

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Malaysia, 1982–2023

Table 14: Employed persons by educational attainment, Malaysia, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	5,249.0	830.7	2,237.5	1,861.9	318.2
1983	5,457.0	818.3	2,270.8	2,039.9	327.9
1984	5,566.7	829.1	2,213.1	2,167.8	356.7
1985	5,653.4	796.0	2,243.8	2,227.7	385.9
1986	5,760.1	759.0	2,232.9	2,340.1	428.1
1987	5,983.9	750.9	2,232.3	2,541.3	459.4
1988	6,157.2	726.9	2,292.7	2,654.6	483.0
1989	6,390.9	711.0	2,260.9	2,896.0	523.0
1990	6,685.0	657.6	2,311.0	3,129.2	587.3
1992	7,047.8	645.4	2,165.1	3,525.0	712.3
1993	7,383.4	615.6	2,280.4	3,737.1	750.3
1995	7,645.0	666.0	2,139.0	3,987.4	852.1
1996	8,399.3	662.4	2,391.1	4,341.9	1,003.8
1997	8,569.2	621.9	2,391.4	4,458.6	1,097.2
1998	8,599.6	604.4	2,358.9	4,505.3	1,131.0
1999	8,837.8	585.1	2,332.9	4,755.4	1,164.4
2000	9,269.2	521.8	2,336.9	5,071.7	1,338.7
2001	9,357.0	484.4	2,291.1	5,135.3	1,441.7
2002	9,542.6	509.6	2,279.6	5,163.3	1,588.4
2003	9,869.7	474.8	2,244.7	5,424.1	1,724.7
2004	9,979.5	472.1	2,199.9	5,469.2	1,832.2
2005	10,045.4	466.8	2,102.6	5,565.6	1,908.1
2006	10,275.4	393.0	2,131.7	5,774.3	1,975.2
2007	10,538.1	424.8	2,064.9	5,917.4	2,121.9
2008	10,659.6	474.7	1,978.4	5,961.8	2,244.7
2009	10,897.3	426.0	1,922.2	6,008.1	2,541.0
2010	11,899.5	436.1	2,125.1	6,549.6	2,788.6
2011	12,351.5	401.3	2,129.8	6,833.3	2,987.1
2012	12,820.5	399.7	2,206.4	7,128.1	3,086.3
2013	13,545.4	417.4	2,346.8	7,534.6	3,246.6
2014	13,852.6	383.8	2,236.2	7,654.2	3,578.4
2015	14,067.7	431.7	2,195.8	7,587.0	3,853.3
2016	14,163.7	377.4	2,078.6	7,812.2	3,895.6
2017	14,476.8	379.7	1,956.3	8,079.3	4,061.5
2018	14,776.0	401.5	1,928.5	8,216.5	4,229.4
2019	15,073.4	442.0	1,821.2	8,375.0	4,435.2
2020 ^f	14,719.4	294.9	1,370.1	8,215.3	4,839.0
2021 ^f	14,825.2	415.6	1,111.6	8,145.4	5,152.5
2022 ^f	15,155.2	332.6	1,215.0	8,239.6	5,368.1
2023	15,813.4	378.2	1,268.1	8,558.0	5,609.1

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Johor, 1982–2023

Table 14: Employed persons by educational attainment, Johor, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	630.2	70.8	312.7	214.3	32.3
1983	623.7	75.1	307.0	214.9	26.7
1984	657.3	64.7	306.8	249.3	36.5
1985	672.7	60.3	314.5	256.3	41.7
1986	700.4	60.5	310.0	288.2	41.7
1987	732.7	66.1	304.3	313.4	48.9
1988	792.0	64.0	334.8	341.0	52.2
1989	822.3	59.9	335.0	372.0	55.3
1990	914.1	55.6	365.3	425.7	67.5
1992	926.0	53.9	321.1	474.8	76.2
1993	974.3	43.3	357.3	490.6	83.0
1995	891.8	47.8	256.6	507.0	80.3
1996	996.7	38.0	305.2	558.3	95.1
1997	1,058.4	42.0	320.6	594.3	101.6
1998	1,027.0	31.7	294.4	605.5	95.4
1999	1,029.0	47.5	279.9	612.0	89.6
2000	1,195.4	35.2	313.2	730.2	116.8
2001	1,235.9	42.1	303.9	758.4	129.5
2002	1,222.3	40.0	299.4	742.6	139.7
2003	1,269.1	39.7	309.3	761.2	158.9
2004	1,232.6	36.0	285.9	748.0	162.8
2005	1,237.1	33.2	266.2	755.2	182.5
2006	1,258.1	27.7	268.0	770.0	192.5
2007	1,286.7	29.2	238.0	818.3	201.1
2008	1,283.8	35.7	242.5	777.2	228.3
2009	1,306.3	30.9	218.6	807.6	249.1
2010	1,418.8	19.5	243.7	910.2	245.4
2011	1,461.9	16.1	235.5	941.4	268.9
2012	1,481.5	18.4	214.6	972.5	275.9
2013	1,553.4	19.1	228.8	1,012.4	293.0
2014	1,579.7	15.8	229.6	1,004.4	329.9
2015	1,582.6	25.2	217.8	990.8	348.9
2016	1,580.6	20.1	210.7	1,011.5	338.4
2017	1,616.7	16.2	214.1	1,004.6	381.9
2018	1,693.3	19.7	211.6	1,033.7	428.1
2019	1,756.1	24.8	218.4	1,092.4	420.5
2020 ^f	1,920.5	21.3	148.1	1,288.1	463.0
2021 ^f	1,913.2	40.5	133.6	1,197.4	541.8
2022 ^f	1,949.2	24.3	141.8	1,275.4	507.6
2023	2,017.9	36.6	154.4	1,267.3	559.6

