

NIH Public Access

Author Manuscript

Health Aff (Millwood). Author manuscript; available in PMC 2010 May 1.

Published in final edited form as:

Health Aff (Millwood). 2009; 28(3): 689–700. doi:10.1377/hlthaff.28.3.689.

Mental Illness In Nursing Homes: Variations Across States

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Abstract

The institutionalization of individuals with mental illness in nursing homes is an important policy concern. Using nursing home Minimum Data Set assessments from 2005, we found large cross-state variation in both the rates of mental illness among nursing home admissions and the estimated rates of nursing home admissions among persons with mental illness. We also found that newly admitted individuals with mental illness were younger and more likely to become long-stay residents. Taken together, these results suggest that state-level mental health and nursing home factors may influence the likelihood of long-term nursing home use for persons with mental illness.

Over 500,000 persons with mental illness (excluding dementia) reside in US nursing homes on a given day, significantly exceeding the number in all other health care institutions combined.¹ Mental illness is one, and sometimes the decisive, factor contributing to placement in a nursing home.² A key issue of importance for policymakers and mental health advocates is the appropriateness of nursing home admission for individuals with mental illnesses. Nursing homes have become the de facto mental institution for many persons with mental illness as a result of the dramatic downsizing and closure of state psychiatric hospitals spurred on by the deinstitutionalization movement. However, it is questionable whether nursing homes are equipped to serve the unique needs of residents with chronic mental illnesses.

The Omnibus Budget Reconciliation Act (OBRA) of 1987 was a major policy reform directed at the screening and assessment of individuals with mental illness targeted for nursing home care. These regulations mandated a Pre-Admission Screening and Annual Resident Review (PASRR) to identify nursing home applicants and residents with mental illness. Under the PASRR program, nursing facilities are prohibited from admitting any individual with a serious mental illness unless the State Mental Health Authority determines that nursing home level care is required for that individual.³ Further, PASRR is used to determine whether specialized mental health services are needed for nursing home residents. However, fewer than half of nursing home residents with a major mental illness receive appropriate preadmission screening

^{*}This work was supported with funding from the National Institute on Aging (NIA) under Grant numbers R01 AG23622 and P01 AG27296. David Grabowski was supported in part by an NIA career development award (Grant no.K01AG24403). Kelly Aschbrenner was supported by an Agency for Healthcare Research and Quality (AHRQ) postdoctoral training program grant (no. 5T32 HS000011). Data were made available by the Centers for Medicare and Medicaid Services under Data Use Agreement no. 15293.

according to the DHHS Office of the Inspector General.⁴ Given the implementation of PASRR at the state-level, along with varying state mental health and nursing home resources and policies, there has been concern that individuals with mental illnesses are admitted to nursing homes at different rates across states.⁵ However, previous research has not addressed this issue.

Using data from various sources, we estimate the cross-state variation in the proportion of nursing home admissions indicating a mental illness, and the proportion of persons with mental illness admitted to nursing homes. The first measure is important for nursing home policymakers and the second for mental health policymakers.

METHODS

Data and Study Population

We used the Centers for Medicare & Medicaid Services (CMS) national registry of nursing home resident assessments from the Minimum Data Set (MDS) to examine the prevalence of newly admitted nursing home residents ages 18 and over who indicated a mental illness at the time of admission. The MDS is the congressionally mandated assessment conducted for all residents of Medicare/Medicaid certified nursing facilities upon admission and at least quarterly thereafter.⁶ New admissions were defined as those residents with an admission assessment during calendar year 2005, for whom no MDS record as far back as January 1, 1999 existed in the registry, implying an individual's first admission to a nursing home. A total of 1,150,734 residents 18 years or older were newly admitted during 2005. In order to track transitions to long-stay status (90+ days in the facility), we used new admissions from 2004 in order to ensure complete follow-up.

Definition of Mental Illness

For all newly admitted nursing home residents in 2005, we defined mental illness based upon the diagnosis fields in the MDS assessment at the time of admission. From this form, we identified individuals with mental illness using four diagnoses: schizophrenia, bipolar disorder, depression and anxiety (Section 11dd, 11ee, 11ff, or 11gg indicated on the admission MDS form). These fields are entered by an MDS assessment nurse using the patient's medical charts. In a recent analysis, these fields in the MDS admission form were found to be internally consistent in terms of demographics, co-morbidities and treatments received.⁷ However, we acknowledge that the MDS falls significantly short of clinical measures of mental illness [e.g., Diagnostic and Statistical Manual of Mental Disorders (DSM-IV)]. We constructed a "broad" definition of mental illness using all four diagnoses and a "narrow" definition encompassing only schizophrenia and bipolar disorder. Our narrow definition includes the two psychiatric disorders considered the most disabling and most frequently associated with serious mental illness.

State-based Estimates of Mental illness

There are various approaches to estimating the prevalence of persons with mental illness across states. For example, the Substance Abuse and Mental Health Services Administration (SAMSHA) estimates the number of persons with serious mental illness in each state by applying a national rate of mental illness (e.g., 5.4% in 2007) to each state's population. In this study, we opted to use estimates of the numbers of adults (age 18 and over) with serious mental illness in each state based on the work of Holzer and colleagues at the University of Texas Medical Branch.⁸ Their estimates are drawn from the National Institute of Mental Health's Collaborative Psychiatric Epidemiology Surveys (CPES), which provide data on the distributions, correlates, and risk factors of mental disorders among the general population, with special emphasis on minority groups. A synthetic estimation approach is then applied in which these risk factors (age, race, gender, etc.) are used to construct the prevalence of persons

with a serious mental illness based on their overall distribution within each state.⁹ Thus, unlike the SAMSHA approach which applies a uniform rate of mental illness across states, this approach allows for variation in the estimates across states based on risk factors present in the state's population. Holzer's operational definition of serious mental illness requires that the respondent's age of onset be at least one year prior to the date of the survey, and that the respondent has experienced significant functional limitations due to the mental disorder over the past year.

Importantly, this synthetic estimation approach differs from both the narrow and broad nursing home-based measures of mental illness available from the MDS. Although the measures are different, we assert that the population-based estimate can serve as a meaningful denominator for the MDS-based measures across states, regardless of the "narrowness" of the definition. We have no reason to believe that there is any specific bias in the nursing home or population measures across states.

Analytic Approach

Using both the narrow and broad definitions of mental illness, we computed two different measures of mental illness prevalence both nationally and for each of the 48 contiguous U.S. states. First, we computed the proportion of persons with mental illness among all new nursing home admissions. Next, we calculated the proportion of persons with mental illness living in the state (or country) admitted to nursing homes. Results based on the "narrow" definition can be viewed as lower-bound estimates, and those based on the "broad" definition as approximating upper-bound estimates, although we acknowledge the potential for mismatch between the definitions of mental illness in nursing homes and Holzer's definition for the population. As such, we focus the discussion of results largely around those applying the more conservative "narrow" definition of mental illness in nursing homes.

One concern among policymakers, especially in regards to PASRR implementation and oversight, has been the admission of younger persons with mental illness into nursing homes. ¹⁰ Thus, we present a comparison of the age distributions at admission for three cohorts: mental illness (narrow), mental illness (broad), and no mental illness. Finally, policymakers are also concerned about the transition of persons with mental illness into "long-stay" nursing home residents. As such, we compare the likelihood of still being present in the nursing home at 90 days for the narrow, broad and no mental illness cohorts.

