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ASVAB CEP: Updates to Program and Non-Cognitive Measures

Dr. Irina Rader, *Defense Testing & Assessment Center*Dr. Rod McCloy, *Human Resources Research Organization*Dr. Maura Burke, *Human Resources Research Organization*

Briefing presented to the DACMPT January 23, 2025

Discussion Topics

- ASVAB Career Exploration Program (CEP) Update
- New Form for the Find Your Interests (FYI) Inventory
- Initial Analysis of Responses from the Work Values Situational Judgment Activity (WV SJA)
- Summary
- Questions and Discussion



ASVAB CEP Current State





Achieving ASVAB CEP Vision—A Strategic Approach

MISSION

The ASVAB CEP is a program sponsored by the Department of Defense (DoD) with a two-part mission: to provide a career exploration service to American youth and provide qualified leads to military recruiters.

VISION

The ASVAB CEP assesses academic ability and vocational interests, which together help inform career decisions. Personalized career exploration, awareness of career-field entry requirements, and future-oriented planning tools help students work with parents and educators to develop post-secondary plans. Eligible participants can use their scores to explore enlistment and have no obligation to military service.



ASVAB CEP Usage Metrics Year to Date (YTD)





Nationwide Participation

13,105



SCHOOLS PARTICIPATED

619,926



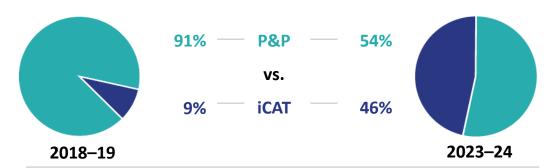
STUDENTS TESTED



LEADS PROVIDED TO MILITARY SERVICES

339,463

Paper & Pencil (P&P) vs. iCAT Participants



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There has been a significant shift from Paper & Pencil assessments to CEP iCAT assessments over the past five years.

Areas of Focus by Business Strategies

School Year 2024/2025





2024 ASVAB CEP JAMBOREE

The CEP Jamboree is a three-day strategic planning session with stakeholders from the Defense Testing and Assessment Center (DTAC), Accession Policy (AP), Personnel and Readiness (P&R)/Manpower and Reserve Affairs (M&RA)/Military Personnel Policy (MPP), Defense Personnel Analytic Center (DPAC), and U.S. Military Entrance Processing Command (USMEPCOM). The event focuses on reviewing the past year's performance and achievements and brainstorming the direction of ASVAB CEP for school year (SY) 24–25 and beyond.



ASVAB CEP team members from AP and DTAC led the collaborative meeting with members of USMEPCOM HumRRO, Lattice Form, and Written LLC.



ASVAB Career Exploration Program (CEP) Ecosystem of Integrated Business Strategies

School Year 2024-2025

7. UNDERSERVED POPULATIONS

The ASVAB CEP benefits young adults. This initiative seeks to expand access to ASVAB CEP among eligible populations including post-secondary institutions, homeschool students, and students enrolled at schools that don't offer ASVAB CEP.

6. LEGISLATIVE ACTIVITIES

Monitoring ASVAB CEP legislative activities: (a) weekly monitoring and tracking of state and federal legislative activities, state education websites, and news sites, (b) systematize Department of Education connections, and (c) follow up on and maintain connections made at conferences.



5. WORKFORCE MULTIPLIER

The personnel responsible for delivering the ASVAB CEP require awareness and training. This initiative seeks to expand the numbers and the knowledge of those who can speak to the benefits of the program.

1. TECHNOLOGY

Optimize user experience by enhancing features and addressing bugs. Migrate CEP websites into Defense Personnel Assessment Center System (DPACS) boundary to enhance security. Consolidate backend systems for operational efficiency. Expand data analytics to inform decision-making.

2. NEW RESEARCH & INNOVATION



Studies to evaluate and improve CEP measures/processes: (a) students' readiness to benefit from CEP, (b) use of AI to improve occupational crosswalks, (c) evaluation of non-cognitive measures, (d) expansion of post-test interpretation (PTI) delivery, and (e) use of external data to inform program impact.

3. OCCUPATIONAL WEBSITE DATA & CONTENT

One of the primary benefits to users of the ASVAB CEP is the data contained on the program's websites. This initiative focuses on the activities undertaken to collect, analyze, store, and share occupational data.

4. PROMOTION & ENGAGEMENT

Advertising, social media, content marketing, national events, and stakeholder engagement provide opportunities for knowledge sharing and interaction with various customer segments of ASVAB CEP's target audiences.

ASVAB CEP Business Strategy SY24/25 Goals

- Technology—Migrate ASVAB Program and Careers in the Military (CITM)
 websites into the DPACS Boundary NLT August 2025
- Research & Innovation—Leverage research and innovation to enhance the ASVAB CEP program, improve occupational crosswalks, and address stakeholder needs and concerns
- Occupational Data and Content—Define Occupational Crosswalk Process and explore utilization of AI to further enhance collection and analysis



ASVAB CEP Business Strategy SY24/25 Goals

- Promotion & Engagement Execute SY24/25 Social Media Strategic Plan, increase program awareness, and grow social media presence
 - Continue to support States with ASVAB CEP Month Proclamations (Alabama, Oklahoma, and Louisiana)



ASVAB CEP and members of all Service branches gather to witness Governor Kay Ivey sign proclamation at Alabama State Capitol declaring October ASVAB Career Exploration Month.



