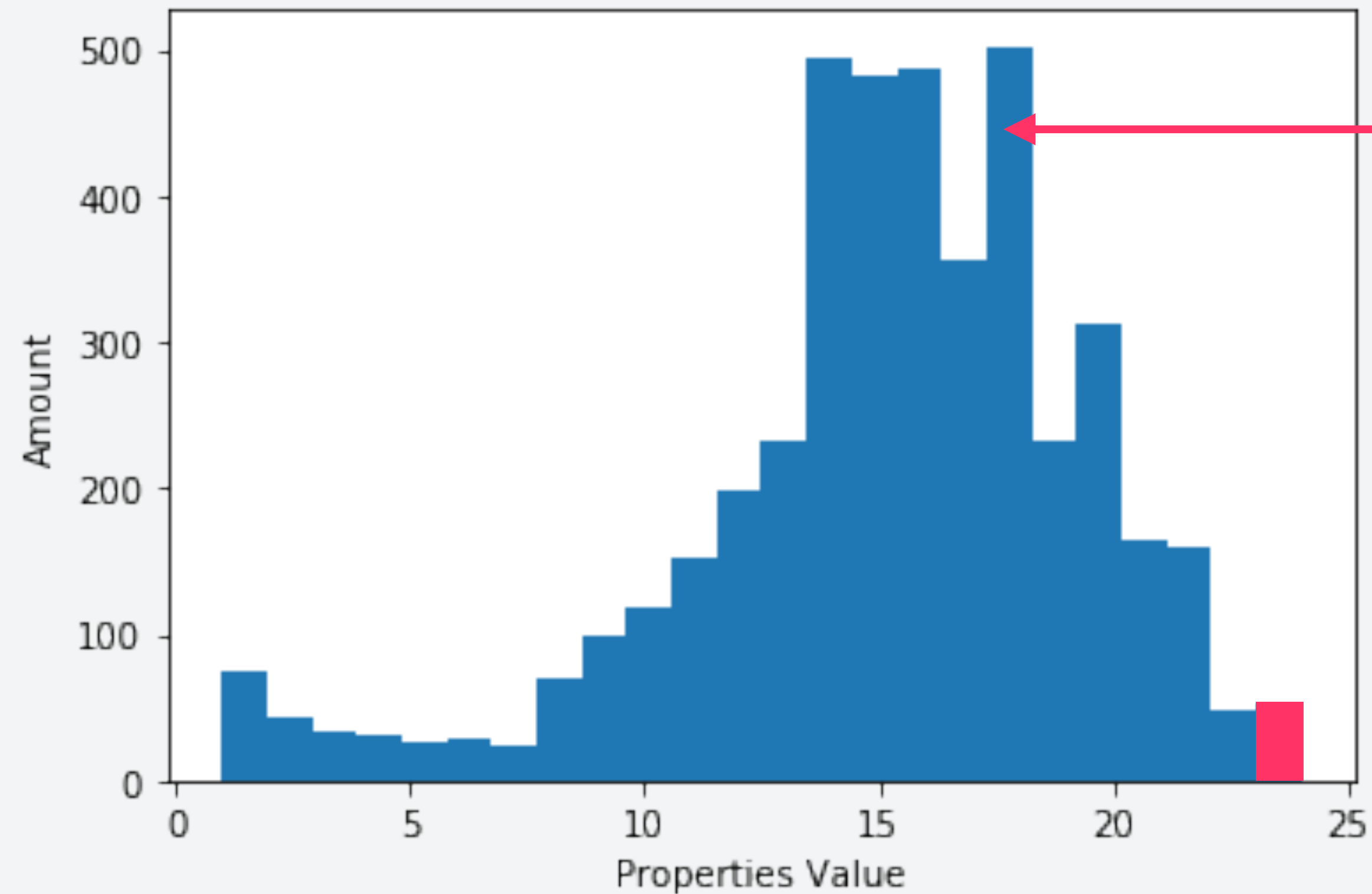


# 1. How many properties are worth \$1,000,000 or more?

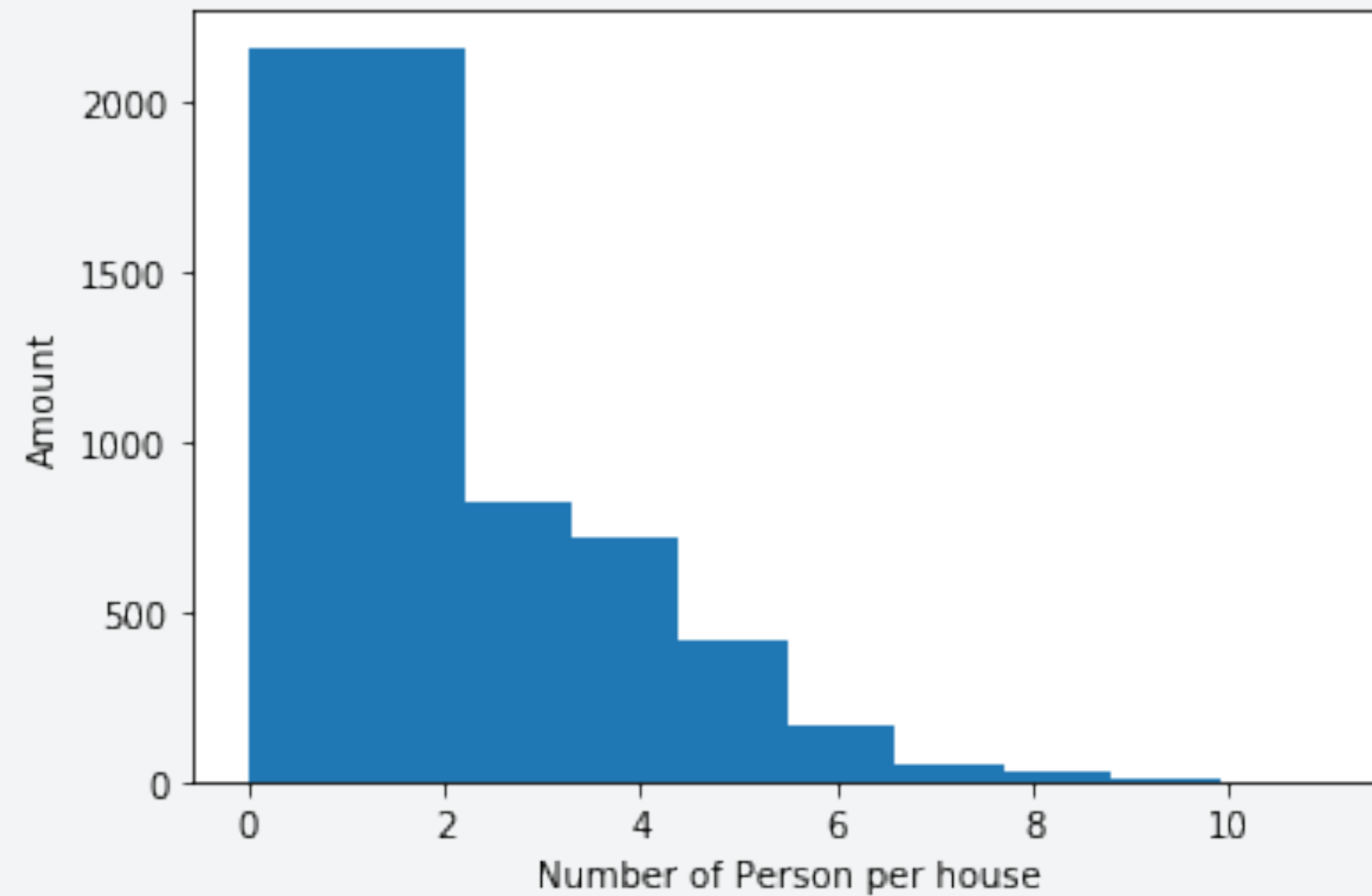


The highest amount of properties value range is **\$200,000 - \$249,999** which have **502 properties**

