

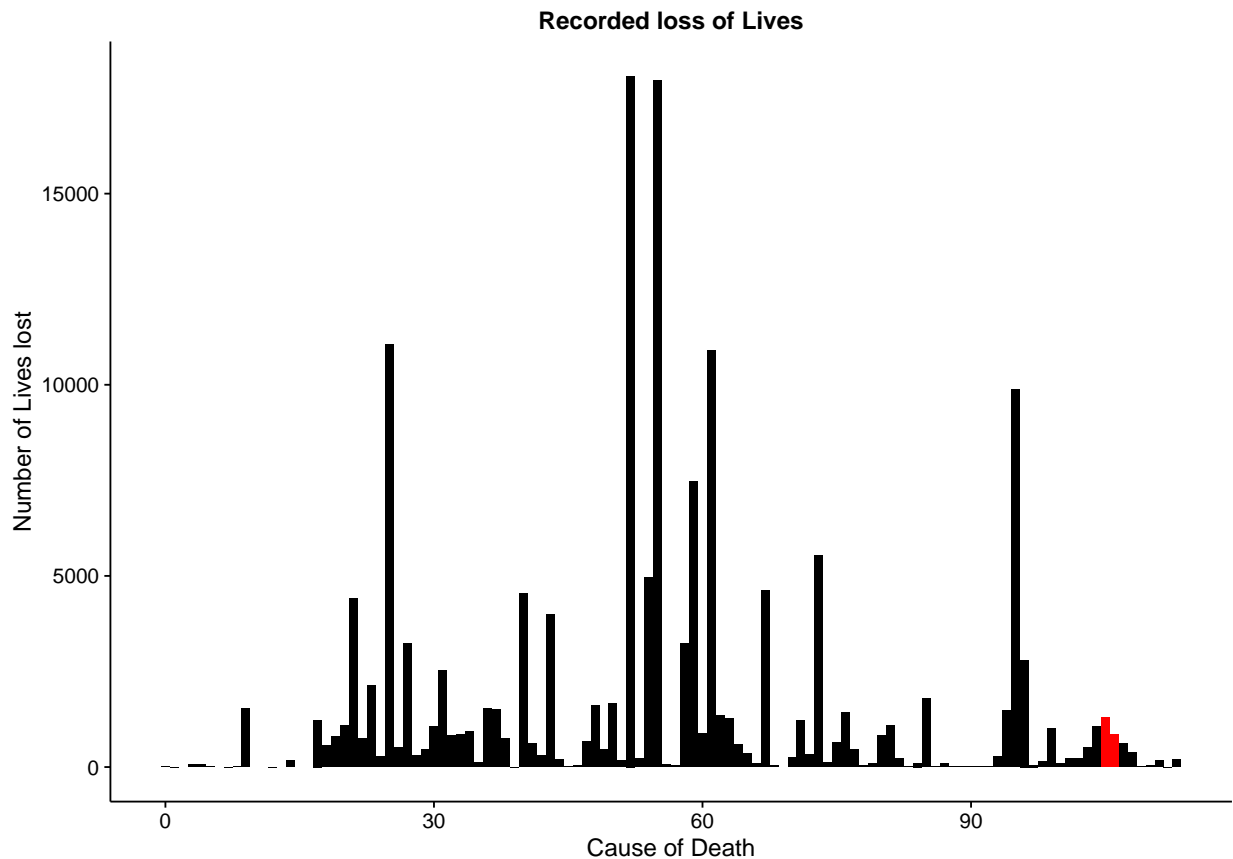
Factors driving US population towards Suicide

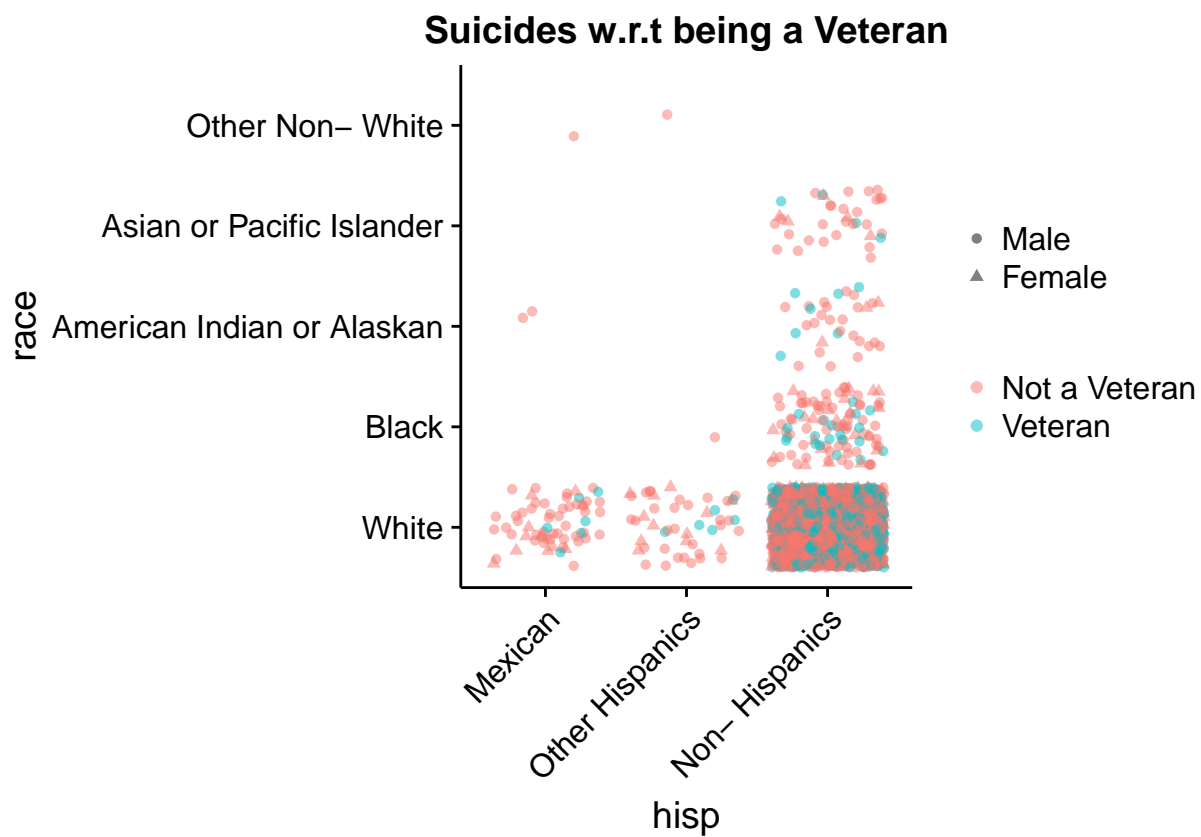
Anyone who has Born, has to Die! Everyone has their own Excuse of giving up this Life. Many of them happen due to Health reasons, or Natural Calamities, like Earthquake or Havocs, etc. But, there are also Incidents when people give up on their Life willingly. Yes, they commit SUICIDE! What are the possible factors, that lead them to take such an Action? Is it because of Financial Reasons, Health Issues, being Alone, or Personal Tragedies.

National Longitudinal Mortality Survey was a follow up done with a set of population (living in United States) for 11 years time to observe and record their Health and Lifestyle vitals to study the effects of demographic and socio-economic characteristics on differential in Mortality rates.

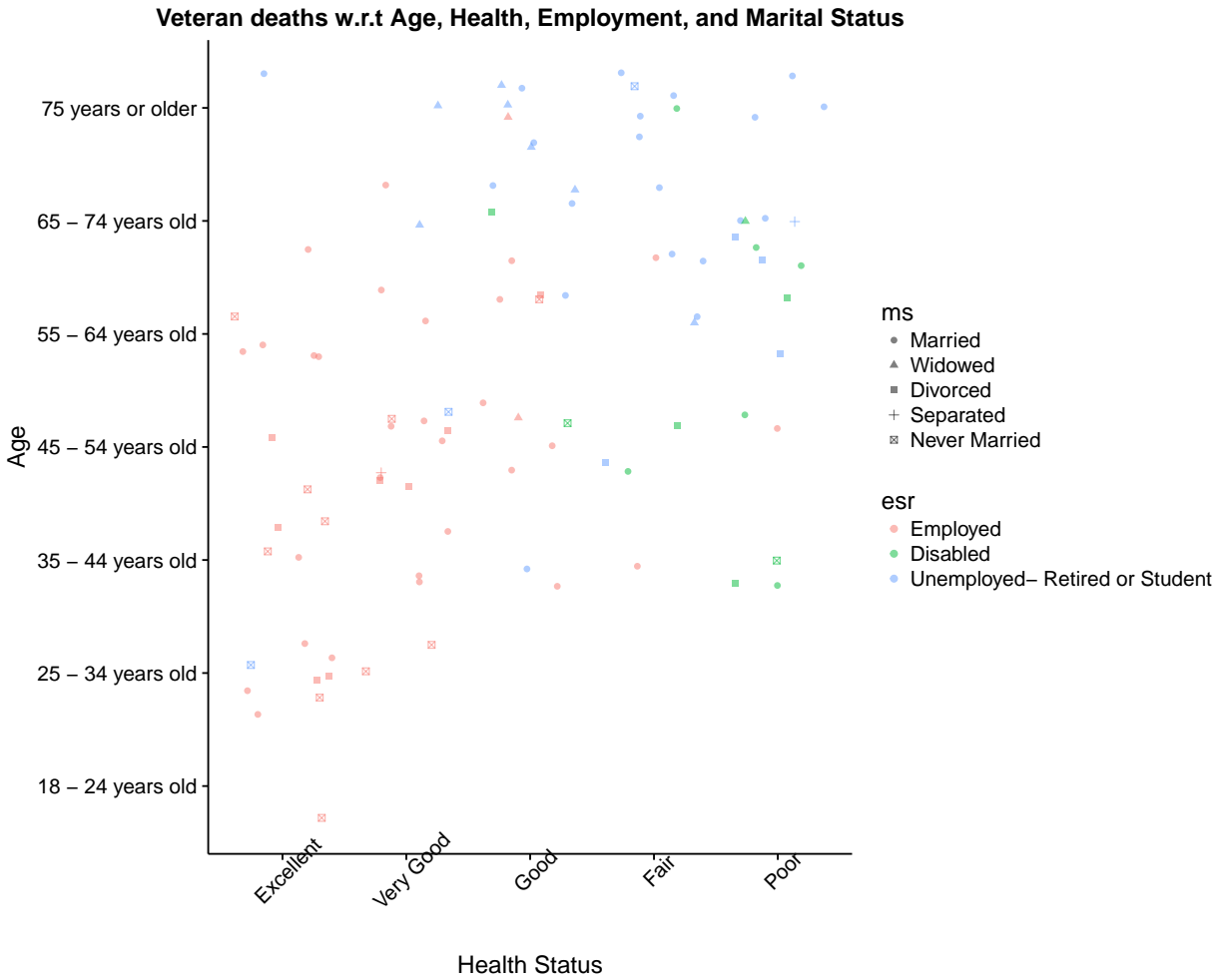
We'll jump in to find out possible reasons for people driven to commit Suicide.

