736	.1881	5.177	-,3153
-1.880	-4.800	1.0056	.1893	5,312	3139
-1.698	-5.000	1.0378	.1907	5,442	3120
-1.507	-5.200	1.0706	.1935	5,532	3080
-1.304	-5.400	1.1042	.1965	5.620	3033
-1.086	-5.600	1.1386	.1996	5,706	2979
851	-5.800	1.1741	.2028	5,790	2913
595	-6.000	1.2109	.2061	5.874	2829
313	-6.200	1.2495	.2097	5,959	2717
.004	-6.400	1.2906	.2135	6.047	-,2565
.369	-6.600	1.3355	.2174	6.142	2372
.798	-6.800	1.3856	.2218	6,248	2155
1.309	-7.000	1.4425	.2265	6.368	1951
1.891	-7.200	1.5048	.2317	6.495	1906
2.468	-7.400	1.5659	.2368	6,613	2043
3.003	-7.600	1.6224	.2417	6.713	2221
3.494	-7.800	1.6741	.2463	6.796	2374
3.960	-8.000	1.7226	.2510	6.862	2454
4.419	-8.200	1.7694	.2559	6.915	2480
4.876	-8.400	1.8153	.2610	6.955	2477
5.338	-8.600	1.8609	.2665	6.983	2440
5.807	-8.800	1.9070	.2723	7.004	2371
6.291	-9.000	1.9545	.2784	7.020	2268
6.795	-9.200	2.0040	.2849	7.034	2165
7.322	-9.400	2.0558	.2918	7.045	2092
7.859	-9.600	2.1079	.2988	7.054	2157
8.373	-9.800	2.1566	.3056	7.056	2350
8.857	-10.000	2.2008	.3120	7.053	2561
9.379	-10+200	2.2466	.3197	7.028	2694
9,913	-10 + 400	2.2926	.3275	7.001	-,2591
10.499	-10.600	2.3432	.3363	6.968	2287
11.187	-10.800	2.4032	.3472	6.922	1848
12.088	-11.000	2.4797	.3618	6.853	1376
12.258	-11.030	2.4933	•3645	6.840	1292
12.445	-11.060	2,5078	.3674	6.826	1197
12.734	-11.100	2.5292	.3717	6.804	1044
13.224	-11.150	2.5624	.3787	6.766	0759
13.518	-11.170	2.5801	.3827	6.742	0598
13,994	-11.190	2.6048	.3892	6.693	0381
14.509	-11.200	2.6256	.3964	6.624	0187

TRIM PERFORMANCE DATA FOR FULL-SPAN FLAP WITH HIGH-SPEED AILERONS WING CONFIGURATION WITH TAKE-OFF FLAP SETTING

ALPHA . DEG	ISUBT, DEG	CL	CD	L/D	CMCL
-1.227	1.400	.5360	.1195	4.487	-,3916
-1.078	1.200	.5600	.1192	4.696	3867
436	•400	•6595	•1188	5,550	3661
263	•200	.6853	.1189	5.766	3604
.011	200	.7250	.1192	6.085	3514
.108	-•400	•7386	.1194	6.187	-,3481
.307	800	•7661	•1199	6,390	3408
•513	-1.200	.7942	.1205	6.592	3325
.841	-1.800	.8381	•1216	6.893	3184
1.073	-2.200	.8686	.1225	7.091	3083
1.449	-2.800	•9168	.1242	7.381	2935
1.717	-3.200	.9505	.1256	7.566	-,2854
2.145	-3.800	1.0028	.1282	7.825	2783
2.445	-4.200	1.0385	.1301	7.980	2752
2.915	-4.800	1.0929	.1336	8,182	2712
3.240	-5.200	1.1296	.1362	8.296	2685
3.748	-5.800	1.1856	•1405	8.439	2600
4.103	-6.200	1.2244	. 1437	8,519	2505
4.666	-6.800	1.2856	.1491	8,620	2370
5.056	-7.200	1.3281	•1531	8.676	2306
5.650	-7.800	1.3929	1593	8.744	2304
6.036	-8.200	1,4351	. 1635	8.779	2379
6.588	-8.800	1.4949	1696	8.813	2527
6.940	-9.200	1.5326	.1737	8.825	2628
7.450	-9.800	1.5860	•1797	8.826	2771
8.010	-10.200	1.6430	.1867	8.798	2923
6° 505	-10.800	1.7557	.2024	8.675	2905
10.115	-11.200	1.8388	.2151	8.549	2410
12.027	-11.800	2.0209	.2431	8.313	1620
13.385	-12.200	2.1288	.2665	7.988	3250
14.339	-12-800	2.1716	.2860	7.594	-1.1189
14.735	-13.200	2.1791	.2947	7.394	-1.7843
15.223	-13.800	2.1822	.3058	7.135	-2.8180
15.523	-14.200	2.1826	.3127	6.980	-3.0804
15.983	-14.800	2.1840	•3230	6.761	-2.5705