RESULTS

Mental Illness among Nursing Home Admissions

In 2005, there were 1,150,734 new nursing home admissions in the entire U.S. (see Exhibit 1). Of these admissions, 31,335 (2.7%) indicated schizophrenia or bipolar disorder (narrow mental illness definition), and 315,003 (27.4%) indicated schizophrenia, bipolar disorder, depression or anxiety (broad mental illness definition). The states with the lowest rates of nursing home admissions with a mental illness, narrowly defined, were Wyoming (1.2%), South Dakota (1.6%), and Florida (1.9%) and the states with the highest rates were Illinois (3.7%), California (3.5%), Louisiana (3.4%), and Missouri (3.4%). When depression and anxiety were included, the states with the lowest proportion of nursing home admissions with mental illness were Connecticut (22.2%), New Jersey (20.6%), and Utah (20.4%), and the states with the highest rates were Maine (36.2%), Kansas (34.5%) and New Hampshire (33.9%). As suggested by the different states at the tails of the two measures, there was almost no relationship (Pearson correlation, 0.03) between the narrow and broad mental illness measures when applied to new nursing home admissions aggregated to the state level.

Nursing Home Admissions among Persons with Mental Illness

Based on the Holzer synthetic estimation technique, there are over 10.4 million adults in the U.S. with a mental illness (see Exhibit 1). Using this estimate as a denominator, between 0.3% (narrow) and 3% (broad) of the population with mental illness was admitted a nursing home in 2005. Once again, there was significant cross-state variation in both the narrow and broad measures. When applying the narrow definition, the states with the lowest proportions of new nursing home admissions with mental illness were Wyoming (0.11%), Nevada (0.17%), Arkansas (0.18%) and South Dakota (0.18%) and the states with the highest rates were Connecticut (0.54%), Ohio (0.51%) and Massachusetts (0.49%). When applying the broad definition, Georgia (1.6%), Nevada (1.7%) and Utah (1.8%) had the lowest rates and Maine (4.9%), Massachusetts (4.7%) and Ohio (4.5%) had the highest rates. When applied to the overall population with mental illness, there was a strong relationship (Pearson correlation, 0.72, p<.001) between the narrow and broad measures.

In order to better understand the considerable variation of admissions across states, we can apply the rates of admission in the highest and lowest states to the entire U.S. Once again, there were 31,335 new nursing home admissions for schizophrenia and bipolar disorder in 2005, accounting for 0.3% of the 10.4 million persons with mental illness nationwide. If the 0.11% admission rate in Wyoming was applied to the entire country, then 19,522 fewer admissions would have occurred in 2005. Similarly, if every state admitted 0.54% of these cases as in Connecticut, there would have been 24,592 additional admissions in 2005.

Age Distribution

The average age across all new nursing home admissions in 2005 was 77 (SD = 12), with only 14% of individuals below age 65. By comparison, the average age at first admission for individuals with schizophrenia or bipolar disorder was 62 (SD = 15). Among new admissions for these two conditions, a high percentage (54%) occurred among non-elderly (ages 18–64) individuals, with 23% concentrated among the near elderly (ages 55–64) (see Exhibit 2). In 2005, there were 16,796 individuals ages 18–64 admitted nationwide for schizophrenia or bipolar disorder.

Transitions to Long-Stay Status

Persons with mental illness newly admitted to a nursing home were more likely to remain in the nursing home at least 90 days after admission relative to those without mental illness (see Exhibit 3). Using all new admissions from 2004, 45.6% (narrow definition) and 32.6% (broad definition) of persons with mental illness were still in the facility at 90 days. By comparison, only 24.1% of individuals without a mental illness diagnosis still resided in the facility at 90 days. There was significant cross-state variation in the rate of transition to long-stay status. Among those meeting the narrow definition, the long-stay transition rates ranged from 26.3% (Oregon) to 62.3% (Mississippi). For those meeting the broad mental illness definition, long-stay transition rates ranged from 19.7% (Oregon) to 52.5% (Louisiana).

DISCUSSION

There is significant variation across states in the nursing home admission of persons with mental illness. Moreover, persons with mental illness are significantly younger than other nursing home residents and more likely to transition to long-stay status. These results highlight a need for further research to better understand the cross-state variation in nursing home admissions for persons with mental illness. This variation may relate to different nursing home and mental health factors across states.

Medicaid is the dominant payer of nursing home services, and there is considerable discretion across states in the method and generosity of payment.¹¹ In theory, Medicaid payment policies may relate to the varying nursing home admission of persons with mental illness across states. The most common system used to case-mix adjust Medicaid payments to nursing homes is the Resource Utilization Groups (RUGs) system.¹² Based on clinical characteristics, RUGs divides individuals into 44 (or 34, depending on Versions used) Medicaid payment groups. Mental illness is incorporated in two ways. First, for individuals with "clinically complex" conditions (e.g., pneumonia, dehydration, chemotherapy), a higher rate is paid in the presence of depression. Second, individuals with behavioral problems such as wandering, hallucinations and delusions can qualify for a higher rate, but only if their physical problems are minimal. In other words, for individuals with more extensive physical problems requiring assistance with multiple deficits in activities of daily living, there is no additional payment for the presence of behavioral problems. All else equal, these payment rules may incentivize the admission of less physically disabled persons with mental illness, particularly if treatments are not expensive.

The cross-state variation in nursing home admissions for persons with mental illness may also relate to state efforts to "rebalance" their long-term care systems away from nursing homes and towards home- and community-based services (HCBS). As part of the Deficit Reduction Act (DRA) of 2005, the DHHS initiated a program under which CMS has awarded grants to states totaling \$1.4 billion over the five-year period 2007–2011 to provide alternatives to nursing home care. Of interest to mental health advocates is that states may not restrict access to HCBS on the basis of disability or diagnosis under the DRA. This had been a longstanding dilemma in Medicaid mental health policy.¹³ In efforts to rebalance long-term care, certain states have invested more heavily than others in Medicaid HCBS waiver programs.¹⁴ Clearly, some of the state investment in HCBS alternatives may create additional community-living opportunities for persons with mental illness.

As an important point, this is not to suggest that all persons with mental illness are candidates for transfer out of the nursing home. Individuals in nursing homes with chronic psychiatric conditions have greater cognitive and functional deficits, as well as more behavioral problems, when compared with community-dwelling persons with the same psychiatric condition.¹⁵ Although it is debatable as to whether nursing homes are the best institutional model to deliver services for these individuals, there are likely a small minority of patients who cannot survive outside a full-care psychiatric institution.¹⁶ However, similar to elderly nursing home residents and the recent rebalancing effort, there may be potential candidates for nursing home discharge if community mental health services were expanded.

A third potential explanation for the large cross-state variation in the admission of nursing home residents with mental illness is the state's adherence to the PASRR requirements. PASRR involves two parts: preadmission level I and level II screens. Level I screens are used to identify Medicaid recipients applying for new nursing home admission who may have a serious mental illness (e.g., schizophrenia, bipolar disorder, or major depression). If suspected of having a serious mental illness, applicants then undergo a Level II evaluation of their physical and mental health status to verify whether they have a serious mental illness. For applicants diagnosed with a serious mental illness, an independent evaluator, with no ties to the nursing facility or State Mental Health Authority, is used to determine whether the applicant requires nursing home level care and/or whether specialized mental health services are needed.¹⁷

Although these guidelines are national, there is considerable room for discretion and interpretation in the implementation of the rules at the state level. For example, Ohio, one of the states we documented with a high rate of nursing home admissions indicating a mental illness, uses the hospital (convalescent) exemption that allows a bypass of the PASRR requirements. Individuals discharged following an acute hospital stay are able to gain

admission to nursing homes for the treatment of the same condition for which they were treated in the hospital for up to 30 days, through the certification of an attending physician. In both Ohio and other states, we found a large proportion of nursing home admissions with mental illness ultimately become long-stay residents. Thus, in spite of the best intentions of the PASRR rules, a number of persons with mental illness are gaining admission to nursing homes in Ohio, and other states that use this exemption, without being screened for mental illness.