Let's see an overall picture for the Loss of lives recorded in this Survey of 11 years, and compare it to the amount of Suicides. In our Study, we'll be focussing on finding the Driving factors for people committing Suicide.

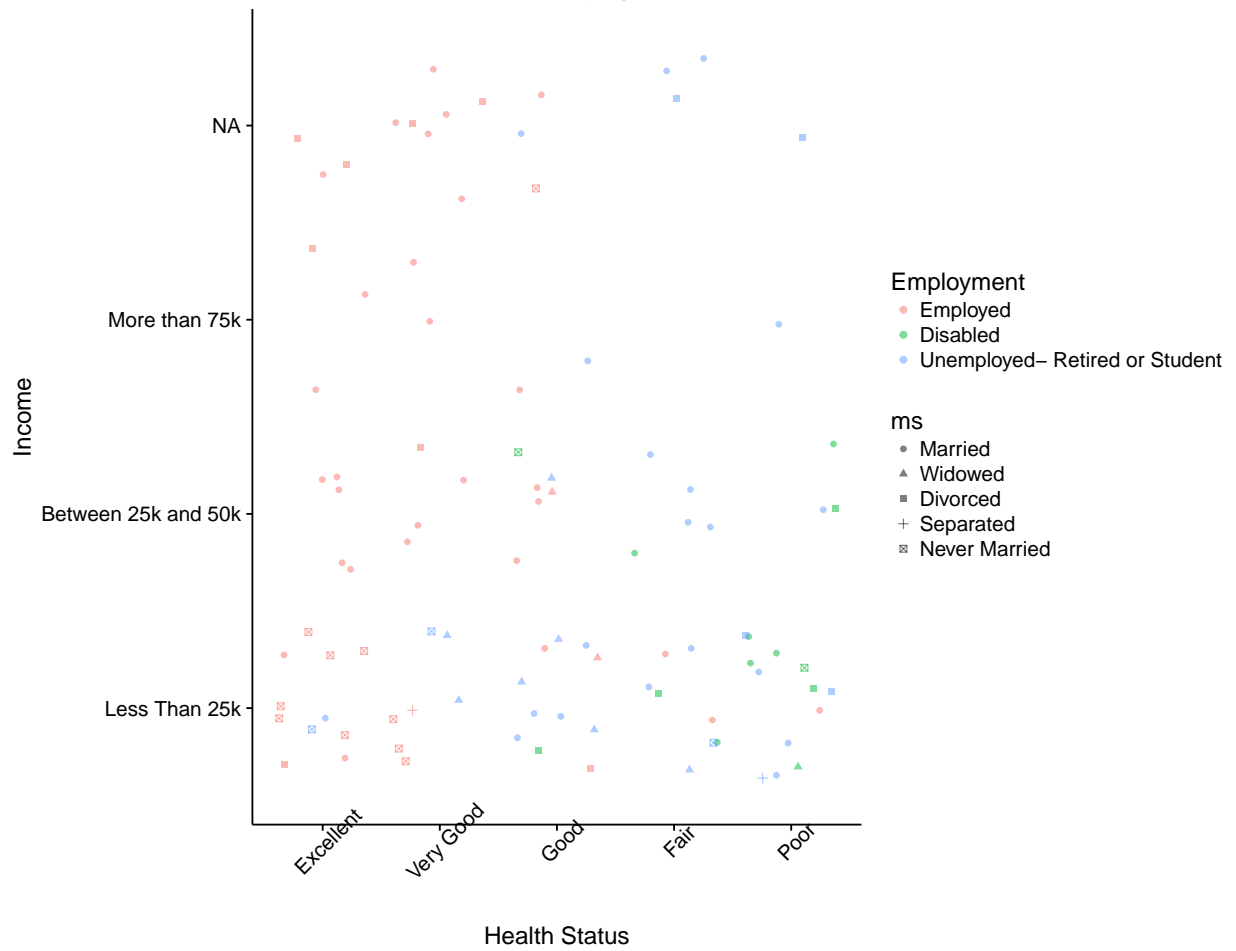


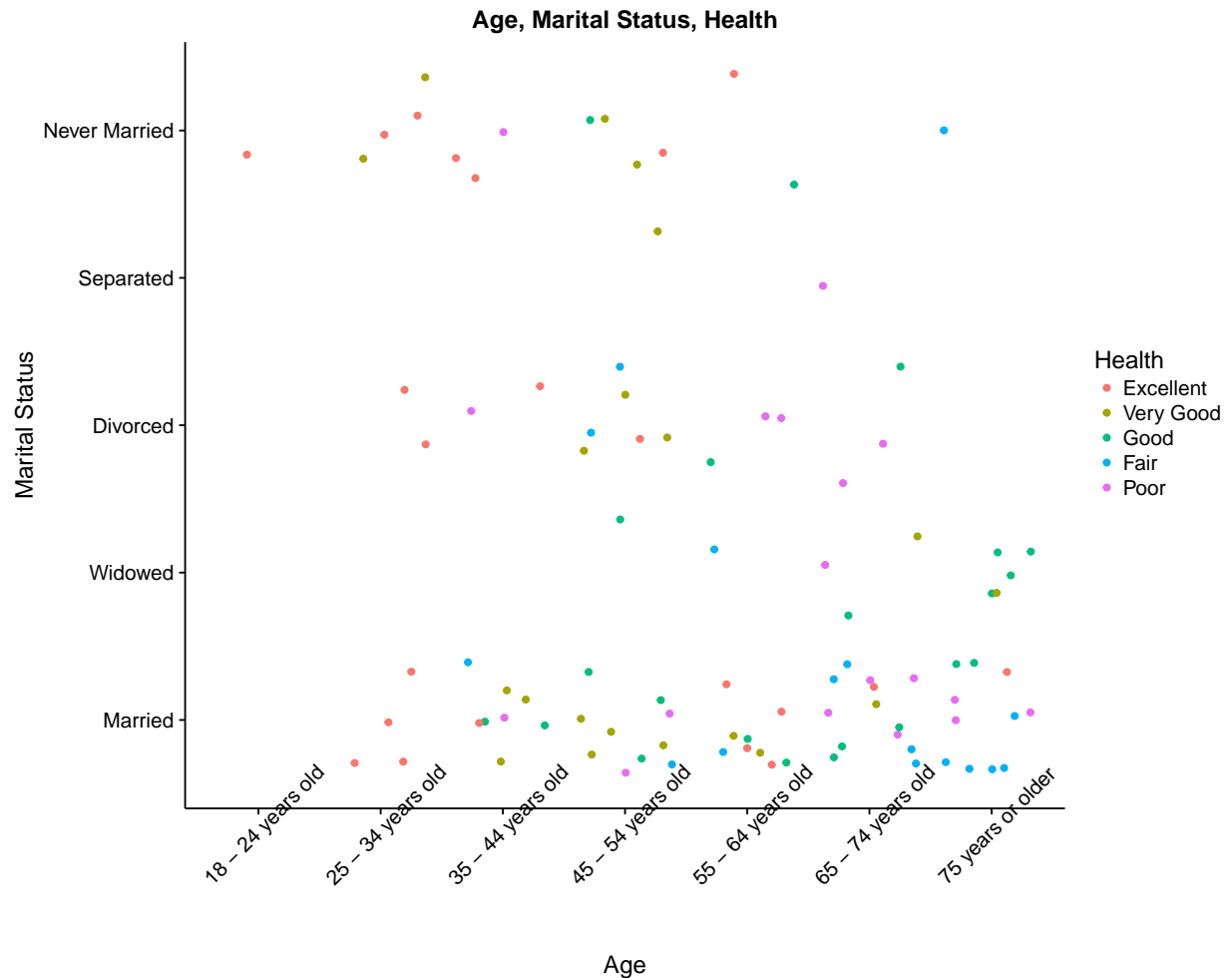


Most of the Suicides have been found by people who are not a member of any Defence Forces.



Veterans w.r.t Income, Health, Employment, and Marital Status





1. People below age of 35 years, having Excellent health, may be facing difficulties with their Intellectual Health.

Can Government authorities do something here by initiating a Counseling with the Veterans to help them out?

2. Disabled people with Poor Health also seem to be contributing towards Suicide.

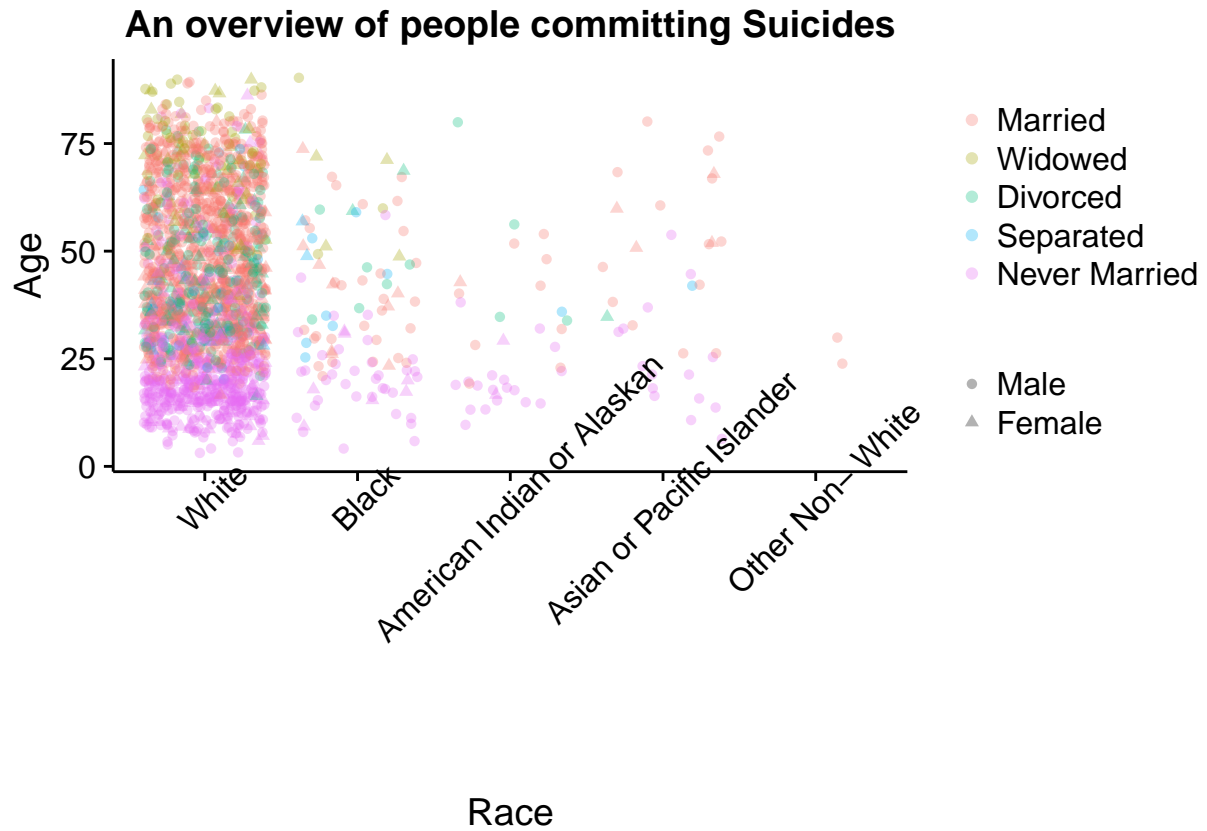
Their Disability be due to any harm for their participation in any War. Could Government authorities taking better Care of them help out from losing their Lives?