TRIM PERFORMANCE DATA FOR FULL-SPAN FLAP WITH HIGH-SPEED AILERONS WING CONFIGURATION WITH LANDING FLAP SETTING

ALPHA, DEG	ISUBT, DEG	CL	CD	L/D	CMCL
-3.577	-3.800	.6073	.1883	3,224	4597
-3.500	-4.000	.6308	.1892	3.334	4582
-3.421	-4.200	•6545	.1901	3.444	4567
-3.340	-4•400	.6783	.1909	3,553	4551
-3.258	-4.600	.7021	.1918	3,661	4534
-3.173	-4.800	.7261	.1927	3.769	4517
-3.087	-5.000	.7502	.1935	3.876	4499
-3.007	-5.200	.7703	. 1958	3.935	4469
-2.925	-5.400	.7906	.1980	3.994	4437
-2.842	-5.600	.8113	.2002	4.052	4404
-2.756	-5.800	.8321	.2024	4.111	4369
-2.668	-6.000	.8533	.2046	4.171	4331
-2.577	-6.200	. 8748	.2068	4.231	4290
-2.483	-6•400	.8966	.2089	4.291	4245
-2.386	-6.600	•9188	.2111	4.352	4196
-2.284	-6.800	•9414	.2133	4.414	4141
-2.177	-7.000	•9644	.2154	4.477	4079
-2.064	-7.200	•9881	.2176	4.541	4008
-1.943	-7•400	1.0123	.2197	4.607	3924
-1.813	-7.600	1.0374	.2219	4.675	3827
-1.672	-7.800	1.0634	.2241	4.745	3712
-1.516	-8.000	1.0906	.2263	4.819	3575
-1.340	-8.200	1.1194	•2286	4.897	3408
-1.138	-8.400	1.1502	.2309	4.981	3199
897	-8.600	1.1841	•2333	5.075	-,2929
598	-8.800	1.5556	.2359	5.183	-,2595
215	-9.000	1.2677	.2385	5.315	2245
.254	-9.200	1.3204	.2410	5.479	2030
.767	-9-400	1.3780	.2430	5.670	1954
1.279	-9.600	1.4362	.2446	5,872	2011
1.764	-9.800	1.4921	.2460	6,066	2118
5.510	$-10 \cdot 000$	1.5446	.2476	6.238	2254
2.542	-10.200	1,5815	.2507	6.308	2278
2.875	-10.400	1.6191	•2542	6.368	2289
3.25	-10.600	1.6578	•2583	6.417	2281
3.600	-10.800	1.6983	.2631	6.456	- .2217
4.019	-11.000	1.7423	.2686	6.487	2075
4.513	-11.200	1.7924	•2752	6.513	1847
5.133	$-11 \cdot 400$	1.8537	.2835	6.538	1516
5.956	-11.600	1.9341	•2942	6.575	1245
6.897	-11.800	2.0286	.3052	6.648	1224
7.792	-12.000	5.1500	.3145	6.740	1488
8.528	-12.200	2.1914	.3220	6.806	2003
9.136	-12.400	2.2458	.3283	6.840	2507
9.674	-12.600	2.2908	.3341	6.856	2727
10.216	-12.800	2.3350	.3405	6.858	2513
10.852	-13.000	2.3872	•3488	6.844	1926
12.025	-13-200	2.4842	.3667	6.774	0575
13.000	-13.208	2.5583	.3821	6.695	•0473

