







RECOVERY RESUMES, BUT OMICRON LOOMS

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INFORMATIONAL BRIEFING
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Recovery Resumes, But Omicron Looms

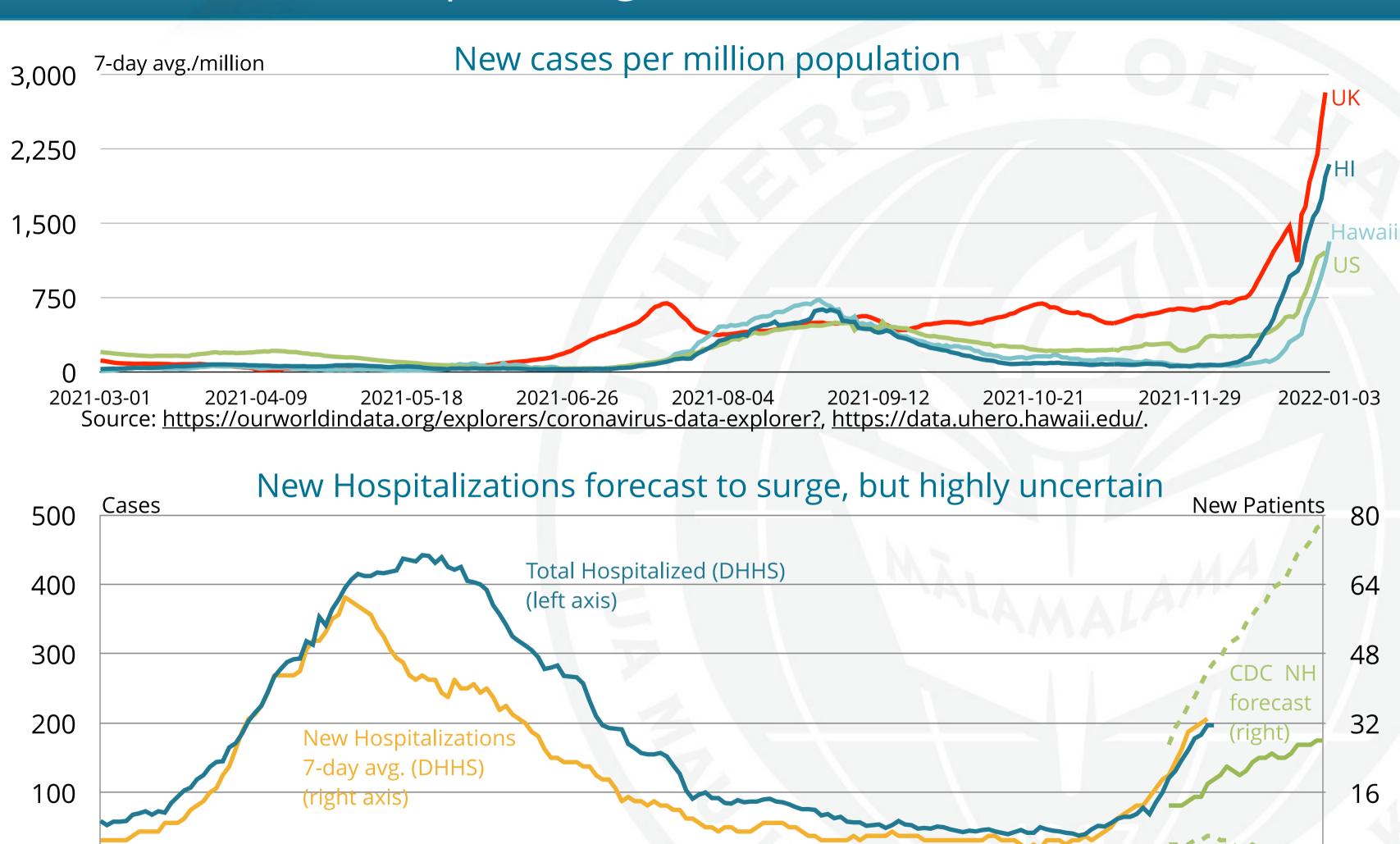
uncertainty continues to rule the day

- Again with you, COVID?
 - How contagious?
 Omicron's effective reproductive rate is estimated to be 3-5 times Delta. Cases are doubling in 2-3 days in many countries.
 - How virulent? Still too early to tell. Early studies find evidence of significant reductions in risk of hospitalization ranging from 15% to 66% reduction. No information on long-term effects.
 - How effective are vaccines and treatments?

 Boosters appear to provide good protection against hospitalization and severe disease.
 - Urging boosters is not enough.
 All islands should be using <u>vaccine passports</u>.
 Workplace safety requires a booster, <u>2 shots is not "fully vaccinated" any more</u>.
 At current rate it will take <u>more than 5 months to boost everyone eligible</u>.
- Uncertainty impacts economic forecast
 - International travel restrictions are a blow. Scenarios consider their duration.
 - Waning federal \$ means a drop in household incomes in 2022. BBB looks less likely.
 - Uncertain persistence of inflation and labor shortages are key drivers of outlook.



Omicron cases are spreading much faster than Delta



Source: <u>UHERO Data</u>— US DHHS, <u>CDC</u> Ensemble Forecast for New Hospitalizations + 95% prediction interval from 12/27 forecast.