3. People with Income < 25k form the majority.

Could Government increasing their Wages help them out from taking such actions?

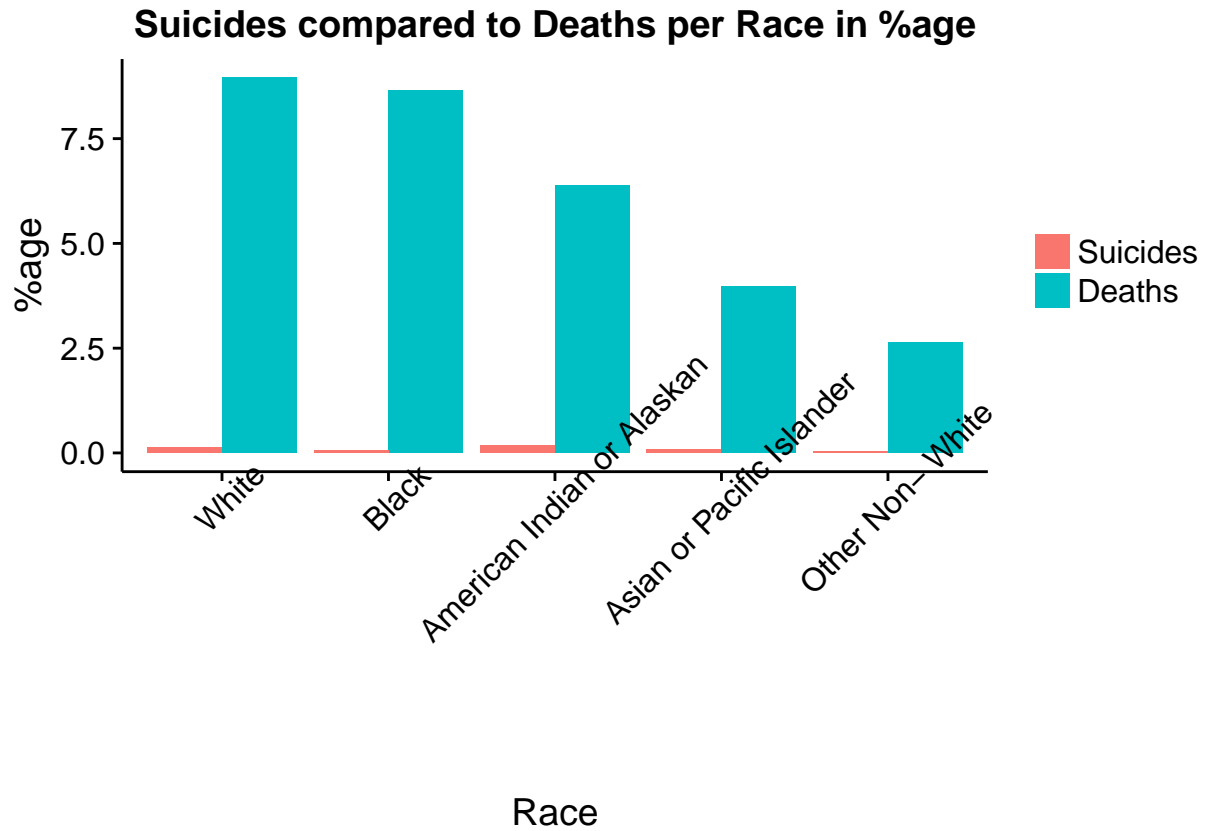
4. Never Married, and Separated are the least amongst Veterans.

Could Marriages, losing the Partner or divorce be a factor leading People into some personal issues, eventually taking a toll on mental Health? If yes, Married/ Divorced/ Widowed people could be focused to undergo some Counseling sessions to help them out.

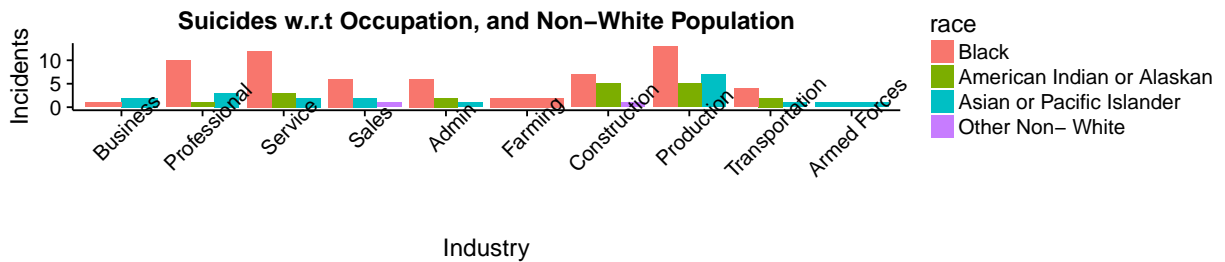
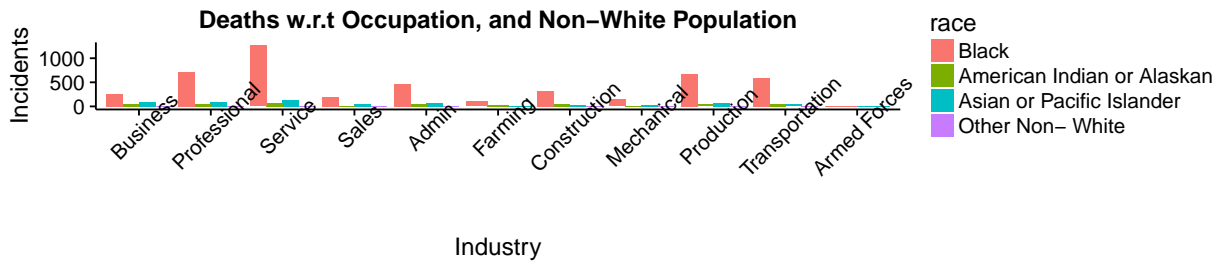


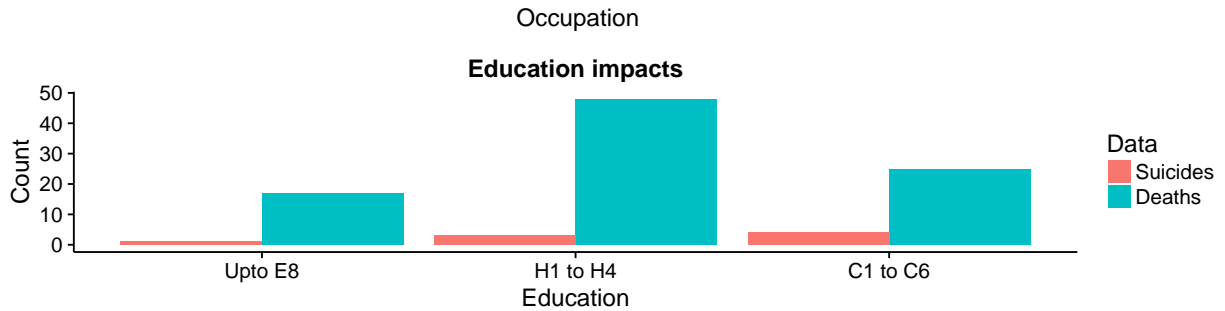
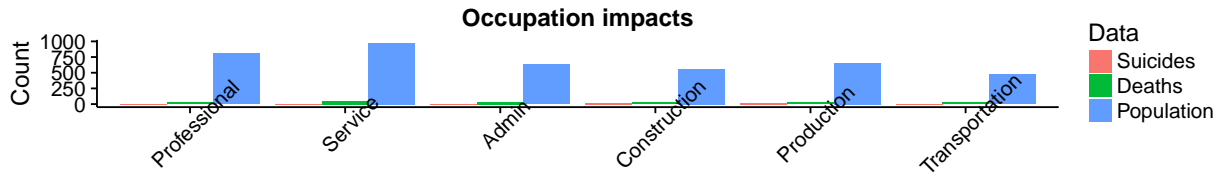
Whites have been the most out of Subjects committing Suicides, evenly spread across all Age Groups.

Males are found to be in majority for committing Suicides, with White, Married, and Never Married topping the census. We'll study the individual contribution of these factors towards deducing the Survivability of any Subject.