ASVAB CEP Business Strategy SY24/25 Goals

- Workforce Multiplier—Continue to expand the PTI training program, including updates to the training content and tracking; work strategic partnerships with U.S. Army Recruiting and Retention College leaders, JROTC, and MEPS Battalion Commanders
- State Legislative Activities—Continue tracking state and federal legislation and development of interactive mapping and visualization tooling
- Underserved Populations—Create pilot program with the goal to increase private and homeschool testing as well as post-secondary institution participation



New Form for the Find Your Interests (FYI) Inventory



The FYI Inventory

- Original form developed c. 2005
 - Replaced the Interest Finder (Wall & Baker, 1997; Wall et al., 1996)
- 90-item RIASEC measure
 - Dislike/Indifferent/Like response options
- Scores are reported using norms
 - Total group
 - Gender-specific



ASVAB CEP Expert Panel

- DTAC convened an ASVAB CEP Expert Panel in 2017 to comment on updated ASVAB CEP
 - Reviewed all components of the revamped program
 - Gave particular emphasis to the FYI Inventory
 - Lauded the measure
 - Suggested updating it to ensure (a) currency/relevance of items and (b) construct coverage per basic interests (Su et al., 2019)
- ASVAB CEP Expert Panel suggestions
 - Update dated/obsolete/biased items
 - "Study the effect of acid rain on plants"
 - "Add up store receipts"
 - Link FYI to basic interests
 - Original charge: "Develop basic interests scales"

Basic Interests (from Su et al., 2019)

R	1	A	S	E	С
Agriculture	Life Science	Applied Arts and	Healthcare Service	Business Initiatives	Accounting
Animal Service	Mathematics/	Design	Human Resources	Law	Finance
Athletics	Statistics	Creative Writing	Humanities and	Management/	Information Technology
Construction/	Medical Science	Culinary Arts	Foreign Language	Administration	Office Work
Woodwork	Physical Science	Media	Personal Service	Marketing/Advertising	
Engineering		Music	Religious Activities	Politics	
Mechanics/		Performing Arts	Social Science	Professional Advising	
Electronics		Visual Arts	Social Service	Public Speaking	
Outdoors			Teaching/Education	Sales	
Physical/Manual Labor					
Protective Service					



Transportation/

Machine Operations

R = Realistic, I = Investigative, A = Artistic, S = Social, E = Enterprising, C = Conventional

FYI Form Development and Analysis

- HumRRO drafted 450 new FYI items for field testing beginning in 2019; effort driven by expert panel guidance
 - Focus on content validity, emphasizing construct coverage
 - Identify contemporary content related to emerging economic changes
 - Build on existing items with an enhanced item pool rated by a panel of experts
 - Identify Basic Interest Indicators, using Su et al. (2019) and the Strong Interests Inventory as frameworks for potential detailed basic interest markers
- "HumRRO employed Natural Language Processing (NLP) procedures to detect newly developed items, which might be considered 'enemies' or close clones of previously developed items" (Burke et al., p. 4).



FYI Form Development and Analysis (cont.)

- Using field test data (230 of the 450 items were field tested), DTAC developed/proposed a new FYI form
 - Followed original FYI development process (Baker et al., 2010; Pommerich, 2004)
 - For each RIASEC scale, DTAC retained 7–10 items from the current form, adding 5–8 new items
 - Eight new items for Artistic; six new items for Enterprising
- Initial attempt
 - Used field test data (230 of the 450 items were field tested)
 - Followed original FYI development process (Baker et al., 2010; Pommerich, 2004)
 - Items selected based on item statistics and IRT item parameters
 - For each RIASEC scale, 7–10 items from the current form were retained, adding 5–8 new items
 - Eight new items for Artistic, six new items for Enterprising

FYI Form Development and Analysis (cont.)

- Following construction, we reviewed the form for content
 - Emphasis given to the basic interests taxonomy per guidance from the ASVAB CEP Expert Panel
- Only partial coverage (61%) of the 41 basic interests in Su et al.'s (2019) taxonomy
 - 3 of 10 for Realistic
 - 3 of 4 for Investigative
 - 6 of 7 for Artistic
 - 3 of 8 for Social
 - 7 of 8 for Enterprising
 - 3 of 4 for Conventional
- O*NET has included Su et al.'s basic interests taxonomy in their recent update
- Given that CEP links to O*NET occupational information, HumRRO proposed two other options for the new form that would increase coverage of the basic interests



FYI Form Development and Analysis (cont.)

- Three forms considered
 - Form Version 1
 - Assembled with focus on item statistics and IRT parameters
 - Retains majority of original FYI Items
 - Form Version 2
 - More focus on basic interests, but . . .
 - Retains mix of original and field test FYI items
 - Form Version 3
 - Primary focus on basic interests
 - "From scratch"
 - Items selected to ensure coverage of all basic interests; no requirement to retain any previous items
 - Retains 19 (21.1%) items from the current form

Original (Current) FYI Form—Basic Interest Coverage

Form (% BI)	RIASEC	Total BI	# BI Covered	% BI Covered	Missing BI
Original (61%) Social	Realistic	10	5	50.0	Animal Service, Athletics, Engineering, Outdoors, Protective Service
	Investigative	4	2	50.0	Mathematics/Statistics, Medical Science
	Artistic	7	6	85.7	Culinary Arts
	Social	8	3	37.5	Human Resources, Humanities/Foreign Language, Personal Service, Religious Activities, Social Science*
	Enterprising	8	6	75.0	Law, Professional Advising
	Conventional	4	3	75.0	Information Technology

^{*}Social Science appears under Social in Su et al.'s (2019) taxonomy. We have chosen to include it under Investigative given our items' content and our choice to focus more on actions than context. Putka et al. (2023) include Social Science under both Social and Investigative interests.