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| <b>01</b> .Less than \$ 10000   | <b>13</b> . \$ 90000 - \$ 99999   |
| <b>02</b> . \$ 10000 - \$ 14999 | <b>14</b> . \$ 100000 - \$ 124999 |
| <b>03</b> . \$ 15000 - \$ 19999 | <b>15</b> . \$ 125000 - \$ 149999 |
| <b>04</b> . \$ 20000 - \$ 24999 | <b>16</b> . \$ 150000 - \$ 174999 |
| <b>05</b> . \$ 25000 - \$ 29999 | <b>17</b> . \$ 175000 - \$ 199999 |
| <b>06</b> . \$ 30000 - \$ 34999 | <b>18</b> . \$ 200000 - \$ 249999 |
| <b>07</b> . \$ 35000 - \$ 39999 | <b>19</b> . \$ 250000 - \$ 299999 |
| <b>08</b> . \$ 40000 - \$ 49999 | <b>20</b> . \$ 300000 - \$ 399999 |
| <b>09</b> . \$ 50000 - \$ 59999 | <b>21</b> . \$ 400000 - \$ 499999 |
| <b>10</b> . \$ 60000 - \$ 69999 | <b>22</b> . \$ 500000 - \$ 749999 |
| <b>11</b> . \$ 70000 - \$ 79999 | <b>23</b> . \$ 750000 - \$ 999999 |
| <b>12</b> . \$ 80000 - \$ 89999 | <b>24</b> . \$ 1000000+           |

There are **53 properties** that worth \$1,000,000 or more

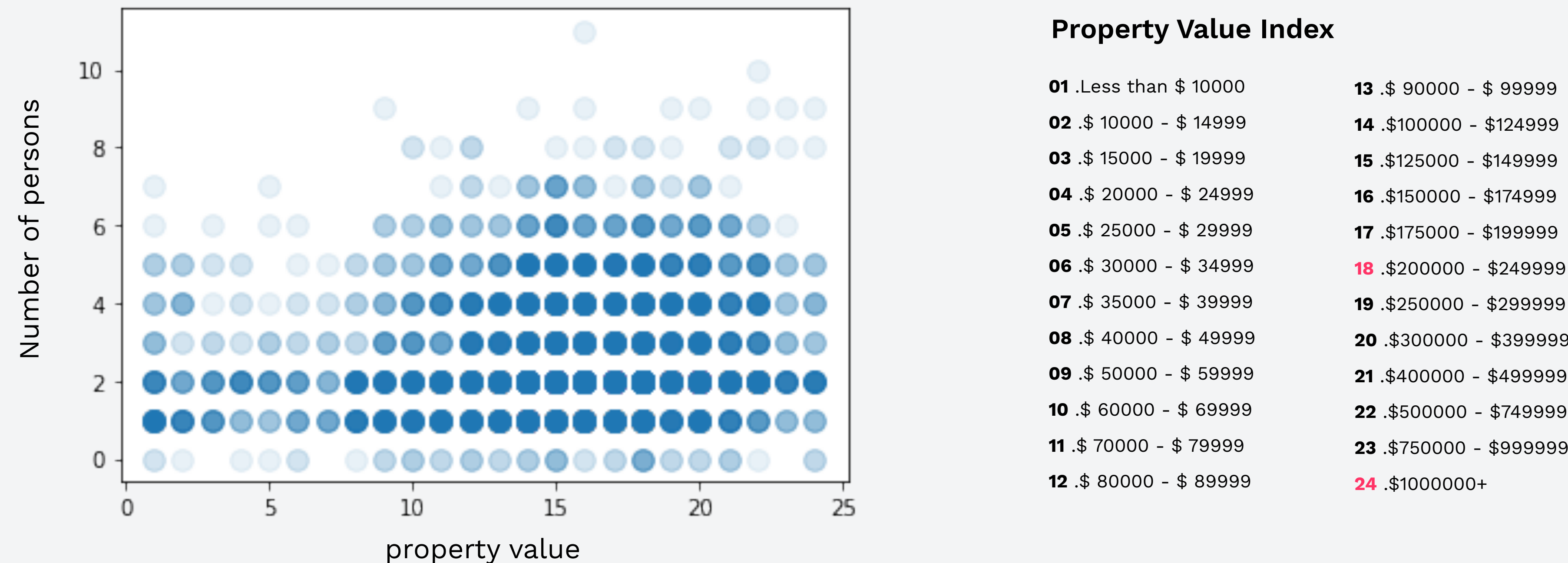
## 2. How many person recorded in a house on average



```
count      6496.000000
mean        2.298491
std         1.563549
min         0.000000
25%         1.000000
50%         2.000000
75%         3.000000
max         11.000000
Name: NP, dtype: float64
```