-

REFERENCES

- Bartlett, Dennis W.: Wind-Tunnel Investigation of Several High-Aspect-Ratio Supercritical Wing Configurations on a Wide-Body-Type Fuselage. NASA TM X-71996, 1977.
- Bartlett, Dennis W.; and Patterson, James C., Jr.: NASA Supercritical-Wing Technology. NASA TM-78731, 1978.
- Morgan, Harry L., Jr.; and Paulson, John W., Jr.: Low-Speed Aerodynamic Performance of a High-Aspect-Ratio Supercritical-Wing Transport Model Equipped With Full-Span Slat and Part-Span Double-Slotted Flaps. NASA TP-1580, 1979.
- 4. Oliver, Wayne R.: Results of Design Studies and Wind Tunnel Tests of an Advanced High Lift System for an Energy-Efficient Transport. NASA CR-159389, 1980.
- 5. Howard, Jenny M.; and Morgan, Harry L., Jr.: Pressure Distribution Data From Tests of Aspect-Ratio-10 EET High-Lift Research Model Equipped With Part- and Full-Span Flaps. NASA TM-80082, 1979.
- 6. Morgan, Harry L., Jr.: Model Geometry Description and Pressure Distribution Data From Tests of EET High-Lift Research Model Equipped With Full-Span Slat and Part-Span Flaps. NASA TM-80048, 1979.
- 7. Stevens, W. A.; Goradia, S. H.; and Braden, J. A.: Mathematical Model for Two-Dimensional Multi-Component Airfoils in Viscous Flow. NASA CR-1843, 1971.
- Braslow, Albert L.; and Knox, Eugene C.: Simplified Method for Determination of Critical Height of Distributed Roughness Particles for Boundary-Layer Transition at Mach Numbers From 0 to 5. NACA TN-4363, 1958.
- 9. Gillis, Clarence L.; Polhamus, Edward C.; and Gray, Joseph L., Jr.: Charts for Determining Jet-Boundary Corrections for Complete Models in 7- by 10-Foot Closed Rectangular Wind Tunnels. NACA WR L-123, 1945. (Formerly NACA ARR L5G31.)
- 10. Pope, Alan; and Harper, John J.: Low-Speed Wind Tunnel Testing. John Wiley
 & Sons, Inc., c.1966.
- 11. Tulinius, J.: Unified Subsonic, Transonic, and Supersonic NAR Vortex Lattice. TFD-72-523, Los Angeles Div., North American Rockwell, Apr. 27, 1972.
- 12. Herriot, John G.: Blockage Corrections for Three-Dimensional-Flow Closed-Throat Wind Tunnels, With Consideration of the Effect of Compressibility. NACA Rep., 995, 1950. (Supersedes NACA RM A7B28.)

13. Callaghan, J. G.: Aerodynamic Prediction Methods for Aircraft at Low Speeds With Mechanical High Lift Devices. Prediction Methods for Aircraft Aerodynamic Characteristics, AGARD-LS-67, May 1974, pp. 2-1 - 2-52.

ŀ

l

TABLE 1.- MODEL GEOMETRIC CHARACTERISTICS

.

