

## PROGRAMA DE ECONOMETRÍA - TRABAJO PRÁCTICO 1

### 1.1. Pregunta 3 - Ingreso per cápita

Categoría	Media o Proporción	Error Estándar	Intervalo Inferior	Intervalo Superior	Coefficiente de Variación (%)
Urbano	971.08	11.45	948.64	993.52	1.18
Rural	481.93	7.18	467.84	496.01	1.49
Amazonas	695.77	33.71	629.68	761.87	4.85
Ancash	768.91	33.32	703.58	834.24	4.33
Apurimac	661.67	25.80	611.09	712.25	3.90
Arequipa	997.56	34.35	930.22	1064.90	3.44
Ayacucho	587.92	25.07	538.77	637.08	4.26
Cajamarca	634.38	36.51	562.80	705.96	5.76
Callao	970.34	32.65	906.33	1034.36	3.37
Cusco	647.76	24.12	600.46	695.05	3.72
Huancavelica	466.87	19.23	429.16	504.57	4.12
Huanuco	610.42	31.41	548.84	672.00	5.15
Ica	996.29	21.18	954.77	1037.81	2.13
Junin	699.04	21.11	657.66	740.41	3.02
La_Libertad	890.79	28.05	835.80	945.79	3.15
Lambayeque	808.59	20.64	768.13	849.06	2.55
Lima	1121.93	25.70	1071.53	1172.32	2.29
Loreto	670.06	28.36	614.46	725.66	4.23
Madre_de_Dios	968.69	55.86	859.19	1078.19	5.77
Moquegua	1220.19	53.80	1114.72	1325.66	4.41
Pasco	533.33	23.89	486.50	580.17	4.48
Piura	770.15	20.10	730.74	809.55	2.61
Puno	521.75	19.50	483.51	559.98	3.74
San_Martin	762.06	28.97	705.27	818.85	3.80
Tacna	835.73	36.31	764.55	906.92	4.35
Tumbes	797.08	27.56	743.05	851.10	3.46
Ucayali	731.80	28.93	675.08	788.52	3.95

Pobre

<b>Categoría</b>	<b>Media o Proporción</b>	<b>Error Estándar</b>	<b>Intervalo Inferior</b>	<b>Intervalo Superior</b>	<b>Coefficiente de Variación (%)</b>
Urbano	0.2233	0.0062	0.2112	0.2355	2.7724
Rural	0.3971	0.0085	0.3804	0.4138	2.1471
Amazonas	0.3010	0.0234	0.2551	0.3468	7.7675
Ancash	0.2186	0.0186	0.1822	0.2551	8.5036
Apurímac	0.2830	0.0250	0.2340	0.3320	8.8373
Arequipa	0.1204	0.0146	0.0919	0.1490	12.0989
Ayacucho	0.3602	0.0232	0.3147	0.4057	6.4473
Cajamarca	0.3973	0.0230	0.3522	0.4425	5.7994
Callao	0.2852	0.0229	0.2404	0.3301	8.0165
Cusco	0.2201	0.0214	0.1781	0.2620	9.7236
Huancavelica	0.4121	0.0293	0.3547	0.4694	7.1046
Huanuco	0.3549	0.0254	0.3052	0.4046	7.1469
Ica	0.0657	0.0121	0.0421	0.0894	18.3417
Junín	0.2636	0.0199	0.2246	0.3027	7.5478
La_Libertad	0.2676	0.0186	0.2312	0.3040	6.9354
Lambayeque	0.1396	0.0132	0.1138	0.1654	9.4433
Lima	0.2462	0.0120	0.2226	0.2698	4.8861
Loreto	0.3461	0.0218	0.3034	0.3888	6.2948
Madre_de_Dios	0.0771	0.0342	0.0099	0.1442	44.4307
Moquegua	0.1017	0.0145	0.0732	0.1302	14.2954
Pasco	0.4212	0.0362	0.3502	0.4921	8.5982
Piura	0.2531	0.0177	0.2184	0.2877	6.9899
Puno	0.4260	0.0296	0.3680	0.4839	6.9420
San_Martin	0.2031	0.0199	0.1642	0.2421	9.7775
Tacna	0.2176	0.0260	0.1666	0.2687	11.9648
Tumbes	0.1934	0.0225	0.1492	0.2375	11.6417
Ucayali	0.1702	0.0220	0.1272	0.2133	12.9033