Proposed Form Version—Basic Interest Coverage

Form (% BI)	RIASEC	Total BI	# BI Covered	% BI Covered	Missing BI
Version 1 (61%)	Realistic	10	3	30.0	Agriculture, Animal Service, Athletics, Engineering, Outdoors, Protective Service, Transportation/Machine Operations
	Investigative	4	3	75.0	Mathematics/Statistics, Medical Science
	Artistic	7	6	85.7	Culinary Arts
	Social	8	3	37.5	Human Resources, Humanities/Foreign Language, Personal Service, Religious Activities, Social Science*
	Enterprising	8	7	87.5	Law
	Conventional	4	3	75.0	Information Technology
	Realistic	10	6	60.0	Animal Service, Athletics, Outdoors, Transportation/Machine Operations
	Investigative	4	4	100.0	
Version 2	Artistic	7	7	100.0	
(87.8%)	Social	8	8	100.0	
	Enterprising	8	7	87.5	Sales
	Conventional	4	4	100.0	
Version 3 (100.0%)	Realistic	10	10	100.0	
	Investigative	5	5	100.0	
	Artistic	7	7	100.0	
	Social	7	7	100.0	
	Enterprising	8	8	100.0	
	Conventional	4	4	100.0	

^{*}Social Science appears under Social in Su et al.'s (2019) taxonomy. We have chosen to include it under Investigative given the items' content and our choice to focus more on actions than context. These changes are reflected in the Total BI counts for Version 3 (red text).

Form Version Reliability

(Internal Consistency—Cronbach's α)

Occupational Theme	Current Form	Form Version 1	Form Version 2	Form Version 3
Realistic	.95	.96	.95	.85
Investigative	.94	.94	.93	.89
Artistic	.91	.93	.92	.88
Social	.92	.93	.91	.82
Enterprising	.92	.92	.91	.87
Conventional	.94	.93	.90	.86

Lower internal consistency reliability estimates for the HumRRO forms, but this is *desirable* given the heterogeneity of each RIASEC dimension.



Form Version Gender Differences

(Cohen's d, Male–Female)

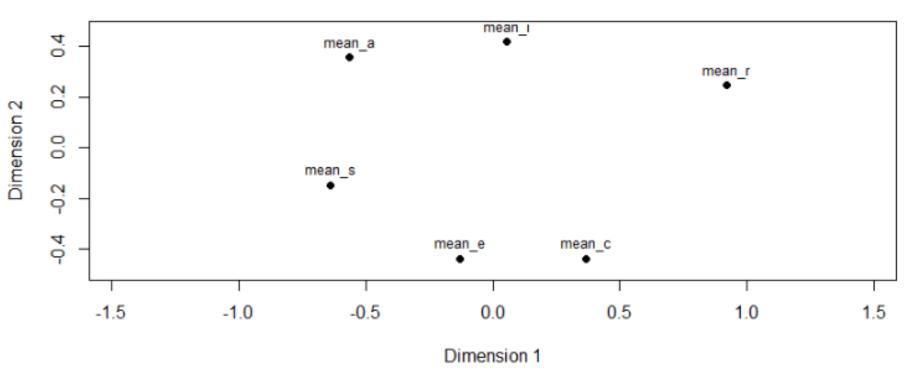
Occupational Theme	Current Form	Form Version 1	Form Version 2	Form Version 3
Realistic	0.88	0.91	0.90	0.72
Investigative	0.23	0.16	0.17	0.14
Artistic	-0.37	-0.32	-0.33	-0.30
Social	-0.72	-0.72	-0.70	-0.55
Enterprising	0.18	0.08	0.09	-0.02
Conventional	0.07	0.18	0.20	0.20

Smallest subgroup differences for our proposed Form Version 3. Higher Conventional *d* values due to inclusion of Information Technology.