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Kedah, 1982–2023

Table 14: Employed persons by educational attainment, Kedah, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	389.0	77.5	194.9	100.2	16.3
1983	373.6	75.1	174.7	103.2	20.6
1984	417.6	74.4	196.5	124.1	22.6
1985	413.8	66.8	197.8	126.2	23.1
1986	418.0	65.3	185.8	141.6	25.2
1987	420.1	62.2	179.8	152.3	25.9
1988	459.3	66.2	194.2	170.3	26.4
1989	443.3	59.8	179.8	176.5	27.2
1990	467.6	49.7	183.3	199.5	35.1
1992	495.0	48.9	187.1	222.6	36.5
1993	475.1	42.5	183.4	208.3	40.9
1995	521.1	49.9	180.3	248.2	42.8
1996	535.9	47.5	190.1	258.3	40.0
1997	601.3	54.1	204.6	290.4	52.2
1998	567.3	38.6	176.3	292.5	59.7
1999	678.7	59.6	210.1	339.5	69.4
2000	626.5	34.1	169.5	342.7	80.2
2001	701.1	30.0	195.9	395.7	79.1
2002	645.1	32.1	178.8	358.3	75.9
2003	657.7	30.1	156.1	373.9	97.4
2004	654.5	23.6	161.4	380.5	89.1
2005	652.8	24.6	150.0	378.5	99.6
2006	656.8	20.7	143.0	391.2	101.7
2007	670.4	23.8	137.8	398.9	109.8
2008	676.0	24.3	135.7	385.5	130.5
2009	701.5	19.7	127.9	405.4	148.5
2010	725.7	15.3	132.8	432.8	144.7
2011	743.4	15.0	135.7	437.2	155.4
2012	786.9	21.8	150.7	473.0	141.4
2013	842.3	21.8	158.2	500.2	162.1
2014	859.8	18.8	131.6	513.1	196.3
2015	881.6	27.3	125.5	526.9	201.8
2016	884.3	22.9	124.8	531.0	205.6
2017	906.3	14.5	112.7	568.4	210.7
2018	909.2	16.0	105.5	552.7	235.0
2019	923.6	15.4	96.7	579.7	231.9
2020 ^f	867.0	16.4	79.2	527.3	244.1
2021 ^f	880.1	25.7	65.2	520.1	269.1
2022 ^f	900.4	16.2	58.9	551.1	274.3
2023	927.5	24.6	55.1	562.1	285.7

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Kelantan, 1982–2023

Table 14: Employed persons by educational attainment, Kelantan, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	304.3	99.1	116.2	72.3	16.7
1983	282.5	81.6	103.1	75.8	21.9
1984	322.3	100.8	109.6	89.4	22.6
1985	323.6	98.8	113.3	89.2	22.3
1986	340.2	82.9	127.8	104.1	25.4
1987	350.5	88.6	118.3	114.8	28.9
1988	363.4	88.9	124.1	120.8	29.5
1989	363.8	81.4	116.9	133.7	31.8
1990	377.7	74.9	123.1	143.1	36.5
1992	382.5	72.1	113.3	152.5	44.6
1993	394.4	70.2	117.8	161.3	45.1
1995	412.7	62.4	124.0	176.9	49.3
1996	445.5	76.1	123.6	190.8	55.0
1997	413.7	65.3	114.3	182.3	51.7
1998	430.7	62.5	123.0	193.5	51.8
1999	436.8	58.8	123.2	199.5	55.3
2000	425.7	49.9	115.8	206.9	53.2
2001	434.3	46.8	112.5	212.4	62.5
2002	422.7	45.6	104.2	211.5	61.5
2003	475.7	38.9	114.4	244.3	78.1
2004	436.6	32.0	100.0	229.4	75.1
2005	438.8	36.1	95.2	235.0	72.6
2006	458.4	29.7	97.9	249.9	80.9
2007	473.1	31.7	100.2	255.4	85.7
2008	486.4	32.7	85.7	259.2	108.8
2009	505.2	31.3	82.9	281.6	109.4
2010	534.2	32.1	97.7	290.4	114.0
2011	544.6	29.3	88.4	299.6	127.2
2012	578.7	32.3	102.5	316.9	127.0
2013	602.7	31.5	83.2	358.1	130.0
2014	625.2	27.3	83.5	364.9	149.5
2015	652.1	33.0	74.1	373.1	171.9
2016	632.9	34.3	62.9	365.0	170.8
2017	676.0	29.3	70.7	401.7	174.4
2018	683.3	28.5	57.6	403.2	194.0
2019	682.4	26.0	52.2	410.5	193.6
2020 ^f	617.9	24.4	48.2	363.8	181.6
2021 ^f	618.2	17.5	46.1	370.7	183.9
2022 ^f	634.4	22.1	43.2	364.1	205.0
2023	661.1	17.2	38.5	368.8	236.6