Fuselage: Length, m (ft) 3.02 Maximum diameter, cm (in.) 35.05	(9.91) (13.8)
Supercritical wing:"	
Area (trapezoidal reference), m^2 (tt ²)	(11, 21)
Area (wetted), m ⁴ (ft ⁴)	(10.31)
Span, m (ft)	(10.59)
Quarter-chord sweep, deg	27
Aspect ratio	10
Taper ratio (trapezoidal reference)	0.412
Reference geometric chord, cm (in.)	(13.44)
Dinedral, deg	5
	(2.00)
Body station of wing leading edge at root, m (it) $\dots \dots \dots$	(3.86)
Body station of moment reference center, m (it)	(5.39)
$S_{10} = 0 - D_{00} g_{11} = 0.109) - 56.22$	22.241
	22.14)
$(U(C))$ max $\cdots \cdots \cdots$	0.144
Twist, deg	2.5
$Chord on (in) = 0.454/\pi$	(12 4)
$(+/\alpha)$	(13.4)
(///max··································	0.12
$[w_{1}, v_{2}, v_{3}, v_{3},$	0.5
$\frac{119}{2} \frac{111}{2} 11$	(7 41)
(H/A)	0 107
$(\mathcal{G}_{\mathcal{G}})_{max}$	-0.7
Twist, deg	-0.7
Horizontal tail.ª	
	(4 5)
$a_1 = a_1 = a_1 + a_2 + a_2 + a_3 + a_4 $	(4.14)
Aspect ratio	3 78
Ouster-chord sweep, deg	3.70
Quarter on or a backpy deg	10
Taper ratio	0.36
Mean geometric chord. cm (in.)	(14.0)
Body station of tail leading edge at root, m (ft)	(8.03)
Body station of one-guarter of mean geometric chord, m (ft)	(9.05)
Root airfoil (symmetric at fuselage center line) ~	(3100)
Chord, cm (in.)	(19.2)
(t/c) may	0.095
Tip airfoil (symmetric) -	
Chord, cm (in.)	(7.0)
(t/c) may	0.085
Vertical tail:	
Area, m (ft ²)	(2.1)
Height, cm (in.)	(23.0)
Quarter~chord sweep	40
Mean geometric chord, cm (in.)	(13.8)
Height of root chord above model center line, cm (in.)	(5.52)
Body station of tail leading edge at root, m (ft)	(7.9)
Body station of moment reference center (one-quarter chord), m (ft) 2.74	(9.0)
Root airfoil (NACA 0012) -	
Chord, cm (in.)	(18.9)
$(t/c)_{max}$	0.12
Tip airfoil (NACA 0012) -	
Chord, cm (in.)	(6.6)
	~ ~ ~

^aDihedral not included in span and area dimensions.

	Trim penalties			Maximum performance			
Configuration (a)		range	C _{Dtrim} - C _{Dtail-off}	C _L at (L/D) _{max}	(L/D) _{max}	C _{L,max}	
Cruise	0.4	to 0.9	0.0020	0.82	16.5	1.33	
Climb	0.6	to 1.2	.0040	1.05	11.4	1.90	
P.S. flap/take-off	1.0	to 2.1	.0076	1.60	9.2	2.28	
P.S. flap/landing	1.2	to 2.2	.0130	1.92	7.1	2.59	
F.S. full-span flap/take-off	1.2	to 2.4	.0158	1.51	9.0	2.50	
F.S. flap/landing	1.4	to 2.4	.0360	2.46	6.7	2.57	
F.S. flap with L.S. ailerons/take-off	1.2	to 2.1	.0094	1.42	9.4	2.44	
F.S. flap with L.S. ailerons/landing	1.4	to 2.4	.0190	2.16	7.1	2.63	
F.S. flap with H.S. ailerons/take-off	1.2	to 2.1	.0104	1.59	8.8	2.18	
F.S. flap with H.S. ailerons/landing	1.6	to 2.4	.0280	2.34	6.9	2.56	

TABLE II.- SUMMARY OF TRIM PERFORMANCE CHARACTERISTICS

^aAbbreviations:

- F.S.
- full-span high-speed H.S.
- L.S. low-speed
- P.S. part-span

		Leading-edge Slat	15.5% с
		Inboard double- slotted flap	Constant chord 30% c at ŋ ≃ 0.434
		Outboard double- slotted flap	30% c
		High-speed aileron	30% с
		Low-speed aileron	30% с
-	Leading-edge	Ground Spoilers	Constant chord L.E. 78.5% c T.E. 90% c at n = 0.434
0.397	Nacelle center line Toe in 10	Flight Spoilers	11.5% с L.E. 78.5% с T.E. 90% с
	Ground High-speed Spoilers aileron Flight Inboard double-slotted flaps 0.027 0.076 n = 1.00	0.117	

(a) Planform details of part-span flap configuration. (All measurements nondimensionalized by semispan.)