Sep-25



Jan-21

Dec-30

Aug-08

Sep-01

0

Jul-15

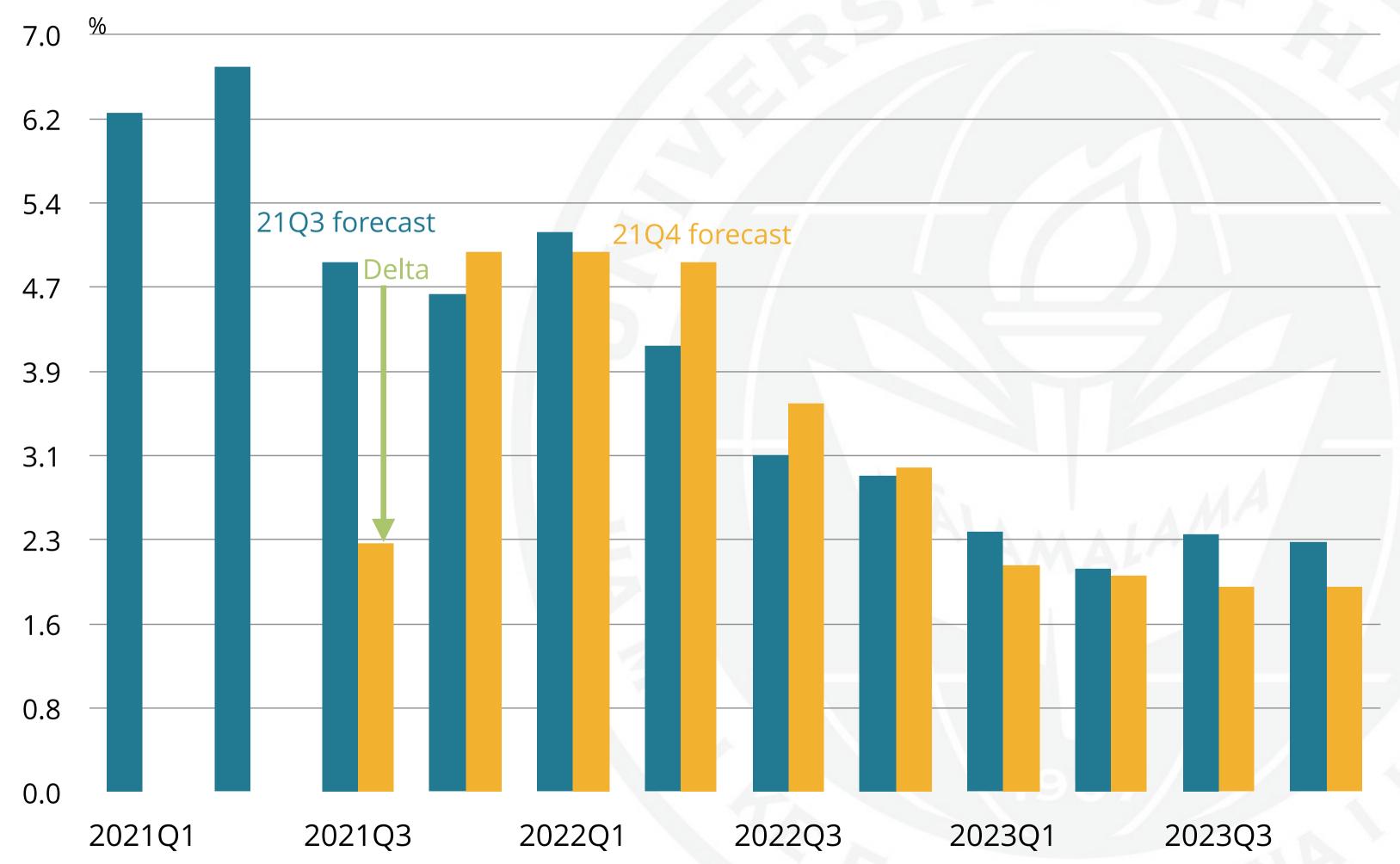
Oct-19

Nov-12

Dec-06

Like Delta, Omicron will slow US economy

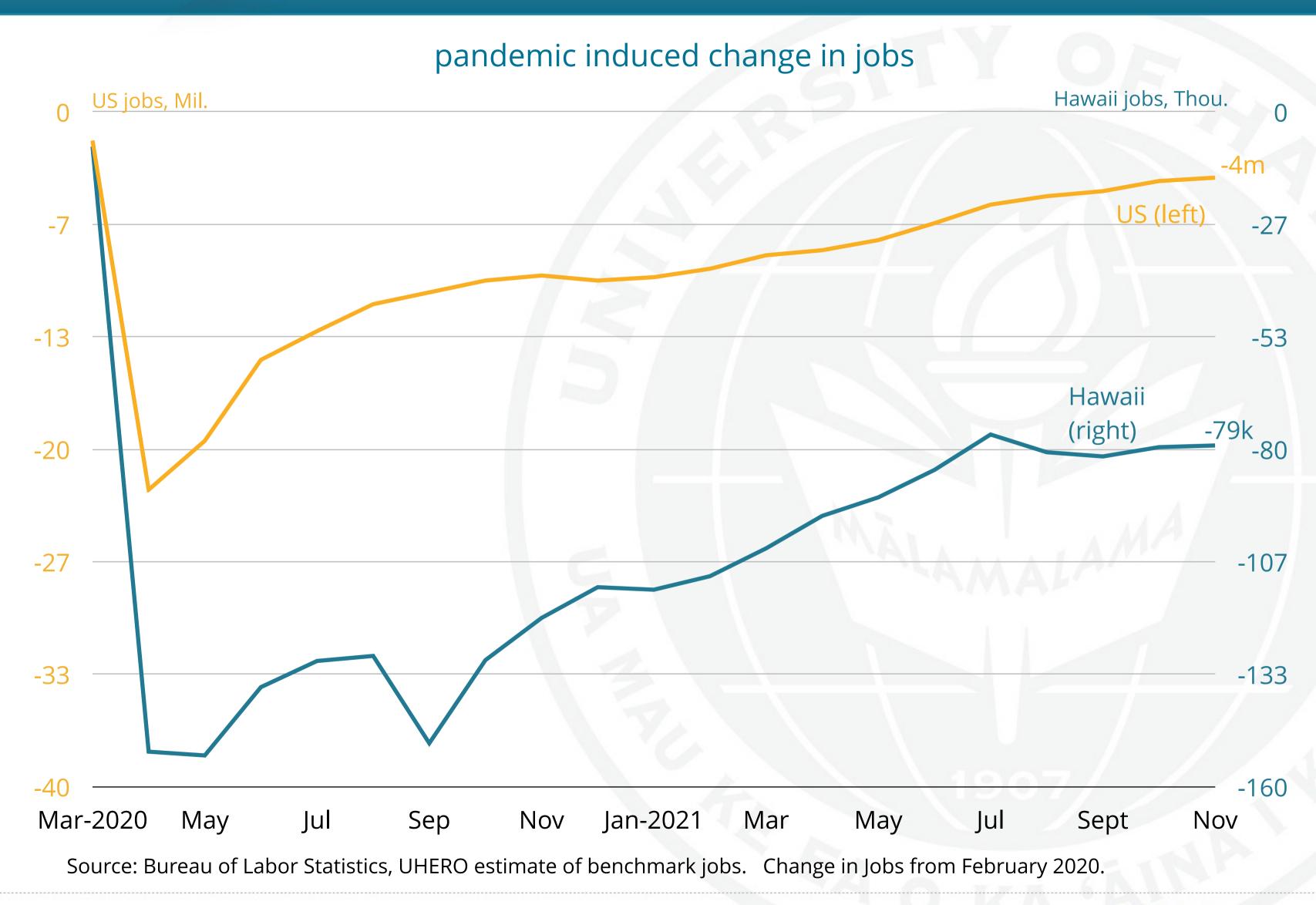




Source: BEA, <u>UHERO forecasts</u>. Percent change from preceding quarter, seasonally adjusted at annual rate.



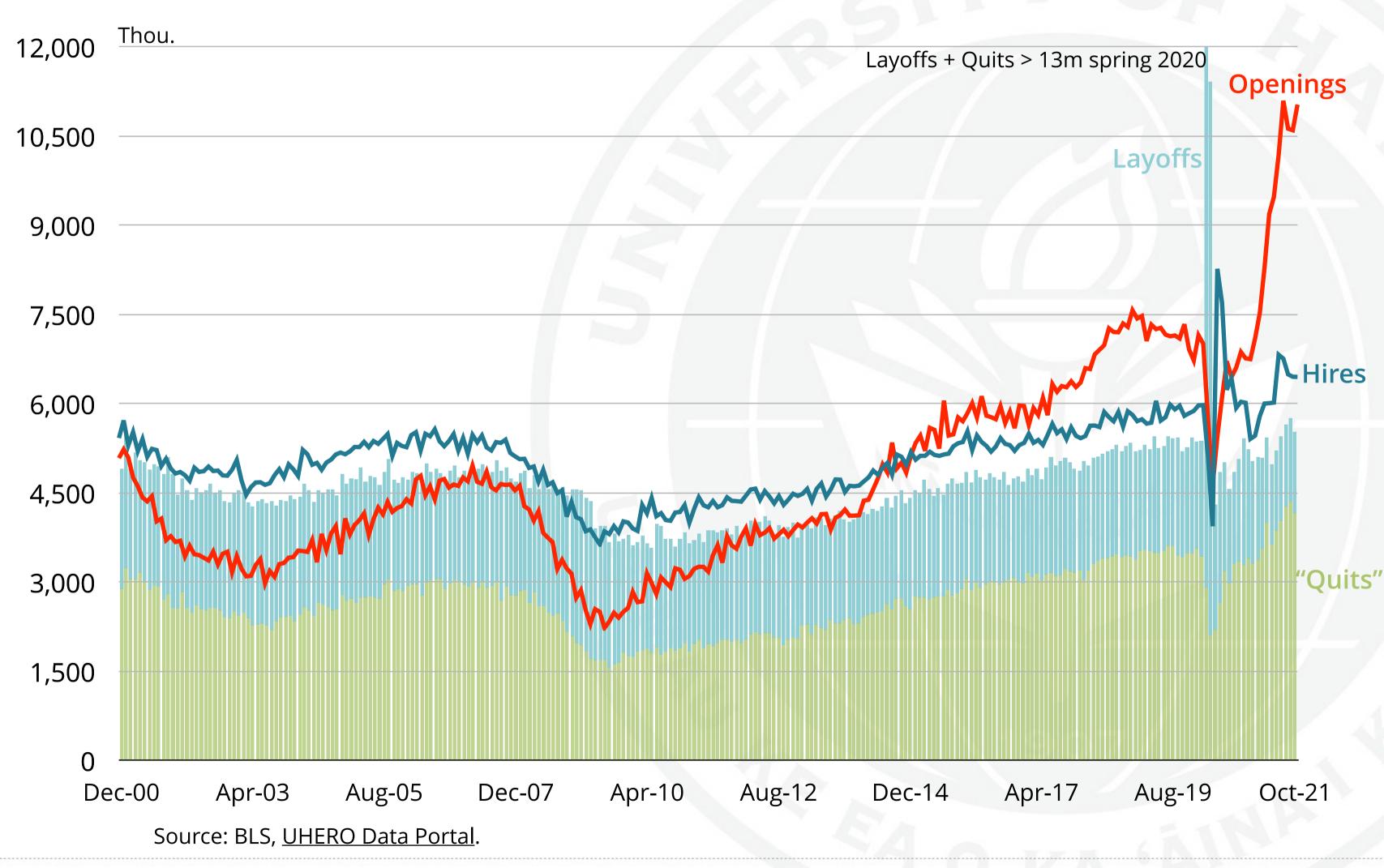
After Delta stall, jobs recovery faces Omicron challenge