Mujer

<b>Categoría</b>	<b>Media o Proporción</b>	<b>Error Estándar</b>	<b>Intervalo Inferior</b>	<b>Intervalo Superior</b>	<b>Coefficiente de Variación (%)</b>
Urbano	0.5174	0.0021	0.5133	0.5215	0.4061
Rural	0.5107	0.0023	0.5062	0.5152	0.4458
Amazonas	0.5242	0.0069	0.5106	0.5378	1.3206
Ancash	0.5161	0.0065	0.5033	0.5290	1.2690
Apurímac	0.5190	0.0115	0.4964	0.5416	2.2228
Arequipa	0.5112	0.0076	0.4963	0.5260	1.4820
Ayacucho	0.5231	0.0079	0.5075	0.5386	1.5186
Cajamarca	0.5247	0.0065	0.5120	0.5374	1.2360
Callao	0.5202	0.0076	0.5053	0.5350	1.4531
Cusco	0.5271	0.0068	0.5138	0.5404	1.2917
Huancavelica	0.5305	0.0078	0.5153	0.5458	1.4669
Huanuco	0.5135	0.0066	0.5006	0.5264	1.2803
Ica	0.5221	0.0070	0.5084	0.5358	1.3366
Junín	0.5176	0.0065	0.5048	0.5304	1.2604
La_Libertad	0.5164	0.0060	0.5046	0.5282	1.1694
Lambayeque	0.5209	0.0058	0.5095	0.5324	1.1195
Lima	0.5136	0.0041	0.5055	0.5217	0.8038
Loreto	0.5027	0.0058	0.4913	0.5141	1.1537
Madre_de_Dios	0.5001	0.0122	0.4763	0.5240	2.4365
Moquegua	0.4947	0.0112	0.4727	0.5167	2.2668
Pasco	0.5035	0.0102	0.4835	0.5234	2.0232
Piura	0.5118	0.0063	0.4995	0.5240	1.2214
Puno	0.5333	0.0088	0.5160	0.5505	1.6530
San_Martin	0.5102	0.0067	0.4971	0.5234	1.3162
Tacna	0.5081	0.0091	0.4903	0.5259	1.7884
Tumbes	0.4879	0.0104	0.4674	0.5083	2.1411
Ucayali	0.5017	0.0071	0.4878	0.5157	1.4189

Edad

<b>Categoría</b>	<b>Media o Proporción</b>	<b>Error Estándar</b>	<b>Intervalo Inferior</b>	<b>Intervalo Superior</b>	<b>Coefficiente de Variación (%)</b>
Urbano	33.8181	0.1574	33.5096	34.1266	0.4653
Rural	34.2044	0.2358	33.7421	34.6666	0.6894
Amazonas	32.4495	0.6576	31.1603	33.7388	2.0267
Ancash	34.7541	0.6266	33.5257	35.9826	1.8031
Apurimac	34.4080	0.7757	32.8874	35.9287	2.2544
Arequipa	34.1410	0.5207	33.1201	35.1618	1.5252
Ayacucho	33.2957	0.7844	31.7579	34.8336	2.3560
Cajamarca	35.0563	0.5176	34.0416	36.0711	1.4766
Callao	33.9691	0.6427	32.7091	35.2291	1.8921
Cusco	34.0977	0.5914	32.9384	35.2571	1.7344
Huancavelica	34.1732	0.8708	32.4662	35.8803	2.5481
Huanuco	32.1358	0.6131	30.9340	33.3376	1.9077
Ica	32.4980	0.5781	31.3647	33.6313	1.7789
Junin	33.4571	0.5523	32.3744	34.5398	1.6507
La_Libertad	33.8965	0.5637	32.7915	35.0016	1.6630
Lambayeque	33.4702	0.5021	32.4858	34.4547	1.5003
Lima	35.4806	0.2969	34.8985	36.0627	0.8368
Loreto	28.1602	0.4623	27.2540	29.0664	1.6415
Madre_de_Dios	28.6758	0.8873	26.9363	30.4153	3.0943
Moquegua	36.0706	0.8257	34.4519	37.6892	2.2890
Pasco	31.0237	0.6781	29.6943	32.3532	2.1859
Piura	31.3087	0.4852	30.3575	32.2599	1.5498
Puno	35.5325	0.8226	33.9199	37.1451	2.3150
San_Martin	30.8857	0.5138	29.8785	31.8929	1.6634
Tacna	35.2169	0.7072	33.8305	36.6034	2.0081
Tumbes	31.8627	0.6185	30.6502	33.0751	1.9411
Ucayali	27.9708	0.5096	26.9717	28.9699	1.8220