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Melaka, 1982–2023

Table 14: Employed persons by educational attainment, Melaka, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	167.2	17.4	71.5	68.1	10.2
1983	165.5	12.3	76.4	66.5	10.3
1984	162.5	16.6	70.1	66.3	9.6
1985	170.1	16.0	69.5	73.9	10.7
1986	169.8	13.9	70.1	72.1	13.7
1987	176.7	13.6	74.0	75.3	13.8
1988	175.4	13.2	69.2	78.3	14.8
1989	185.9	10.4	68.8	91.1	15.6
1990	180.0	8.8	64.0	87.7	19.5
1992	207.4	10.2	69.2	110.5	17.5
1993	218.5	11.4	70.2	124.8	12.1
1995	222.8	9.8	60.0	131.4	21.5
1996	237.0	8.3	64.6	141.4	22.7
1997	257.1	11.2	66.2	147.3	32.4
1998	242.4	6.3	64.3	140.8	31.1
1999	243.1	6.2	57.9	148.0	31.1
2000	253.5	7.0	49.9	167.4	29.3
2001	267.7	4.9	48.6	179.5	34.8
2002	229.3	5.8	42.7	143.8	37.1
2003	272.7	6.3	48.8	177.1	40.2
2004	265.1	6.0	45.3	169.1	44.6
2005	271.1	7.4	44.5	171.9	47.3
2006	273.1	3.9	45.0	169.5	54.7
2007	284.3	5.9	44.1	171.9	62.4
2008	286.8	4.4	41.7	173.7	67.1
2009	284.0	6.3	37.4	171.6	68.7
2010	335.1	4.9	47.1	205.8	77.3
2011	340.8	4.2	43.0	210.4	83.2
2012	357.0	4.3	48.1	216.9	87.7
2013	375.5	3.8	48.7	233.5	89.4
2014	394.9	2.5	44.0	243.0	105.5
2015	398.3	4.7	36.7	240.7	116.3
2016	397.3	3.6	34.8	243.2	115.6
2017	406.2	4.0	30.3	237.4	134.6
2018	416.7	3.3	28.8	242.0	142.6
2019	428.3	2.8	30.3	245.1	150.2
2020 ^f	453.8	2.8	36.3	248.6	166.1
2021 ^f	469.6	8.5	30.9	256.6	173.6
2022 ^f	486.3	5.0	24.1	290.7	166.5
2023	499.8	4.2	26.5	281.2	187.9

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Negeri Sembilan, 1982–2023

Table 14: Employed persons by educational attainment, Negeri Sembilan, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	216.3	20.6	108.3	74.3	13.1
1983	215.0	15.6	98.7	88.6	12.1
1984	223.3	18.3	103.8	86.5	14.8
1985	210.8	14.9	102.1	81.6	12.1
1986	213.5	15.6	99.7	83.9	14.3
1987	221.7	17.7	96.9	92.3	14.8
1988	228.0	13.3	96.4	103.0	15.3
1989	229.3	13.2	92.2	110.6	13.3
1990	216.0	12.8	91.6	95.4	16.1
1992	251.4	11.1	95.0	124.1	21.1
1993	284.4	13.7	91.8	144.4	34.5
1995	296.2	16.7	99.2	152.0	28.3
1996	319.3	12.4	101.1	175.6	30.3
1997	307.6	12.2	92.0	170.1	33.3
1998	304.4	13.5	86.4	168.1	36.5
1999	274.8	7.3	76.7	158.4	32.4
2000	347.4	10.9	87.2	203.4	46.0
2001	351.3	8.8	97.1	194.2	51.2
2002	324.8	10.4	83.7	184.9	45.9
2003	340.0	8.5	85.3	193.1	53.1
2004	360.3	8.1	82.0	209.6	60.7
2005	372.8	7.2	76.8	223.0	65.7
2006	378.7	7.4	78.8	223.0	69.6
2007	381.6	7.8	73.5	225.0	75.3
2008	387.1	9.0	71.6	228.9	77.6
2009	386.5	6.8	74.7	219.0	86.0
2010	405.4	7.1	76.0	230.1	92.1
2011	416.1	7.7	69.4	245.3	93.7
2012	442.1	8.6	78.8	260.4	94.3
2013	464.1	9.3	86.7	260.2	107.9
2014	466.5	6.4	81.4	259.9	118.7
2015	468.7	6.4	77.4	269.4	115.5
2016	466.9	4.1	77.3	260.5	125.1
2017	477.3	3.2	54.7	280.8	138.7
2018	488.6	4.8	57.1	282.9	143.9
2019	482.5	4.1	38.1	291.8	148.6
2020 ^f	511.2	4.4	39.9	291.7	175.2
2021 ^f	505.6	10.7	27.6	294.5	172.8
2022 ^f	517.0	4.9	30.3	287.3	194.6
2023	536.1	4.1	31.5	287.0	213.5

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Pahang, 1982–2023Table 14: *Employed persons by educational attainment, Pahang, 1982-2023*