Multidimensional Scaling Results: Proposed Form Version 1

FYI Form Version 1_MDS



Model: Symmetric SMACOF

Number of objects: 6

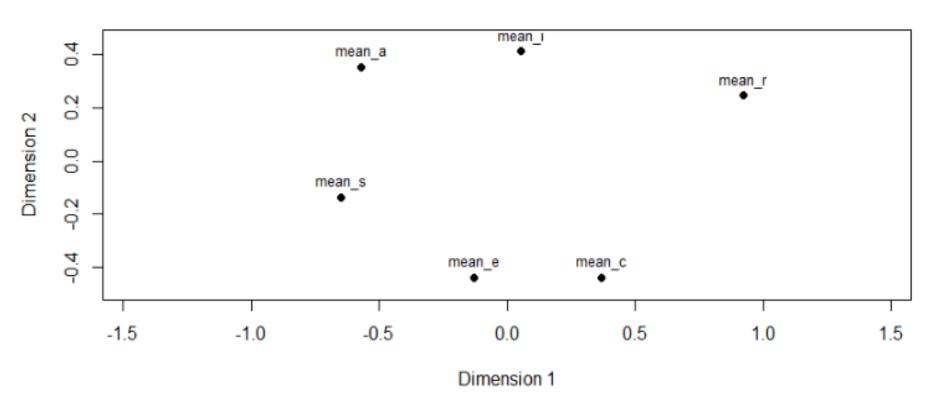
Stress-1 value: 0.01

Number of iterations: 47



Multidimensional Scaling Results: Proposed Form Version 2

FYI From Version 2_MDS



Model: Symmetric SMACOF

Number of objects: 6

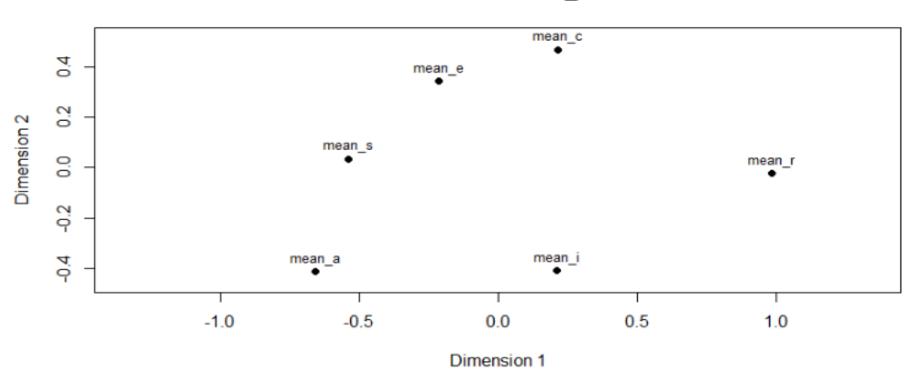
Stress-1 value: 0.01

Number of iterations: 59



Multidimensional Scaling Results: Proposed Form Version 3

FYI Form Version 3_MDS



Model: Symmetric SMACOF

Number of objects: 6

Stress-1 value: 0.004

Number of iterations: 91



Summary: FYI



Summary: FYI

- New FYI form
 - Recommend Form Version 3 ("from scratch")
 - Provides strong psychometric characteristics
 - More reasonable internal consistency reliability estimates (still high, just not too high)
 - Smallest subgroup differences despite not purposefully selecting items with this criterion in mind
 - Complete coverage of the basic interests
 - Next steps
 - Finalize dimensionality analyses (item-level EFA; CFA models [standard, circumplex])
 - Field test and analyze new form
 - Establish norms for new form

Questions for the DAC: FYI



Questions for the DAC: FYI

- What are your reactions to the new FYI form? Any concerns?
- Is there additional analysis/information you would like to see before field testing the proposed new form?
- What suggestions might you have for designing the field test of the new FYI form?
- What recommendations might you have for establishing norms (gender-based, total-group) for the new form?



Initial Analysis of Responses from the Work Values Situational Judgment Activity (WV SJA)



A New Non-Cognitive Assessment for ASVAB CEP

- Goal: Explore the possibility of creating a work values assessment to add to the ASVAB CEP
- Work values tend to have greater meaning and utility for experienced workers
- The original idea was to introduce CEP participants to the concept of work values
 - Example: To facilitate discussions between students and counselors or teachers



ASVAB CEP Work Values Situational Judgment Activity (WV SJA)

- Conducted a systematic review of pinnacle research publications
- Proposed various work values inventory formats
 - Ipsative, IRT-based scoring model pairing work values statements against one another
 - Situational policy-capture approach to measuring work values using regression-based methods for scoring
 - Multiple-choice item with basic mathematics for scoring
- Chose the third option in light of DTAC's valuing (a) administration time and
 (b) accessibility with paper-and-pencil administration



Products of Our Development Work

- WV SJA
- Other proposed activities (versions were created for DTAC's review)
 - Realistic Job Preview
 - Personal Values and Work Values
 - The Intersection of Work Values and Work Interests
 - How Has the Pandemic Made You Think About What You Value?
 - Structured Interview



WV SJA

- Situational Judgment Test (SJT) assessing the six work values from the Theory of Work Adjustment (Dawis et al., 1964, 1968; Dawis & Lofquist, 1976, 1978)
- Introduces students to work values
- Linked to occupations (as are the ASVAB and FYI) to permit career exploration in terms of work values



Work Values and Their Definitions

<u>Achievement</u>—Workers who score high on Achievement are results-oriented. These workers often pursue jobs where employees are able to apply their strengths and abilities, which gives them a sense of accomplishment.

<u>Independence</u>—Workers who score high on Independence value the ability to approach work activities with creativity. These workers want to make their own decisions and plan their work with little supervision from a manager.

<u>Recognition</u>—Workers who score high on Recognition pursue jobs with opportunities for advancement and leadership responsibilities that allow them to give direction and instruction to others. These workers are often considered prestigious by their peers and others in their organization and receive recognition for the work they contribute.

<u>Relationships</u>—Workers who score high on Relationships prefer jobs that provide services to others and working with co-workers in a friendly, non-competitive environment. Workers in these jobs value getting along well with others and do not like to be pressured to do things that go against their morals or sense of what is right and wrong.