Finally, the cross-state variation in nursing home admissions indicating a mental illness may also be related to the mental health infrastructure. Although specialized state psychiatric hospitals have closed in many states, these hospitals continue to care for tens of thousands persons with major mental illnesses. Clearly, the differential presence of these hospitals across states will influence whether individuals with mental illness ultimately are admitted to nursing homes. A 1999 Supreme Court ruling on the Olmstead case found that states have an obligation under the Americans with Disabilities Act to administer services, programs, and activities in the most integrated setting appropriate to individuals' needs. Currently, several states have Olmstead cases pending against them for the inappropriate admission of persons with mental illness into nursing homes. Interestingly, Connecticut, the state we estimated to have the highest rate (0.54%) of persons with mental illness (narrowly defined) in nursing homes, and Illinois, the state we estimated to have the highest rate (3.7%) of nursing home admissions with mental illness (narrowly defined), both have cases pending.¹⁸ The lawsuit against the state of Connecticut alleges that more than 200 people with mental illnesses were "needlessly segregated and inappropriately warehoused" in three Connecticut nursing homes.¹⁹ The Illinois lawsuit is a class action suit on behalf of the 5,000 state-funded individuals housed in 27 private for-profit nursing homes within the state.

We found that a high percentage (54%) of persons entering nursing homes with mental illness (narrowly defined) were between the ages of 18-64. Both mental health advocates and researchers have long pointed to an inadequate system of care and a lack of appropriate community-based residential services as major obstacles to helping adults with mental illnesses leave institutional settings and succeed in the community, and in preventing inappropriate institutionalization.²⁰ Persons with serious mental illness face a fragmented and underfunded system of care that does not sufficiently provide the safety net needed for vulnerable individuals trying to live in less restrictive and more independent environments.²¹ They must negotiate multiple and distinct systems of care, including medical care, mental health care, and aging services, each with its own operating principles.²² Perhaps this is why those with persistent serious mental illness newly admitted to the nursing home were much more likely to become long-stay residents relative to other newly admitted residents. Without a critical safety net of community supports in place, persons with serious mental illness may face a substantial risk of nursing home placement at any age. There is clearly an urgent need for future research on mental health policies that facilitate community-based supports for persons with serious mental illness across the lifespan.

This analysis is limited in several ways. First, the MDS depends on assessment nurses accurately recording the information. Studies have generally confirmed the reliability and validity of these data, with some variability across nursing homes.²³ If anything, one would generally expect there to be an underreporting of mental health diagnoses rather than an overreporting. The potential under-diagnosis of mental illnesses such as schizophrenia may be related to the onset of dementia among these individuals in later life, which may mask the underlying schizophrenia.²⁴ We do not, however, have a reason to suspect that there is any systematic variation across states in the recording of mental illness diagnoses. Second, we constructed our sample based on first-time nursing home admissions rather than a single cross-section of residents at a given point in time. As such, our data examine the flow of residents into nursing homes rather than the cumulative number of persons with mental illness receiving

services. Finally, it is important to acknowledge, once again, that mental illness among nursing home admissions is defined differently relative to mental illness among the general population. In spite of these differences, we do not expect there to be systematic biases across states in calculating the proportion of persons with mental illness admitted to nursing homes.

In sum, persons with mental illness in nursing homes are a large, vulnerable and under-studied population. This paper has provided data suggesting large cross-state variation in the admission of individuals with a mental illness in the nursing home setting. Future research will need to consider the underlying reasons for this variation and the appropriateness of nursing home admission for individuals with mental illnesses.