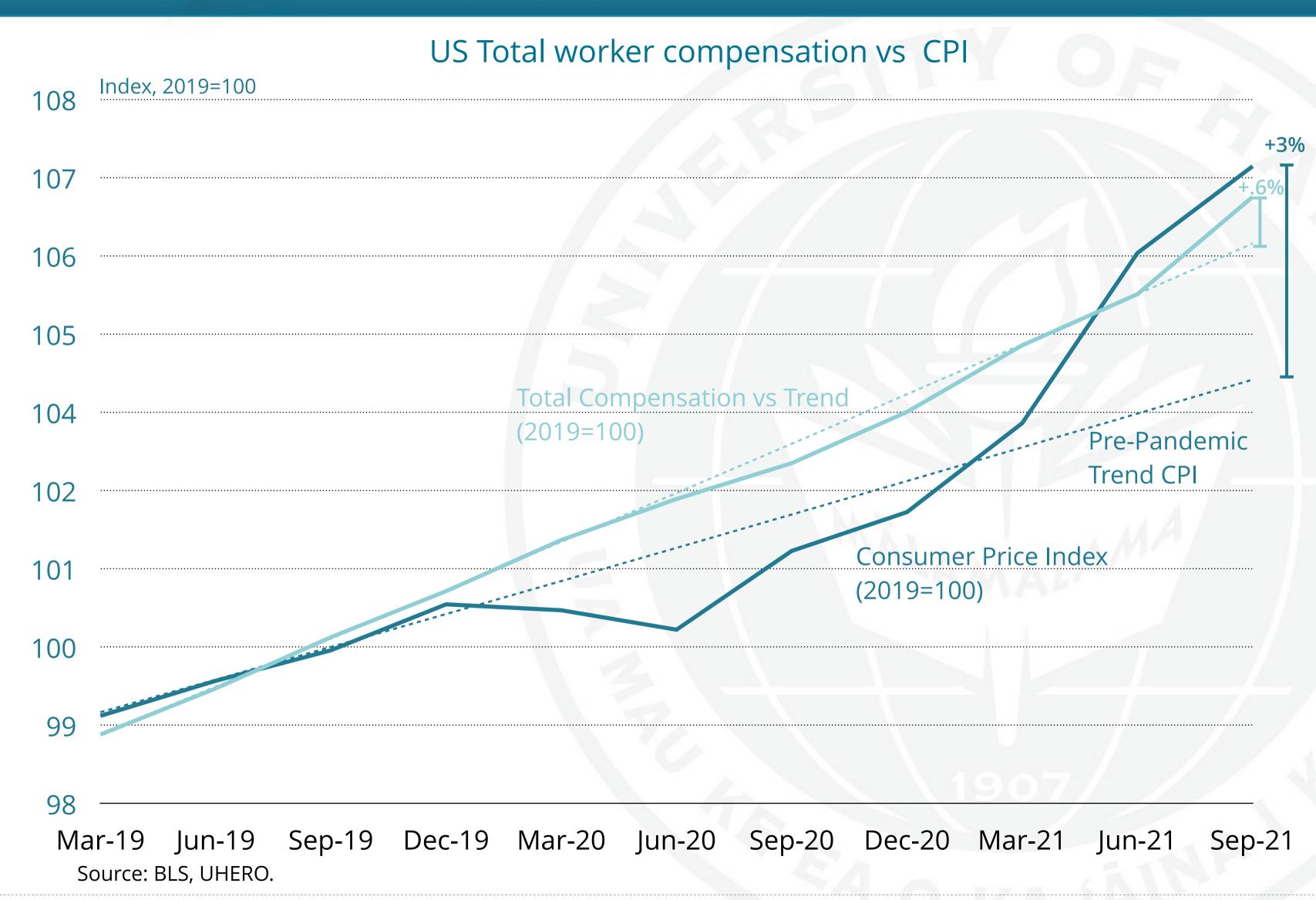


With available jobs plentiful, quits are at record highs

US labor "shortage" more than 3x higher than 2019 tight labor market

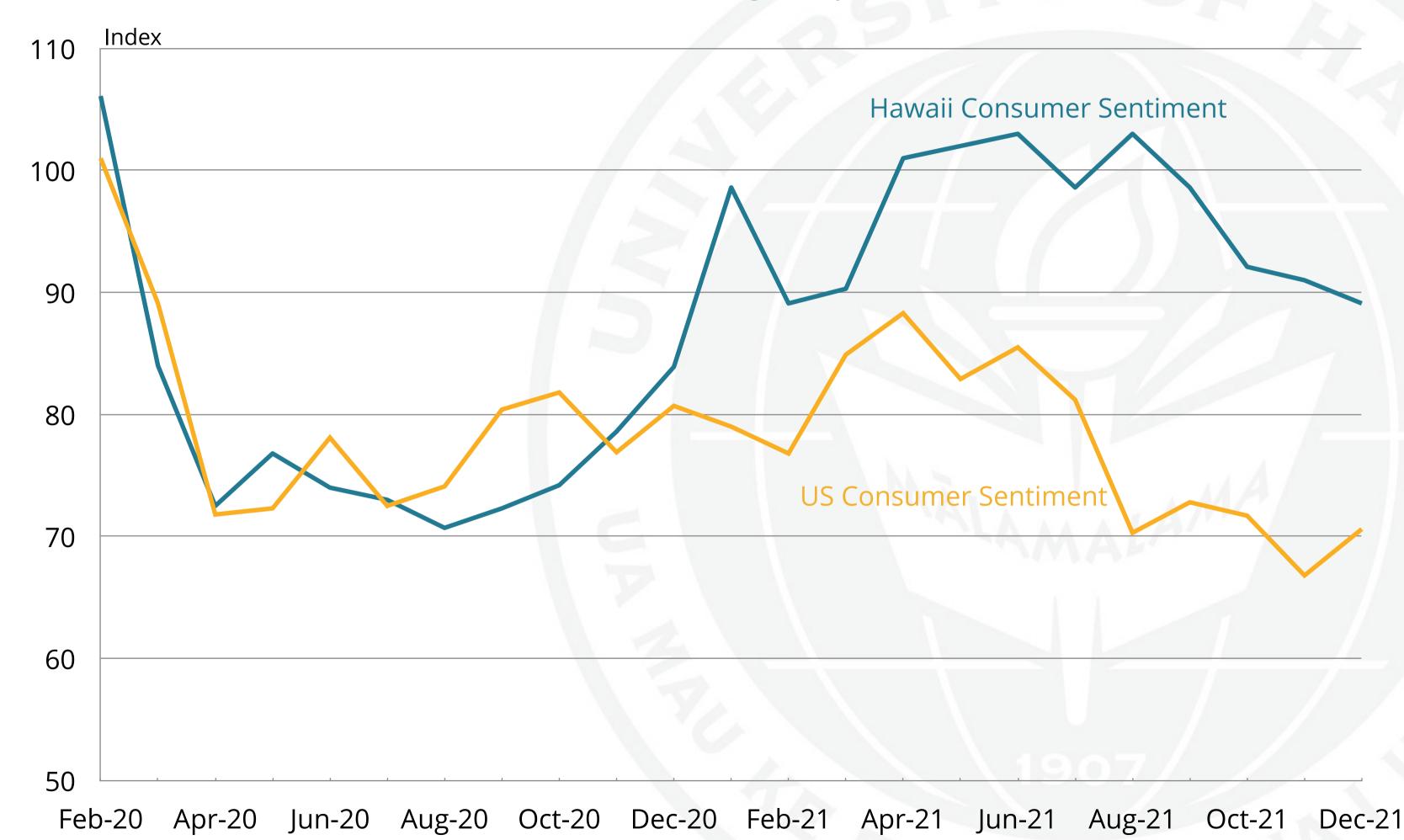


Yet wages are not keeping up with inflation



Its no wonder that sentiment has fallen sharply

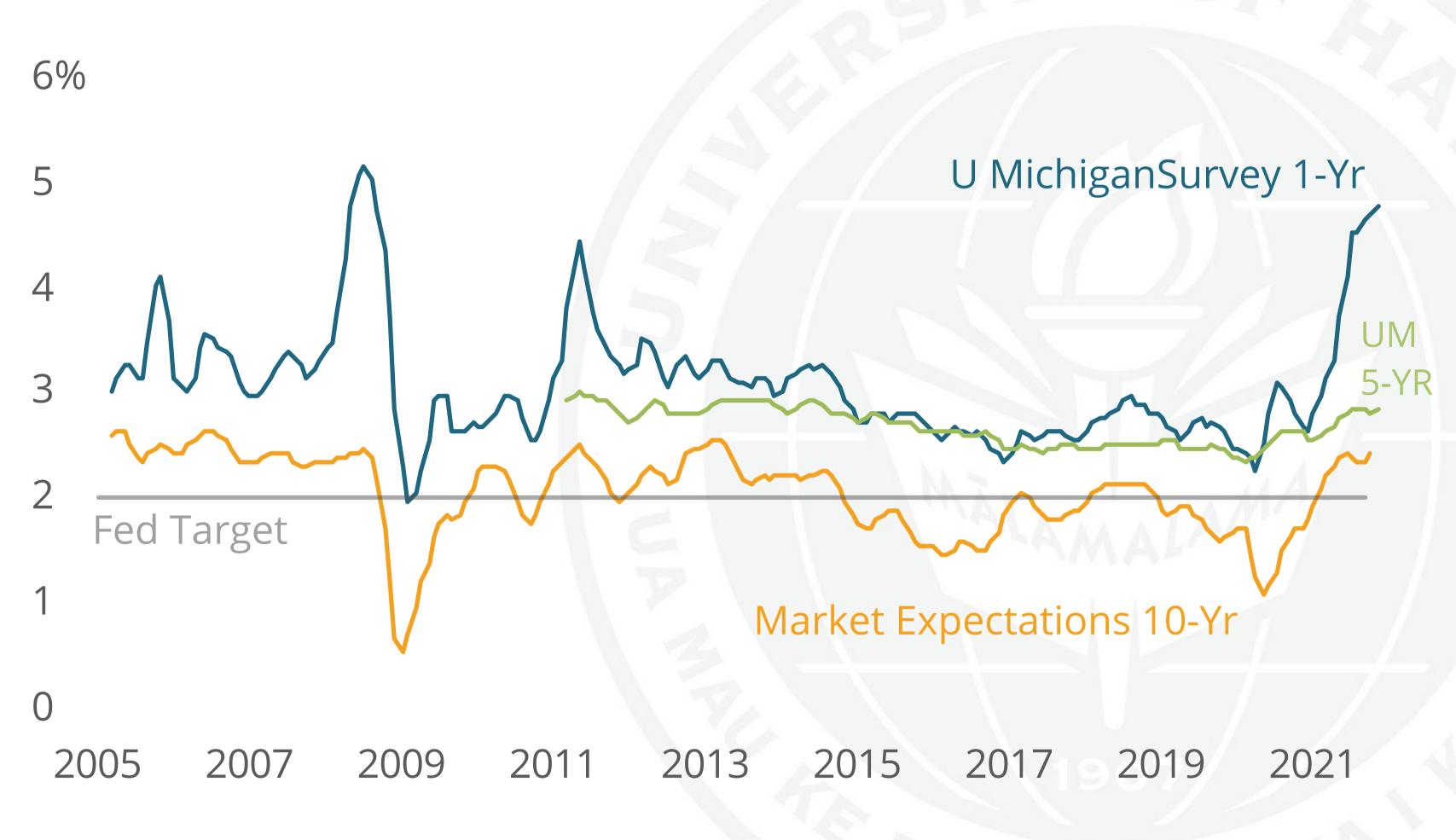