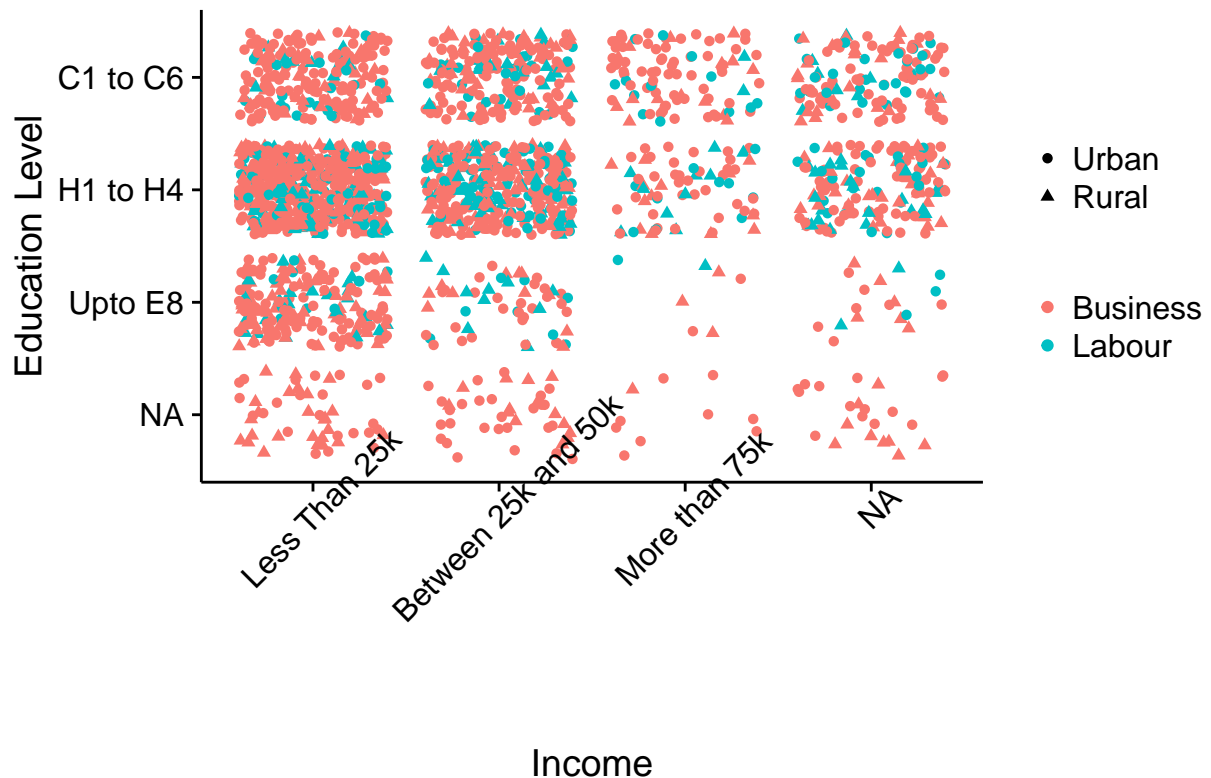
The data shows that Whites are the ones committing most of the Suicides, but comparatively there is more %age of the 'American Indian or Alaskan' population committing Suicides.



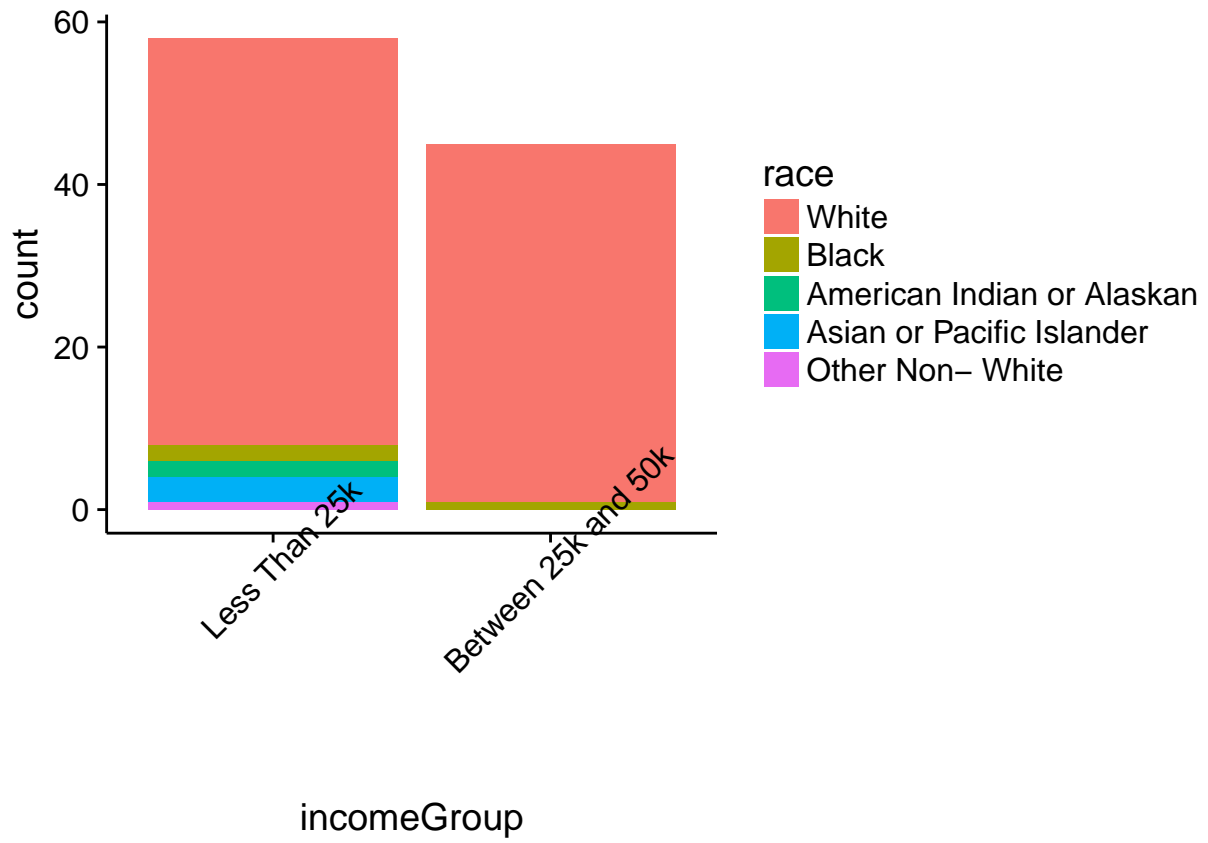


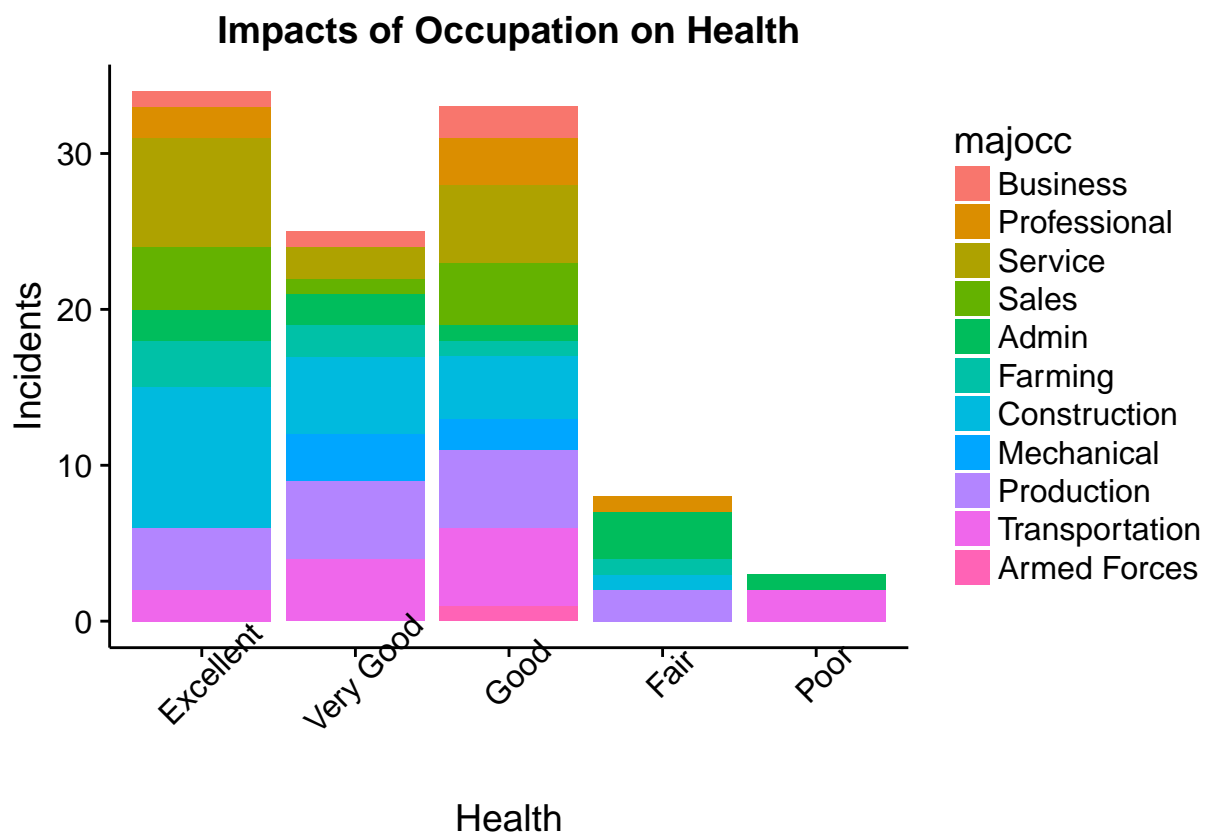
There are 2 areas- Service, and Production which should be looked into for the maximum number of Deaths, and Suicides, respectively. American Indian or Alaskan people have committed most of the Suicides in Production, and Construction related Work areas. However, American Indians or Alaskans did not commit Suicide who worked for Business, Sales, Farming, and Armed Forces.

