VI.2 Keluaran Dalam Negeri Kasar mengikut Jenis Aktiviti Ekonomi pada Harga Tahun 1978[1]

Gross Domestic Product by Kind of Economic Activity at 1978 Prices[1]

Tempoh	1 Pertanian, Perhutanan dan Perikanan *Agriculture Forestry & Fishing*	2 Perlombongan dan Kuari [2] *Mining & Quarrying [2]*	3 Pembuatan *Manufacturing*	4 Pembinaan *Construction*	5 Elektrik, gas dan air *Electricity Gas & Water*	6 Pengangkutan, penyimpanan dan Perhubungan *Transport, Storage & Communication*	7 Perdagangan Borong dan Runcit dan Restoran dan Hotel *Wholesale & Retail Trade, Hotels & Restaurants*	8 Kewangan, Insurans, Hartanah dan Perkhidmatan Perniagaan [3] *Finance, Insurance Real Estates & Business Services [3]*	9 Perkhidmatan Kerajaan [4] *Government Services [4]*	10 Perkhidmatan-perkhidmatan-Lain [5] *Other Services [5]*	Tolak: Bayaran Perkhidmatan Bank yang Tertaksir *Less: Imputed bank Service Charges*	Campur: Cukai Import *Plus: Import Duties*	KDNK Dalam Nilai Pembeli *GDP at Purchasers' Value*	Perkhidmatan *Services*	*Period*
	RM juta / *RM million*														
1980	10,190	4,487	8,742	2,066	640	2,543	5,384	2,362	4,563	2,342	854	2,046	44,511	17,834	*1980*
1981	10,684	4,289	9,155	2,367	689	2,847	5,694	2,532	5,649	2,485	877	2,087	47,601	19,896	*1981*
1982	11,395	4,617	9,671	2,598	721	2,983	6,104	2,707	6,027	2,658	1,152	2,116	50,445	21,200	*1982*
1983	11,302	5,344	10,429	2,867	798	3,138	6,583	2,926	6,328	2,836	1,397	2,429	53,583	22,609	*1983*
1984	11,624	6,074	11,711	2,988	890	3,464	7,107	3,131	6,817	3,009	1,595	2,522	57,742	24,418	*1984*
1985	11,854	5,958	11,263	2,738	948	3,630	6,911	3,262	6,957	3,133	1,834	2,245	57,065	24,841	*1985*
1986	12,348	6,368	12,111	2,354	1,027	3,851	6,147	5,071	7,253	1,353	1,891	1,759	57,751	24,702	*1986*
1987	13,216	6,409	13,734	2,077	1,109	4,055	6,423	5,482	7,543	1,400	2,235	1,650	60,863	26,012	*1987*
1988	13,933	6,803	16,151	2,133	1,211	4,412	6,988	6,088	7,819	1,455	2,820	2,131	66,304	27,973	*1988*
1989	14,768	7,383	18,444	2,380	1,344	4,839	7,687	6,770	8,185	1,519	3,356	2,442	72,405	30,344	*1989*
1990	14,799	7,760	21,340	2,835	1,526	5,483	8,825	7,759	8,579	1,678	4,076	2,947	79,455	33,850	*1990*
1991	14,828	7,944	24,307	3,240	1,697	6,079	10,068	8,733	8,964	1,831	4,804	3,458	86,345	37,372	*1991*
1992	15,531	8,075	26,859	3,619	1,931	6,481	11,191	9,644	9,201	1,983	5,376	3,727	92,866	40,431	*1992*
1993	16,205	8,039	30,324	4,023	2,176	6,921	12,428	10,650	10,073	2,146	6,411	4,043	100,617	44,394	*1993*
1994	16,047	8,241	34,842	4,589	2,475	7,776	13,427	11,713	11,022	2,298	7,381	4,927	109,975	48,710	*1994*
1995	16,231	8,979	39,790	5,385	2,797	8,852	14,780	12,938	11,454	2,478	8,503	5,090	120,272	53,300	*1995*
1996	16,584	9,381	44,684	6,150	3,134	9,711	16,163	14,825	11,931	2,687	10,032	5,402	130,621	58,452	*1996*