Consumers feeling the pinch



Source: University of Michigan, Survey of Consumers; Morning Consult Survey: <u>UHERO Data</u>

Longer run expectations are still anchored, almost

markets still expect inflation to be temporary

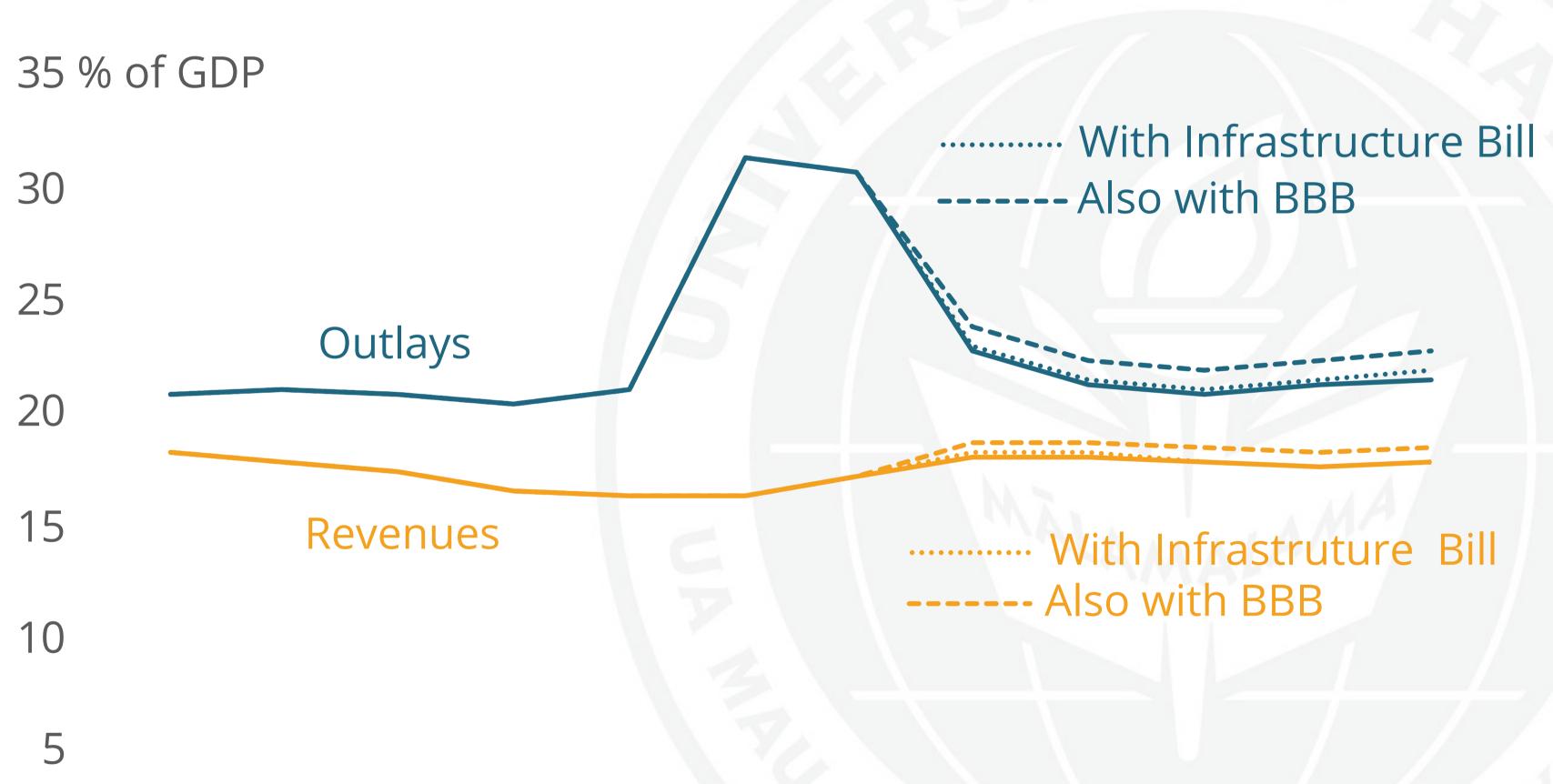


Source: FRED, University of Michigan Survey Research Center.



