Table 1 | Summary of studies quantifying PEV resale value.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Study | Model Years | MSRP Data | Resale Value Data | Resolution | Sample Size | Main Results |
| This study | 2012-2018 | EPA; carsheet.io | marketcheck | Daily listings | 9,015,324 | BEVs and PHEVs depreciate quicker than CV/HEV but is improving with more recent model years and higher ranges. |
| Rush et al. (2022)17 | 2012-2019 | Edmunds | Edmunds TMV | Monthly time series | 582,000\* | CVs and HEVs consistent 3-yr retention; PHEVs and BEVs initially lower but increasing in retained value |
| Burnham et al. (2021)18 | 2013-2019 | EPA | Edmunds TMV | 1 TMV snapshot (July 2020) | 686\* | BEVs and PHEVs depreciate more quickly than HEVs and CVs |
| Hamza et al. (2020)19 | 2014 & 2019 | KBB | KBB | Snapshot (2019) | 72\* | PHEVs and CVs hold value similarly; BEVs 11% lower retention over 5 years (CA only) |
| Guo et al. (2019)11 | 2010-2016 | Wards | Edmunds TMV | Snapshot (Q4 2016) | 1,400\* | PEV retention lower than gasolines equivalents. Tesla major exception with highest retained value over time. |
| Schoettle et al. (2018)20 | 2011-2015 | EPA | KBB | Snapshot (Jan. 2018) | 200\* | PHEVs retained resale value equally as well as CVs (i.e., 0% average difference), and BEVs improved to an average of -5.7% difference in resale value compared to CVs |
| Tal et al. (2017)21 | 2011-2015 | New car buyers survey / OEM website | Self-reported used car buyers survey | Snapshot (2016) | 160\* | PEVs models held 34% (2011 Nissan Leaf) to 80% (2014 Toyota Prius plug-in) of value in 2015 compared to MSRP. (CA only) |
| Zhou et al. (2016)22 | Unknown | NADA guides | NADA guides | Unknown | Unknown | Comparing the adjusted retention rates of PHEVs and BEVs with those of CVs indicates 2-3 year retention rate is lower for PEVs. |
| \*Sample sizes estimated based on descriptions of data.  Abbreviations:   * EPA = Environmental Protection Agency (fueleconomy.gov) * TMV = True Market Value (private party data) * KBB = Kelly Blue Book (private party data) * NADA = National Automobile Dealers Association | | | | | | |

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