1997	16,805	9,475	50,270	6,732	3,543	10,530	17,289	16,240	12,654	2,879	11,498	5,765	140,684	63,135	*1997*
1998	16,133	9,553	45,155	5,086	3,672	10,652	16,936	16,945	12,953	2,951	12,355	3,577	131,258	64,110	*1998*
1990 suku 1	3,523	1,932	4,952	660	365	1,309	2,047	1,295	2,110	892	896	672	18,861	8,018	*19901st. Qtr.*
suku ke 2	3,653	1,860	4,942	670	375	1,350	2,178	1,425	2,134	910	987	700	19,210	8,372	*2nd. Qtr.*
suku ke 3	3,934	1,984	5,619	730	393	1,411	2,254	1,508	2,157	923	1,068	804	20,649	8,646	*3rd. Qtr.*
suku ke 4	3,690	1,986	5,827	775	392	1,414	2,347	1,551	2,178	931	1,126	772	20,737	8,813	*4th. Qtr.*
1991 suku 1	3,346	1,931	5,710	759	402	1,457	2,330	1,585	2,207	943	1,143	781	20,308	8,924	*1991 1st. Qtr.*
suku ke 2	3,579	1,887	5,611	786	413	1,505	2,452	1,639	2,230	965	1,186	845	20,726	9,204	*2nd. Qtr.*
suku ke 3	4,060	2,058	6,451	858	437	1,546	2,630	1,703	2,252	974	1,223	887	22,633	9,542	*3rd. Qtr.*
suku ke 4	3,843	2,069	6,535	837	445	1,571	2,656	1,769	2,275	985	1,253	946	22,678	9,701	*4th. Qtr.*
1992 suku 1	3,524	2,046	6,302	815	456	1,539	2,680	1,821	2,254	992	1,319	860	21,970	9,742	*1992 1st. Qtr.*
suku ke 2	3,713	1,994	6,388	852	473	1,600	2,699	1,864	2,283	1,005	1,295	951	22,527	9,924	*2nd. Qtr.*
suku ke 3	4,241	1,987	7,023	964	499	1,622	2,889	1,899	2,315	1,038	1,321	969	24,125	10,262	*3rd. Qtr.*
suku ke 4	4,054	2,048	7,145	989	504	1,919	2,923	1,964	2,349	1,041	1,440	948	24,444	10,700	*4th. Qtr.*
1993 suku 1	3,562	2,082	7,037	938	498	1,610	2,930	1,954	2,452	1,050	1,522	853	23,444	10,494	*1993 1st. Qtr.*
suku ke 2	4,001	1,957	7,445	986	537	1,706	3,062	2,164	2,493	1,070	1,587	958	24,792	11,032	*2nd. Qtr.*
suku ke 3	4,427	1,982	7,950	1,023	564	1,788	3,180	2,157	2,539	1,091	1,635	1,067	26,133	11,319	*3rd. Qtr.*
suku ke 4	4,215	2,017	7,893	1,076	578	1,818	3,256	2,217	2,588	1,091	1,666	1,167	26,250	11,548	*4th. Qtr.*
1994 suku 1	3,581	2,021	8,009	1,066	574	1,787	3,200	2,212	2,670	1,109	1,763	1,052	25,518	11,552	*1994 1st. Qtr.*
suku ke 2	3,861	2,004	8,534	1,130	605	1,892	3,335	2,363	2,733	1,121	1,820	1,308	27,066	12,049	*2nd. Qtr.*
suku ke 3	4,348	2,124	9,156	1,151	638	2,024	3,449	2,396	2,787	1,142	1,874	1,225	28,566	12,436	*3rd. Qtr.*
suku ke 4	4,257	2,092	9,083	1,241	658	2,072	3,444	2,518	2,833	1,147	1,924	1,344	28,765	12,672	*4th. Qtr.*
1995 suku 1	3,817	2,190	9,156	1,271	650	2,044	3,421	2,467	2,815	1,149	2,058	1,218	28,140	12,546	*1995 1st. Qtr.*
suku ke 2	3,972	2,176	9,993	1,318	695	2,234	3,756	2,596	2,863	1,191	2,108	1,318	30,004	13,335	*2nd. Qtr.*
suku ke 3	4,329	2,259	10,406	1,392	719	2,274	3,832	2,730	2,903	1,212	2,150	1,338	31,244	13,670	*3rd. Qtr.*
suku ke 4	4,113	2,354	10,236	1,403	734	2,300	3,771	2,854	2,874	1,216	2,190	1,219	30,884	13,749	*4th. Qtr.*