## 1.2. Pregunta 4

Preg.	Diferencia del indicador	Error Estándar	p-valor	Intervalo Inferior	Intervalo Superior	¿La diferencia es significativa al 5% de error?
1	-1.4915	0.1581	0.0000	-1.8014	-1.1816	Sí
2	35.4897	6.3936	0.0000	22.9556	48.0238	Sí
3	-657.4531	12.6406	0.0000	-682.2338	-632.6723	Sí
4	-61.7355	40.7256	0.1296	-141.5742	18.1033	No

### 1.3. Pregunta 7

Ratio de dependencia

<b>Categoría</b>	<b>Media o Proporción</b>	<b>Error Estándar</b>	<b>Intervalo Inferior</b>	<b>Intervalo Superior</b>	<b>Coefficiente de Variación (%)</b>
Urbano	0.5152	0.0062	0.5031	0.5273	1.1969
Rural	0.5753	0.0075	0.5606	0.5901	1.3064
Amazonas	0.5930	0.0279	0.5383	0.6477	4.7025
Ancash	0.5716	0.0239	0.5247	0.6184	4.1833
Apurimac	0.4972	0.0213	0.4555	0.5389	4.2811
Arequipa	0.5096	0.0235	0.4635	0.5558	4.6194
Ayacucho	0.5756	0.0270	0.5226	0.6286	4.6983
Cajamarca	0.5116	0.0170	0.4782	0.5451	3.3316
Callao	0.4994	0.0259	0.4486	0.5503	5.1921
Cusco	0.5203	0.0211	0.4789	0.5616	4.0578
Huancavelica	0.5677	0.0353	0.4984	0.6370	6.2258
Huanuco	0.5629	0.0228	0.5182	0.6076	4.0491
Ica	0.5771	0.0202	0.5376	0.6166	3.4925
Junin	0.5089	0.0200	0.4697	0.5482	3.9363
La_Libertad	0.5733	0.0199	0.5342	0.6123	3.4753
Lambayeque	0.5658	0.0206	0.5254	0.6062	3.6439
Lima	0.4853	0.0116	0.4626	0.5080	2.3846
Loreto	0.6976	0.0232	0.6522	0.7430	3.3221
Madre_de_Dios	0.5391	0.0394	0.4620	0.6163	7.3027
Moquegua	0.4301	0.0254	0.3802	0.4799	5.9177
Pasco	0.5937	0.0307	0.5336	0.6538	5.1631
Piura	0.5855	0.0173	0.5516	0.6194	2.9551
Puno	0.4522	0.0214	0.4102	0.4942	4.7370
San_Martin	0.5868	0.0225	0.5427	0.6308	3.8281
Tacna	0.4310	0.0324	0.3675	0.4945	7.5126
Tumbes	0.5625	0.0280	0.5076	0.6173	4.9711
Ucayali	0.6927	0.0337	0.6267	0.7587	4.8590