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	270.2	30.6	136.3	88.2	15.0
1983	333.5	34.1	168.0	114.8	16.6
1984	306.9	35.6	141.2	114.9	15.3
1985	327.8	35.8	152.5	122.2	16.9
1986	315.4	32.3	148.5	115.1	19.4
1987	335.9	31.2	152.0	129.7	23.0
1988	351.5	32.3	161.9	139.2	18.0
1989	379.1	32.3	158.4	162.9	25.6
1990	428.8	27.6	180.4	183.6	37.2
1992	417.0	32.8	157.4	195.1	31.6
1993	378.7	29.9	139.1	176.5	33.1
1995	371.4	36.1	133.0	172.2	30.1
1996	406.2	33.5	136.8	197.4	38.4
1997	395.4	27.0	140.3	188.3	39.9
1998	364.9	22.5	123.5	185.0	33.9
1999	384.4	17.5	134.2	199.2	33.5
2000	446.8	22.9	159.3	212.3	52.3
2001	437.8	23.8	142.1	224.1	47.6
2002	406.9	21.1	123.9	215.5	46.5
2003	460.0	21.7	136.1	245.3	56.9
2004	526.2	29.2	144.9	289.3	62.8
2005	524.7	27.9	130.9	302.6	63.3
2006	557.4	22.4	142.6	323.5	68.9
2007	561.9	26.8	138.0	314.4	82.6
2008	589.8	25.5	135.3	336.7	92.4
2009	603.7	23.9	137.6	335.3	106.9
2010	591.0	17.4	123.4	341.9	108.3
2011	608.4	14.8	116.2	363.0	114.3
2012	633.1	15.1	125.2	368.2	124.6
2013	659.8	17.8	139.2	371.1	131.7
2014	683.2	14.5	137.8	387.5	143.3
2015	697.5	19.6	129.2	395.8	153.0
2016	692.2	18.1	111.3	397.2	165.6
2017	690.2	14.7	105.9	414.7	154.8
2018	716.6	13.3	106.2	427.4	169.6
2019	719.5	12.4	100.2	423.2	183.6
2020 ^f	681.2	14.4	88.5	393.9	184.4
2021 ^f	672.1	17.3	66.8	381.1	206.9
2022 ^f	692.3	11.1	64.9	439.0	177.2
2023	720.9	7.1	71.3	429.7	212.8

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"*Total includes "unknown" educational attainment***2. ^f Semakan semula berdasarkan anggaran penduduk semasa***^f Revision based on the current population estimates*

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Pulau Pinang, 1982–2023

Table 14: Employed persons by educational attainment, Pulau Pinang, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	382.3	28.2	162.0	169.0	23.1
1983	404.8	26.3	165.2	187.2	26.2
1984	383.7	26.3	149.2	182.5	25.7
1985	388.1	22.7	143.6	191.8	30.0
1986	391.4	20.8	138.3	200.5	31.8
1987	404.8	23.0	138.2	216.6	27.1
1988	398.9	16.6	133.5	214.3	34.6
1989	436.3	19.0	139.7	240.5	37.0
1990	457.2	16.0	135.4	266.3	39.6
1992	512.6	16.5	118.2	323.8	54.1
1993	531.0	24.3	104.6	347.7	54.3
1995	485.8	15.9	87.9	324.8	57.0
1996	449.4	10.7	74.9	308.7	55.2
1997	552.0	15.3	110.8	352.4	73.6
1998	585.2	17.3	129.6	356.3	82.0
1999	602.9	19.1	112.9	379.3	91.4
2000	669.2	19.6	130.4	417.0	102.2
2001	714.9	15.1	143.9	429.9	126.0
2002	643.1	16.5	109.6	393.7	123.1
2003	674.4	12.3	109.2	420.4	132.4
2004	625.0	11.7	113.9	383.4	115.8
2005	621.5	11.4	100.8	368.4	139.7
2006	647.7	10.9	101.1	390.4	145.1
2007	653.5	10.8	96.7	392.5	153.3
2008	674.9	11.2	97.4	394.9	171.5
2009	689.8	11.0	93.2	405.3	180.2
2010	742.3	9.2	98.9	440.3	193.9
2011	772.8	9.2	99.6	457.8	206.1
2012	779.8	8.3	104.3	458.6	208.6
2013	811.9	9.3	111.3	483.0	208.3
2014	839.2	7.9	85.3	509.2	236.8
2015	834.2	6.4	84.5	491.2	252.1
2016	827.4	5.7	70.3	484.9	266.5
2017	823.8	7.2	77.3	475.3	263.9
2018	830.8	13.0	72.1	472.1	273.6
2019	835.6	4.9	68.3	477.4	284.9
2020 ^f	836.0	5.0	43.1	477.9	310.0
2021 ^f	854.3	16.8	36.8	512.9	287.7
2022 ^f	871.0	8.1	47.2	513.6	302.0
2023	905.6	13.2	45.5	510.4	336.5