US Federal Outlays and Revenues

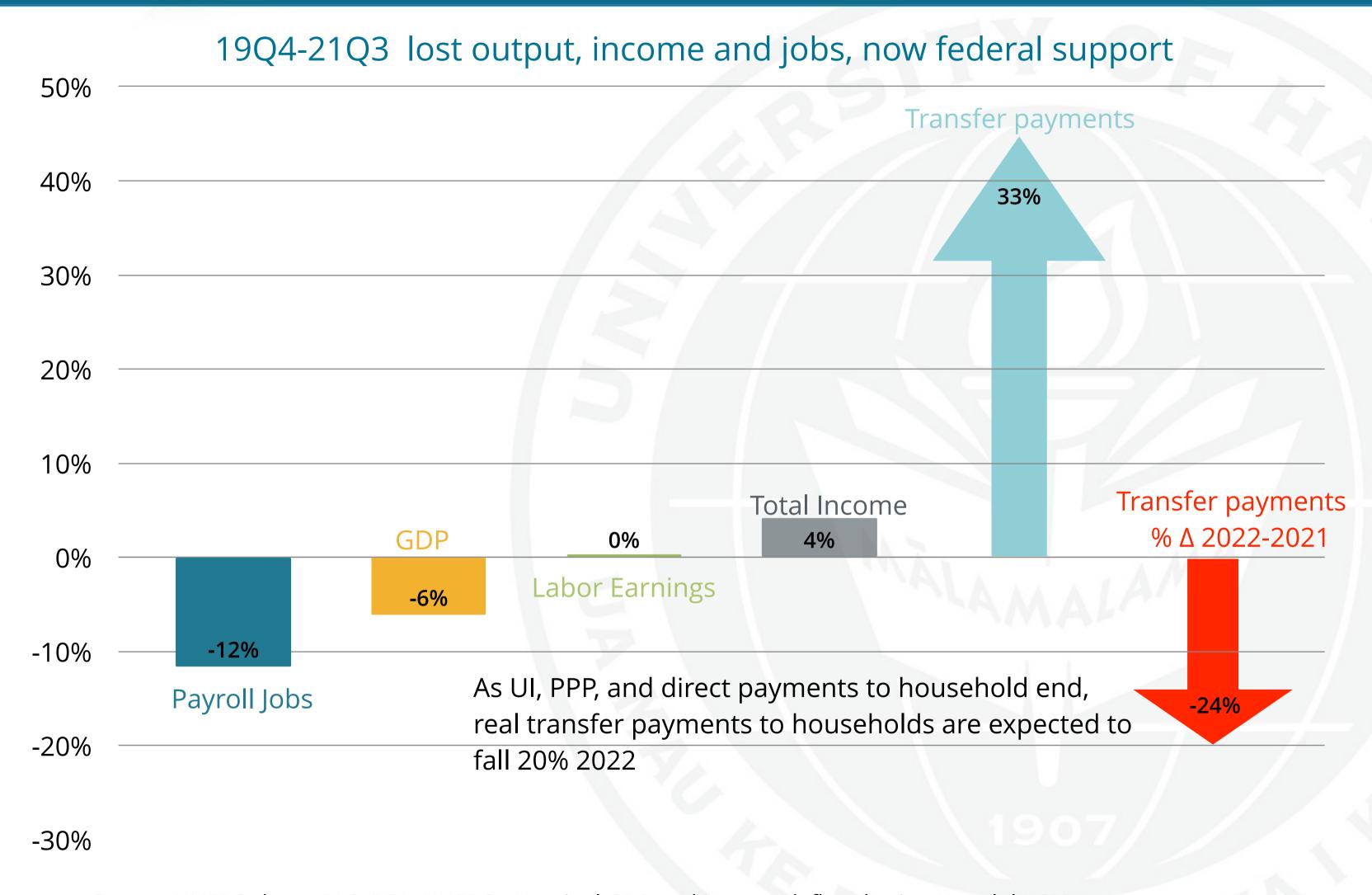
net spending set to fall below 2019 levels by 2023



2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026



Hawaii faces serious short term headwinds

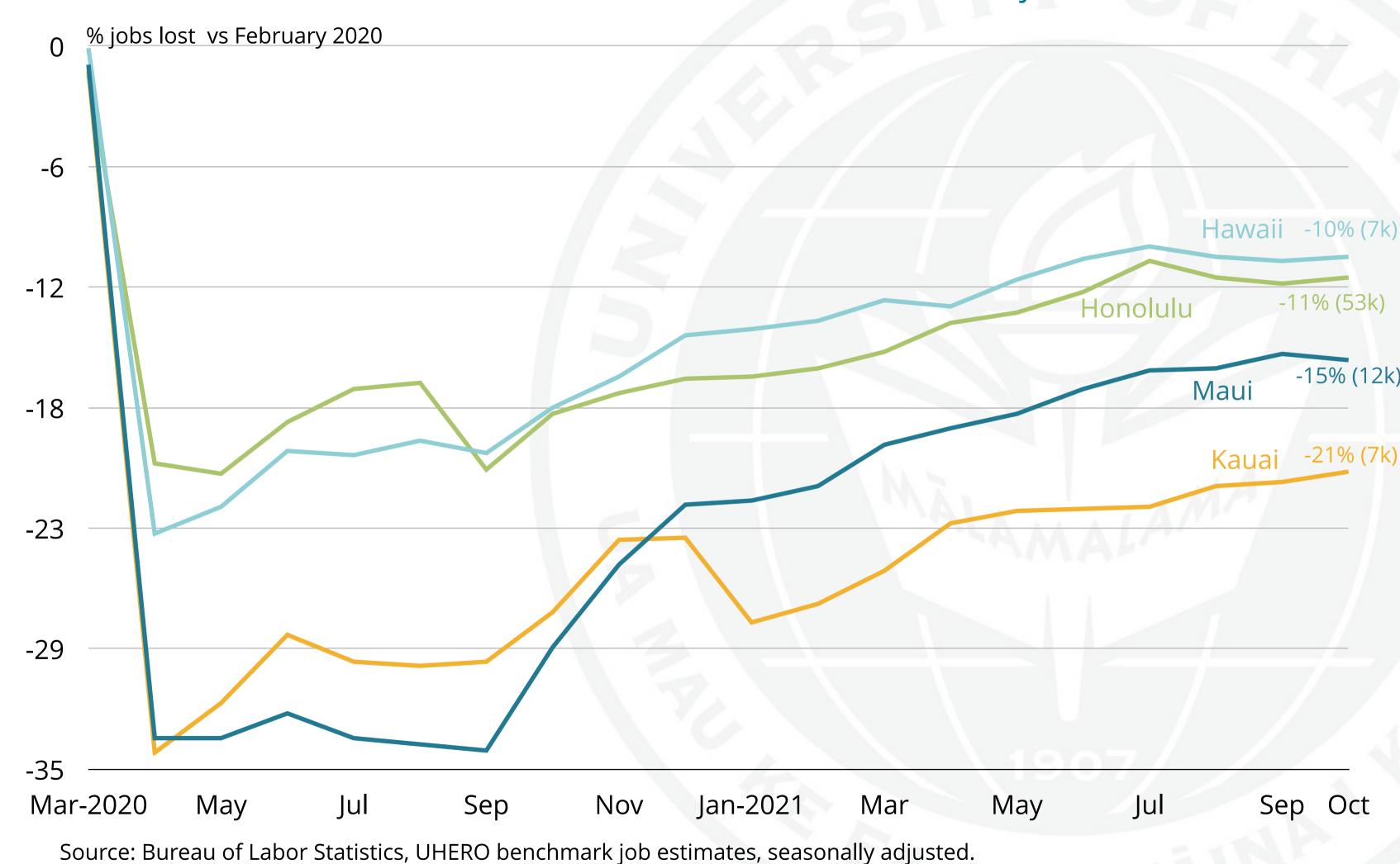


Source: <u>UHERO.data</u>—BLS, BEA, UHERO. Nominal GDP and Income deflated using Honolulu CPI. Percent change 2019 Q4 to 2021 Q3, seasonally adjusted.