<u>Support</u>—Workers who score high on Support appreciate when their company's leadership stands behind and supports their employees. People in these types of jobs like to feel they are being treated fairly by the company and have supervisors who spend time and effort training their workers to perform well.

<u>Working Conditions</u>—Workers who score high on Working Conditions value job security and pleasant working conditions. These workers enjoy being busy and want to be paid well for the work they do. They enjoy developing ways of doing things with little or no supervision and depend on themselves to get the work done. They pursue steady employment that offers something different to do on a daily basis.

WV SJA: Introductory Screen

WORK VALUES: SITUATIONAL JUDGMENT ACTIVITY

Instructions: In this activity, 16 realistic scenarios are presented to help you determine the aspects of work that are important to you. If you are unfamiliar with the scenario, that is ok. Respond based on what you think you might prefer. There is NO right or wrong response. You may select only one response.

Then you can explore careers that align with your top work values in the OCCU-Find.

The results of this activity will rank the six work values in order of importance based on your responses.



Achievement



Independence



Recognition



Relationships



Support



Working Conditions



LET'S GET STARTED

Situational Judgment Test Format

Achievement

School Context

Your school requires you to fulfill a certain amount of internship hours in order to graduate. Which internship opportunity do you prefer most?

- O An internship where you feel a sense of accomplishment from the work you do.
- An internship that will give you the opportunity to advance in your next job.
- An internship where you have a supportive supervisor.
- An internship that will keep you busy.
- An internship where you get along well with your coworkers.
- O An internship where you are able to try out your ideas.

Relationships

Work Context

Your supervisor has set up a meeting to discuss your performance over the last 6 months at work. Which type of feedback would you value most?

- A supervisor telling you that you are supported by management.
- O A supervisor telling you that you worked on a variety of projects.
- A supervisor telling you that you are good at making independent decisions.
- O A supervisor acknowledging your goal achievement and setting new goals for the next six months.
- A supervisor telling you that you are highly regarded by your peers.
- A supervisor telling you that you get along well with your co-workers.



WV SJA Results Page

YOUR WORK VALUE ORDER

Support



Workers who score high on Support appreciate when their company's leadership stands behind and supports their employees. People in these types of jobs like to feel like they are being treated fairly by the company and have supervisors who spend time and effort training their workers to perform well.

Relationships



Workers who score high on Relationships prefer jobs that provide services to others and working with co-workers in a friendly, non-competitive environment. Workers in these jobs value getting along well with others and do not like to be pressured to do things that go against their morals or sense of what is right and wrong.

Recognition



Workers who score high on Recognition pursue jobs with opportunities for advancement and leadership responsibilities that allow them to give direction and instruction to others. These workers are often considered prestigious by their peers and others in their organization and receive recognition for the work they contribute.

START EXPLORING



WV SJA Ties Report

YOUR WORK VALUES ARE TIED IN SOME AREAS

Two or more of your work values ranked the same.

Which sounds most like you? Select one of the four tied values.

Independence



Workers who score high on Independence value the ability to approach work activities with creativity. These workers want to make their own decisions and plan their work with little supervision from a manager.

Relationships



Workers who score high on Relationships prefer jobs that provide services to others and working with co-workers in a friendly, non-competitive environment. Workers in these jobs value getting along well with others and do not like to be pressured to do things that go against their morals or sense of what is right and wrong.

Support



Workers who score high on Support appreciate when their company's leadership stands behind and supports their employees. People in these types of jobs like to feel like they are being treated fairly by the company and have supervisors who spend time and effort training their workers to perform well.

Working Conditions



Workers who score high on Working Conditions value job security and pleasant working conditions. These workers enjoy being busy and want to be paid well for the work they do. They enjoy developing ways of doing things with little or no supervision and depend on themselves to get the work done. These workers pursue steady employment that offers something different to do on a daily basis.



Preliminary Results



Analysis of WV SJA Response Data

- Currently have > 42k responses (uncleaned data)
- Initial results
 - Modal response profiles
 - Differences by gender, context (i.e., school, work)



WV SJA Analysis Sample: Demographics

Demographic	Demographic Detail	Total Number of Students
	Male	20,110
Gender	Female	20,301
	NA	2,130
	10	9,444
	11	21,803
	12	8,916
Education	13	99
	14	22
	15	139
	NA	2,118
	American Indian	1,961
	Asian	1,612
	African	2,593
Race/Ethnicity	Native Hawaiian	469
	White	24,011
	Hispanic	6,888
	Not Hispanic	21,636
Total	Total	42,541