1996 suku 1	3,567	2,396	10,158	1,333	717	2,276	3,660	2,961	2,922	1,223	2,403	1,249	30,059	13,759	*1996 1st. Qtr.*
suku ke 2	4,175	2,328	11,987	1,472	773	2,312	4,126	3,092	2,957	1,251	2,462	1,277	32,288	14,511	*2nd. Qtr.*
suku ke 3	4,555	2,302	11,730	1,628	822	2,480	4,202	3,122	3,000	1,276	2,537	1,398	33,978	14,902	*3rd. Qtr.*
suku ke 4	4,287	2,355	11,809	1,717	822	2,644	4,176	3,290	3,052	1,295	2,630	1,479	34,296	15,279	*4th. Qtr.*
1997 suku 1	3,706	2,411	11,581	1,626	821	2,441	4,056	3,194	3,111	1,286	2,740	1,345	32,838	14,909	*1997 1st. Qtr.*
suku ke 2	4,263	2,334	12,484	1,637	884	2,586	4,331	3,431	3,156	1,330	2,838	1,388	34,986	15,718	*2nd. Qtr.*
suku ke 3	4,619	2,270	13,106	1,733	918	2,769	4,469	3,502	3,186	1,352	2,924	1,510	36,510	16,196	*3rd. Qtr.*
suku ke 4	4,216	2,461	13,098	1,736	919	2,735	4,433	3,686	3,201	1,340	2,996	1,522	36,351	16,314	*4th. Qtr.*
1998 suku 1	3,561	2,421	11,373	1,302	873	2,539	4,015	3,450	3,173	1,299	2,965	882	31,923	15,348	*1998 1st. Qtr.*
suku ke 2	3,854	2,320	11,373	1,277	939	2,638	4,244	3,565	3,235	1,357	3,065	888	32,624	15,977	*2nd. Qtr.*
suku ke 3	4,517	2,309	11,206	1,244	927	2,725	4,313	3,607	3,256	1,399	3,129	846	33,220	16,227	*3rd. Qtr.*
suku ke 4	4,203	2,503	11,186	1,252	931	2,746	4,362	3,830	3,291	1,387	3,212	913	33,391	16,546	*4th. Qtr.*

1 Data tahunan bagi tempoh 1980-1997 dan data sukuan bagi tempoh 1990-1997 adalah dikumpul oleh Jabatan Perangkaan Malaysia.
2 Mulai tahun 1983, ianya termasuk gas asli cecair.
3 Termasuk kediaman-kediaman yang didiami oleh pemilik, manakala perkhidmatan perniagaan termasuk akauntan, akitek, peguam, pengiklanan dll.
4 Termasuk perkhidmatan awam (pentadbiran awam, hal ehwal luar serta keamanan dan keselamatan awam), pertahanan, kesihatan, pendidikan dan lain-lain.
5 Termasuk perkhidmatan kemasyarakatan, sosial dan persendirian (sekolah swasta, doktor, klinik, pembaik-pulih radio dan TV, perpustakaan dll), keluaran swasta tanpa keuntungan yang memberi khidmat kepada isi rumah dan perkhidmatan rumah tangga kepada isi rumah.
6 Jumlah suku tahunan tidak semestinya sama dengan jumlah tahunan disebabkan oleh pindaan dan penghampiran angka

1 Yearly figures for 1980-1997 and quarterly figures for 1990-1997 are compiled by the Department of Statistics.
2 Include LNG since 1983.
3 Include owner occupied dwellings, while business services include accountants, architects, lawyers, advertising e.t.c.
4 Include general public services (general public administration, external affairs and public order safety), defence, health, education and others.
5 Include community, social and personal services (private school, doctors, clinics, radio & TV, library, repairs e.t.c), products of private non-profit services to households and domestic services of households.