While job market recovery depends on Omicron/labor force

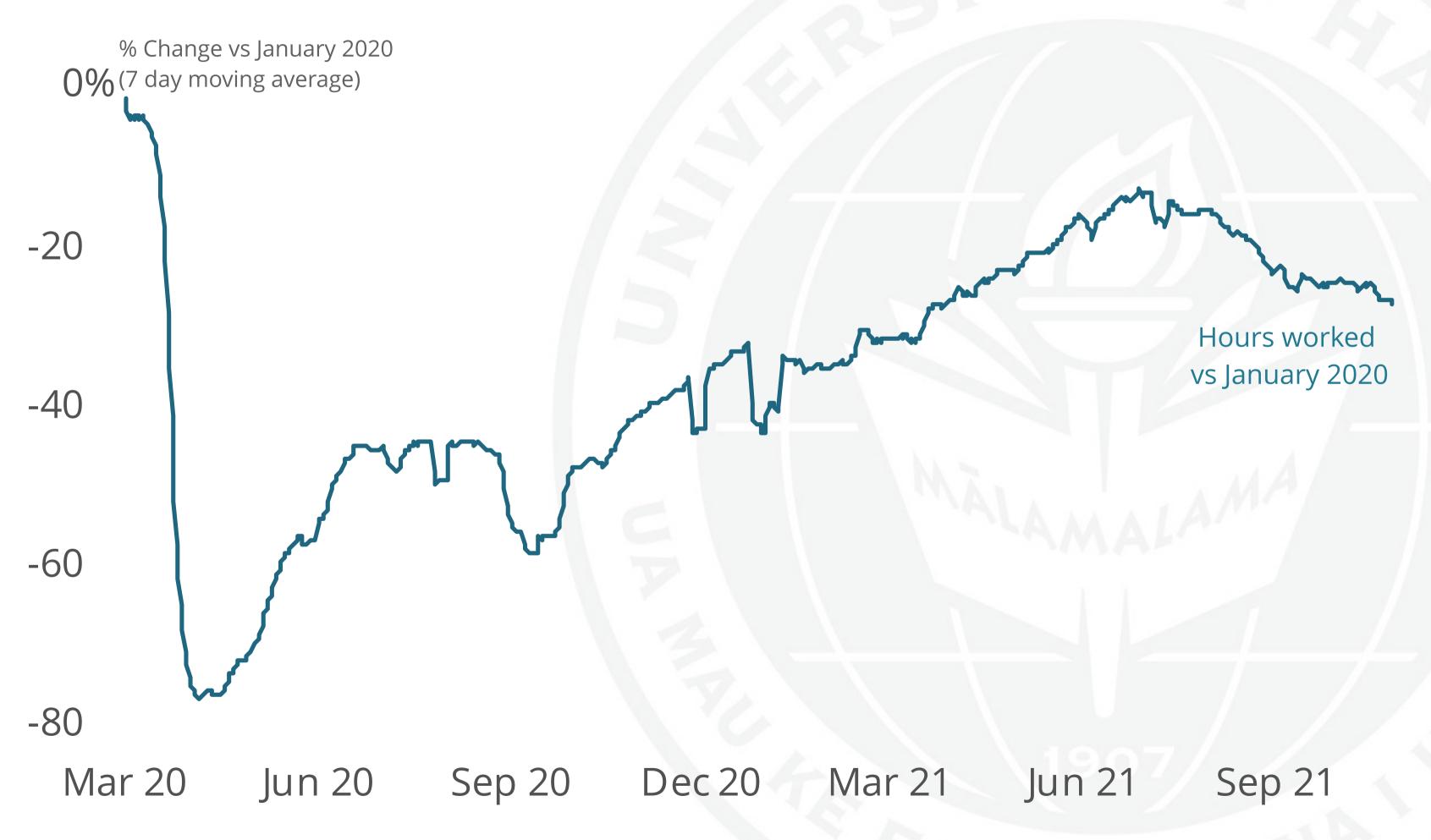
Delta stall left all counties at least 10% below 2020 job counts





It wasn't just a stall in hiring

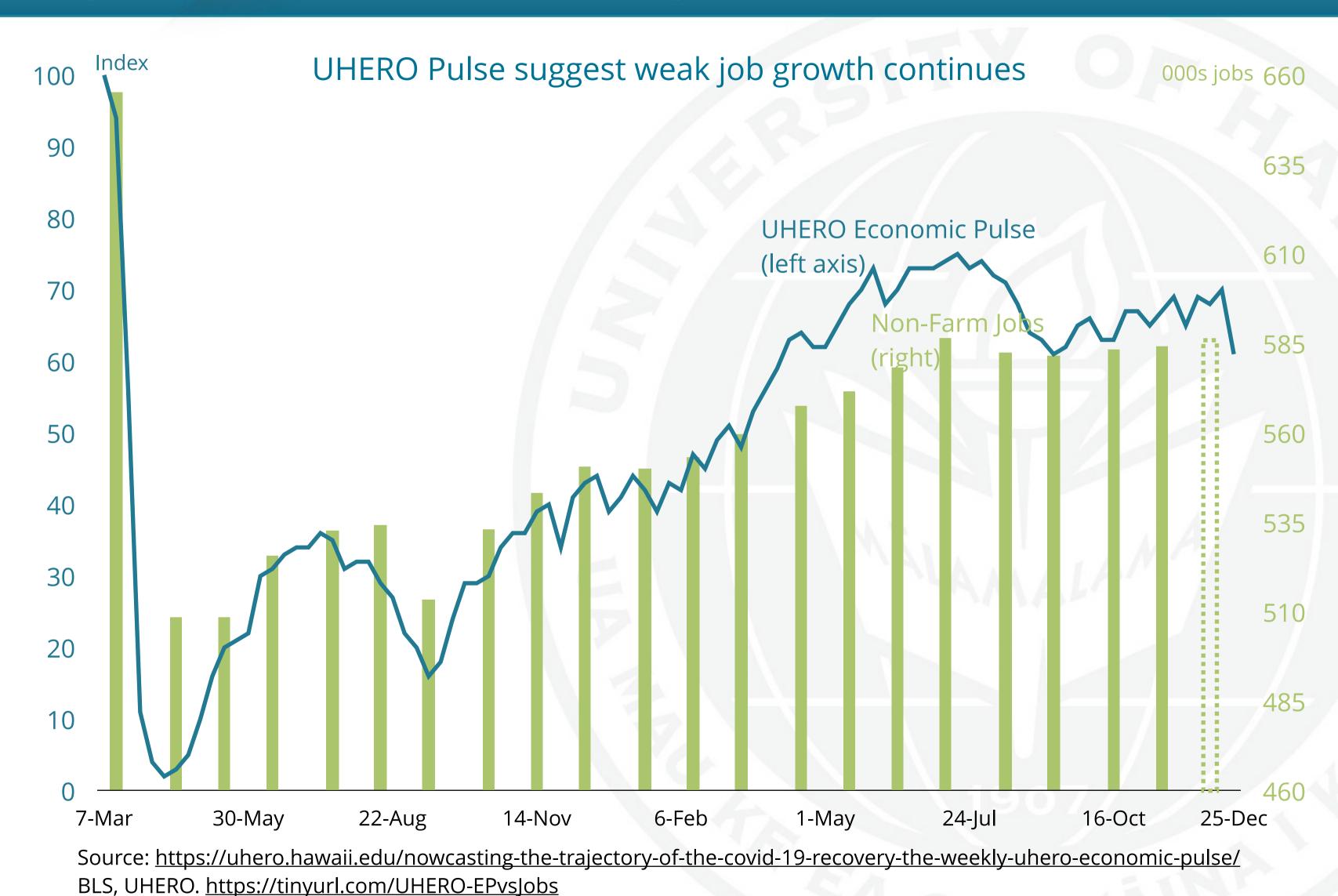
Hours worked fell sharply with Delta too



Source: Bureau of Labor Statistics, UHERO benchmark job estimates, seasonally adjusted.



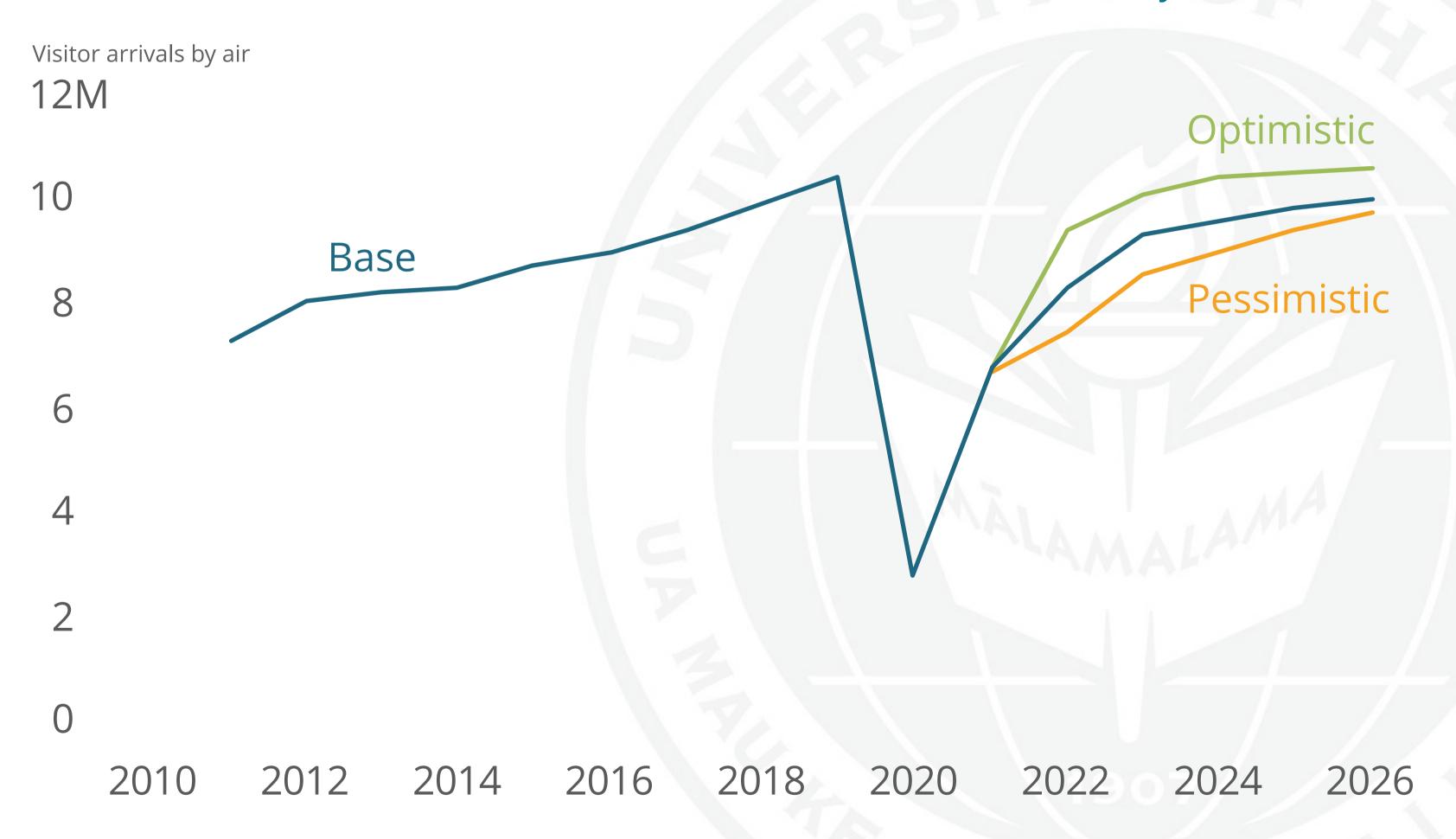
Very near term labor market expectations





