Black Sea coasts zone of Ukraine.

"Black Sea Environmental Priorities Study. Ukraine". ISBN 92-1-126094-9.United National Publications Sales No. E.98. III.B.16 Black Sea Studies. United Nations Publications, New York, 1998.

Population and Economy. Demographic and Employment Trends.

Since 1991, there has been a down hard population trend in Ukraine. The rate of natural population growth is negative and since 1994. Net migration has also turned negative. Levels of unemployment are increasing.

Population of the Black Sea and Azov Sea regions

Regions	Population (millions of persons)							
(administrative territorial units)	1970	1979	1989	1995				
Ukraine	47.1	49.8	51.7	51.7				
Donetsk	4.9	5.2	5.3	5.3				
Zaporizhia	1.8	2.0	2.1	2.1				
Mikolayiv	1.2	1.2	1.3	1.4				
Odessa	2.4	2.5	2.6	2.6				
Kherson	1.0	1.2	1.2	1.3				
ARC	1.8	2.2	2.5	2.6				
CR, total	13.0	14.2	15.1	15.2				

Source: Economy of Ukraine. 1994-1995

Mortality rates in Ukraine increased from 12,1 per thousand to 14,7. Birth rates fell from 12,7 per thousand to 10,0.

Population density in the Black Sea and Azov Sea regions

Regions	Population density (person/km²)
Donetsk	198.8
Zaporizhia	77.0
Mikolayiv	55.0
Odessa	78.3
Kherson	44.7
ARC	85.4
Ukraine	85.7

Source: Economy of Ukraine.

Thus, the general demographic situation in Ukraine including its coastal regions is not favourable and is worsening. Morbidity and mortality rates, especially infant's mortality is high. This situation has been brought on by factors such as the unfavourable demographic structure in herited from the former Soviet Union, the economic crisis, the unsatisfactory socio-economic conditions in many regions of Ukraine, and the low level of social development.

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Economic Overview.

The Ukrainian economy is facing a serious and growing crisis.

Macroeconomic indices for 1990-1995 illustrate the economic crisis in Ukraine, one without parallel among developed countries since World War II except for the NIS.

GDP has fallen by 55%, national income by 59%.

Consumption has been reduced by 32%.

Major economic indices for Ukraine, 1990-1995

		Years / % of previous year									
Indices	1990	1991	1992	1993	1994	1995					
GDP*	-4.0	-8.7	-9.9	-17.1	-23.0	-10.3					
GDP**	-2.4	-13.5	-16.8	-14.2	-23.0	-11.8					
National Income**	-2.4	-13.4	-17.5	-14.9	-24.5						
Industrial Output**	-0.1	-4.8	-6.4	-7.6	-27.7	-11.5					

^{*} Official statistics and estimations of national economists.

Source: Real Economy and Its Sectors. 1996.

Major trends in the industrial sector.

From 1991-1995, industrial output of the coastal regions declined dramatically.

Indices of industrial output in coastal regions (1975=100)

Daniana			Total	industrial	output		
Regions	1985	1990	1991	1992	1993	1994	1995

^{**} Estimations of the World Bank

Ukraine	144	167	158	148	135	87	72
Donetsk	132	153	143	132	120	78	64
Zaporizhia	144	167	167	160	147	95	78
Mikolayiv	145	168	167	150	137	88	73
Odessa	143	166	164	164	150	97	80
Kherson	147	170	171	157	144	93	76
ARC	147	171	158	147	134	87	71

Source: Economy of Ukraine, 1994-1995.

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Pollution. Municipal Sewage.

Municipal Sources of Liquid and Solid Waste of Selected Black Sea Regions

			Liquid Waste					
Source	Volume (m³/y)	BOD ₅ Load (t/y)	TSS Load (t/y)	Total N Load (t/y)	Total P Load (t/y)	Oil Load (t/y)	Putresible Load (t/y)	Infection Load (t/y)
Total Mikolayiv region	36,401	2,523	4,518	892	416	4,831	199,763	2,334
Total Odessa region	88,343	10,570	20,023	3,737	1,021	5,167	445,438	4,506
Total ARC	139,197	5,547	9,301	4,211	1,140	14,139	619,050	2,395
TOTALS	263,941	18,641	33,843	8,840	2,577	24,138	1,264,252	9,235

Source: Assessment of Land-based Sources of water and Land Pollution in the Ukrainian Black Sea Coast. 1996.