# Agua

Categoría	Media o Proporción	Error Estándar	Intervalo Inferior	Intervalo Superior	Coefficiente de Variación (%)
Urbano	0.9303	0.0052	0.9201	0.9406	0.5626
Rural	0.7569	0.0095	0.7382	0.7756	1.2611
Amazonas	0.8770	0.0183	0.8410	0.9130	2.0916
Ancash	0.9192	0.0173	0.8853	0.9531	1.8815
Apurímac	0.9482	0.0116	0.9255	0.9708	1.2184
Arequipa	0.9137	0.0147	0.8848	0.9426	1.6123
Ayacucho	0.9317	0.0220	0.8885	0.9749	2.3657
Cajamarca	0.9075	0.0143	0.8795	0.9355	1.5742
Callao	0.9864	0.0066	0.9735	0.9992	0.6642
Cusco	0.9416	0.0123	0.9175	0.9657	1.3051
Huancavelica	0.8874	0.0222	0.8438	0.9310	2.5053
Huanuco	0.7906	0.0266	0.7384	0.8428	3.3675
Ica	0.8899	0.0228	0.8453	0.9345	2.5570
Junín	0.9219	0.0125	0.8973	0.9465	1.3612
La_Libertad	0.9193	0.0146	0.8907	0.9479	1.5867
Lambayeque	0.9250	0.0173	0.8911	0.9589	1.8684
Lima	0.9247	0.0104	0.9043	0.9451	1.1255
Loreto	0.6073	0.0334	0.5418	0.6727	5.4997
Madre_de_Dios	0.8399	0.0446	0.7526	0.9273	5.3047
Moquegua	0.9616	0.0106	0.9409	0.9824	1.1003
Pasco	0.8250	0.0293	0.7676	0.8824	3.5475
Piura	0.8766	0.0201	0.8372	0.9159	2.2911
Puno	0.6843	0.0345	0.6167	0.7519	5.0399
San_Martin	0.9014	0.0196	0.8630	0.9399	2.1759
Tacna	0.9512	0.0135	0.9247	0.9777	1.4213
Tumbes	0.8394	0.0296	0.7813	0.8975	3.5319
Ucayali	0.7669	0.0297	0.7087	0.8252	3.8750

## Saneamiento

<b>Categoría</b>	<b>Media o Proporción</b>	<b>Error Estándar</b>	<b>Intervalo Inferior</b>	<b>Intervalo Superior</b>	<b>Coefficiente de Variación (%)</b>
Urbano	0.8494	0.0064	0.8368	0.8619	0.7533
Rural	0.2217	0.0076	0.2068	0.2366	3.4252
Amazonas	0.5914	0.0335	0.5259	0.6570	5.6558
Ancash	0.6712	0.0307	0.6109	0.7314	4.5767
Apurímac	0.5676	0.0399	0.4894	0.6458	7.0254
Arequipa	0.7692	0.0252	0.7199	0.8185	3.2714
Ayacucho	0.6392	0.0355	0.5695	0.7089	5.5608
Cajamarca	0.4751	0.0352	0.4060	0.5441	7.4168
Callao	0.9480	0.0136	0.9214	0.9746	1.4296
Cusco	0.6659	0.0312	0.6047	0.7271	4.6885
Huancavelica	0.4372	0.0378	0.3631	0.5113	8.6426
Huanuco	0.4287	0.0360	0.3581	0.4993	8.4034
Ica	0.8155	0.0261	0.7643	0.8666	3.2007
Junín	0.6716	0.0268	0.6192	0.7241	3.9859
La_Libertad	0.7720	0.0243	0.7243	0.8198	3.1538
Lambayeque	0.7880	0.0259	0.7373	0.8388	3.2866
Lima	0.8868	0.0112	0.8648	0.9088	1.2673
Loreto	0.3317	0.0292	0.2743	0.3890	8.8166
Madre_de_Dios	0.5347	0.0618	0.4135	0.6559	11.5654
Moquegua	0.8356	0.0233	0.7899	0.8813	2.7903
Pasco	0.6983	0.0349	0.6300	0.7667	4.9949
Piura	0.5973	0.0300	0.5385	0.6560	5.0185
Puno	0.4675	0.0382	0.3926	0.5425	8.1807
San_Martin	0.4829	0.0353	0.4137	0.5522	7.3179
Tacna	0.8581	0.0269	0.8053	0.9108	3.1363
Tumbes	0.7608	0.0308	0.7005	0.8212	4.0453
Ucayali	0.3373	0.0333	0.2720	0.4027	9.8805