Figure 1.- Details of control and flap surfaces on wing configurations tested.











(3) Part-Span Flap `



(4) Full-Span Flap



(5) Full-Span Flap with Low-Speed Ailerons



(6) Full-Span Flap with High-Speed Ailerons

(b) Wing configurations tested.

Figure 1.- Concluded.



PART-SPAN FLAPS



FULL-SPAN FLAPS



L-81-103

Figure 2.- High-lift research model installed in Langley 4- by 7-Meter Tunnel.



Figure 3.- Definition of gap, overlap, and deflection for slat, vane, and flap.





Figure 4.- Chordwise component combinations and labels for wing static pressure taps.



(a) Nacelles off.

Figure 5.- Effect of Reynolds number on longitudinal aerodynamic characteristics of cruise wing configuration.



(b) Nacelles on.

Figure 5.- Continued.

ļ

.



(c) Nacelles on/off ($R_{\tilde{c}} = 1.63 \times 10^6$).

Figure 5.- Concluded.



Figure 6.- Effect of Reynolds number on longitudinal aerodynamic characteristics of climb wing configuration.





Figure 7.- Effect of Reynolds number on longitudinal aerodynamic characteristics of part-span flap wing configuration.





Figure 7.- Concluded.

L



(a) Take-off flap setting.

Figure 8.- Effect of Reynolds number on longitudinal aerodynamic characteristics of full-span flap wing configuration.



(b) Landing flap setting.

Figure 8.- Concluded.



(a) Take-off flap setting.

Figure 9.- Effect of Reynolds number on longitudinal aerodynamic characteristics of full-span flap with low-speed ailerons wing configuration.



(b) Landing flap setting.

Figure 9.- Concluded.





Figure 10.- Effect of Reynolds number on longitudinal aerodynamic characteristics of full-span flap with high-speed ailerons wing configuration.





Figure 10.- Concluded.



(a) Cruise, climb, part-span flap, and full-span flap wing configurations.

Figure 11.- Comparison of untrimmed (tail-off) performance characteristics of all wing configurations tested. $R_{\bar{C}} = 1.63 \times 10^6$.

Í


(b) Take-off flap wing configurations.

Figure 11.- Continued.





Figure 11.- Concluded.

. .

107



(a) Cruise wing configuration.

Figure 12.- Effect of horizontal-tail deflection on longitudinal aerodynamic characteristics of cruise wing configuration. $R_{\tilde{c}} = 1.63 \times 10^6$.



(b) Trim performance of cruise wing configuration.

Figure 12.- Concluded.

_



(a) Climb wing configuration.

Figure 13.- Effect of horizontal-tail deflection on longitudinal aerodynamic characteristics of climb wing configuration. $R_{\bar{C}} = 1.63 \times 10^6$.





Figure 13.- Concluded.

t



(a) Part-span, take-off flap wing configuration.

Figure 14.- Effect of horizontal-tail deflection on longitudinal aerodynamic characteristics of part-span flap wing configurations. $R_{\bar{C}} = 1.63 \times 10^6$.





· - · · · _

113

- .--





Figure 14.- Continued.





115

.



(a) Full-span, take-off wing configuration.

Figure 15.- Effect of horizontal-tail deflection on longitudinal aerodynamic characteristics of full-span flap wing configurations. $R_{\bar{C}} = 1.63 \times 10^6$.





Figure 15.- Continued.