As Covid-19 continues to weigh on international market

Omicron will determine the extent of tourism recovery

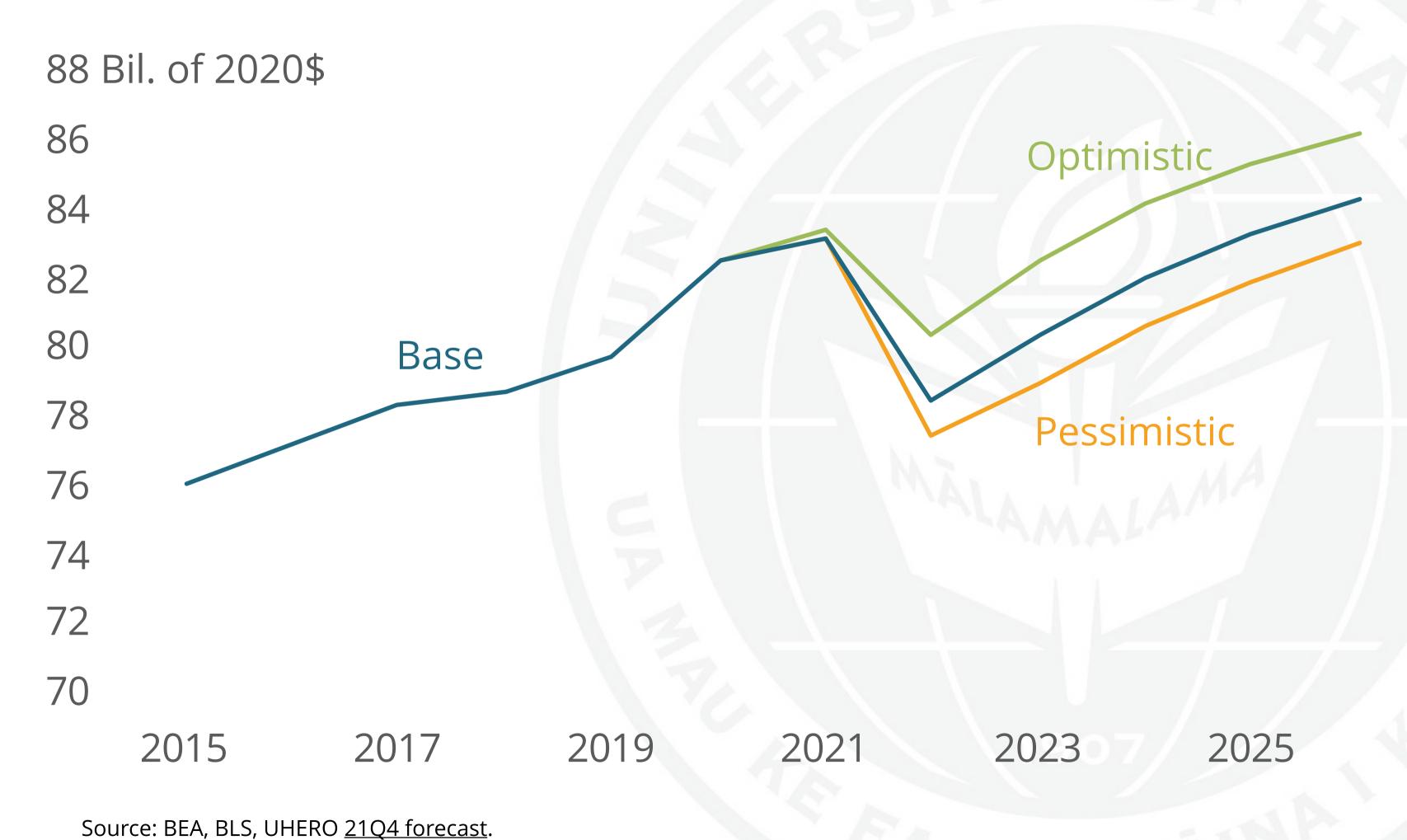


Source: HTA, UHERO 21Q4 forecast.



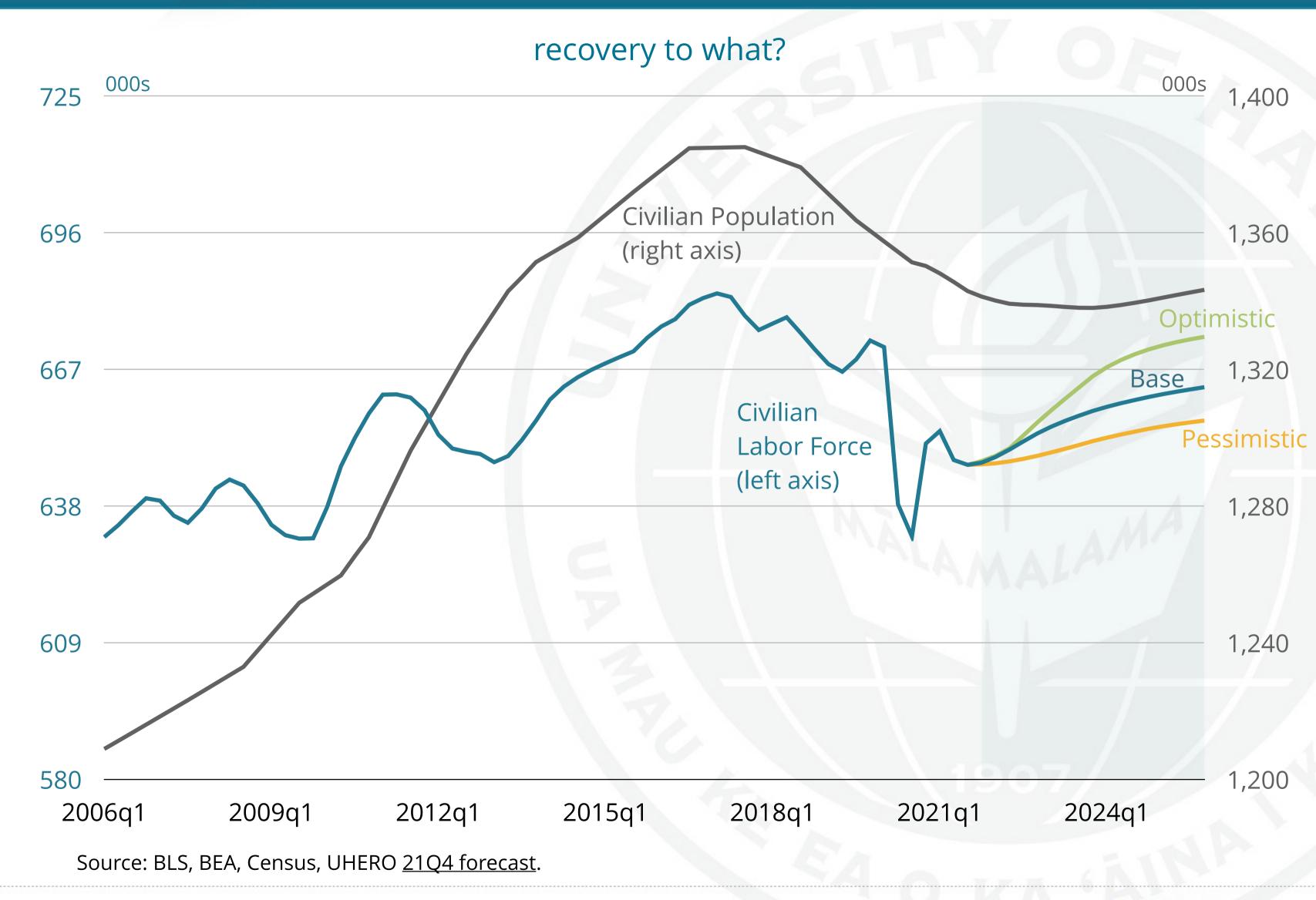
Income declines with end of federal support