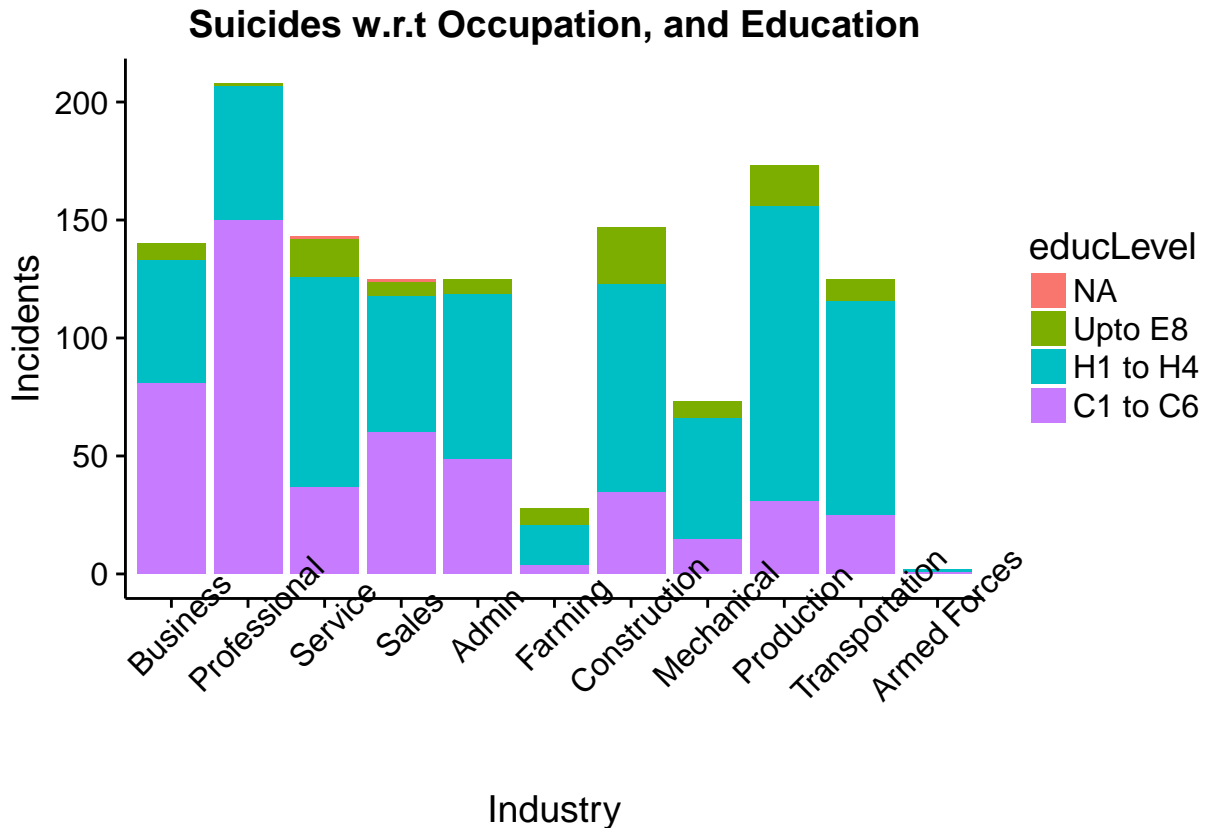
Education, Income, Area of Residence, and Working in a Labor industry



People educated till High School level 4 and having Salary less than 25k are the majority among Subjects.





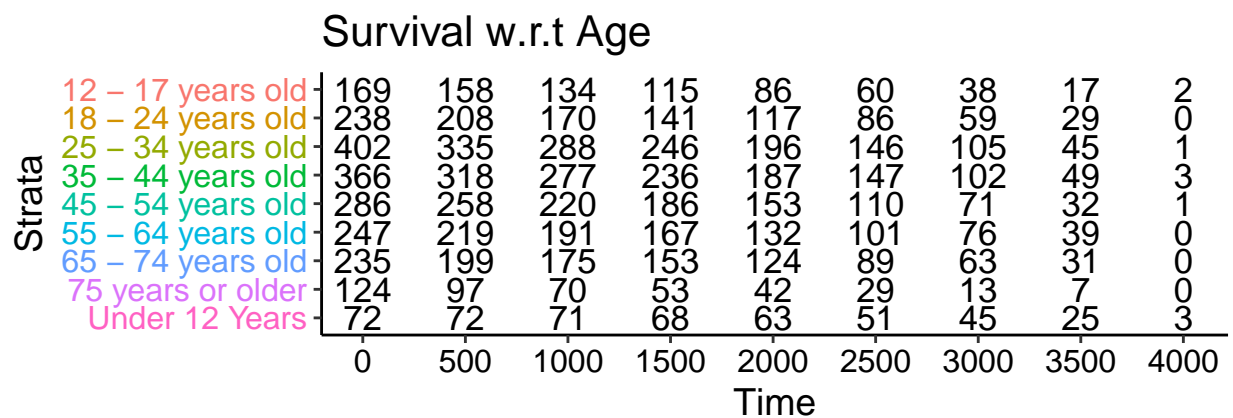
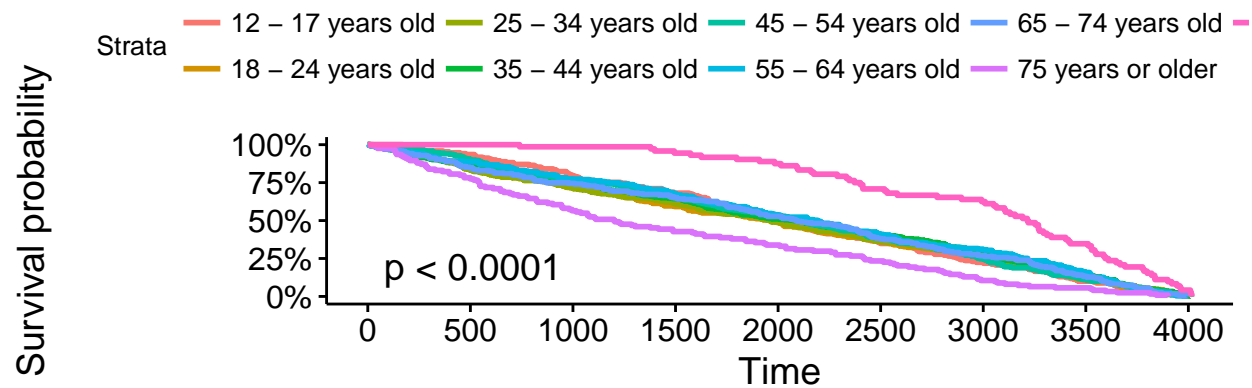


People with High School Education of level- H1 to H4 can be found in every Profession. But, most of them losing their Lives are in Construction, and Transportation Business.

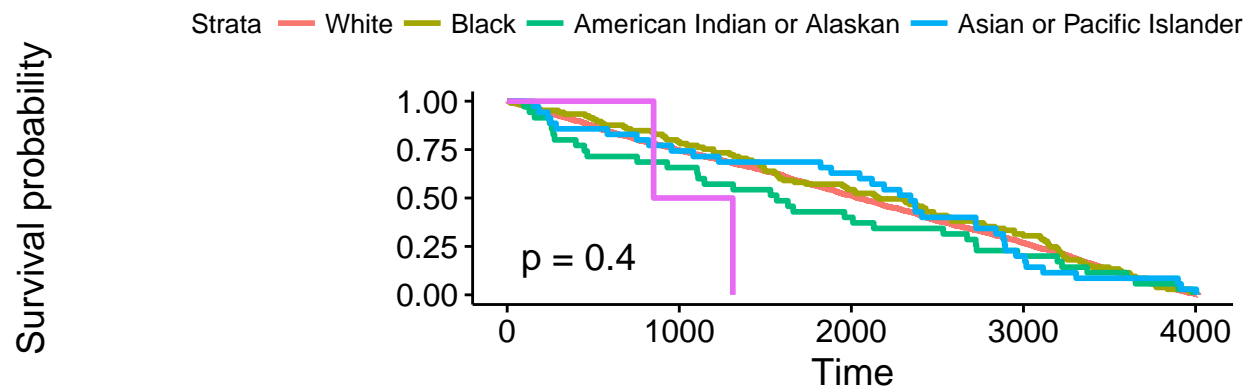
Also, people with higher Education level of C1 to C6 are least involved in Farming Business, maybe because they move to Metro cities. And most of them (Engineers, Scientists, Lawyers, Judicial Workers, Judges, Teachers, Musicians, Artists, Photographers, Doctors, Pharmacists).

Could this be because of Work pressure they have to bear because of an higher level of Job they are pursuing? Could it be helpful to incorporate a Subject in the Education System, which could help people understand and manage Mental pressures? Majority of the Subjects had Insurance subscribed from their Employer.

Survival Analysis on Suicides.



People in age group > 75 years are found to be most Vulnerable of committing Suicides. However, Youth in age group of 25 - 34 Years, are the majority in Count of committing Suicides.

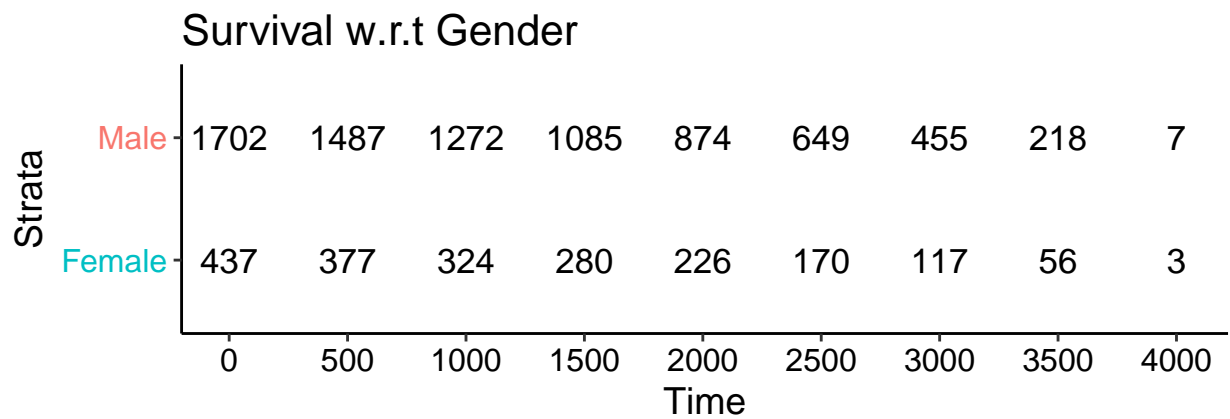
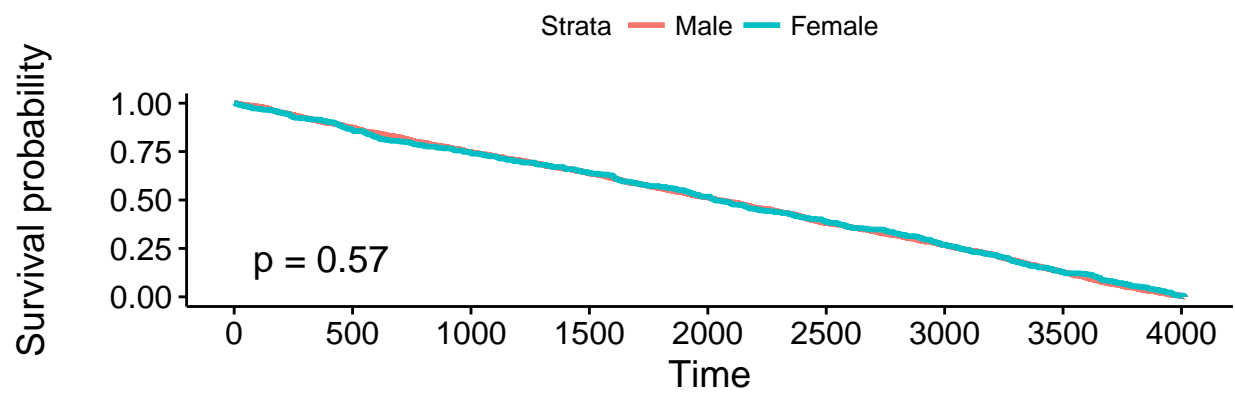