NOTES

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- 8. The state estimates used in this study are available online (see psy.utmb.edu). For a description of the general methodology used to derive these estimates, see: Holzer CE, Jackson DJ, Tweed D. Horizontal Synthetic Estimation: A Strategy for Estimating Small Area Health Related Characteristics. Evaluation and Program Planning 1981;4(no 1):29-34. [PubMed: 10252692]
- 9. Importantly, the Holzer definition of serious mental illness roughly parallels the definition used by the Substance Abuse and Mental Health Services Administration. Specifically, the Holzer definition of serious mental illness (termed MHM2) includes a minimum impairment score, a minimum number of disability days, and then a range of chronic conditions including bipolar I and II, mania, major depression with hierarchy, Dysthymia hierarchy, generalized anxiety, hypomania, major depressive episode, panic disorder, post traumatic stress disorder, Agoraphobia with/without panic, social phobia and specific phobia. Importantly, although schizophrenia is not specifically accounted for by this measure, an individual with schizophrenia would typically be included under one of the other criteria. Also, we opted to use Holzer's estimates of serious mental illness, because his more narrow definition of "severe and persistent mental illness" (MHM1) excluded both generalized anxiety and major depressive episode, and his broader definitions (MHM3 and MHM4) included individuals with current (rather than only chronic) conditions.
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K2 (17) (23) (24) (25) (KC 1733 447 27 449 27 449 27 449 27 2493 27 2433 27 24 27 24 26 <	$\begin{array}{c} \begin{array}{c} 3.487\\ 3.487\\ 3.95\\ 3.95\\ 3.95\\ 5.85\\ 5.85\\ 5.85\\ 5.85\\ 5.85\\ 5.85\\ 5.85\\ 5.85\\ 5.66\\ 6.60\\ 1.66\\ 1.030\\ 5.65\\ 1.030\\ 5.6\\ 6.09\\ 1.030\\ 5.6\\ 6.09\\ 1.030\\ 5.6\\ 6.09\\ 1.030\\ 5.6\\ 6.09\\ 1.030\\ 5.6\\ 1.030\\ 5.6\\ 5.6\\ 7.9\\ 2.1\\ 2.6\\ 2.6\\ 7.9\\ 2.2\\ 2.1\\ 2.6\\ 2.2\\ 2.2\\ 2.2\\ 2.2\\ 2.2\\ 2.2\\ 2.2$	7,1433 7,1452 7	23277 2377 2377 2385	215,655 11,70,000 154,770 154,770 154,770 28,389 658,066 658,066 33,41,565 34,365 105,138 53,616 420,948 23,616 105,138 24,905 181,766 181,766 176,104 34,949 2310,106 176,104 34,949 234,945 234,945 24,945 24,945 24,945 24,945 24,945 24,944 24,944 24,944 24,945 24,955 24,955 24,955 24,944 24,944 24,944 24,955 24,955 24,955 24,955 24,955 24,945 24,944 24,944 24,9555 24,9555 24,95555 24,9555555555555555555555555555555555555	0.226 0.298 0.298 0.255 0.256 0.290 0.290 0.282 0.282 0.282 0.282 0.282 0.282 0.262 0.262 0.262 0.367 0.262 0.262 0.262 0.262 0.277 0.277 0.277	
CX 99,00 3.47 2.5 5.442 2.77 1,71000 0.593 2.773 FL 3.487 3.47 <td< td=""><td>CC 9,000 3,487 55 5,443 257 FH 21,882 388 27 3,487 35 3,443 35,73 FH 21,882 388 27 4,793 327 3,433 327 3,443 327 3,443 323 334 324 327 3,443 323 334 323 334 327 3,443 323 334 323 334 323 334 323 334 323 334 323 334 324 324 323 334</td><td>$\begin{array}{c} 3,487\\ 3,487\\ 395\\ 395\\ 588\\ 588\\ 588\\ 588\\ 588\\ 588\\ 588\\ 5$</td><td>25,452 4,301 9,778 5,549 5,549 5,549 7,281 7,282 7,282 7,282 7,282 7,282 7,292 7,2</td><td>25.7 25.7 25.7 25.7 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.5 25.7 25.5 25.7 25.5</td><td>1,170,000 154,770 109,418 28,389 58,066 58,066 58,066 53,616 53,616 420,448 53,616 420,448 53,616 105,138 226,649 94,905 181,766 181,766 176,104 349,949 51,771</td><td>0.298 0.255 0.255 0.235 0.290 0.290 0.290 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.277</td><td>2.287</td></td<>	CC 9,000 3,487 55 5,443 257 FH 21,882 388 27 3,487 35 3,443 35,73 FH 21,882 388 27 4,793 327 3,433 327 3,443 327 3,443 323 334 324 327 3,443 323 334 323 334 327 3,443 323 334 323 334 323 334 323 334 323 334 323 334 324 324 323 334	$\begin{array}{c} 3,487\\ 3,487\\ 395\\ 395\\ 588\\ 588\\ 588\\ 588\\ 588\\ 588\\ 588\\ 5$	25,452 4,301 9,778 5,549 5,549 5,549 7,281 7,282 7,282 7,282 7,282 7,282 7,292 7,2	25.7 25.7 25.7 25.7 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.5 25.7 25.5 25.7 25.5	1,170,000 154,770 109,418 28,389 58,066 58,066 58,066 53,616 53,616 420,448 53,616 420,448 53,616 105,138 226,649 94,905 181,766 181,766 176,104 349,949 51,771	0.298 0.255 0.255 0.235 0.290 0.290 0.290 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.277	2.287
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	CO 1,584 359 2.2 4.401 11.7 DE 8,707 1,684 359 2.9 4.701 11.7 DE 8,707 1,647 310 33,495 369 213 33,495 213 214 213	$\begin{array}{c} 535\\ 585\\ 585\\ 585\\ 660\\ 666\\ 666\\ 666\\ 10,660\\ 10,660\\ 633\\ 533\\ 533\\ 533\\ 533\\ 533\\ 533\\ 533$	7,143	231.7 231.7 232.5 233.5 234.5 235.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.5 2	154,770 109,418 28,365 588,066 588,066 588,066 53,415 53,416 53,416 23,649 94,905 226,649 181,766 181,766 181,766 181,766 134,949 2310,106 176,104 2310,106 176,104 2310,106 1771 234,949	0.255 0.235 0.256 0.256 0.290 0.290 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.282 0.277 0.277	2.175
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	H. 94700 1660 10 23,300 277 D 1 23,300 121 24,411 1373 2019 D 5,008 121 24,411 1373 2019 23,420 2717 N 5,008 112 24,411 13,733 2019 23,420 2719 24,411 2733 24,411 2733 24,411 2733 24,411 25,443 2019 23,443 26,644 26,644 26,644	$\begin{array}{c} 1,642\\ 660\\ 660\\ 305\\ 660\\ 305\\ 660\\ 633\\ 633\\ 633\\ 633\\ 633\\ 633\\ 633$	23,426 5,549 1,573 1,573 1,573 1,281 7,281 7,281 3,503 3,791 1,573 2,773 2,773 2,524 1,452 7,142 7,625	27.77 24.9 24.9 25.8 25.8 25.8 29.7 29.7 29.7 29.7 29.7 29.7 29.7 29.7	658,066 658,066 344,365 105,138 53,616 53,616 4,205 94,905 181,766 181,766 181,766 181,766 134,949 349,949	0.250 0.192 0.192 0.226 0.288 0.488 0.340 0.240 0.259 0.367 0.356 0.376 0.376	4.577 3.463