## Electricidad

<b>Categoría</b>	<b>Media o Proporción</b>	<b>Error Estándar</b>	<b>Intervalo Inferior</b>	<b>Intervalo Superior</b>	<b>Coefficiente de Variación (%)</b>
Urbano	0.9890	0.0014	0.9863	0.9918	0.1428
Rural	0.8356	0.0073	0.8212	0.8499	0.8751
Amazonas	0.8718	0.0231	0.8266	0.9170	2.6460
Ancash	0.9800	0.0043	0.9716	0.9884	0.4373
Apurímac	0.9436	0.0126	0.9189	0.9682	1.3319
Arequipa	0.9736	0.0079	0.9580	0.9892	0.8160
Ayacucho	0.9422	0.0113	0.9201	0.9644	1.2005
Cajamarca	0.9192	0.0139	0.8920	0.9464	1.5097
Callao	0.9965	0.0022	0.9922	1.0008	0.2210
Cusco	0.9454	0.0113	0.9231	0.9676	1.2005
Huancavelica	0.8943	0.0181	0.8588	0.9298	2.0247
Huanuco	0.8567	0.0246	0.8085	0.9048	2.8675
Ica	0.9612	0.0129	0.9359	0.9866	1.3459
Junín	0.9200	0.0121	0.8964	0.9437	1.3125
La_Libertad	0.9794	0.0051	0.9694	0.9894	0.5207
Lambayeque	0.9807	0.0043	0.9722	0.9891	0.4395
Lima	0.9909	0.0023	0.9864	0.9954	0.2319
Loreto	0.8228	0.0226	0.7784	0.8672	2.7517
Madre_de_Dios	0.9246	0.0294	0.8670	0.9822	3.1793
Moquegua	0.9479	0.0153	0.9180	0.9779	1.6110
Pasco	0.9081	0.0184	0.8719	0.9443	2.0315
Piura	0.9556	0.0090	0.9380	0.9733	0.9408
Puno	0.9077	0.0167	0.8749	0.9405	1.8429
San_Martin	0.9451	0.0116	0.9223	0.9678	1.2274
Tacna	0.9655	0.0114	0.9431	0.9878	1.1819
Tumbes	0.9840	0.0064	0.9715	0.9964	0.6464
Ucayali	0.9061	0.0182	0.8705	0.9417	2.0058

### 3 servicios

<b>Categoría</b>	<b>Media o Proporción</b>	<b>Error Estándar</b>	<b>Intervalo Inferior</b>	<b>Intervalo Superior</b>	<b>Coefficiente de Variación (%)</b>
Urbano	0.8384	0.0067	0.8252	0.8515	0.7984
Rural	0.2153	0.0075	0.2006	0.2299	3.4666
Amazonas	0.5892	0.0334	0.5238	0.6547	5.6663
Ancash	0.6653	0.0305	0.6055	0.7251	4.5884
Apurímac	0.5613	0.0392	0.4844	0.6382	6.9883
Arequipa	0.7671	0.0253	0.7176	0.8166	3.2915
Ayacucho	0.6337	0.0352	0.5647	0.7027	5.5550
Cajamarca	0.4736	0.0353	0.4043	0.5429	7.4627
Callao	0.9433	0.0137	0.9164	0.9703	1.4574
Cusco	0.6581	0.0311	0.5971	0.7191	4.7308
Huancavelica	0.4343	0.0376	0.3606	0.5080	8.6571
Huanuco	0.4178	0.0363	0.3466	0.4890	8.6924
Ica	0.7960	0.0270	0.7432	0.8489	3.3875
Junín	0.6555	0.0264	0.6037	0.7074	4.0338
La_Libertad	0.7628	0.0244	0.7150	0.8106	3.1976
Lambayeque	0.7757	0.0263	0.7242	0.8272	3.3861
Lima	0.8770	0.0120	0.8534	0.9006	1.3739
Loreto	0.3025	0.0293	0.2450	0.3599	9.6886
Madre_de_Dios	0.5347	0.0618	0.4135	0.6559	11.5654
Moquegua	0.8246	0.0248	0.7759	0.8733	3.0116
Pasco	0.6865	0.0349	0.6181	0.7549	5.0818
Piura	0.5868	0.0299	0.5281	0.6455	5.1038
Puno	0.4496	0.0389	0.3733	0.5259	8.6618
San_Martin	0.4820	0.0353	0.4128	0.5513	7.3309
Tacna	0.8513	0.0272	0.7980	0.9045	3.1898
Tumbes	0.7035	0.0319	0.6409	0.7661	4.5382
Ucayali	0.3190	0.0323	0.2557	0.3823	10.1171