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Perak, 1982–2023

Table 14: Employed persons by educational attainment, Perak, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	604.0	73.5	302.6	199.3	28.5
1983	669.2	85.3	309.3	247.3	27.3
1984	659.6	81.2	306.2	239.7	32.4
1985	669.6	78.7	301.7	252.3	36.6
1986	669.9	75.0	296.0	258.0	40.8
1987	670.5	66.0	291.6	271.7	41.1
1988	656.7	61.4	280.7	272.7	41.9
1989	686.7	59.2	288.8	294.5	44.3
1990	678.2	63.5	269.7	301.7	43.3
1992	692.9	53.0	264.7	319.7	55.5
1993	669.8	41.0	267.0	311.4	50.4
1995	634.3	39.7	230.6	319.0	45.1
1996	723.0	43.8	247.3	380.1	51.9
1997	744.2	40.7	221.9	413.2	68.3
1998	685.0	43.9	219.0	363.9	58.2
1999	684.5	36.7	203.7	391.0	53.1
2000	744.1	36.2	213.7	419.4	74.7
2001	730.7	28.2	210.4	427.0	65.0
2002	788.3	32.7	215.0	459.7	80.8
2003	734.6	22.7	192.8	441.7	77.3
2004	791.0	30.3	184.9	477.9	95.8
2005	801.2	29.2	183.2	488.9	100.0
2006	815.9	25.3	192.5	500.6	97.5
2007	852.2	24.9	180.6	533.5	113.2
2008	858.9	27.2	170.0	538.2	123.6
2009	891.6	26.8	157.4	550.7	156.6
2010	878.7	22.1	156.9	543.2	156.5
2011	919.7	16.7	162.7	566.2	174.0
2012	927.1	13.4	167.8	578.4	167.5
2013	947.8	15.9	165.5	595.4	171.1
2014	954.1	11.8	137.6	611.4	193.3
2015	981.8	19.2	140.0	609.3	213.2
2016	988.2	11.2	128.5	621.2	227.4
2017	1,013.3	20.8	133.1	627.5	232.0
2018	1,034.8	8.5	122.7	655.7	247.9
2019	1,043.7	14.0	116.4	648.1	265.2
2020 ^f	1,042.1	13.7	130.1	629.2	269.1
2021 ^f	1,056.9	23.8	100.0	633.6	299.5
2022 ^f	1,070.2	11.3	114.4	641.8	302.7
2023	1,104.2	9.9	101.4	645.2	347.8

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Perlis, 1982–2023

Table 14: Employed persons by educational attainment, Perlis, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	55.7	9.6	27.8	15.0	3.2
1983	63.8	7.6	35.1	19.3	1.9
1984	61.8	6.8	28.7	23.1	3.2
1985	60.5	7.1	27.2	21.9	4.3
1986	57.6	7.8	24.2	22.2	3.4
1987	60.6	6.0	25.5	25.0	4.2
1988	65.5	7.3	26.3	28.2	3.7
1989	66.3	7.0	23.6	30.4	5.4
1990	57.1	4.6	22.7	26.0	3.8
1992	66.9	6.5	24.3	29.8	6.4
1993	70.7	8.8	21.8	35.5	4.6
1995	70.8	8.4	22.3	34.2	5.9
1996	70.1	5.1	22.6	35.0	7.4
1997	70.1	4.9	21.9	36.1	7.2
1998	71.0	5.0	21.4	37.3	7.3
1999	78.5	6.1	22.5	40.9	9.0
2000	74.8	3.5	19.9	41.8	9.6
2001	82.9	4.9	22.6	46.7	8.6
2002	57.0	3.0	14.9	30.6	8.5
2003	76.6	4.2	17.0	45.4	10.1
2004	73.8	3.4	16.2	43.9	10.3
2005	74.0	3.1	13.4	44.8	12.7
2006	74.5	3.2	14.9	44.5	11.9
2007	80.0	2.4	14.0	48.8	14.8
2008	81.5	2.7	12.1	49.1	17.6
2009	81.5	2.6	11.3	48.9	18.8
2010	80.9	3.2	11.6	47.6	18.5
2011	83.3	2.2	12.8	49.2	19.1
2012	87.1	2.2	12.4	54.2	18.3
2013	94.3	2.3	12.3	60.5	19.3
2014	95.2	1.4	11.6	58.2	23.9
2015	98.2	1.1	9.6	62.2	25.2
2016	100.1	1.7	10.1	62.1	26.3
2017	98.4	1.4	7.5	59.1	30.3
2018	104.0	1.5	9.3	64.6	28.6
2019	108.5	1.1	9.1	64.0	34.3
2020 ^f	116.4	0.6	8.5	70.7	36.6
2021 ^f	117.4	1.0	6.1	74.7	35.7
2022 ^f	120.6	1.7	7.0	69.0	42.8
2023	124.9	1.4	6.3	71.5	45.8