Average number of person per house is **2.2984913793103448**

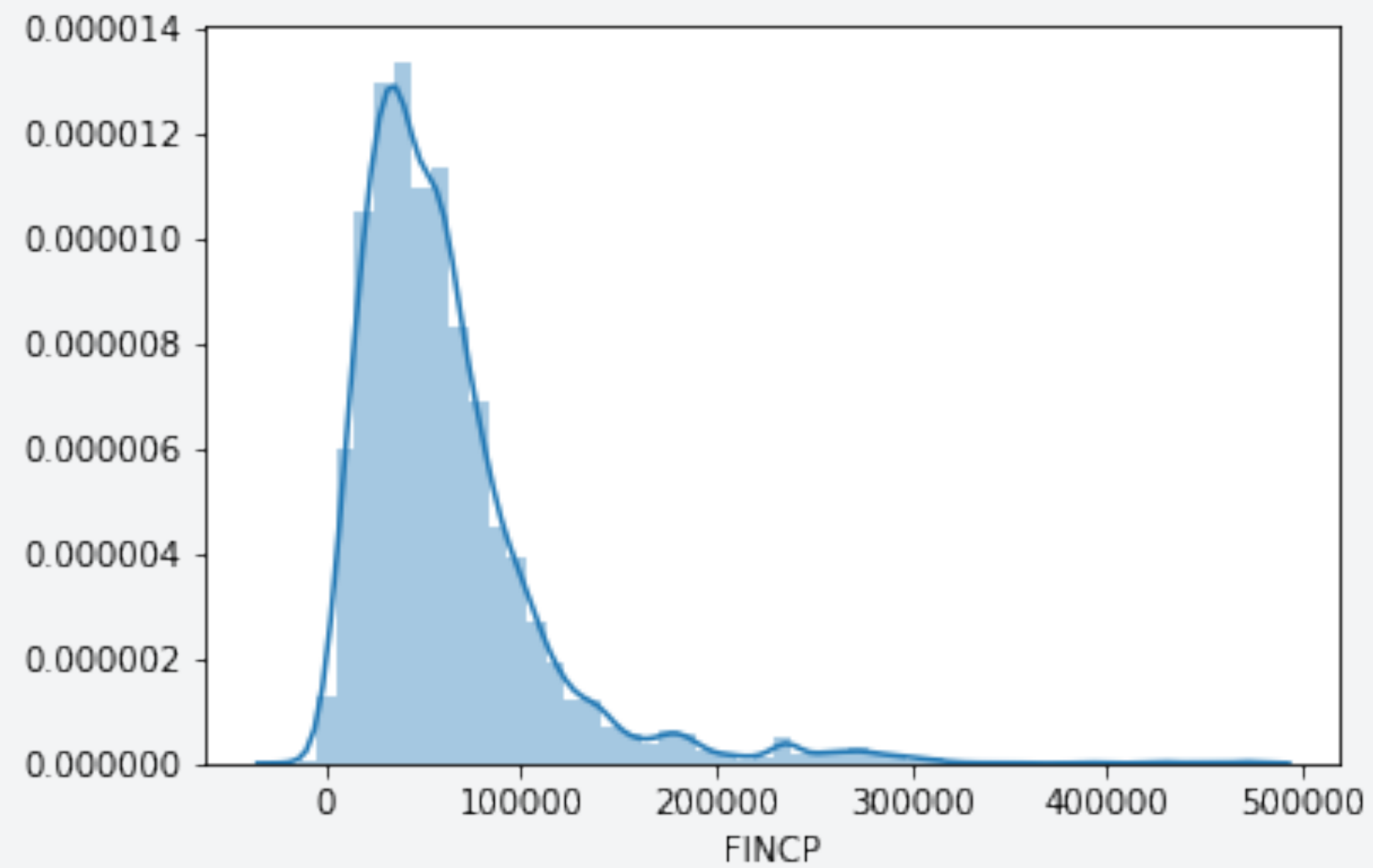
3. Draw a graph to show the relationship between the property value and the number of persons recorded?