accumulated savings and jobs recovery will cushion the blow

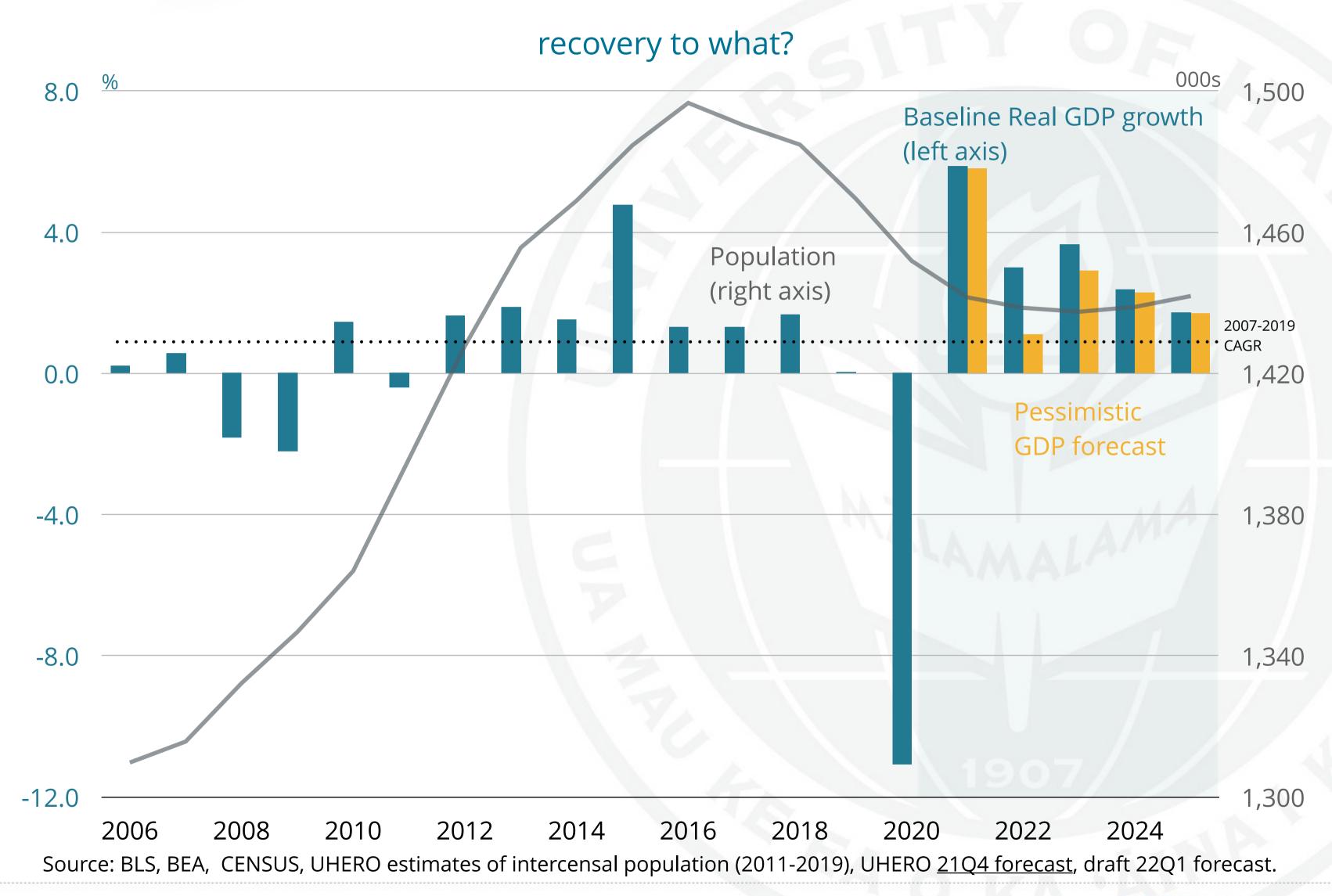


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As Hawaii's nascent recovery proceeds, the question remains



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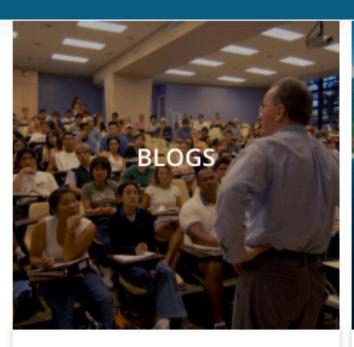


Recovery Resumes, But Omicron Looms

uncertainty continues to rule the day

TABLE 17: BASELINE FORECAST SCENARIO	2019	2020	2021	2022	2023	2024
STATE OF HAWAII						
Nonfarm Payrolls (Thou)	658.6	560.9	574.0	600.2	627.1	639.4
% Change	0.1	-14.8	2.3	4.6	4.5	2.0
Unemployment Rate (%)	2.5	11.8	7.7	5.4	3.4	2.8
Real Personal Income (Mil 2020\$)	79,748.2	82,526.4	83,184.6	78,453.9	80,372.4	81,995.1
% Change	1.4	3.5	0.8	-5.7	2.4	2.0
Real GDP (Mil 2020\$)	93,221.5	82,884.4	87,664.1	90,059.2	93,326.9	95,542.0
% Change	0.0	-11.1	5.8	2.7	3.6	2.4
Total Visitor Arrivals by Air (Thou)	10,385.8	2,708.3	6,749.2	8,286.5	9,321.2	9,570.6
% Change	5.0	-73.9	149.2	22.8	12.5	2.7
Visitor Days (Thou)	89,690.4	28,515.8	64,833.2	77,476.8	85,127.4	86,279.8
% Change	2.2	-68.2	127.4	19.5	9.9	1.4
Real Visitor Expenditures (Mil 2020\$)	17,994.2	4,840.8	12,561.8	16,460.4	17,892.1	17,535.7
% Change	-0.4	-73.1	159.5	31.0	8.7	-2.0
ABLE 19: PESSIMISTIC FORECAST SCENARIO)					
STATE OF HAWAII						
Nonfarm Payrolls (Thou)	658.6	560.9	573.8	592.1	613.9	625.7
% Change	0.1	-14.8	2.3	3.2	3.7	1.9
Unemployment Rate (%)	2.5	11.8	7.7	6.4	4.7	4.0
Real Personal Income (Mil 2020\$)	79,748.2	82,526.4	83,165.5	77,484.5	78,957.9	80,577.9
% Change	1.4	3.5	0.8	-6.8	1.9	2.1
Real GDP (Mil 2020\$)	93,221.5	82,884.4	87,725.7	88,729.0	91,301.8	93,419.0
% Change	0.0	-11.1	5.8	1.1	2.9	2.3
Total Visitor Arrivals by Air (Thou)	10,385.8	2,708.3	6,709.2	7,452.4	8,557.4	9,012.7
% Change	5.0	-73.9	147.7	11.1	14.8	5.3
Visitor Days (Thou)	89,690.4	28,515.8	64,417.2	70,144.1	79,973.0	83,367.0
% Change	2.2	-68.2	125.9	8.9	14.0	4.2
Real Visitor Expenditures (Mil 2020\$)	17,994.2	4,840.8	12,556.5	14,686.0	16,993.5	17,335.2
% Change	-0.4	-73.1	159.4	17.0	15.7	2.0













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