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Selangor, 1982-2023

Table 14: Employed persons by educational attainment, Selangor, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	676.9	45.9	255.6	302.1	73.3
1983	739.9	55.0	262.9	349.9	72.1
1984	690.3	48.5	227.8	337.4	76.7
1985	706.1	40.7	236.5	349.8	79.1
1986	777.1	43.7	253.9	383.0	96.5
1987	865.0	48.2	270.1	438.3	108.4
1988	892.9	46.3	279.4	447.0	120.2
1989	900.3	43.6	248.4	479.2	129.1
1990	1,039.4	41.1	272.4	581.2	144.7
1992	1,069.6	40.9	231.6	620.4	176.7
1993	1,080.1	36.1	246.8	629.3	167.9
1995	1,338.9	56.2	255.9	777.4	249.4
1996	1,359.0	48.1	260.4	771.4	279.1
1997	1,329.9	38.7	267.0	745.5	278.6
1998	1,430.4	36.5	279.1	802.5	311.7
1999	1,427.2	36.5	268.5	821.1	301.1
2000	1,681.4	31.5	324.8	934.2	390.9
2001	1,512.4	24.8	243.1	849.5	395.0
2002	1,749.9	41.3	275.9	951.0	481.1
2003	1,833.5	37.4	270.7	1,004.8	520.6
2004	1,973.3	44.3	282.3	1,056.4	586.7
2005	1,985.9	48.3	259.3	1,083.8	593.8
2006	2,017.7	26.3	245.5	1,140.9	604.4
2007	2,064.2	32.5	242.1	1,153.1	627.9
2008	2,092.0	50.7	251.0	1,181.8	608.5
2009	2,095.3	36.5	232.1	1,109.8	716.9
2010	2,551.1	45.3	287.0	1,329.5	889.3
2011	2,645.2	35.9	322.5	1,374.2	912.6
2012	2,776.1	28.8	315.6	1,443.8	987.9
2013	2,933.3	22.4	332.4	1,533.9	1,044.6
2014	3,033.6	21.7	328.2	1,588.3	1,095.5
2015	3,135.0	26.8	361.3	1,525.9	1,220.9
2016	3,217.6	28.2	286.2	1,695.6	1,207.7
2017	3,359.4	34.1	285.5	1,754.0	1,285.7
2018	3,446.7	25.1	314.4	1,861.7	1,245.4
2019	3,489.5	32.9	255.8	1,821.8	1,379.0
2020 ^f	3,593.3	17.8	168.0	1,867.7	1,539.7
2021 ^f	3,641.0	18.2	131.9	1,832.7	1,658.1
2022 ^f	3,706.5	29.3	142.8	1,708.0	1,826.4
2023	3,858.9	16.0	149.7	1,952.5	1,740.7

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Terengganu, 1982–2023

Table 14: Employed persons by educational attainment, Terengganu, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	221.1	61.0	93.0	56.8	10.3
1983	236.9	50.1	105.4	64.4	16.9
1984	204.4	43.9	84.3	64.0	12.2
1985	212.4	46.8	84.5	65.9	15.2
1986	218.4	42.9	85.8	73.1	16.5
1987	208.9	40.1	78.0	74.1	16.7
1988	229.8	42.8	85.6	81.7	19.7
1989	229.9	40.7	81.7	89.7	17.7
1990	227.6	38.1	80.9	91.7	16.9
1992	252.9	33.1	83.6	108.7	27.5
1993	280.9	28.5	90.7	134.6	27.1
1995	268.0	29.2	81.4	125.2	32.2
1996	298.0	33.4	96.3	137.2	31.1
1997	282.3	28.3	77.5	144.8	31.6
1998	293.5	33.7	81.7	145.4	32.7
1999	300.1	24.3	82.2	157.8	35.7
2000	306.0	24.1	80.1	160.4	41.3
2001	298.6	18.5	76.7	162.6	40.9
2002	279.6	14.6	73.1	151.9	40.1
2003	344.9	19.3	87.1	183.4	55.0
2004	336.9	16.8	81.3	183.1	55.7
2005	342.0	15.1	79.5	185.5	61.9
2006	351.5	16.8	75.0	195.1	64.7
2007	363.0	13.5	74.6	202.3	72.7
2008	375.5	14.1	73.4	202.3	85.8
2009	390.3	13.9	69.2	215.5	91.7
2010	366.6	10.5	65.2	205.8	85.1
2011	390.3	14.4	63.6	214.1	98.1
2012	389.6	11.8	60.7	223.3	93.9
2013	407.0	11.0	72.2	230.5	93.4
2014	414.9	14.4	57.6	233.8	109.1
2015	420.5	11.7	53.0	242.6	113.2
2016	428.5	9.6	49.0	243.0	127.0
2017	438.3	11.3	41.6	249.6	135.7
2018	447.8	13.5	41.9	249.4	143.0
2019	471.0	12.7	42.4	260.8	155.0
2020 ^f	436.2	13.2	37.1	249.4	136.4
2021 ^f	438.2	16.5	22.0	266.8	133.0
2022 ^f	450.7	13.4	36.8	253.5	147.1
2023	462.4	10.1	28.4	250.4	173.5