G(2.2.73 660 3.0 5.549 3.43 0.102 1.611 II 5.088 1.21 2.73 30 5.4458 0.205 2.73 II 5.088 1.21 2.73 30 5.4468 0.102 1.611 II 5.088 1.03 2.13 2.73 30 5.4468 0.205 2.34 IV 5.008 2.03 2.03 2.03 2.04 0.036 2.03 2.34		$\begin{array}{c} 660\\ 305\\ 305\\ 305\\ 305\\ 305\\ 305\\ 305\\ 30$	7,549 5,549 1,573 1,573 1,573 1,573 7,203 3,603 3,603 3,603 3,603 3,603 3,603 1,273 1,452 7,1423 7,625	24.9 24.9 25.4.1 25.4.1 25.8 25.8 30.7 25.8 30.7 29.	344,365 53,616 53,616 420,948 226,649 94,905 181,766 181,766 181,766 134,949 51,771 349,949	0.192 0.290 0.226 0.488 0.340 0.340 0.340 0.259 0.367 0.356 0.356 0.376	3.560
I/L 1.125 2.1 3.92 2.73 3.16 3.20 3.371 I/L 5.03 2.03 2.03 2.1 3.93 2.13 3.03 2.13 I/L 5.03 2.03 2.1 3.73 2.1 3.73 3.13 I/L 3.613 2.05 3.1 3.73 3.1 3.73 3.73 I/L 3.613 2.05 3.1 3.73 3.4 3.496 0.236 2.34 I/L 3.613 3.73 3.1 3.73 3.1 3.73 3.75 3.74 3.76 3.74 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.76 3.76 3.75 3.75 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3.76 3	IA [4,203 3.05 2.1 3.982 2.79 IL 55.055 2.055 3.7 13.279 3.41 IL 28.055 2.055 3.7 13.279 3.41 IL 28.055 2.055 3.7 13.279 3.41 IL 28.055 2.055 3.7 13.279 3.41 MA 34.352 10.468 3.3 3.12 3.203 3.41 MI 37.323 5.971 10.73 3.4 3.891 2.07 MI 37.323 6.971 16.97 2.6 6.472 2.6 MI 37.3255 9.00 6.07 2.6 1.433 3.07 MI 37.3255 9.00 2.4 1.143 3.03 3.13 MI 37.3255 9.00 2.4 1.143 3.07 MI 37.3355 9.00 2.4 1.143 3.01 MI 37.3355 3.11 1.14	305 2,055 635 6355 6355 635 633 472 472 472 647 647 647 647 647 647 647 647 647 647	7,233 7,281 7,281 7,281 3,603 3,703 3,704 3	27.9 27.9 28.5 28.5 29.7 29.7 29.7 29.7 29.7 29.7	105,138 33,616 420,948 226,649 94,905 180,436 181,766 181,766 181,766 210,106 176,104 349,949 349,949	0.290 0.226 0.488 0.340 0.340 0.259 0.259 0.357 0.357 0.377 0.377	1.611
D D SAM8 D21 Z4 L1273 SAM0 D226 Z3M4 D226 Z3M4 Z2M4 Z2M4 Z2M4 Z2M4 Z2M4 Z2M4 Z2M4 Z2M4 Z2M4 Z2M4 <thz2m4< th=""> <thz2m4< th=""> Z2M4</thz2m4<></thz2m4<>	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2,055 2,055 6,055 6,32 4,72 4,72 4,72 4,72 4,72 6,47 6,47 6,47 6,47 6,47 6,47 6,47 2,6 6,09 2,6 6,09 2,6 2,6 2,7 2,6 2,7 2,7 2,7 2,7 2,7 2,7 2,7 2,7	7,273 7,281 7,281 3,603 3,603 3,801 3,801 3,891 2,524 7,142 7,142	230,5 254,1 224,5 258,5 29,6 30,7 29,7 29,7 29,7 29,7 29,7 29,7 29,7 29	53,616 226,649 226,649 94,905 181,766 181,766 181,766 181,766 181,766 349,949 349,949	0.226 0.228 0.282 0.282 0.240 0.259 0.259 0.257 0.326 0.326	3.787
III 20000 2010 2011 20000 2010 <t< td=""><td>110^{-10}_{-1} $23,000_{-1}$ $23,00_{-1}$ $23,00_$</td><td>2.000 6.000 6.000 1.0000 1.0</td><td>7,281 3,603 5,203 5,203 5,452 6,477 7,143 7,143 7,143 7,143</td><td>254.1 24.5 27.9 25.8 30.7 29.7 29.7 29.7</td><td>2206,649 2266,649 94,905 181,766 181,766 181,766 210,106 176,104 51,771 349,949</td><td>0.2400 0.240 0.240 0.259 0.259 0.257 0.326 0.326 0.376</td><td>2.934</td></t<>	110^{-10}_{-1} $23,000_{-1}$ $23,00_$	2.000 6.000 6.000 1.0000 1.0	7,281 3,603 5,203 5,203 5,452 6,477 7,143 7,143 7,143 7,143	254.1 24.5 27.9 25.8 30.7 29.7 29.7 29.7	2206,649 2266,649 94,905 181,766 181,766 181,766 210,106 176,104 51,771 349,949	0.2400 0.240 0.240 0.259 0.259 0.257 0.326 0.326 0.376	2.934
Ki 10458 233 31 3661 345 9406 0.340 2340 M 31394 470 32 31 3791 3793 3793 3793 3794 3764 3766 3764 3766	KY 11345 323 311 3663 345 MA MA 31372 10458 323 311 3663 345 MA MA 31372 10458 323 311 3663 345 MI MI 31372 11347 470 34 378 353 MI MI 313728 970 52.4 353 373 363 MI 313728 970 2.4 373 363 362 363 MI 313728 970 2.6 11,433 362 363 MI 32306 7128 2.7 1063 323 373 NI 3.4 100 2.7 1.126 2.45 303 NI 3.4 103 2.5 303 323 307 NI 3.4 1.0 2.5 311 2.664 323 323 NI 3.4 1.0 2.5 <td>323 472 472 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 2,0 2,0 609 2,0 2,0 2,0 2,0 2,0 2,0 110 2,0 2,0 2,0 2,0 2,0 2,0 2,0 2,0 2,0 2,</td> <td>3,603 5,203 5,203 5,452 6,452 6,452 11,433 7,143 7,143</td> <td>345 29,8 30,7 30,7 29,7 29,7</td> <td>94,905 94,905 181,766 181,766 210,106 176,104 51,771 349,949</td> <td>0.340 0.262 0.259 0.490 0.326 0.326 0.326</td> <td>512.6 212.6</td>	323 472 472 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 2,0 2,0 609 2,0 2,0 2,0 2,0 2,0 2,0 110 2,0 2,0 2,0 2,0 2,0 2,0 2,0 2,0 2,0 2,	3,603 5,203 5,203 5,452 6,452 6,452 11,433 7,143 7,143	345 29,8 30,7 30,7 29,7 29,7	94,905 94,905 181,766 181,766 210,106 176,104 51,771 349,949	0.340 0.262 0.259 0.490 0.326 0.326 0.326	512.6 212.6
KY T1,47 470 27 5.03 298 181,46 0.262 2.884 MK 34,352 1000 34 3778 255 210106 0.297 365 MK 34,352 1000 34 3778 355 210106 0.369 246 MK 37,375 910 2.6 54,73 361 367 346 376 MK 23,366 910 2.6 54,73 361 0.205 2.94 MK 23,366 910 2.6 1,473 307 345 346 3.66 MK 23,916 7.82 3.1 7.665 3.41 3.66 3.45 3.66 NG 32,916 7.12 3.66 3.65 3.66	KY $17,457$ 472 2.7 5.03 5.03 298 MDMD 647 5.73 5.03 2.6 5.472 2.79 MIE 677 1.070 3.4 3.738 2.79 3.06 MN 647 2.6 5.472 2.53 3.06 MN $37,389$ 2.6 7.142 3.733 3.06 MN 8.608 2.66 7.142 3.253 3.06 MN $23,369$ 609 2.6 7.142 3.06 MN $23,369$ 609 2.6 7.142 3.05 MN $23,369$ 206 3.14 7.625 3.06 MN 3.738 2.63 3.14 7.642 3.25 MN 8608 2.63 3.14 7.642 3.33 NN 8608 2.66 3.14 7.645 3.05 NN 8608 2.77 1.100 2.77 1.142 3.05 NN 8608 2.77 1.166 3.05 2.44 NN 8608 2.77 1.001 1.266 3.14 NN 8608 5.778 1.001 1.061 3.05 NN 8608 2.766 1.466 2.77 1.867 </td <td>472 470 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 2,05 2,05 2,05 2,05 2,05 2,05 2,05 2,0</td> <td>5,203 3,891 6,472 6,452 6,452 11,433 7,143 7,143</td> <td>29.8 27.9 30.7 30.7 29.7 29.7</td> <td>180,436 181,766 210,106 51,771 51,771 349,949 349,949</td> <td>0.262 0.259 0.490 0.326 0.326 0.277</td> <td>3.796</td>	472 470 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 1,030 2,05 2,05 2,05 2,05 2,05 2,05 2,05 2,0	5,203 3,891 6,472 6,452 6,452 11,433 7,143 7,143	29.8 27.9 30.7 30.7 29.7 29.7	180,436 181,766 210,106 51,771 51,771 349,949 349,949	0.262 0.259 0.490 0.326 0.326 0.277	3.796
		470 1,030 1647 1647 169 2.6 609 2.6 862 2.6 110 110 728 72 73 73 73 73 73 73 73 73 73 73 73 73 73	3,891 9,778 6,452 6,452 11,433 7,143 7,143	27.9 25.8 36.2 30.6 29.7	181,766 210,106 176,104 51,771 349,949	0.259 0.490 0.326 0.326	2.884
MM MA MA<	MM Apple Lund 25 Lund 25 Lund 25 25 25 25 25 26	1,030 647 169 700 862 862 2.6 862 2.6 3.4 110 728 72 72 72 72 72 73 73 73 73 73 73 73 73 73 73 73 73 73	9,4778 6,452 2,524 11,433 7,142 7,625	25.8 25.8 30.7 30.6 29.7	210,100 176,104 51,771 349,949	0.490 0.367 0.326 0.277	2.141