Survival w.r.t Race

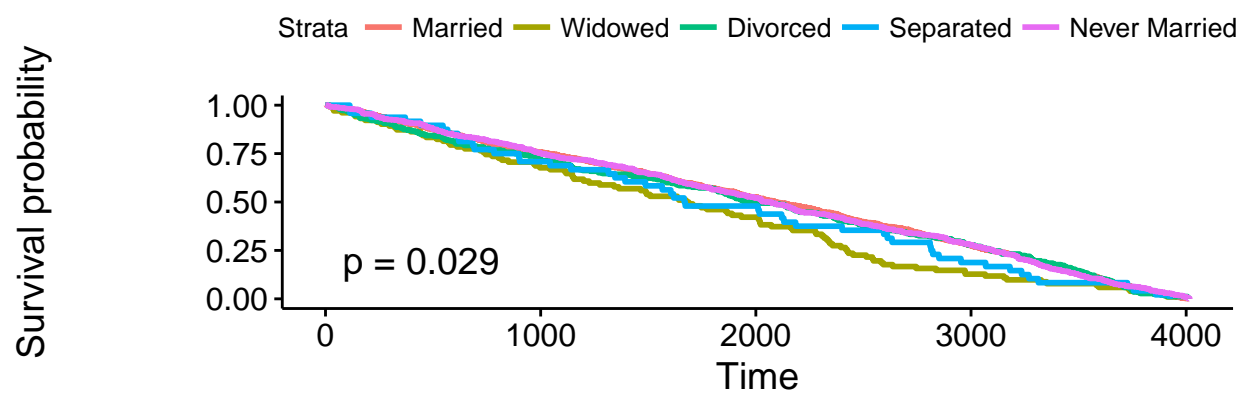
Strata	White	Black	American Indian or Alaskan	Asian or Pacific Islander	Other Non- White
White	1962	1463	1007	526	9
Black	105	83	57	32	0
American Indian or Alaskan	35	23	14	7	0
Asian or Pacific Islander	35	26	22	7	1
Other Non- White	2	1	0	0	0

Time

People of Race = Other Non- White are most vulnerable towards committing Suicides, but Suicides appear to be in majority among the Whites.



Males or Females are equally vulnerable towards committing Suicide, but Males outnumber Females for the Stats.

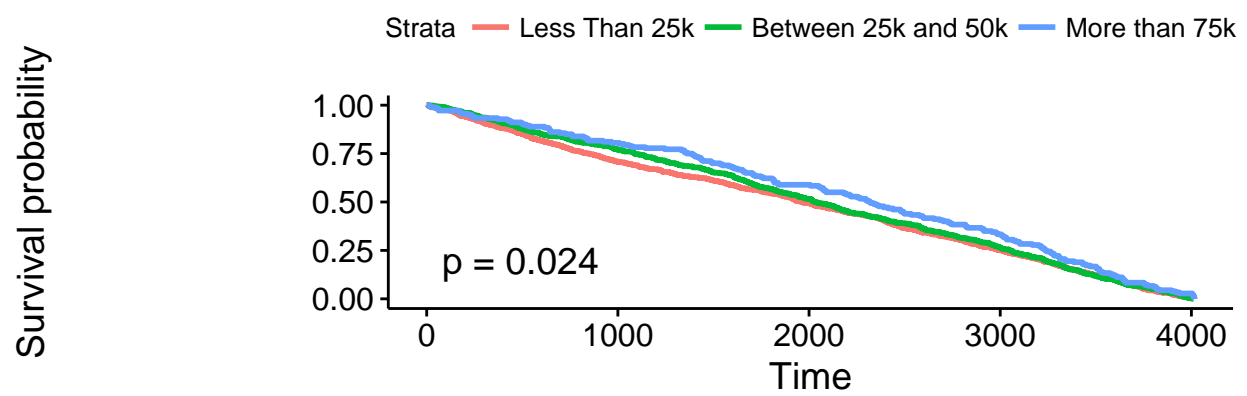


Survival w.r.t Marital Status

Strata	0	1000	2000	3000	4000
Married	1088	825	571	299	2
Widowed	102	69	43	13	0
Divorced	255	183	126	71	3
Separated	48	34	23	9	0
Never Married	646	485	337	180	5

Time

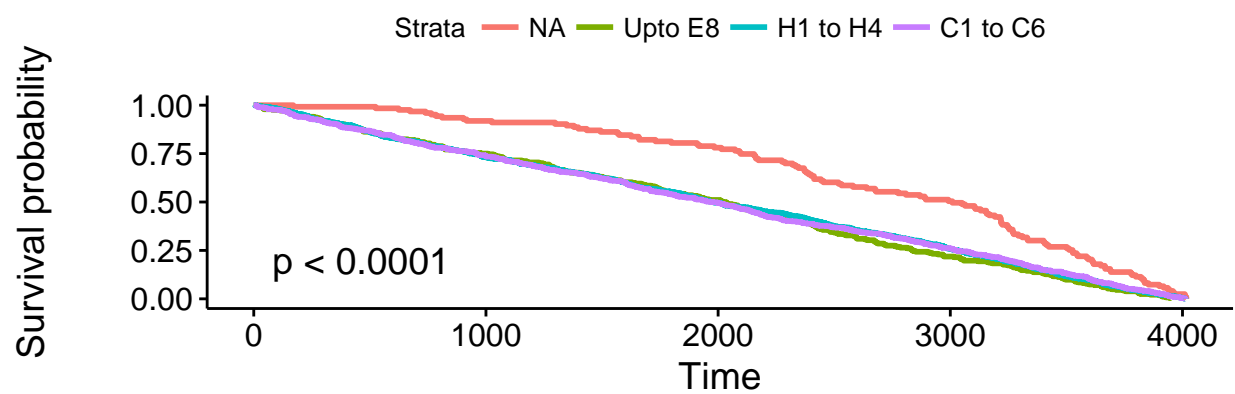
Married people outnumber all others, but Widowed are most Vulnerable.



Survival w.r.t Income

Strata					
Less Than 25k	986	698	487	247	3
Between 25k and 50k	656	505	338	174	1
More than 75k	180	145	106	60	5
	0	1000	2000	3000	4000
	Time				

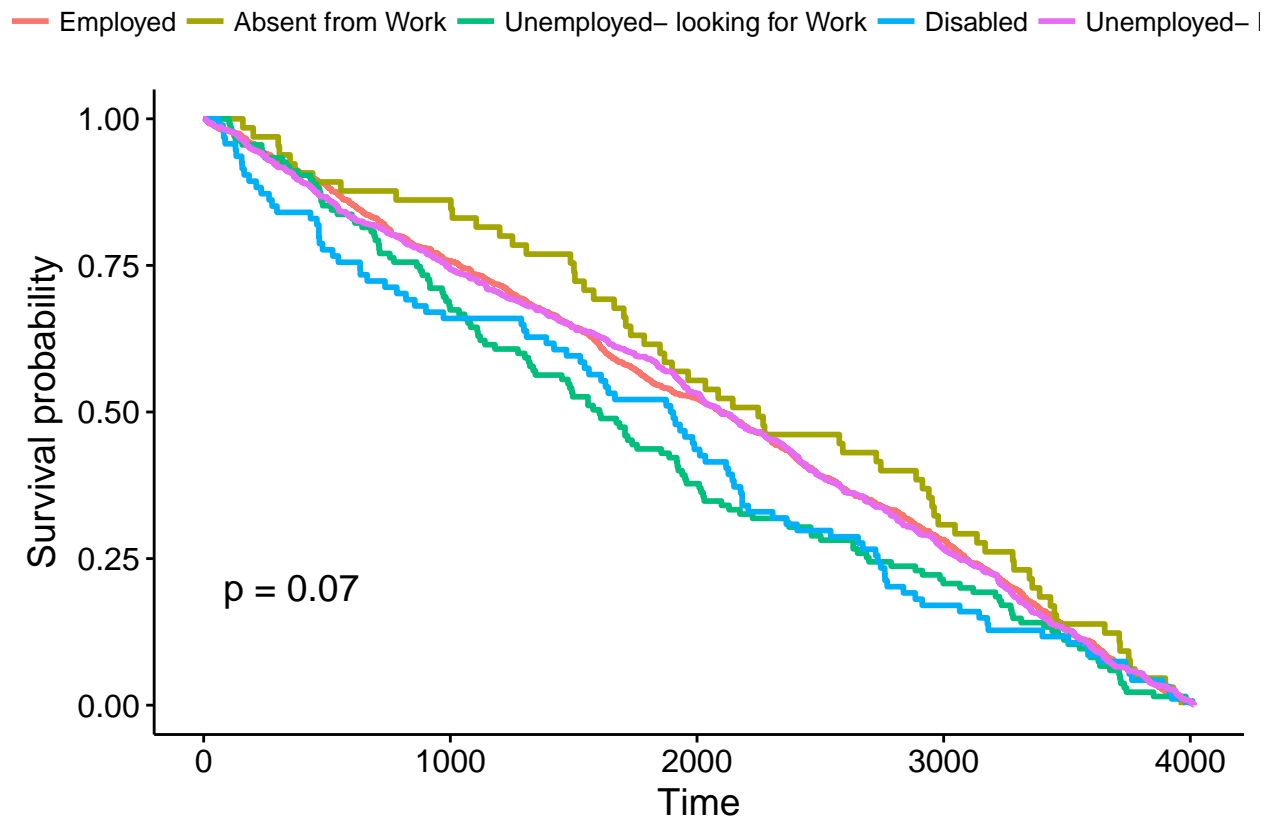
People with Income less than 25k, are the most Vulnerable amongst the Working population.