⁽c) Full-span, landing flap wing configuration.

Figure 15.- Continued.



(d) Trim performance of full-span, landing flap wing configuration.

Figure 15.- Concluded.



(a) Full-flap with low-speed ailerons wing configuration with take-off flap setting.

Figure 16.- Effect of horizontal-tail deflection on longitudinal aerodynamic characteristics of full-span flap with low-speed ailerons wing configurations. $R_{\tilde{c}} = 1.63 \times 10^6$.



.....



Figure 16.- Continued.



(c) Full-span flap with low-speed ailerons wing configuration with landing flap setting.







Figure 16.- Concluded.

123

._<u>}-</u>



(a) Full-span flap with high-speed ailerons wing configuration with take-off flap setting.

Figure 17.- Effect of horizontal-tail deflection on longitudinal aerodynamic characteristics of full-span flap with high-speed ailerons wing configurations. $R_{\overline{c}} = 1.63 \times 10^6$.





Figure 17.- Continued.

_

.



(c) Full-span flap with high-speed ailerons wing configuration with landing flap setting.

Figure 17.- Continued.





Figure 17.- Concluded.



(a) Cruise, climb, part-span flap, and full-span flap configurations.

Figure 18.- Summary of trimmed longitudinal aerodynamic characteristics of the wing configurations tested. $R_{\overline{C}} = 1.63 \times 10^6$.





Figure 18.- Continued.





Figure 18.- Concluded.



(a) Part-span flap wing configuration with take-off flap setting.

Figure 19.- Effect of landing gear on longitudinal aerodynamic characteristics of part-span and full-span flap wing configurations. $R_{\bar{c}} = 1.63 \times 10^6$.



(b) Part-span flap wing configuration with landing flap setting.

Figure 19.- Continued.



L

_

(c) Full-span flap wing configuration with take-off flap setting.

Figure 19.- Continued.



(d) Full-span flap wing configuration with landing flap setting.

Figure 19.- Continued.



j.

• •







(f) Full-span flap with low-speed ailerons wing configuration with landing flap setting.





(g) Full-span flap with high-speed ailerons wing configuration with take-off flap setting.



| ____



(h) Full-span flap with high-speed ailerons wing configuration with landing flap setting.

Figure 19.- Concluded.



(a) Part-span flap wing configuration with take-off and landing flap settings.

Figure 20.- Effect of leading-edge slat deflection on longitudinal aerodynamic characteristics of part-span and full-span flap wing configurations. $R_{\overline{c}} = 1.63 \times 10^6$.



(b) Full-span wing configuration with take-off and landing flap settings. Figure 20.- Concluded.



(a) Part-span flap wing configuration with take-off flap setting.

Figure 21.- Effect of ground height on longitudinal aerodynamic characteristics of part-span and full-span wing configurations. $R_{\overline{c}} = 1.63 \times 10^{6}$, $i_{t} = 0^{\circ}$.


(b) Part-span flap wing configuration with landing flap setting.

Figure 21.- Continued.



(c) Part-span wing configuration with landing flap setting and with ground and flight spoilers deflected. $\alpha = 0^{\circ}$.

Figure 21.- Continued.



(d) Full-span flap wing configuration with take-off flap setting.

Figure 21.- Continued.



I



Figure 21.- Concluded.

145

1

_



(a) Lateral data for cruise wing configuration.

Figure 22.- Effect of sideslip angle on lateral aerodynamic characteristics of cruise wing configuration. $R_c^- = 1.63 \times 10^6$; $i_t = 0^\circ$.



(b) Lateral-directional stability derivatives for cruise wing configuration. Figure 22.- Concluded.



(a) Lateral data for climb wing configuration.

Figure 23.- Effect of sideslip angle on lateral aerodynamic characteristics of climb wing configuration. $R_c^- = 1.63 \times 10^6$; $i_t = 0^\circ$.



(b) Lateral-directional stability derivatives for climb wing configuration. Figure 23.- Concluded.