MI 5.7.01 109 2.6 1.4.33 30.7 31.7.7.1 0.25.7 4.7.7.7 MI 7.285 0.91 2.6 1.4.33 30.7 31.7.7.7 0.25.7 4.7.7.7 MI 7.285 0.91 2.6 1.4.33 30.7 30.73 3.25.7 3.4 2.25.0 3.4 2.25.0 3.4 2.25.0 3.4 2.25.0 3.4 2.25.0 3.4 2.25.0 3.4 2.25.0 3.4 2.25.0 3.4 2.25.0 2.2	WIL 5.770 WIL 5.770 WIL 5.770 WIL 5.770 WIL 5.771 MO 5.774 5.701 6.773 6.771 7.725 7.712	169 169 970 862 862 2.6 862 3.4 2.6 3.4 110 728 72 72 72 72 72 72 73	2,524 2,524 11,433 7,142 7,625	20.2 30.7 30.6 29.7	51,771 51,771 349,949	0.326 0.277	4.034 2.664
MI 7725 970 26 11,43 307 30,990 0.277 32,66 NIN 23,300 699 2.6 11,43 30.7 23,900 0.277 2073 NIN 23,701 860 2.6 11,42 30.6 7.2,338 0.277 2073 NIN 3,473 7.9 2.3 1.106 2.1 1.142 30.6 2.346 2.347 2.038 NIN 3,473 7.9 2.3 1.061 3.2 2.448 0.237 2.448 NIN 5,744 1.03 2.7 1.128 0.337 2.443 NIN 5,744 1.03 2.3 0.664 2.3 0.337 2.443 NIN 5,744 1.067 2.064 3.3 0.311 0.337 2.443 NIN 5,744 1.06 2.9 2.9 0.201 0.201 0.201 2.705 NIN 5,744 1.066 2.3 3.43 <td>WIL 77.28: MIN 7.28: MIN 7.142 7.07: MIN 7.06: MIN 7.06: MIN 7.06: MIN 7.06: MIN 7.06: MIN 7.06: MIN 7.07: MIN 7.07: MIN 7.01: MIN 7.01:</td> <td>970 970 609 862 3.4 2.6 3.4 110 728 72 72 72 72 72 72 72 72 72 72</td> <td>11,433 7,142 7,625</td> <td>30.7 30.6 29.7</td> <td>349,949</td> <td>0.277</td> <td>4.875</td>	WIL 77.28: MIN 7.28: MIN 7.142 7.07: MIN 7.06: MIN 7.06: MIN 7.06: MIN 7.06: MIN 7.06: MIN 7.06: MIN 7.07: MIN 7.07: MIN 7.01: MIN 7.01:	970 970 609 862 3.4 2.6 3.4 110 728 72 72 72 72 72 72 72 72 72 72	11,433 7,142 7,625	30.7 30.6 29.7	349,949	0.277	4.875
	MN 23,369 609 2.6 7,142 30.6 MO 25,701 862 3.4 7,025 39.7 NC 3,3916 728 2.2 8,052 24.5 30.6 NC 3,473 79 2.7 1,106 3.4 7.142 30.6 ND 3,473 79 2.7 8,052 2.44 3.23 NU 45,5248 1,005 2.6 1,112 2.664 3.33 NU 45,5248 1,005 2.0 1,821 3.23 3.05 NV 5,704 169 3.0 1,463 3.23 3.05 NV 5,704 166 3.0 1,661 3.23 3.05 NV 5,704 166 3.0 1,483 3.23 2.066 3.05 NV 5,009 1,448 3.23 2.066 3.05 2.066 3.05 2.066 3.06 NV 5,009 1,448	609 2.6 862 3.4 263 3.4 110 2.7 728 2.7 79 72	7,142 7,625	30.6 29.7	016 271		3.267
	MO 25.701 862 3.4 7.655 29.7 MIS 8608 2.6 3.1 7.655 2.97 NC 32.916 728 3.1 7.655 2.97 ND 3.473 7.9 2.3 11.061 3.05 ND 3.473 7.9 2.3 1.061 3.05 ND 3.473 7.9 2.3 1.061 3.05 NU 5.373 1.10 2.7 1.126 3.1 NU 5.5704 1.667 2.93 3.05 3.03 NV 5.704 1.665 2.3 1.667 2.93 NV 5.704 1.665 2.3 1.667 2.93 NV 5.009 1.46 2.9 1.867 3.33 NV 5.009 1.46 2.9 1.864 3.33 NV 5.009 1.46 2.9 1.864 3.33 NV 5.545 1.46 2.9	862 3.4 263 3.1 110 2.7 728 2.7 79 2.3	7,625	29.7	070,101	0.364	4.268
MIN Min <td>MX 508 263 31 2,003 30.2 NC 3,473 7001 110 2.7 1,126 30.2 NL 3,473 79 2.7 1,061 30.5 24.8 30.5 NL 3,473 79 2.7 1,061 30.5 24.8 30.5 30.5 NL 3,473 139 2.6 1,325 2.3 1061 30.5 24.8 30.5 30.6 30.5 30.6 30.5 30.6 30.5<</td> <td>263 3.1 110 2.7 728 2.2 79 2.3</td> <td>001 0</td> <td></td> <td>222,089</td> <td>0.388</td> <td>3.433</td>	MX 508 263 31 2,003 30.2 NC 3,473 7001 110 2.7 1,126 30.2 NL 3,473 79 2.7 1,061 30.5 24.8 30.5 NL 3,473 79 2.7 1,061 30.5 24.8 30.5 30.5 NL 3,473 139 2.6 1,325 2.3 1061 30.5 24.8 30.5 30.6 30.5 30.6 30.5 30.6 30.5<	263 3.1 110 2.7 728 2.2 79 2.3	001 0		222,089	0.388	3.433
	NIC 7.001 7.10 2.7 9.120 2.6 NIE 3.473 79 2.7 1062 2.43 NIE 5.704 110 2.7 1061 30.5 NI 45.275 119 2.7 2.64 32.3 NI 45.228 1.055 2.3 9.308 20.6 NIV 5,704 1.65 2.3 9.308 20.6 NIV 5,704 1.65 2.3 9.308 20.6 NIV 5,704 1.65 2.9 1.667 2.92 NIV 5,009 1.46 2.9 1.667 2.92 NIV 79.022 2.041 2.6 1.863 2.3.6 NIV 79.023 2.148 3.3 1.667 2.92 OR 11.665 2.6 1.667 2.91 31.4 OR 11.567 3.35 2.64 3.91 31.4 OR 11.665 2.6 <	728 2.2 79 2.3 79 2.3	2,603	30.2	125,624	0.209	2.072
NIC 3.473 79 2.3 1061 305 2.3807 0.332 4.457 NH 5.374 1025 2.76 1.821 3.23 60.711 0.332 4.457 NH 5.374 1025 2.3 9.308 20.6 3.23 4.318 0.361 4.238 NW 5.704 109 2.0 1.867 2.231 6.0711 0.332 4.457 NW 5.704 109 2.0 1.867 2.336 6.0711 0.332 2.571 NW 5.009 146 2.0 1.867 2.336 6.0711 0.332 2.5776 NW 5.547 10904 2.92 3.936 2.6664 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647 3.647	NIC 3.473 7.9 2.19 2.37 1,061 3.05 NIL 5.375 1,102 2.19 2.7 2.664 3.2.3 NIL 5.704 11025 2.3 1,1821 3.3.3 NIV 5.704 160 3.0 1,881 3.2.3 NIV 5.704 160 3.0 1,881 3.2.3 NIV 5.704 160 2.9 1,881 3.2.3 NIV 5.704 160 2.9 1,881 3.2.3 NIV 5.704 1.025 2.041 2.6 1,865 2.9.6 NIV 65.255 2.041 2.6 1,865 2.9.6 3.1.4 OR 65.266 1.148 2.7 1,865 2.9.5 3.9.5 OR 12.515 3.2.5 2.041 2.6 3.9.5 2.4.4 2.7.6 3.1.6 NO 12.515 3.2.5 2.041 2.5 3.9.5 2.7.4 31.4	79 2.3	8.052	24.5	328.877	0.221	2.920 2.448
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	NE 8.243 219 2.7 2.664 32.3 NU 5,375 1.39 2.6 1.821 33.9 NU 5,728 1.025 2.3 9.308 29.6 NV 5,004 1.69 3.0 1.667 29.2 NV 5,004 1.69 3.0 1.667 29.2 NV 79,022 2,041 2.6 1.881 33.9 NV 79,022 2,041 2.6 1.883 29.6 NV 79,022 2,041 2.6 1.883 29.2 NV 79,022 2,148 3.3 19,024 29.2 N 65,255 2,148 3.3 19,024 29.2 N 12,566 3.14 2.5 3.14 29.2 N 12,566 3.15 2.5 3.951 31.4 N 13,55 3.5 2.6 3.64 27.8 N 150 1.566 2.6		1,061	30.5	23,807	0.332	4.457
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	NH 5,375 139 2.6 1,821 339 NW 5,704 1,69 3.0 1,667 29.5 NV 5,004 1,69 3.0 1,667 29.5 NY 5,004 1,69 3.0 1,667 29.2 NY 79,022 2,041 2.6 1,863 29.5 NY 79,022 2,041 2.6 1,863 29.2 OK 12,566 3.14 2.5 3,951 31.4 OK 12,566 3.14 2.5 3,951 31.4 OK 12,566 3.14 2.5 3,951 31.4 SC 3.356 3.25 2.6 3,84 27.8 SD 3.356 5.5 1.669 2.7 1,385 25.0 SD 3.356 5.5 1,690 20.4 2.9 20,09 VT 2.6473 150 2.7 1,385 2.7 20.4 VT </td <td>219 2.7</td> <td>2,664</td> <td>32.3</td> <td>60,711</td> <td>0.361</td> <td>4.388</td>	219 2.7	2,664	32.3	60,711	0.361	4.388
WV 5.702 1,023 5.703 1,025 5.704 1,025 5.704 1,025 5.704 1,025 5.704 1,025 5.704 1,025 5.704 1,070 7.706 0.705 7.706 0.705 7.705 2.776 0.706 0.733 2.776 0.707 0.706 0.705 2.776 0.706 0.733 2.776 0.706 0.733 2.776 0.706 0.733 2.776 0.706 0.733 2.776 0.706 0.733 2.776 0.706 0.512 2.776 0.706 0.512 2.776 0.706 0.512 2.776 0.706 0.513 2.776 0.706 0.513 2.776 0.513 2.776 0.513 2.776 0.513 2.776 0.513 2.776 0.513 2.776 0.513 2.776 0.513 2.776 0.513 2.776 0.513 2.776 0.513 2.776 0.513 2.776 2.705 2.705 2.705 2.705 2.705 2.705 2.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	139 2.6	1,821	33.9 20.6	43,188	0.322	4.216 2 571