Industrial Effluents. Aquatic Pollution

Concentration of 19 heavy metals frequently exceeds the MACs in all Black Sea coast areas. The most serious offenders are copper, zinc, cadmium, cobalt, nickel and chromium. The load from the industrial sources is the following.

Industrial Sources of Liquid Waste for Selected Black Sea Regions

		Liquid Waste								
Source	Volume (m³/y)	BOD ₅ Load (t/y)	TSS Load (t/y)	Total N Load (t/y)	Total P Load (t/y)	Oil Load (t/y)				
Total Mikolayiv region	1,343	669	2,637	29	1	210				
Total Odessa region	101,833	29,858	13,048	26,113	15	62,700				
Total ARC	15,157	6,003	54,743	4,813	1,683	8				
TOTALS	118,333	36,531	70,428	30,954	1,699	62,918				

Source: Assessment of Land-based Sources of water and Land Pollution in the Ukrainian Black Sea Coast. 1996.

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Atmospheric emissions.

- The dynamics of air pollutant emissions by industrial in the coastal zones are similar to pollutant dynamics nationally.
- Air pollution there mainly comes from the metallurgical, energy, coal mining and chemical industries.
- Due to the sharp decline in industrial output throughout Ukraine and in these industries in particular, total emissions have decreased dramatically.

Pollutant emission loads in Black Sea and Azov Sea regions

Dogiona	Pollutant emission loads					
Regions	1985	1990	1991			

Donetsk	142,8	116,6	108,5
Zaporizhia	39,2	32,6	27,2
ARC	37,5	25,5	22,3
Mikolayiv	15,6	12,2	11,1
Odessa	15,8	12,8	11,8
Kherson	12,2	9,3	9,6
Total Ukraine	31,2	25,8	23,7

Source: National Report, 1992

Integrated Air Pollution Index for Selected cities in the Black Sea and Azov Sea Regions

Danian	City	Majou aju nallutina	Integrat	ed Air Poll	lution Inde	ex (IAPI)
Region	City	Major air polluting indastries	1991	1992	1993	1994
Donetsk	Donetsk	Coal, energy, oil refinery, engeneering.	163.2	186.2	87.7	36.0
	Mariupol	Metallurgy, electronics, energy	133.7	108.0	NA	10.2
Zaporizhia	Zaporizhia	Metallurgy, energy, engineering, transport	156,3	63.7	19.9	15.4
Mikolayiv	Mikolayiv	Shipbuilding, electronics, energy	52.3	35.0	7.6	8.8
Kherson	Kherson	Energy, machine-building, oil refinery, construction	52.3	35.0	7.6	8.8
Odessa	Odessa	Oil refinery, machine-building, energy, constr.	52.6	81.7	26.1	26.6
	Izmail	Marine transport, food	3.5	3.4	NA	5.5
	Simferopol	Chemicals, energy, transp.	17.8	18.2	3.5	4.5
ARC	Yalta	Food, transport	9.3	4.1	10.1	3.0
	Kerch	Metallurgy, construction	7.3	18.7	7.9	10.3

Source: Yearbook 1986,88,93.95, the State Committee of Hydrometeorology

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Institutional and Legislative Changes.

Following the adoption of the new Constitution of Ukraine on 28 July 1996, considerable changes in the governmental institutional structure, including environmental bodies, are being planned.

