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(p < 0.01)
(p < 0.01)

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$x_1 \quad . \quad (m =)$

b₁ x₂
b₃ b₂

$$e_{ijklm}$$

.() GLM [] () SAS

$$\begin{aligned}
 & / \pm / \quad / \pm / \\
 & .() \quad / \pm / \quad / \pm / \quad . \\
 & .() \quad / \quad / \quad y_{ijklm} = \mu + Y_i + S_j + L_k + H_l + SE_m + b_1 x_1 + b_2 x_2 + b_3 x_2^2 + e_{ijklm} \\
 & \quad \quad \quad i \quad Y_i \quad \mu \\
 & \quad \quad \quad j \quad S_j \quad (i= \dots) \\
 & \quad \quad \quad H_l \quad (k= \dots) \quad k \quad L_k \quad (j= \dots) \\
 & \quad \quad \quad m \quad SE_m \quad (l= \dots) \quad l
 \end{aligned}$$

.(P< /) .()

$$\begin{array}{c} (\quad) \qquad \qquad \qquad (\quad) \\ | \qquad \qquad | \qquad \qquad | \\ .(\quad) \qquad \qquad .(\quad) \end{array}$$

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NS NS NS NS

NS ($p \geq 0.001$) ($p \leq 0.01$) ($p \leq 0.05$)

(P < 1)

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(/)

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(±)

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/ ± / ^a

/ ± / ^a

/ ± / ^a

/ ± / ^b

/ + / ^{bc}

/ ± / ^c

/ ± / ^b

/ ± / ^a

/ ± / ^c

/ ± / ^d

/ ± / ^c

/ ± / ^b

/ ± / ^b

/ ± / ^b

/ ± / ^b

/ ± / ^c

/ ± / ^b

/ ± / ^a

/ ± / ^a

/ ± / ^b

/ ± / ^b

/ ± / ^b

/ ± / ^a

/ ± / ^b

/ ± / ^a

/ ± / ^c

/ ± / ^b

/ ± / ^b

/ ± / ^a

/ ± / ^a

/ ± / ^{ab}

/ ± / ^a

N.S.

N.S.

N.S.

/ ± / ^a

/ ± /

/ ± /

/ ± / ^a

/ ± / ^a

/ ± /

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/ ± / ^b

/ ± / ^a

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/ ± / ^a

/ ± / ^c

/ ± / ^d

/ ± / ^b

/ ± / ^a

/ ± / ^b

/ ± / ^{bc}

/ ± / ^b

/ ± / ^b

/ ± / ^b

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.(p<0.05)

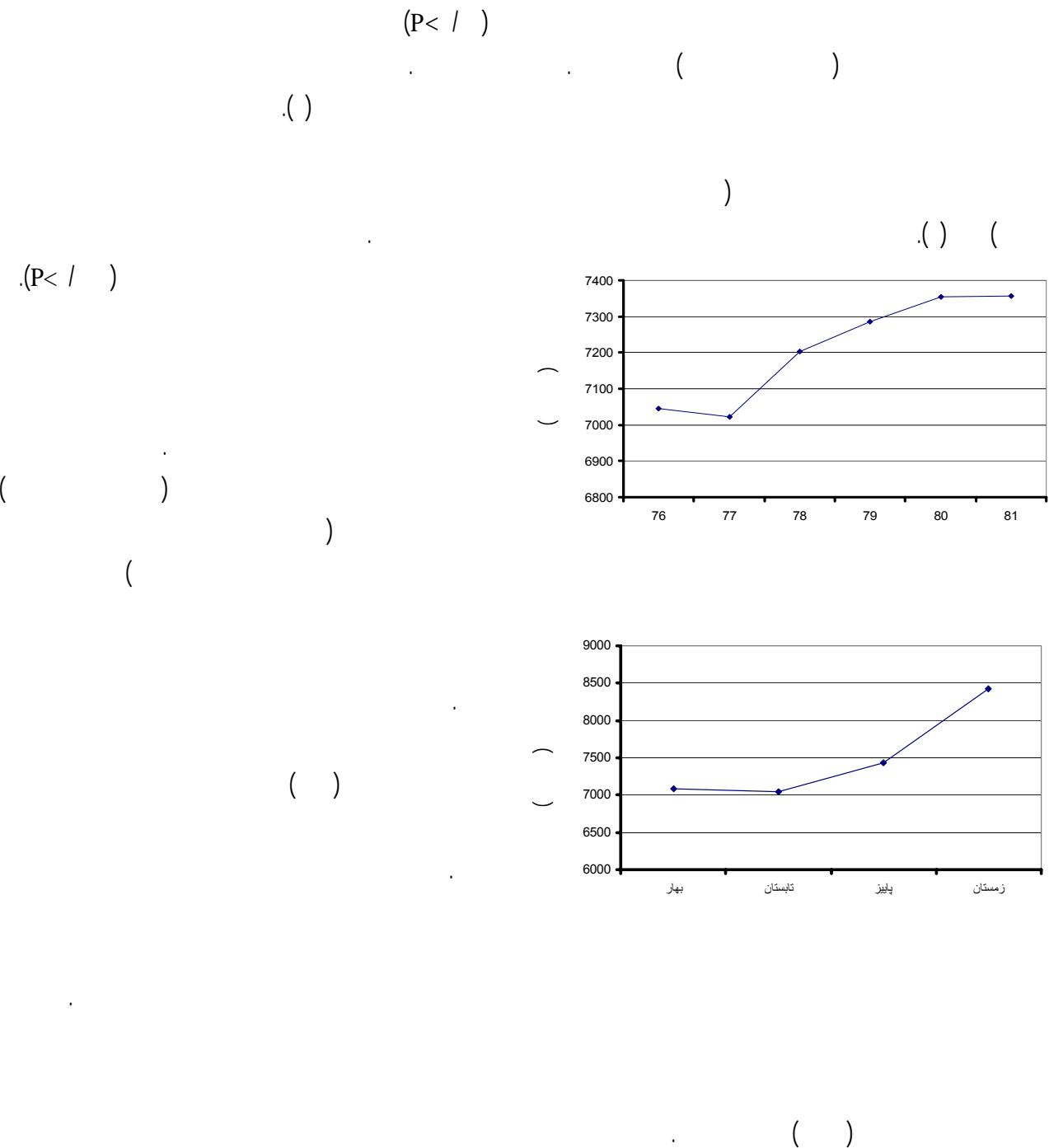
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$$\therefore (P < / \quad) \quad ($$

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.()



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