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Sabah, 1982-2023

Table 14: Employed persons by educational attainment, Sabah, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	343.6	90.8	124.4	117.7	10.6
1983	377.7	98.9	138.2	129.0	11.6
1984	400.3	105.8	152.2	129.7	12.6
1985	403.4	107.0	155.2	128.9	12.2
1986	405.5	100.2	159.6	132.0	13.8
1987	424.3	103.1	161.1	144.3	15.8
1988	424.6	94.8	165.2	150.2	14.5
1989	442.3	94.7	175.6	158.8	13.2
1990	436.9	89.8	159.3	170.6	17.2
1992	491.5	105.0	173.7	190.6	22.2
1993	674.0	117.9	214.3	304.4	37.4
1995	722.7	131.6	260.0	288.0	43.1
1996	992.5	148.4	380.8	406.6	56.7
1997	1,000.1	135.6	388.6	412.6	63.3
1998	1,068.3	143.5	421.6	437.2	66.0
1999	1,101.8	138.6	409.1	479.3	74.8
2000	933.8	112.3	315.3	423.0	83.2
2001	979.1	111.0	336.5	443.8	87.7
2002	1,028.8	113.0	356.8	456.2	102.8
2003	1,073.1	117.9	366.5	482.1	106.7
2004	1,081.7	114.4	357.6	493.8	115.8
2005	1,106.8	115.5	384.4	489.4	117.2
2006	1,160.2	99.4	390.3	535.4	135.0
2007	1,198.6	116.4	388.4	531.5	162.2
2008	1,230.5	147.0	350.7	559.8	173.0
2009	1,270.6	128.1	368.5	574.8	199.2
2010	1,398.6	151.0	454.2	596.7	196.6
2011	1,474.4	155.7	450.8	636.8	231.0
2012	1,537.4	141.0	470.0	701.2	225.2
2013	1,706.0	159.2	536.7	759.5	250.6
2014	1,740.9	159.0	565.9	739.4	276.6
2015	1,771.1	180.1	549.4	751.2	290.4
2016	1,823.7	155.7	600.0	781.7	286.3
2017	1,796.3	167.4	539.2	791.1	298.7
2018	1,825.5	197.5	500.9	828.4	298.6
2019	1,908.6	235.8	520.8	837.2	314.8
2020 ^f	1,455.5	108.5	316.0	686.1	344.9
2021 ^f	1,469.1	157.6	281.9	736.0	293.6
2022 ^f	1,504.4	139.0	316.6	711.3	337.4
2023	1,622.2	200.5	362.7	733.4	325.6

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, Sarawak, 1982–2023

Table 14: Employed persons by educational attainment, Sarawak, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	524.7	187.2	186.1	130.5	20.9
1983	540.1	182.4	188.5	147.4	21.8
1984	575.3	181.1	198.0	171.7	24.5
1985	587.5	178.6	204.2	177.1	27.6
1986	614.3	179.1	205.7	198.4	31.1
1987	642.0	168.8	221.2	222.7	29.4
1988	637.1	162.0	215.3	230.5	29.3
1989	687.1	174.1	225.6	251.3	36.1
1990	698.9	160.8	237.7	261.4	39.0
1992	711.3	145.9	221.6	298.3	45.5
1993	753.8	133.6	250.1	312.1	58.1
1995	789.2	142.9	236.5	347.2	62.5
1996	831.5	131.8	262.0	364.9	72.8
1997	831.5	125.7	253.2	379.0	73.7
1998	824.3	129.9	240.6	377.3	76.5
1999	865.0	109.6	237.5	427.2	90.6
2000	876.3	124.3	261.1	411.5	79.4
2001	877.4	110.8	260.7	411.9	94.1
2002	917.7	124.6	279.1	418.9	95.1
2003	909.9	107.9	257.4	442.9	101.6
2004	918.6	103.8	253.5	439.9	121.4
2005	910.9	99.3	239.1	450.6	121.9
2006	918.3	89.1	254.7	454.2	120.3
2007	954.1	92.0	251.6	465.1	145.3
2008	921.7	80.3	237.2	467.7	136.5
2009	977.5	80.5	238.8	494.2	164.0
2010	1,045.6	90.6	255.6	529.4	170.0
2011	1,058.1	71.6	235.2	567.6	183.7
2012	1,143.9	84.6	268.3	583.5	207.5
2013	1,188.5	84.5	290.7	612.8	200.5
2014	1,232.2	72.8	267.9	665.1	226.4
2015	1,214.8	65.3	274.7	630.7	244.0
2016	1,218.2	58.8	257.3	658.9	243.3
2017	1,253.7	49.3	227.8	724.9	251.7
2018	1,274.4	50.6	254.6	702.3	266.9
2019	1,304.7	47.4	224.3	743.5	289.5
2020 ^f	1,092.9	43.5	175.0	622.1	252.3
2021 ^f	1,103.4	38.2	142.6	644.4	278.1
2022 ^f	1,136.0	37.6	150.5	686.6	261.3
2023	1,192.5	28.3	148.7	707.1	308.4

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, W.P. Kuala Lumpur, 1982-2023

Table 14: Employed persons by educational attainment, W.P. Kuala Lumpur, 1982-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1982	463.6	18.8	146.0	254.1	44.6
1983	430.7	18.8	138.3	231.8	41.8
1984	485.4	23.2	133.4	281.5	47.3
1985	491.7	19.4	136.0	283.2	53.2
1986	455.0	17.5	122.9	260.8	53.7
1987	457.9	15.3	117.3	264.5	60.7
1988	469.6	14.2	122.1	270.9	62.4
1989	504.7	14.1	122.3	297.7	70.7
1990	490.7	13.7	119.5	287.9	69.6
1992	555.8	14.7	99.2	345.6	96.3
1993	580.5	12.9	121.6	345.1	100.8
1995	588.4	17.0	102.6	366.5	102.4
1996	697.8	23.6	111.8	397.5	164.9
1997	691.0	18.1	103.5	383.6	185.8
1998	668.3	17.2	89.4	376.7	185.1
1999	689.7	14.7	98.2	382.4	194.3
2000	662.8	9.3	89.3	387.4	176.8
2001	703.7	13.2	91.4	382.9	216.2
2002	794.1	7.4	114.6	426.2	246.0
2003	715.1	7.1	87.1	389.6	231.3
2004	671.7	10.2	82.8	348.4	230.2
2005	675.2	6.0	71.6	371.3	226.2
2006	676.6	9.2	73.9	369.3	223.9
2007	682.1	4.6	77.8	389.4	210.3
2008	682.2	6.3	68.1	389.7	218.1
2009	678.1	5.1	66.6	369.1	237.3
2010	788.0	7.0	69.8	424.2	287.0
2011	812.5	6.9	87.0	436.7	281.9
2012	820.4	7.7	80.7	443.4	288.6
2013	877.8	8.0	74.3	489.5	306.0
2014	852.0	7.9	67.7	437.7	338.7
2015	853.4	3.0	57.9	441.9	350.7
2016	827.2	2.4	50.3	422.4	352.1
2017	844.3	5.3	50.9	455.4	332.7
2018	824.4	5.0	41.3	403.6	374.4
2019	841.0	5.5	44.3	445.2	346.0
2020 ^f	1,006.4	7.2	48.2	460.3	490.8
2021 ^f	992.5	21.0	16.9	384.3	570.3
2022 ^f	1,019.7	6.6	31.2	411.5	570.4
2023	1,077.9	4.2	43.2	452.2	578.2