(a) Lateral data for part-span flap wing configuration with take-off flap setting.

Figure 24.- Effect of sideslip angle on lateral-directional aerodynamic characteristics of part-span flap wing con-figurations. $R_c^2 = 1.63 \times 10^6$; $i_t = 0^\circ$.



(b) Lateral-directional stability derivatives for part-span flap wing configuration with take-off flap setting.

Figure 24.- Continued.





Figure 24.- Continued.



(d) Lateral-directional stability derivatives for part-span flap wing configuration with landing flap setting.

Figure 24.- Concluded.



(a) Lateral data for full-span flap wing configuration with takeoff flap setting.

Figure 25.- Effect of sideslip angle on lateral aerodynamic characteristics of full-span flap wing configurations. $R_c^- = 1.63 \times 10^6$; $i_t = 0^0$.



(b) Lateral-directional stability derivatives for full-span flap wing configuration with take-off flap setting.



(c) Lateral data for full-span flap wing configuration with landing flap setting.



(d) Lateral-directional stability derivatives for full-span flap wing configuration with landing flap setting.

Figure 25.- Concluded.



(a) Lateral data for full-span flap low-speed ailerons wing configuration with take-off flap setting.

Figure 26.- Effect of sideslip angle on lateral aerodynamic characteristics of full-span flap with low-speed ailerons wing configurations. $R_{\rm C}^{-} = 1.63 \times 10^{6}$; $i_{\rm t} = 0^{\circ}$



1-24



Figure 26.- Continued.



(c) Lateral data for full-span flap, low-speed ailerons wing configuration with landing flap setting.



(d) Lateral-directional stability derivatives for full-span flap, low-speed ailerons wing configuration with landing flap setting.

Figure 26.- Concluded.



(a) Lateral data for full-span flap, high-speed ailerons wing configuration with landing flap setting.

Figure 27.- Effect of sideslip angle on lateral-directional aerodynamic characteristics of full-span flap with high-speed ailerons wing configuration with landing flap setting. $R_{c}^{2} = 1.63 \times 10^{6}$; $i_{t} = 0^{\circ}$.



(b) Lateral-directional stability derivatives for full-span flap with highspeed ailerons wing configuration with landing flap setting.

Figure 27.- Concluded.



(a) Lateral data for part-span flap wing configuration with take-off flap setting and with left aileron deflected.

Figure 28.- Effect of low-speed aileron deflection on lateral aerodynamic characteristics of part-span flap wing configurations. $R_{\bar{c}} = 1.63 \times 10^6$; $i_t = 0^{\circ}$.



(b) Rolling-moment coefficient versus left aileron deflection for angle-of-attack range of -2° to 12° .



(c) Lateral data for part-span flap wing configuration with take-off flap setting and with differential deflections of the left and right ailerons.







(e) Lateral data for part-span wing configuration with landing flap setting and with left aileron deflected.









(g) Lateral data for part-span flap wing configuration with landing flap setting and with differential deflections of left and right ailerons.

ı.

ı,



(h) Rolling-moment coefficient versus differential deflections of left and right ailerons for angle-of-attack range of -2° to 12° .

Figure 28.- Concluded.

171

1.



- (a) Longitudinal data for full-span flap wing configuration with take-off flap setting and with left outboard roll-control spoiler deflected.
- Figure 29.- Effect of left outboard spoiler deflections on longitudinal and lateral aerodynamic characteristics of full-span flap wing configurations. $R_{\overline{C}} = 1.63 \times 10^{6}; \quad i_t = 0^{\circ}.$



第5-

(b) Lateral data for full-span wing configuration with take-off flap setting and with left outboard roll-control spoiler deflected.





(c) Change in pitching-moment, lift, and rolling-moment coefficients versus left roll-control spoiler deflection for angle-of-attack range of -2° to 12° .



ų.

(d) Longitudinal data for full-span flap wing configuration with landing flap setting and with left outboard roll-control spoiler deflected.