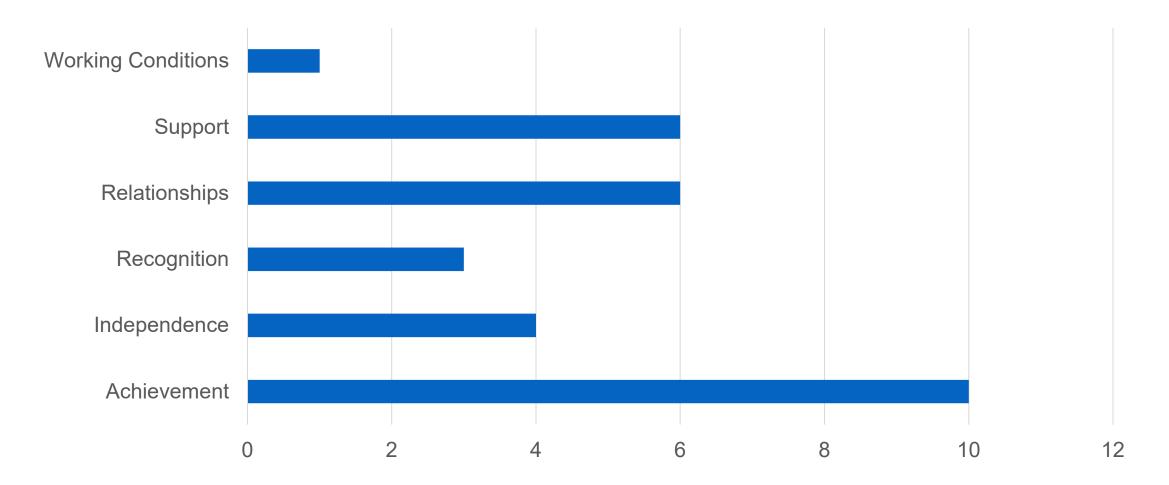


Top Work Values Profiles

Rank Order	Work Value (1 st Position)	Work Value (2 nd Position)	Work Value (3 rd Position)	Number of Students
1	Relationships	Support	Achievement	948
2	Achievement	Relationships	Support	799
3	Achievement	Independence	Recognition	729
4	Relationships	Achievement	Support	708
5	Achievement	Support	Relationships	692
6	Achievement	Recognition	Independence	666
7	Support	Relationships	Achievement	624
8	Achievement	Working Conditions	Independence	595
9	Recognition	Achievement	Independence	536
10	Support	Achievement	Relationships	535

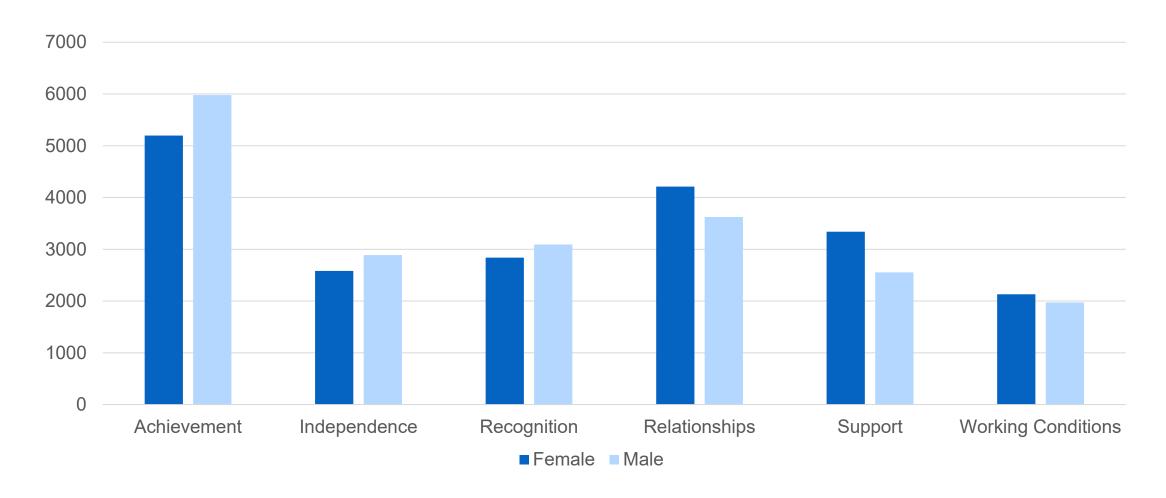


Work Values Occurrence in Top Ten Profiles





Top Work Values by Gender





Top Work Values Profile by Gender

Female

1st: Relationships, Support, Achievement

2nd: Achievement, Relationships, Support

3rd: Relationships, Achievement, Support

Male

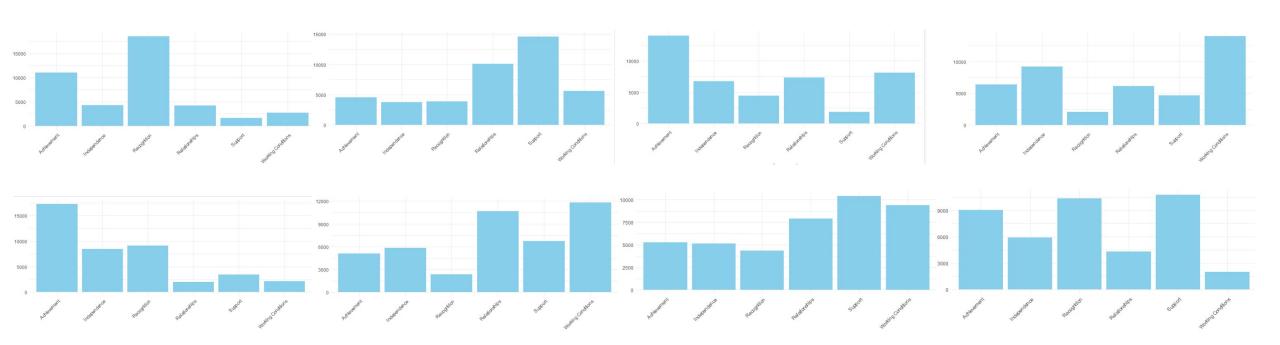
1st: Achievement, Independence, Recognition