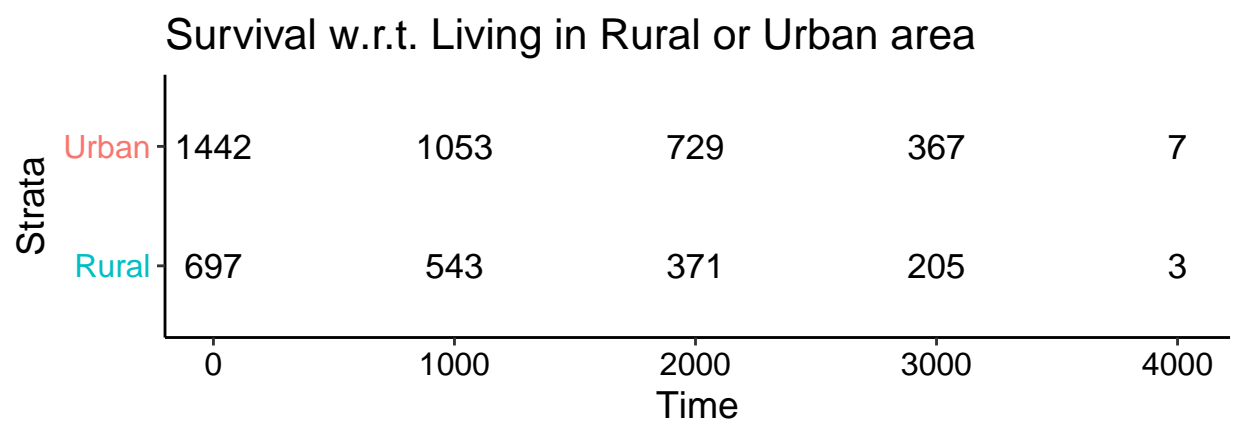
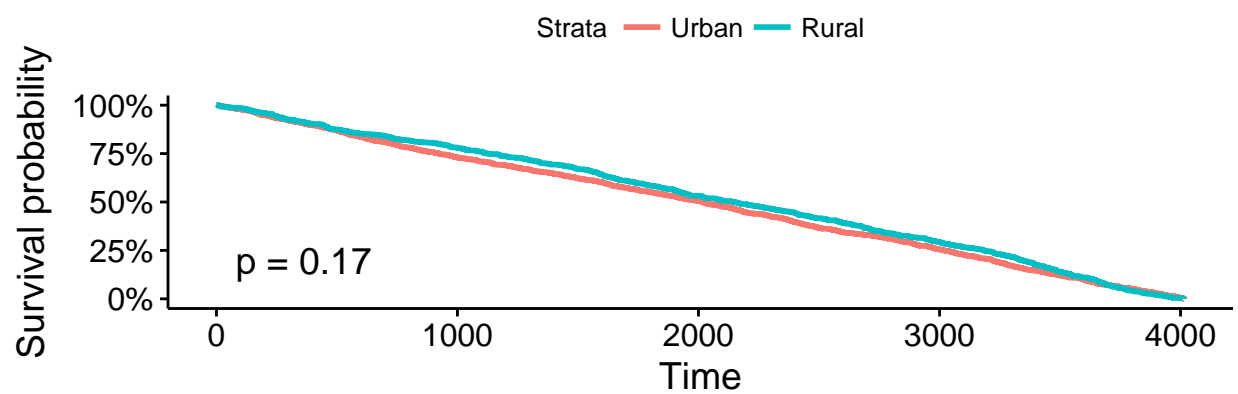
Survival w.r.t Highest Education Completed

Strata	NA	123	113	96	62	3
	Upto E8	284	213	145	62	0
	H1 to H4	1092	799	542	282	5
	C1 to C6	640	471	317	166	2
		0	1000	2000	3000	4000
		Time				

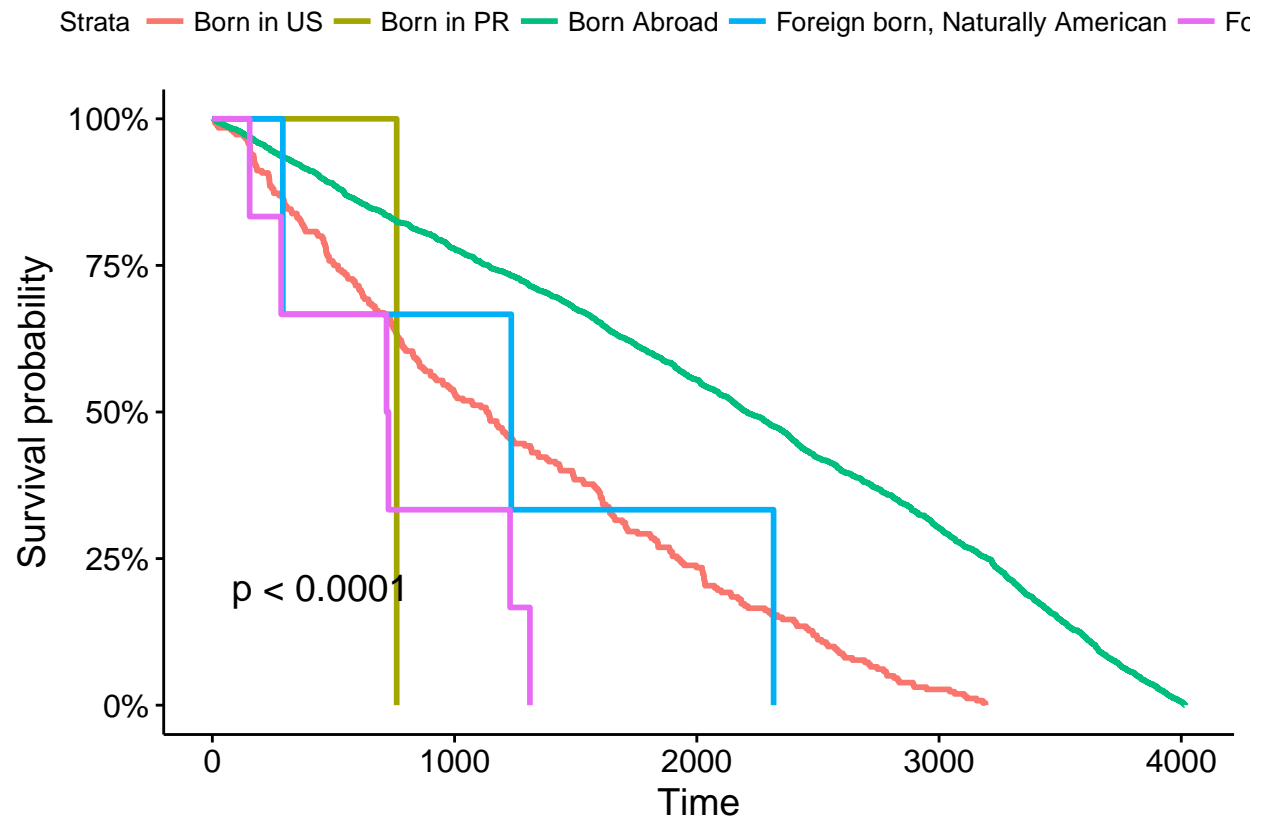
Uneducated people seem to be People who have only completed the Elementary Education seems to be most Vulnerable towards committing Suicides. However, majority is among the people attending High Schools.



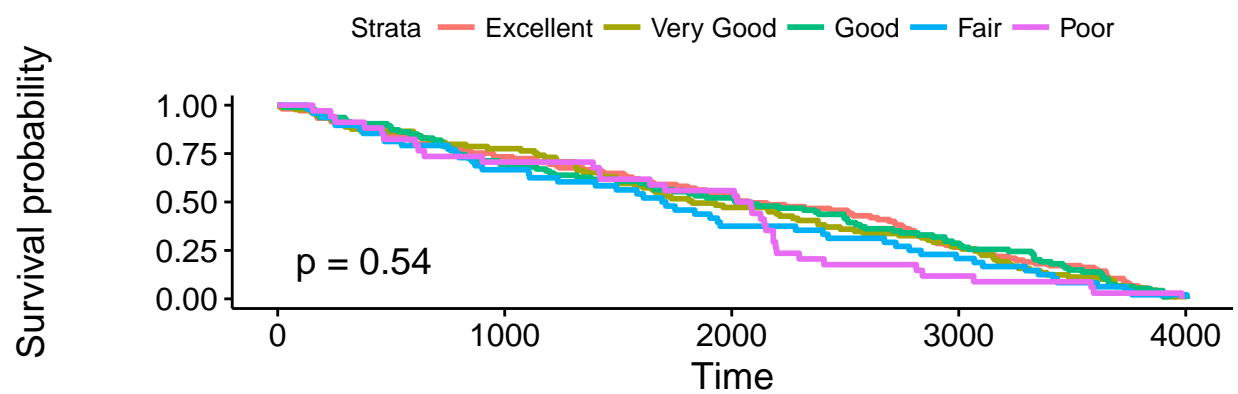
Unemployed people tend to be most vulnerable towards Suicide, but are outnumbered by Employed for records.



People living in Urban areas outnumber Rural population for Suicides.



People born in US are less resilient against Suicide, and are outnumbered by people Born Abroad.