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^f Semakan semula berdasarkan anggaran penduduk semasa

^f Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, W.P. Labuan, 1984-2023

Table 14: Employed persons by educational attainment, W.P. Labuan, 1984-2023

Tahun Year	('000)				
	Jumlah ¹	Tiada pendidikan rasmi	Rendah	Menengah	Tertiari
	Total	No formal education	Primary	Secondary	Tertiary
1984	16.0	1.8	5.6	7.7	0.8
1985	15.0	1.8	5.2	7.2	0.8
1986	13.6	1.3	4.4	7.0	0.8
1987	12.3	1.2	4.1	6.3	0.8
1988	12.3	1.1	4.0	6.5	0.7
1989	13.4	1.5	4.1	7.2	0.7
1990	14.8	0.6	5.6	7.3	1.4
1992	14.9	0.9	5.1	8.4	0.5
1993	17.3	1.3	3.9	11.1	1.0
1995	31.1	2.5	8.7	17.5	2.4
1996	37.4	1.9	13.6	18.5	3.4
1997	34.7	2.8	9.1	18.7	4.1
1998	37.0	1.7	8.6	23.4	3.3
1999	41.2	2.3	16.1	19.8	3.0
2000	25.4	1.2	7.3	14.1	2.8
2001	27.2	1.4	5.6	16.6	3.5
2002	32.9	2.0	7.8	18.6	4.5
2003	31.8	1.0	7.0	18.8	4.9
2004	32.3	2.4	7.9	16.3	5.7
2005	30.5	2.5	7.6	16.5	3.9
2006	30.5	1.2	8.6	16.7	4.0
2007	32.6	2.6	7.5	17.3	5.2
2008	32.5	3.6	6.1	17.4	5.5
2009	35.5	2.5	6.0	19.3	7.7
2010	37.6	0.9	5.2	21.6	9.8
2011	38.6	1.5	5.5	20.6	11.0
2012	39.4	1.5	5.4	20.6	11.9
2013	40.1	1.3	5.2	21.3	12.4
2014	40.8	1.5	5.7	23.8	9.8
2015	39.5	1.6	4.2	23.3	10.3
2016	40.2	1.2	4.3	22.4	12.2
2017	38.5	1.2	3.9	22.8	10.5
2018	41.5	1.0	4.0	23.9	12.6
2019	40.3	2.1	3.4	21.6	13.3
2020 ^r	39.4	1.7	3.8	21.9	12.0
2021 ^r	40.7	2.4	2.7	20.3	15.3
2022 ^r	41.5	1.9	3.0	19.8	16.8
2023	43.4	0.8	4.8	20.9	16.9

Nota/Note :

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. ^r Semakan semula berdasarkan anggaran penduduk semasa^r Revision based on the current population estimates

Jadual 14: Penduduk bekerja mengikut pencapaian pendidikan, W.P. Putrajaya, 2011-2023

Table 14: Employed persons by educational attainment, W.P. Putrajaya, 2011-2023

Tahun Year	('000)				
	Jumlah ¹ Total	Tiada pendidikan rasmi No formal education	Rendah Primary	Menengah Secondary	Tertiari Tertiary
2011	41.4	0.0	1.7	13.2	26.6
2012	40.3	-	1.4	13.1	25.9
2013	40.7	0.1	1.5	12.8	26.3
2014	40.3	-	0.7	14.5	25.1
2015	38.5	0.1	0.5	11.9	25.9
2016	38.2	-	0.7	11.6	25.9
2017	38.0	-	0.9	11.8	25.3
2018	38.4	0.0	0.4	12.9	25.1
2019	38.1	0.0	0.8	12.6	24.7
2020 ^r	49.7	0.0	0.3	16.7	32.8
2021 ^r	53.0	0.0	0.5	19.3	33.2
2022 ^r	55.1	0.0	2.3	17.0	35.8
2023	58.1	0.0	0.1	18.3	39.8

Nota/Note:

1. Jumlah termasuk angka pencapaian pendidikan "tidak diketahui"

Total includes "unknown" educational attainment

2. Mulai 2011, data tenaga buruh W.P. Putrajaya diterbitkan berasingan daripada negeri Selangor

Starting 2011, labour force data for W.P Putrajaya was published separately from Selangor

3. ^r Semakan semula berdasarkan anggaran penduduk semasa.

^r Revision based on the current population estimates