2nd: Achievement, Recognition, Independence

3rd: Relationships, Support, Achievement

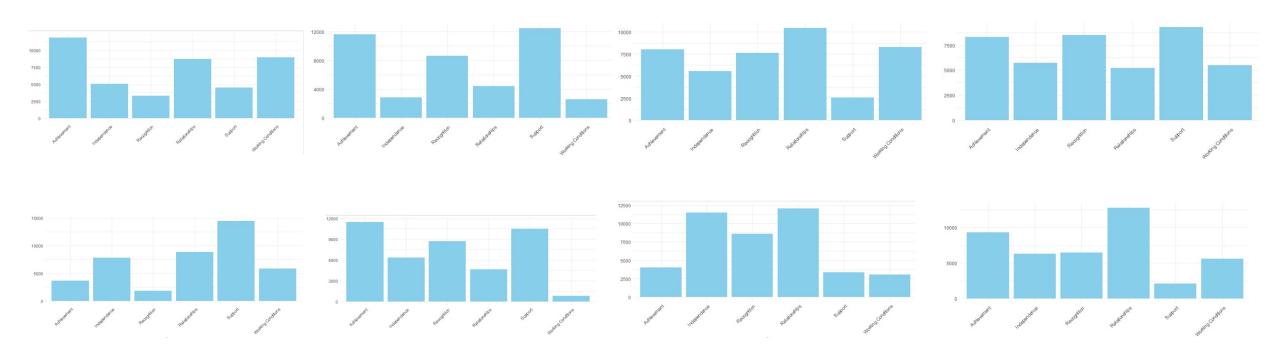


WV SJA Item Endorsement: School Context





WV SJA Item Endorsement: Work Context





WV SJA Average Endorsement Between Contexts

Work Value	School Context Mean	Work Context Mean	Significance
Achievement	1.514	1.801	Significant
Independence	1.318	1.048	Significant
Recognition	1.280	1.278	Not significant
Relationships	1.556	1.263	Significant
Support	1.252	1.417	Significant
Working Conditions	1.078	1.193	Significant



Questions for the DAC: WV SJA



Questions for the DAC: WV SJA

- Given the respondent population, should the WV SJA focus on a single context (i.e., work vs. school)?
- Do you have concerns with using the WV SJA to identify occupational matches?





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States considering incorporating the ASVAB CEP into their ESSA plans are encouraged to visit: https://www.asvabprogram.com/legislation

Or contact

Irina Rader, EdD

OFFICE OF PEOPLE ANALYTICS

irina.v.rader.civ@mail.mil or dodhra.asvab-cep@mail.mil

Appendix



Current FYI Form—Items and BIs Assessed

Items with yellow highlighting were retained and considered for use with the new FYI form.

	_	al FYI Form	1
	Item # (from form) and Item Stem	Basic Interest	BI Coverag
	Adjust bicycle gears	Mechanics/Electronics	
10.	Repair a leaky faucet	Construction/Woodwork	
16.	Install kitchen cupboards	Construction/Woodwork	
	Operate a farm	Agriculture	
28.	Apply wood stains and varnishes to furniture	Construction/Woodwork	
34.	Repair household appliances	Construction/Woodwork	
Ю.	Build a deck for a house	Construction/Woodwork	
16.	Tile a kitchen floor	Construction/Woodwork	
52.	Use carpentry tools	Construction/Woodwork	
58.	Build a stone wall	Construction/Woodwork	
64.	Operate a riding mower	Transportation/Machine Operations	
70.	Refinish the floors in a house	Construction/Woodwork	
76.	Detail a car	Physical/Manual Labor	
32.	Assemble playground equipment	Construction/Woodwork	
38.	Frame a house	Construction/Woodwork	50.0
)3.	Investigate stars and black holes	Physical Science	
9.	Discover a new strain of virus	Life Science	
	Test DNA samples	Life Science	
	Explore ancient ruins	Physical Science (iffy for Investigative)	
	Study an active volcano	Physical Science	
	Identify an unknown chemical substance	Physical Science	
	Conduct lab experiments	All	
	Study environmental science	Physical Science	
	Predict earthquakes	Physical Science	
	Analyze ocean currents	Physical Science	
	Study the effects of acid rain on plants	Life Science	
	Observe and classify a new species	Life Science	
	2 .		
	Study planetary storms	Physical Science Life Science	
	Observe and record animal life cycles		50.0
	Study changes in Earth's atmosphere	Physical Science	50.0
	Attend an art class	Visual Arts (iffy)	
	Act on stage	Performing Arts	
	Write a movie script	Creative Writing	
	Compose music	Music	
	Illustrate a book	Visual Arts	
	Design a set for a play	Applied Arts and Design	
	Play a role in a musical	Performing Arts	
	Attend a poetry reading	(this is interest in poetry, not doing it)	
9.	Design a museum exhibit	Applied Arts and Design	
5.	Create sculptures	Visual Arts	
31.	Direct a musical	Performing Arts	
7 .	Paint portraits	Visual Arts	
'3.	Write a short story	Creative Writing	
' 9.	Film a documentary	Media	
25	Play in a jazz band	Music	85.7