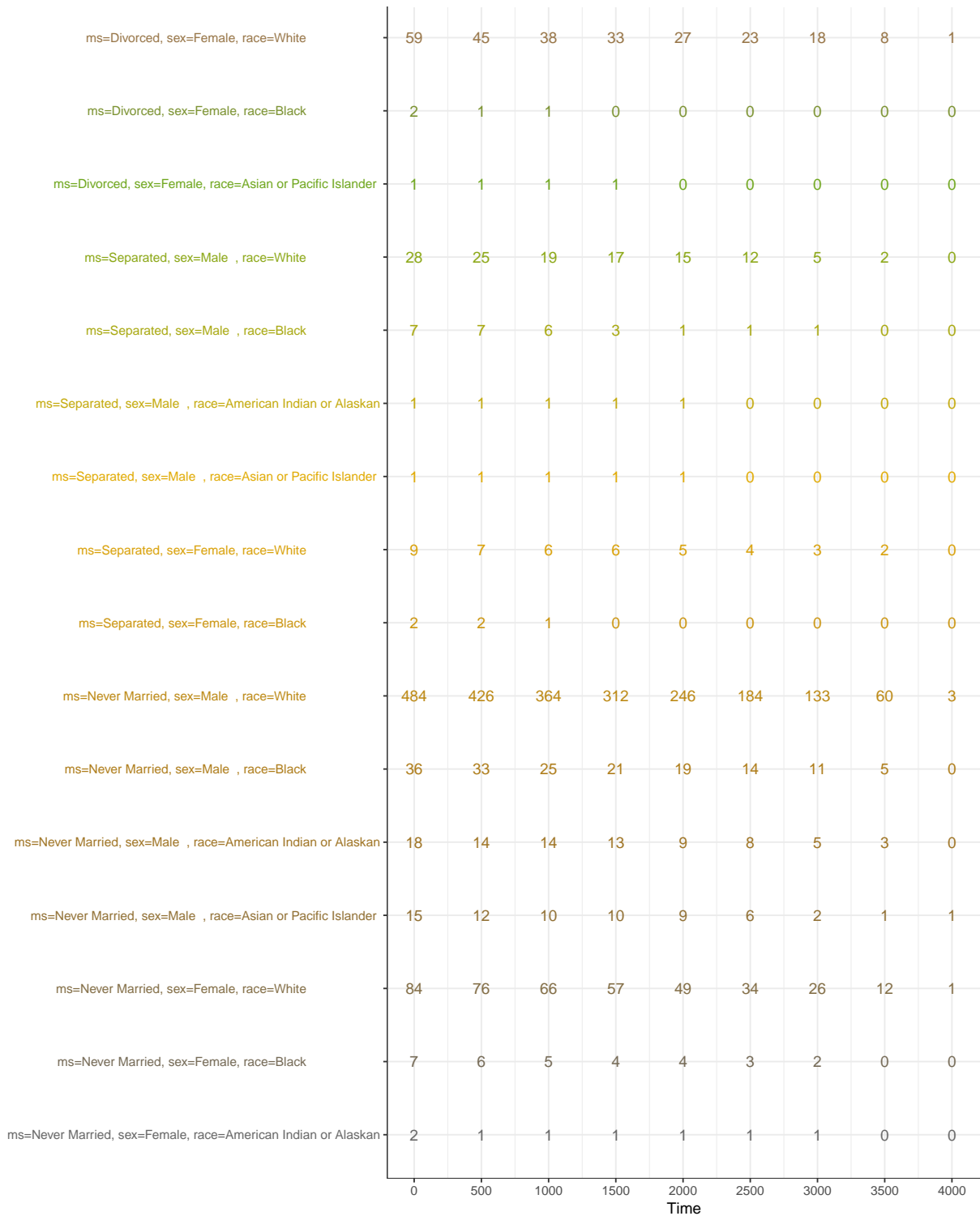
Survival w.r.t. Health Status

Strata	Excellent	Very Good	Good	Fair	Poor
Excellent	105	77	56	28	0
Very Good	89	69	42	24	1
Good	94	65	49	27	0
Fair	48	32	18	10	1
Poor	34	24	19	4	0

Time

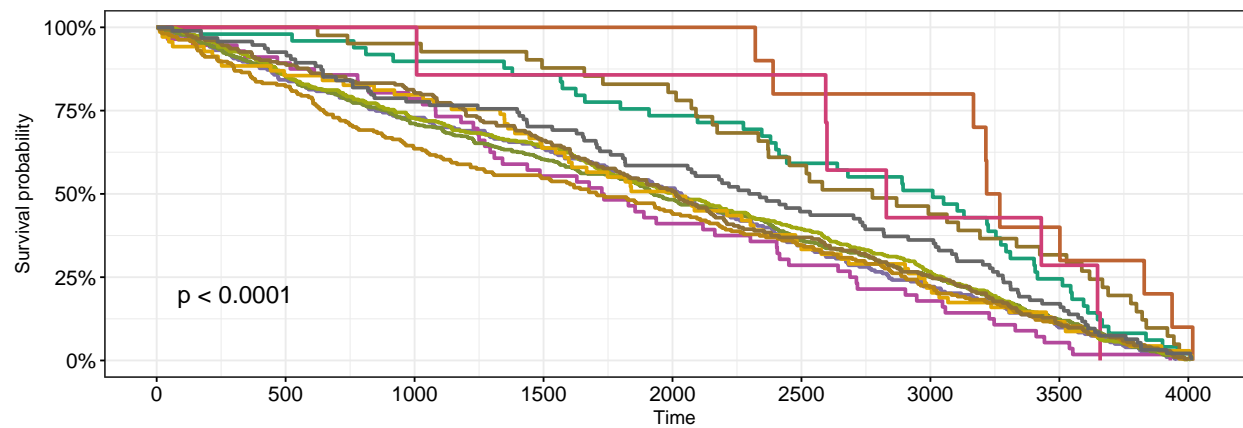
People with average health are least resilient but are outnumbered by people with Excellent Health.

5



```
## Warning in .get_data(fit, data = data): The `data` argument is not
## provided. Data will be extracted from model fit.
```

vel=NA, incomeGroup=Less Than 25k educLevel=Upto E8, incomeGroup=Less Than 25k educLevel=H1 to H4, incomeGroup=Less Than 25k educLevel=C1 to C6, inc
 vel=NA, incomeGroup=Between 25k and 50k educLevel=Upto E8, incomeGroup=Between 25k and 50k educLevel=H1 to H4, incomeGroup=Between 25k and 50k educLevel=C1 to C6, inc
 vel=NA, incomeGroup=More than 75k educLevel=Upto E8, incomeGroup=More than 75k educLevel=H1 to H4, incomeGroup=More than 75k educLevel=C1 to C6, inc



```
## Warning in .get_data(fit, data = data): The `data` argument is not
## provided. Data will be extracted from model fit.
```

Survival w.r.t Highest Degree, Income										
Strata	educLevel=NA, incomeGroup=Less Than 25k	49	48	44	42	36	29	25	12	1
	educLevel=NA, incomeGroup=Between 25k and 50k	41	41	39	36	33	24	18	13	1
	educLevel=NA, incomeGroup=More than 75k	10	10	10	10	10	8	8	4	1
	educLevel=Upto E8, incomeGroup=Less Than 25k	203	171	148	130	105	70	45	20	0
	educLevel=Upto E8, incomeGroup=Between 25k and 50k	56	50	44	31	23	16	10	3	0
	educLevel=Upto E8, incomeGroup=More than 75k	7	7	7	6	6	6	3	2	0
	educLevel=H1 to H4, incomeGroup=Less Than 25k	520	445	370	314	251	187	130	64	2
	educLevel=H1 to H4, incomeGroup=Between 25k and 50k	356	305	259	227	179	141	95	40	0
	educLevel=H1 to H4, incomeGroup=More than 75k	69	59	55	44	35	23	15	8	2
	educLevel=C1 to C6, incomeGroup=Less Than 25k	214	176	136	117	95	74	47	24	0
	educLevel=C1 to C6, incomeGroup=Between 25k and 50k	203	181	163	134	103	75	51	22	0
	educLevel=C1 to C6, incomeGroup=More than 75k	94	87	73	66	55	42	34	16	2
Time										

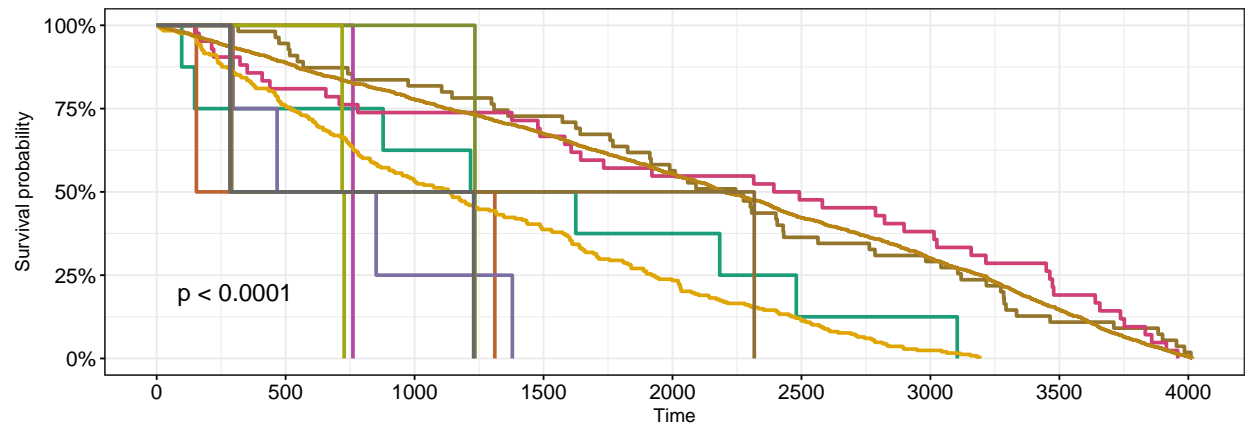
For people with any Education level- most occurrences are in Lowest income group. Along with, there are comparative occurrences in the next income group of 25k to 50k for people with Education level C1 to C6.

1=Born in US
 1=Born Abroad
 1=Foreigner

hisp=Other Hispanics, citizen=Born in US
 hisp=Other Hispanics, citizen=Born in PR
 hisp=Other Hispanics, citizen=Born Abroad

hisp=Other Hispanics, citizen=Foreign born, Naturally American
 hisp=Other Hispanics, citizen=Foreigner
 hisp=Non- Hispanics, citizen=Born in US

hisp=Non- Hispanics, citizen=Born Abroad
 hisp=Non- Hispanics, citizen=Foreign born, Naturally American
 hisp=Non- Hispanics, citizen=Foreigner



Survival w.r.t Hispanic, and Citizen

hisp=Mexican, citizen=Born in US	8	6	5	4	3	1	1	0	0
hisp=Mexican, citizen=Born Abroad	55	52	45	40	31	20	16	6	1
hisp=Mexican, citizen=Foreigner	2	1	1	0	0	0	0	0	0
hisp=Other Hispanics, citizen=Born in US	4	2	1	0	0	0	0	0	0
hisp=Other Hispanics, citizen=Born in PR	1	1	0	0	0	0	0	0	0
hisp=Other Hispanics, citizen=Born Abroad	42	34	31	28	23	20	16	8	0
hisp=Other Hispanics, citizen=Foreign born, Naturally American	1	1	1	0	0	0	0	0	0
hisp=Other Hispanics, citizen=Foreigner	2	2	0	0	0	0	0	0	0
hisp=Non- Hispanics, citizen=Born in US	248	188	132	96	58	28	6	0	0
hisp=Non- Hispanics, citizen=Born Abroad	1772	1575	1378	1196	984	750	533	260	9
hisp=Non- Hispanics, citizen=Foreign born, Naturally American	2	1	1	1	1	0	0	0	0
hisp=Non- Hispanics, citizen=Foreigner	2	1	1	0	0	0	0	0	0

Time