The following will be among the key responsibilities of the Ministry for Environmental Protection and Nuclear Safety:

- Development of regional environmental monitoring systems and regional environmental information systems;
- Elaboration of compulsory rules, techniques, regulations directives and guidelines on environmental protection;
- Development, implementation and monitoring of specific environmental programs;
- Enhancement of environmental management capacity of State and local levels;
- Developing systems for environmental audits and environmental licensing;
- Creation of environmental funds in the State budget
- Organising competitive bidding on governmental contracts for environmental investments;
- Allocating permits for special use of natural resources, solid waste, disposal and discharges and emissions of pollutants, and;
- Creation of a system of environmental insurance.

Criteria for Setting Priorities.

Experience and analysis of the specific problems of the Ukrainian Black Sea coastal zone, the following criteria were chosen in rough order of priority:

- 1. Losses from environmental damage to human health or health costa. Estimated by child mortality, child pathology, morbidity, effect on life expectancy, ratio of mortality and birth rates in comparison to ecologically pristine areas;
- 2. Economic and ecological losses due to declining bio- productivity and bio-diversity of terrestrial and marine ecosystems caused by environmental pollution;
- 3. "hot spots" and danger of irreversible damage to the natural environmental;
- 4. low-cost environmental protection measures and "win-win" investments;
- 5. ecological benefits/cost ratio or net social benefits maximisation.

Those measures that result in equivalent degrees of environmental protection utilising fewer funds and in a shorter time period are preferable.

Also, the renovation and construction of water treatment facilities at "hot spots" are given high priority.

Socio-Economical situation in the coastal region of Ukraine and Odessa area.

Ukrainian National Academy of Science. Institute of Market problem and Economic-Ecological Research.

Short demographical report.

By the end of 1999 the population of the coastal zone was as follows;

Kherson area - 12371000

Mykolayiv area - 13099000

Odessa area - 25286000

Odessa city - over **1** mln.

For the 11 months of 1999 in Odessa area there were registered;

18300 -newborns.

32500 - deaths (the natural decrease of population - **14200** people.

The same period of 1999 - **13000**).

The number of newborns for 100 dead - 56,2. (60 - for the same period of 1998).

The main causes of death in 1999 were;

- Heart and vassal diseases (**60**%);
- Oncology (**14,7**%);
- Accidents, murders, suicides and other external factors;
- **0,8**% of all total deaths were in children up to 12 months old.

In 1999 there were **16.2** thousand of marriages and

8,2 thousand of divorces. (In 1998 -15.2 and 8,1 accordingly).

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Socio-Economical situation in the coastal region of Ukraine and Odessa area.

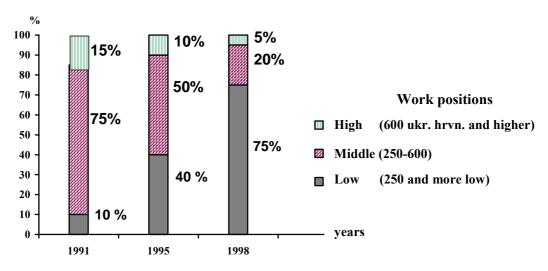
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The Employment Sphere

The Dynamics of Labor Costs

By the 1998 the share of highly-paid positions had decreased 3 times, of middle- paid positions - 4 times. At the same a share of a low-paid positions had increased 7,5 times. Simultaneously, we observe the decrease of the real wages.

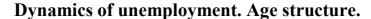
The dynamics of the work positions with high, middle and low wages in %.

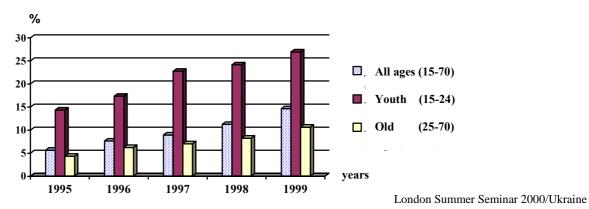


The disqualification of considerable population groups, the loss of social markers and moral principles are obvious.

The number of unemployed - 1,7 mln. for coastal area (24 per 1 position). This year there will be 600 thousand people laid out in the sphere of industry. All together there will be 3-7 mln. people looking for a job in the region.

