Table 3.—Aerospace industries—Regression analysis [Dependent variable: Production worker monthly man-hours] 1

		-	-	
Independent variable ²	Coefficient	Standard error	Beta	Partial correlation
Seasonal dummies:				
February	-117. 4075	780.3	-0.0097	-0.0177
March		823.7	. 0138	. 0239
April	256.6500	641.7	0212	047
May		827.5	0287	 049 4
June		951. 2	. 0122	. 0182
July	-797. 1213	788.5	0695	1183
August	i —127. 6783	1024.0	0111	0147
September October	687. 8603	1023.0	. 0600	. 0790
October	807. 6806	1017.0	. 0704	. 0932
November	894. 8415	1193. 0	. 0780	. 0881
December		1254.0	. 1334	. 142
		29. 2	-3. 2292	8213
? 	3 1. 6258	. 1852	1. 7354	. 719
Current expenditures	0001	. 3378	0389	038
Obligations, current	. 0002	. 3100	. 0601	. 058
1-month lag	3 1. 0772	. 3140	. 1884	. 374
2-month lag		. 3134	. 1637	. 330
3-month lag		. 3220	. 1103	. 225
4-month lag	3.7840	. 3245	. 1369	. 273
5-month lag	3.8744	.3248	. 1541	.302
6-month lag		. 3193	. 1688	. 329
7-month lag	. 5929	.3190	. 1037	. 214
8-month lag	3 . 6790	.3197	. 1331	. 274
9-month lag	3.7571 3.8686	.3122	. 1527	. 309
10-month lag		.3161	. 1586	
11-month lag		.2760	. 0824	. 318
12-month lag		.0872	. 1043	. 113
Ordent	. 1353	.0889	. 2615	. 176
ntareant	25, 279, 4280	.0000	. 2010	
Jnobligated appropriations 3udget ntercept 2	9272			
Standard error of estimate	1, 045, 1086			
Dograne of freedom	72			
Degrees of freedom Durbin-Watson statistic	.3708			
Dui biii-ii acson statistic				

(2) Expenditures and obligations: The three sets of regression coefficients reveal that current expenditures and obligations are not significant explanatory variables of employment, but that lagged obligations are all positive, all greater than their standard errors, and nine out of 12 coefficients in each regression are statistically significant. The fact that expenditures were not significant casts some doubt on the hypothesis that the industry is dependent upon the government for its working capital needs, but the importance of obligations is strongly reinforced. Contrary to the findings of Ando and Brown, the effects of obligations are felt almost immediately (the first lagged value is significant) and effects are fairly well spread out over the year, with a rather sharp drop between the 11th and 12th coefficient.

(3) Announcement effects: The coefficients of the unobligated appropriations and the budget variables are statistically significant in two of the three regressions, and positive, though not significant, in the third. These variables appear to exert more effect on total workers than on production workers, both in terms of the magnitude of regression coefficients and standardized regression coefficients (B's). Since total workers include managerial and research people whose employment may depend less on actual production contracts than on the preparation of proposals to the defense department based on expectations about the amount of subsequent production contracts, this result is consistent with a priori expectations.

² All money amounts are in millions of dollars.
3 Significant at the 5-percent level.