This graph illustrate that property value is not much related to number of person.  
Because we can't find correlation between both variables

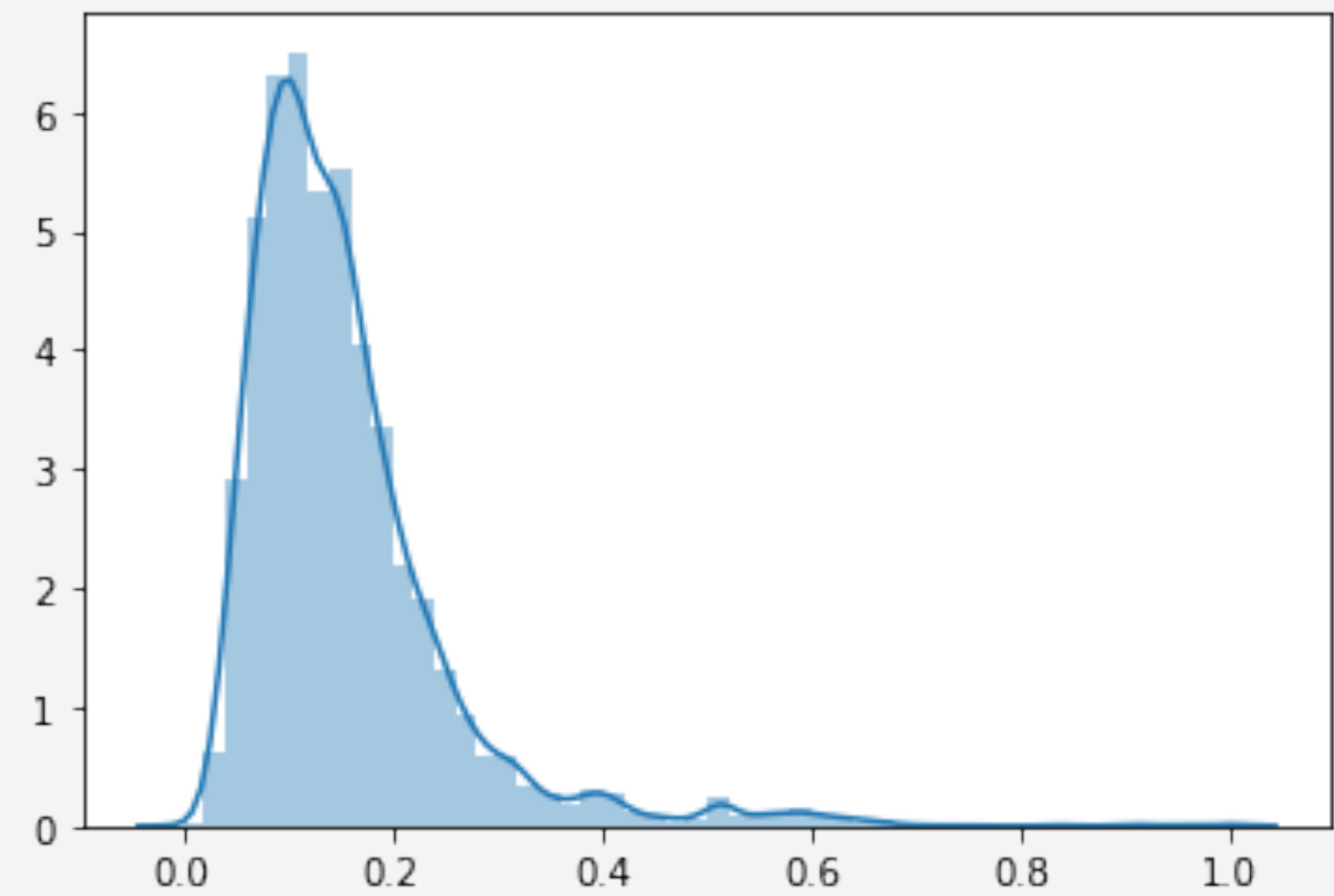
#### 4. Normalise family income into a range (0~1). Compare before vs after in histogram.

Before



VS

After



## 5. Create 5 bins for family income.