WY $5,00$ 146 2.9 $1,483$ 2.96 $86,883$ 0.168 1.70 NY $79,022$ $2,041$ 2.6 $1,483$ 2.36 $671,192$ 0.304 2.776 NY $65,255$ $2,041$ 2.6 $3,185$ $2.3,6$ 3.44 2.776 OR $12,515$ 3.142 2.5 $3,091$ 3.145 2.24 $19,734$ 0.215 2.746 OR $66,296$ 1.665 2.7 3.185 2.54 $136,043$ 0.239 2.341 PA $66,296$ 1.665 2.7 3.385 2.54 $136,043$ 0.239 2.341 SC 5547 1.665 2.2 2.0030 0.370 2.347 SD 5547 1.665 3.344 2.78 0.6758 0.195 2.794 SD $56,296$ 1.547 2.8 0.196 2.9887 0.195 2.794	NY 5,009 146 2.9 1,433 29,6 NY 0H 65,255 2,041 2.6 1,433 29,2 OK 12,566 314 2.6 18,655 23,6 OR 12,566 314 2.6 3,851 31,4 OK 12,566 31,4 2.6 3,851 3,951 31,4 OR 12,515 3.25 2,041 2.6 3,135 25,9 PA 12,515 3.25 2,000 30,2 26,4 29,2 SC 13,805 3.26 2.4 3,84 27,8 SD 3.356 3.26 2.4 3,84 27,8 SD 3.356 2.6 2.4 3,84 27,8 UT 5,547 150 2.4 3,84 27,7 UT 26,978 16,90 27,0 27,8 27,8 UT 26,473 617 2.3 7,705 29,1 VI 2,458 19,47 2.3 7,705 29,1 VI 2,6473 617 2.3 7,705 29,1 VI 2,648 7,38 3,1 7,705 29,1 V	1,020 2.2 169 3.0	0,200 1 667	0.02	200,024 70,906	0.738	2.351
	NY 79,022 2,041 2.6 18,655 23,6 23,6 0H 65,255 2,148 3,3 19,024 29,2 29,2 0K 12,566 314 2,5 3,951 31,4 29,2 3,185 2,5 4 29,2 3,185 2,5 4 29,2 3,185 2,5 4 29,2 3,185 2,5 4 29,2 3,185 2,5 6,2 9,4 1,5 6,5 2,5 1,6 1,0 37 3,0 9,2 7,0 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5	146 2.9	1,483	29.6	86,858	0.168	1.707
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	OH 65,255 2,148 3,3 19,024 29,2 OK 12,566 314 2,5 3,951 31,4 29,2 PA 12,566 31,4 2,5 3,951 31,4 29,2 PA 65,256 1,665 2,6 3,185 25,0 30,2 SC 13,805 3,26 2,7 1,385 25,0 30,9 SC 3,356 3,26 2,4 3,844 27,8 27,8 SD 3,356 3,56 2,4 3,844 27,8 27,8 SD 3,356 7,69 2,6 7,69 27,0 27,8 UT 26,97 19,4 2,9 7,06 27,0 20,4 VT 2,6473 617 2,3 3,1 7,705 29,1 VT 2,458 7,3 3,1 7,705 29,1 VT 2,458 7,3 3,1 7,705 29,1 VT 2,4	2,041 2.6	18,635	23.6	671,192	0.304	2.776
OK $12,506$ 314 2.5 $5,91$ $51,4$ $146,012$ 0.215 2.215 2.341 PA $66,296$ $1,665$ 2.5 3.185 25.4 $136,043$ 0.239 2.341 PA 5547 1506 2.7 $1,385$ 25.4 $136,043$ 0.239 2.341 SC $13,305$ 3256 2.4 $3,844$ 27.8 $167,589$ 0.195 2.294 SC 3.356 2.5 1.667 2.7 1.3807 3.642 3.642 SC 3.356 2.4 3.444 27.8 $167,589$ 0.195 2.294 ST 2.578 $1.67,589$ 0.184 3.473 3.170 TN 6.587 1.690 27.10 $8213,366$ 0.184 3.473 VA 6.987 194 2.87 $2.911,200$ $0.242,50$ 0.184 2.952 VT 6.987 0	O.K $12,500$ 514 2.5 $5,931$ 51.4 PA $12,515$ 325 2.6 $3,931$ 51.4 PA $66,55$ 2.6 $3,185$ 5.54 51.4 PA $66,55$ 2.6 $3,185$ 5.54 5.54 SC $1,386$ $1,665$ 2.7 $1,385$ 25.0 SC $3,356$ 326 2.4 $3,844$ 27.8 SD $3,356$ 55 1.6 $1,037$ 30.9 SD $3,356$ 55 1.6 $7,037$ 28.7 SD $2,708$ 7.69 2.9 $7,09$ 27.8 UT $26,987$ 1.547 2.8 $1,426$ 20.4 VA $26,473$ 617 2.3 $7,706$ 29.1 VT $26,473$ 617 2.3 $7,706$ 29.1 WA $26,413$ 617	2,148 3.3	19,024	29.2	419,734	0.512	4.532
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	515 575 575	3,951	51.4 25 4	146,072	0.730 0.730	C0/.7
	RI 5,347 150 2.7 1,385 25.0 SC 13,805 326 2.4 3,844 27,8 SD 3,356 55 1.6 1,037 30.9 SD 3,356 55 1.6 1,037 30.9 TN 26,798 769 2.9 7,684 28.7 UT 26,876 1,547 2.5 16,909 27.0 UT 6,987 194 2.8 1,426 20.4 VA 26,473 617 2.3 7,705 29.1 VT 2,458 73 3.3 7,705 29.1 WA 2,458 7.3 3.0 7,705 29.1 WA 2,458 7.3 3.0 7,705 29.1 WA 2,458 7.3 3.0 7,705 29.1 WA 2,4680 7.39 3.0 7,705 31.5	1,665 2.5	20,050	30.2	449,662	0.370	4.459
		150 2.7	1,385	25.0	38,026	0.394	3.642
SD 3.556 5.5 1.6 1.037 30.9 29.857 0.184 3.473 TN 2.5798 769 2.9 $7,684$ 2.87 $242,360$ 0.184 3.170 TX 6.5786 $1,547$ 2.8 $1,426$ 2.04 $79,042$ 0.184 3.170 VA 6.587 $1,547$ 2.8 $1,426$ 20.4 $79,042$ 0.188 2.058 VA 2.6473 617 2.3 $7,705$ 29.1 $260,980$ 0.236 2.952 VT 2.458 811 3.3 $3.1.6$ 7.705 29.1 $20,990$ 0.236 2.952 VT 2.460 813 $3.3.1$ 2.776 9.17035 0.341 3.587 W1 7.705 2.7 2.786 31.5 0.341 3.587 W1 7.528 2022 2.7 2.766 0.247 3.004	SD 55 1.6 1.037 30.9 TN $26,798$ 769 2.9 $7,684$ 28.7 TN $62,876$ $1,547$ 2.5 $16,909$ 27.0 UT $62,876$ $1,547$ 2.8 $1,426$ 20.4 VA $6,987$ $1,947$ 2.8 $1,426$ 20.4 VA $26,473$ 617 2.3 $7,705$ 29.1 VT $2,458$ 81 3.3 $7,705$ 29.1 WA $24,433$ 617 2.3 $7,705$ 29.1 WA $24,433$ 81 3.3 $7,705$ 31.5 WA $26,413$ 617 2.3 $7,705$ 29.1 WA $26,413$ 617 2.3 $7,705$ 31.5	326 2.4	3,844	27.8	167,589	0.195	2.294
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.1 CC D27	1,037	50.9 28.7	729,827	0.184 0.317	3.473
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	UT 6.987 194 2.8 1,426 20.4 VA 26,473 617 2.3 7,705 29.1 VT 2.458 81 3.3 3.1 WA 24,680 739 3.0 7,786 31.5 WI 578 2.2 7,866 30.0	1.547 2.5	16.909	27.0	821.804	0.188	2.058
VA 26,473 617 2.3 7,705 29.1 260,980 0.236 2.952 VT 2,458 81 3.3 813 33.1 22,929 0.353 3.545 VA 2,468 739 3.0 7,786 31.5 217,035 0.341 3.587 W1 7,528 278 2.7 2,456 32.6 817,396 0.308 4.182 W1 7,528 202 2.7 2,456 32.6 817,395 0.308 4.182 WY 1,801 22 1.2 497 27.6 19,525 0.113 2.546	VA 26,473 617 2.3 7,705 29,1 VT 2,458 81 3.3 813 33,1 WA 24,680 739 3.0 7,786 31,5 W 26,081 578 2.2 7,866 30,0	194 2.8	1,426	20.4	79,042	0.245	1.804
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	VT 2458 81 3.3 813 33.1 WA 24,680 739 3.0 7,786 31.5 WI 26,081 578 2.2 7,836 30.0	617 2.3	7,705	29.1	260,980	0.236	2.952
Wa $24,680$ 739 5.0 $7,86$ 51.5 $217,055$ 0.341 5.381 5.381 0.302 $187,396$ 0.308 4.182 WI $7,528$ 2.2 2.7 $2,456$ 32.6 $817,396$ 0.247 3.04 WI 2.7 1.801 2.2 1.2 497 27.6 9.165 0.247 3.046 WI 2.546	WA 24,680 739 3.0 7,780 3.15 WI 26,081 578 2.2 7,836 30,0	81 3.3	813	33.1	22,929	0.353	3.546
W 20,001 202 2.7 7,000 30.0 $107,00$ 0.200 $-107,00$ 0.200 $-101,000$ -102 W $-102,00$ $-102,00$ -102 -102 W $-102,00$	0.06 060.7 7.7 076 100.07	739 3.0	7,826	6.15 0.05	217,035	0.341	780.5
WY 1.20 2.7 2.7 2.7 2.7 2.7 2.546 0.113 2.546 0.113 2.546	WW 7528 202 27 2456 276	7.7 8/6	7 156	30.0 37.6	18/,390	805.0 772 0	4.182 2.001
	WY 1.80 202 202 2.1 2.10 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.	202 2.1	497	27.6	19.522	0.113	2.546