6 Quarterly total may not necessarily add up to annual total due to revision and rounding

VI.2 Keluaran Dalam Negeri Kasar mengikut Jenis Aktiviti Ekonomi pada Harga Tahun 1978[1]

Gross Domestic Product by Kind of Economic Activity at 1978 Prices[1]

Tempoh	1 Pertanian, Perhutanan dan Perikanan *Agriculture Forestry & Fishing*	2 Perlombongan dan Kuari [2] *Mining & Quarrying [2]*	3 Pembuatan *Manufacturing*	4 Pembinaan *Construction*	5 Elektrik, gas dan air *Electricity Gas & Water*	6 Pengangkutan, penyimpanan dan Perhubungan *Transport, Storage & Communication*	7 Perdagangan Borong dan Runcit dan Restoran dan Hotel *Wholesale & Retail Trade, Hotels & Restaurants*	8 Kewangan, Insurans, Hartanah dan Perkhidmatan Perniagaan [3] *Finance, Insurance Real Estates & Business Services [3]*	9 Perkhidmatan Kerajaan [4] *Government Services [4]*	10 Perkhidmatan-perkhidmatan-Lain [5] *Other Services [5]*	Tolak: Bayaran Perkhidmatan Bank yang Tertaksir *Less: Imputed bank Service Charges*	Campur: Cukai Import *Plus: Import Duties*	KDNK Dalam Nilai Pembeli *GDP at Purchasers' Value*	Perkhidmatan *Services*	*Period*
	Perubahan tahunan dalam % / *Annual change in %*														
1980	1.3	-2.2	9.2	17.3	9.6	20.7	15.3	7.3	4.3	7.5	16.5	25.3	7.4	10.7	*1980*
1981	4.8	-4.4	4.7	14.6	7.7	12.0	5.8	7.2	23.8	6.1	2.7	2.0	6.9	11.6	*1981*
1982	6.7	7.6	5.6	9.8	4.6	4.8	7.2	6.9	6.7	7.0	31.4	1.4	6.0	6.6	*1982*
1983	-0.8	15.7	7.8	10.4	10.7	5.2	7.8	8.1	5.0	6.7	21.3	14.8	6.2	6.6	*1983*
1984	2.8	13.7	12.3	4.2	11.5	10.4	8.0	7.0	7.7	6.1	14.2	3.8	7.8	8.0	*1984*
1985	2.0	-1.9	-3.8	-8.4	6.5	4.8	-2.8	4.2	2.1	4.1	15.0	-11.0	-1.2	1.7	*1985*
1986	4.2	6.9	7.5	-14.0	8.3	6.1	-11.1	55.5	4.3	-56.8	3.1	-21.6	1.2	-0.6	*1986*
1987	7.0	0.6	13.4	-11.8	8.0	5.3	4.5	8.1	4.0	3.5	18.2	-6.2	5.4	5.3	*1987*
1988	5.4	6.1	17.6	2.7	9.2	8.8	8.8	11.1	3.7	3.9	26.2	29.2	8.9	7.5	*1988*
1989	6.0	8.5	14.2	11.6	11.0	9.7	10.0	11.2	4.7	4.4	19.0	14.6	9.2	8.5	*1989*
1990	0.2	5.1	15.7	19.1	13.5	13.3	14.8	14.7	4.8	10.5	21.5	20.7	9.7	11.6	*1990*
1991	0.2	2.4	13.9	14.3	11.2	10.9	14.1	12.6	4.5	9.1	17.9	17.3	8.7	10.4	*1991*
1992	4.7	1.7	10.5	11.7	13.8	6.6	11.1	10.4	2.6	8.3	11.9	7.8	7.6	8.2	*1992*
1993	4.3	-0.5	12.9	11.2	12.7	6.8	11.1	10.4	9.5	8.2	19.3	8.5	8.3	9.8	*1993*
1994	-1.0	2.5	14.9	14.1	13.7	12.3	8.0	10.0	9.4	7.1	15.1	21.9	9.3	9.7	*1994*
1995	1.1	8.9	14.2	17.3	13.1	13.8	10.1	10.5	3.9	7.8	15.2	3.3	9.4	9.4	*1995*
1996	2.2	4.5	12.3	14.2	12.0	9.7	9.4	14.6	4.2	8.4	18.0	6.1	8.6	9.7	*1996*