In the group of young people (15-24 years old). the unemployment is 3 times higher than in the other age groups.





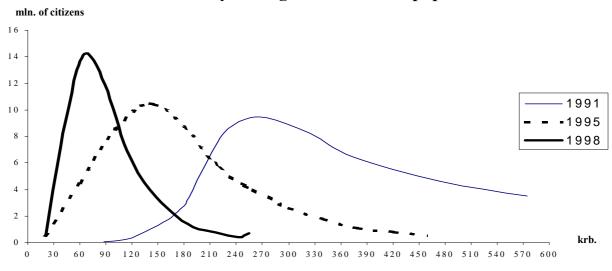
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The Dynamics of Population Incomes.

According to the border of the lowest life support level (90,6 Ukr. hrivnas, starting July, 2000 - 106 Ukr. hrivnas) -approximately 40% of the population is below this level.

The total monthly average income of the population



						1991	1							
krb.	87,5	112,5	5 137	7,5	162,5	182,5	225,0	275,0	325	5,0	37	5,0	475,0	575,0
mln. of citizens	0,05	0,25	0,8	35	1,75	2,75	8,2	9,4	8,2	25	6	,4	4,6	3,5
1995														
krb.	20	60	100	140	180	220	260	300	340	3	80	420) 460	500
mln. of citizens	0,5	4,5	8,5	10,5	8,7	5,6	4,0	2,6	1,8	1	,1	0,8	3 0,5	
						1998	3							
krb.	21	38,5	63	,5	89,0	114,5	140,0	165,5	190),5	21	6,0	241,5	254
mln. of citizens	0,55	7,3	14	,1	11,9	6,95	3,95	2,25	1,1	15	0,	75	0,4	0,7

The ratio between the incomes of the richest 10% of the population and the poorest 10% is as follows:

1991 - 4.5:1.

1995 - 6.4:1.

1998 - 37:1.

The comparison of the 1991 and 1998 data demonstrates the destruction and disappearance of the whole middle class - the main and only possible basis for the social reforms in each and every society. Today in Ukraine there is only one strategy for this group of population - survival at any coast.

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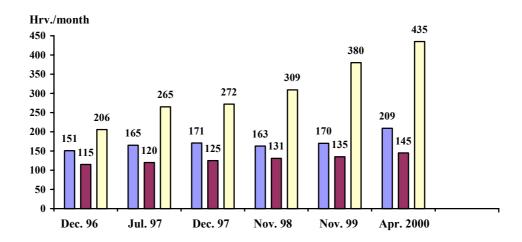
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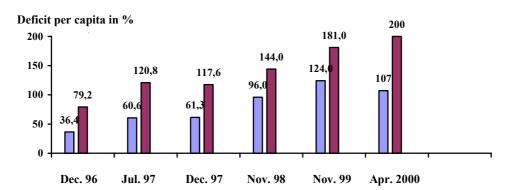
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The Evaluation of Nominal Wages in Odessa Region

In general in Ukraine the share of wages in the structure of money income has decreased from 68% in 1990 to 48% in 1999.

Dynamics of incomes and payments of the Odessa area population





The difference between the nominal wages and need necessary expenses (% to the wages)

- Average wage of all categories of employeesAverage wage for State Budget organizations
- ☐ Minimal living budget per capita (one month)

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Socio-Economical situation in the coastal region of Ukraine and Odessa area.

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Short conclusions

- The system of social support in the country is far from ideal;
- The level of social support depends on the general poor economic growth;
- In the region there are no long-term programs of social protection of the population.
- Besides the deficit of financial means the main financial capital is concentrated in a bank system, new structures and underground financial turnover the representatives of which are not interested in social investments;
- In a vast number of the social sphere sections the alternative opportunities are absent, the competition relations are not functioning.
- There is a keen necessity of an active influence on the structure of the labor market.
- An extreme attention to the work with young people is needed, attention to the sphere, where the increase of low qualified labor force is progressing.
- Only a complex approach can positively influence the economic state and in general social development of Ukraine.