EXHIBIT 2

New nursing home admissions by age categories among persons withmental illness (MI) (narrow), MI (broad), and no MI, 2005



Source: All data are from authors' calculations using the Minimum Data Set

	MI: Narrow	MI: Broad	MI: None
	(N=31,610)	(N=315,188)	(N=851,537
NATIONAL	45.6	32.6	24.1
AL	48.7	32.7	27.1
AR	55.9	48.5	32.0
AZ	30.0	20.0	14.1
CA	43.2	29.1	20.6
CO	46.4	31.0	23.5
СТ	44.2	30.2	20.1
DE	48.1	30.4	22.3
FL	33.5	23.3	16.9
GA	59.1	42.6	35.0
IA	55.6	45.7	34.0
ID	39.7	30.7	19.8
IL	54.8	35.2	22.4
IN	47.8	36.1	26.7
KS	55.2	44.7	34.9
KY	48.5	37.3	27.9
LA	61.9	52.5	38.3
MA	41.0	30.7	21.0
MD	37.3	26.3	18.5
ME	29.7	24.7	17.8
MI	41.0	30.2	25.6
MN	41.4	31.5	25.1
МО	52.3	38.4	26.9
MS	62.3	51.2	35.5
MT	42.6	34.9	25.8
NC	45.7	35.3	27.8
ND	47.5	46.6	36.0
NE	47.2	38.9	28.6
NH	43.1	35.2	24.5
NJ	43.5	26.5	17.9
NM	44.2	32.6	23.5
NV	47.0	31.7	23.4
NY	54.5	35.9	27.7
OH	42.0	30.8	21.6
OK	60.8	45.4	34.2
OR	26.3	19.7	13.8
PA	45.1	32.2	23.9
RI	44.6	32.9	25.1
SC	48.9	34.1	26.6
SD	56.1	48.4	40.7
TN	42.5	31.6	25.3
ТХ	52.4	41.1	31.4
UT	45.8	25.0	21.0
VA	43.6	30.0	23.0
VT	35.5	33.9	28.9
WA	30.3	22.9	167
WI	35.7	31.9	26 4
WV	49.0	33.1	20.2
WY	16.2	40.0	21.0

EXHIBIT 3

Source: All data are from authors' calculations using the Minimum Data Set.