1997	1.3	1.0	12.5	9.5	13.0	8.4	7.0	9.5	6.1	7.2	14.6	6.7	7.7	8.0	*1997*
1998	-4.0	0.8	-10.2	-24.5	3.6	1.2	-2.0	4.4	2.4	2.5	7.5	-38.0	-6.7	1.5	*1998*
1990 suku 1	8.5	6.9	14.8	10.7	16.2	12.7	14.9	11.5	4.9	4.4	11.9	16.7	10.8	10.1	*1990 1st. Qtr.*
suku ke 2	5.3	5.6	11.9	25.0	13.0	14.4	22.4	18.8	4.9	5.4	18.6	15.5	10.7	13.3	*2nd. Qtr.*
suku ke 3	-1.8	8.0	16.7	23.1	13.3	14.5	14.4	22.7	4.8	6.6	25.1	32.9	10.4	12.2	*3rd. Qtr.*
suku ke 4	-8.7	0.5	19.0	18.5	11.4	11.8	8.9	24.2	4.6	7.3	29.7	17.9	7.3	10.6	*4th. Qtr.*
1991 suku 1	-5.0	-0.1	15.3	15.0	10.1	11.3	13.8	22.4	4.6	5.7	27.6	16.2	7.7	11.3	*1991 1st. Qtr.*
suku ke 2	-2.0	1.5	13.5	17.3	10.1	11.5	12.6	15.0	4.5	6.0	20.2	20.7	7.9	9.9	*2nd. Qtr.*
suku ke 3	3.2	3.7	14.8	17.5	11.2	9.6	16.7	12.9	4.4	5.5	14.5	10.3	9.6	10.4	*3rd. Qtr.*
suku ke 4	4.1	4.2	12.2	8.0	13.5	11.1	13.2	14.1	4.5	5.8	11.3	22.5	9.4	10.1	*4th. Qtr.*
1992 suku 1	5.3	6.0	10.4	7.4	13.4	5.6	15.0	14.9	2.1	5.2	15.4	10.1	8.2	9.2	*1992 1st. Qtr.*
suku ke 2	3.7	5.7	13.8	8.4	14.5	6.3	10.1	13.7	2.4	4.1	9.2	12.5	8.7	7.8	*2nd. Qtr.*
suku ke 3	4.5	-3.4	8.9	12.4	14.2	4.9	9.8	11.5	2.8	6.6	8.0	9.2	6.6	7.5	*3rd. Qtr.*
suku ke 4	5.5	-1.0	9.3	18.2	13.3	22.2	10.1	11.0	3.3	5.7	14.9	0.2	7.8	10.3	*4th. Qtr.*
1993 suku 1	1.1	1.8	11.7	15.1	9.2	4.6	9.3	7.3	8.8	5.8	15.4	-0.8	6.7	7.7	*1993 1st. Qtr.*
suku ke 2	7.8	-1.9	16.5	15.7	13.5	6.6	13.4	16.1	9.2	6.5	22.5	0.7	10.1	11.2	*2nd. Qtr.*
suku ke 3	4.4	-0.3	13.2	6.1	12.9	10.2	10.1	13.6	9.7	5.1	23.8	10.1	8.3	10.3	*3rd. Qtr.*
suku ke 4	4.0	-1.5	10.5	8.8	14.7	-5.3	11.4	12.9	10.2	4.8	15.7	23.1	7.4	7.9	*4th. Qtr.*
1994 suku 1	0.5	-2.9	13.8	13.6	15.3	11.0	9.2	13.2	8.9	5.6	15.8	23.3	8.8	10.1	*1994 1st. Qtr.*
suku ke 2	-3.5	2.4	14.6	14.6	12.6	10.9	8.9	9.2	9.6	4.8	14.7	36.6	9.2	9.2	*2nd. Qtr.*
suku ke 3	-1.8	7.2	15.2	12.5	13.1	13.2	8.5	11.1	9.8	4.7	14.6	14.8	9.3	9.9	*3rd. Qtr.*
suku ke 4	1.0	3.7	15.1	15.3	13.8	14.0	5.8	13.6	9.5	5.1	15.5	15.2	9.6	9.7	*4th. Qtr.*
1995 suku 1	6.6	8.0	13.9	19.3	13.1	14.3	6.9	11.5	5.4	3.8	16.9	15.6	10.1	8.6	*1995 1st. Qtr.*
suku ke 2	2.9	8.3	16.6	16.6	14.7	18.1	12.6	9.9	4.8	5.9	15.7	0.8	10.7	10.6	*2nd. Qtr.*
suku ke 3	-0.4	6.4	13.4	20.9	12.7	12.3	11.1	13.9	4.2	6.1	14.7	9.2	9.3	9.9	*3rd. Qtr.*
suku ke 4	-3.4	13.1	13.0	13.0	11.8	11.1	9.6	13.4	1.4	5.9	13.7	-9.2	7.5	8.5	*4th. Qtr.*
1996 suku 1	-6.5	9.4	10.9	4.9	10.3	11.4	7.0	20.0	3.8	6.4	16.8	2.5	6.8	9.7	*1996 1st. Qtr.*
suku ke 2	5.1	7.0	9.9	11.7	11.2	3.5	9.9	19.1	3.3	5.0	16.8	-3.1	7.6	8.8	*2nd. Qtr.*