Figure 29.- Continued.

and.



(e) Lateral data for full-span flap wing configuration with landing flap setting and with left outboard roll-control spoiler deflected.



(f) Change in pitching-moment, lift, and rolling-moment coefficients versus left roll-control spoiler deflection for angle-of-attack range of -2° to 15° .

Figure 29.- Continued.


(g) Longitudinal data for full-span flap wing configuration with landing flap setting and with left outboard flight and roll-control spoilers deflected.

Figure 29.- Continued.



Ţ

ŕ III IIII (h) Lateral data for full-span flap wing configuration with landing flap setting and with left outboard flight and roll-control spoilers deflected.





(i) Change in pitching-moment, lift, and rolling-moment coefficients versus left flight and roll-control spoiler deflection for angle-of-attack range of -2° to 15° .

Figure 29.- Concluded.

1. Report No.	2. Government Accession	No.	3. Recipie	ent's Catalog No.					
NASA TP-1805			5. Report	Date					
4. Title and Subtitle LOW-SPEED AERODYNAMIC PERFORMANCE OF AN ASPECT- RATIO-10 SUPERCRITICAL-WING TRANSPORT MODEL EQUIPPED WITH A FULL-SPAN SLAT AND PART-SPAN AND FULL-SPAN DOUBLE-SLOTTED FLAPS		Apri	1 1981						
		6. Perform	ning Organization Code						
		534-	02-13-03						
		8. Perfor	ming Organization Report No.						
Harry L. Morgan, Jr.			10. Work Unit No.						
9 Performing Organization Name and Address									
NASA Langley Research Center Hampton, VA 23665				11 Contract or Grant No					
			II. Contra	The contract of Grant No.					
2									
······			13. Type	of Report and Period Covered					
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Washington, DC 20546		Tech	nical Paper						
		on	14. Spons	oring Agency Code					
15 Supplementary Notes			·····						
To. Supplementary motes									
16 Abstract	······································								
An investigation was condu	cted in the Langle	ey 4- by	7-Meter Tunne	1 to determine					
the static longitudinal and	d lateral-directio	onal aero	Daynamic chara	cteristics or an					
full_span loading_odge clas	t as well as part-	-cranspor	t model equip	ped with a					
fland This wide body tra	t as well as part-	-span and	i rull-span tr	alling-edge					
roll-control curfages flow-through pagelles landing gear and movable borizontal									
tails. Six basic wing con	figurations were	tested:	(1) cruise (s	lats and flaps					
nested), (2) climb (slats deflected and flaps nested), (3) part-span flap, (4) full-span flap, (5) full-span flap with low-speed ailerons, and (6) full-span flap with high-speed ailerons. Each of the four flapped wing configurations was tested with leading-edge slat and trailing-edge flaps deflected to settings representative of both take-off and landing conditions. Tests were conducted at free-stream conditions corresponding to Reynolds number of 0.97 to 1.63 × 10 ⁶									
					and corresponding Mach numbers of 0.12 to 0.20, through an angle-of-attack range				
					of -4° to 24°, and a sidesiip-angle range of -10° to 5°. The part- and rull-span				
					and couridractons were also rested in Around browing the				
					1				
			an Chatamant						
17. Key Words (Suggested by Author(s)) 18. Distribution Statement									
High-aspect-ratio transpor	High-aspect-ratio transport		on Statement						
Supercritical wing	Supercritical wing		istribution						
		FEDD D	istribution						
High-lift flaps		FEDD D	istribution						
Low-speed performance		FEDD D	istribution	bject Category 02					
High-lift flaps Low-speed performance Ground effects	20. Security Classif Jof this	FEDD D	istribution Su	bject Category 02					
High-lift flaps Low-speed performance Ground effects 19. Security Classif. (of this report)	20. Security Classif. (of this p	FEDD D	21. No. of Pages	bject Category 02 22. Price					

Available: NASA's Industrial Applications Center

- **C**O

نېر

-

Ŧ