suku ke 3	5.2	1.9	12.7	17.0	14.3	9.1	9.7	14.4	3.3	5.3	18.0	4.5	8.8	9.0	*3rd. Qtr.*
suku ke 4	4.2	0.0	15.4	22.4	12.0	15.0	10.7	15.3	6.2	6.5	20.1	21.3	11.0	11.1	*4th. Qtr.*
1997 suku 1	3.9	0.6	14.0	22.0	14.5	7.2	10.8	7.9	6.5	5.2	14.0	7.7	9.2	8.4	*1997 1st. Qtr.*
suku ke 2	2.1	0.3	13.6	11.2	14.4	11.9	5.0	11.0	6.7	6.3	15.3	8.7	8.4	8.3	*2nd. Qtr.*
suku ke 3	1.4	-1.4	11.7	6.4	11.7	11.7	6.4	12.2	6.2	6.0	15.3	8.0	7.5	8.7	*3rd. Qtr.*
suku ke 4	-1.7	4.5	10.9	1.1	11.8	3.4	6.2	12.0	4.9	3.5	13.9	2.9	6.0	6.8	*4th. Qtr.*
1998 suku 1	-3.9	0.4	-1.8	-19.9	6.3	4.0	-1.0	8.0	2.0	1.0	8.2	-34.4	-2.8	3.0	*1998 1st. Qtr.*
suku ke 2	-9.6	-0.6	-8.9	-22.0	6.2	2.0	-2.0	3.9	2.5	2.0	8.0	-36.0	-6.8	1.7	*2nd. Qtr.*
suku ke 3	-2.2	1.7	-14.5	-28.2	1.0	-1.6	-3.5	3.0	2.2	3.5	7.0	-44.0	-9.0	0.2	*3rd. Qtr.*
suku ke 4	-0.3	1.8	-14.6	-27.9	0.9	0.4	-1.6	2.7	2.8	3.5	6.8	-37.6	-8.1	1.1	*4th. Qtr.*

[1] Data tahunan bagi tempoh 1980-1997 dan data sukuan bagi tempoh 1990-1997 adalah dikumpul oleh Jabatan Perangkaan.
[2] Mulai tahun 1983, ianya termasuk gas asli cecair.
[3] Termasuk kediaman-kediaman yang didiami oleh pemilik, manakala perkhidmatan perniagaan termasuk akauntan, akitek, peguam, pengiklanan dll.
[4] Termasuk perkhidmatan awam (pentadbiran awam, hal ehwal luar serta keamanan dan keselamatan awam), pertahanan, kesihatan, pendidikan dan lain-lain.
[5] Termasuk perkhidmatan kemasyarakatan, sosial dan persendirian (sekolah swasta, doktor, klinik, pembaik-pulih radio dan TV, perpustakaan dll), keluaran swasta tanpa keuntungan yang memberi khidmat kepada isi rumah dan perkhidmatan rumah tangga kepada isi rumah.
[6] Jumlah suku tahunan tidak semestinya sama dengan jumlah tahunan disebabkan oleh pindaan dan penghampiran angka.

[1] *Yearly figures for 1980-1997 and quarterly figures for 1990-1997 are compiled by the Department of Statistics.*
[2] *Include LNG since 1983.*
[3] *Include owner occupied dwellings, while business services include accountants, architects, lawyers, advertising e.t.c.*
[4] *Include general public services (general public administration, external affairs and public order safety), defence, health, education and others.*
[5] *Include community, social and personal services (private school, doctors, clinics, radio & TV, library, repairs e.t.c), products of private non-profit services to households and domestic services of households.*
[6] *Quarterly total may not necessarily add up to annual total due to revision and rounding.*