02. Help children with after-school homework	Teaching/Education	
08. Serve as a playground activity leader	Social Service	
14. Help people cope with loss	Social Service	
20. Volunteer for a local community service	Social Service	
26. Assist a teacher in the classroom	Teaching/Education	
32. Organize activities at a community center	Social Service	
38. Teach people how to cope with stress	Social Service	
44. Counsel others about substance abuse	Social Service	
50. Help people resolve personal problems	Social Serivce	
	Healthcare Serivce	
56. Take care of a disabled person		
62. Teach parenting skills	Teaching/Education	
68. Serve as a dormitory counselor	Social Serivce	
74. Lead a group therapy session	Social Serivce	
80. Mentor a troubled child	Teaching/Education	27.50/
86. Reassure a nervous patient	Healthcare Serivce	37.5%
06. Chair a committee meeting	Management/Administration	
12. Persuade committee members on an issue	Politics	
18. Campaign for a political office	Politics	
24. Manage a department in a company	Management/Administration	
30. Conduct a business seminar	Public Speaking	
36. Market new products to retail businesses	Marketing/Advertising	
42. Give a sales presentation	Sales	
48. Invest in new companies	Business Initiatives	
54. Recruit new customers for a business	Marketing/Advertising	
60. Give a press conference	Public Speaking	
66. Persuade someone to finance a business	Business initiatives	
72. Sell residential and business properties	Sales	
78. Publicize an event	Marketing/Advertising	
84. Plan meetings and conferences	Management/Administration	
90. Serve as a company's spokesperson	Public Speaking	75.0%
05. Count and balance a cash drawer	Accounting	
11. Enter data in an accounting ledger	Accounting	
17. Count the inventory of a small business	Accounting	
23. Do accounting for a business	Accounting	
29. Process company payrolls	Accounting	
35. Prepare bank deposits	Accounting	
41. Add up store receipts	Accounting	
47. Type legal papers and documents	Office Work	
53. Organize and maintain personnel files	Office Work	
59. Compute fees and charges	Accounting	
65. Review financial records	Finance	
71.Enter data in a database	Office Work	
77. Prepare bills and invoices	Accounting	
83. Maintain paper and electronic data files	Office Work	
89. Record business transactions	Accounting	75.0%



HumRRO's Proposed FYI Form—Items, Bls Assessed, and d Values

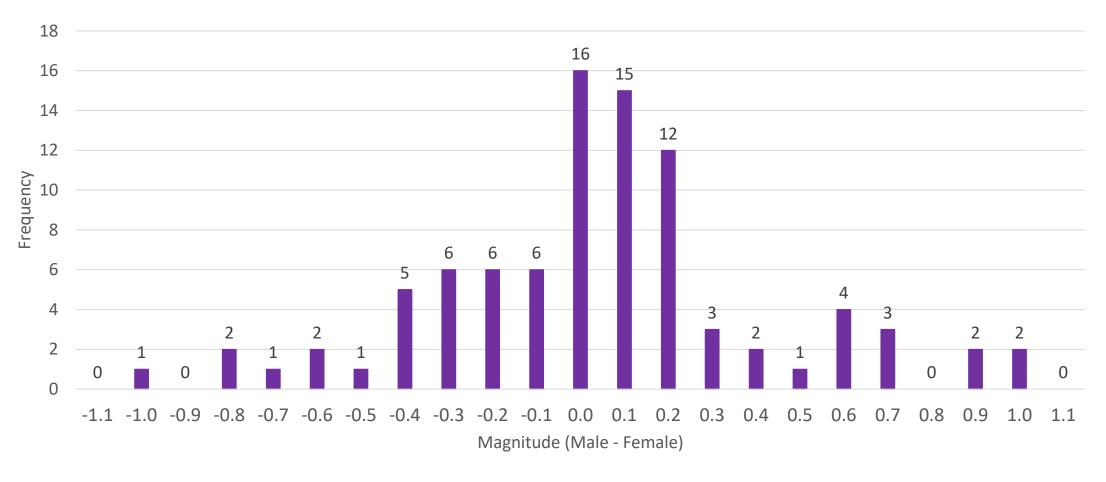
Items with magenta highlighting are on the current FYI form (19/90 = 21.1%)

Item ID	Item Stem	Basic Interest	Cohen's d (M-F)
UID5	Apply wood stains and varnishes to furniture	Construction/Woodwork	0.41
UID15	Frame a house	Construction/Woodwork	0.78
UID94	Train athletes	Athletics	0.28
UID98	Fight forest fires	Protective Service	0.60
UID99	Ma intain hiking trails	Outdoors	0.30
UID101	Move furniture	Physical/Manual Labor	0.57
UID105	Groom an animal	Animal Service	-0.42
UID108	Plant crops	Agriculture	0.23
UID111	Treat an animal's wound	Animal Service	-0.22
UID115	Inspect equipment for defects	Engineering	0.78
UID117	Install electrical wiring	Mechanics/Electronics	1.00
UID119	Repair a computer	Engineering	0.98
UID122	Track and monitor wildlife	Outdoors	0.21
UID124	Pilot an aircraft	Transportation/Machine Operations	0.66
)131	Service a car	Mechanics/Electronics	0.98
UID17	Discover a new strain of virus	Medical Science	-0.04
UID21	Identifyan unknown chemical substance	Physical Science	0.17
UID22	Conduct lab experiments	All	0.17
UID27	Observe and classify a new species	Life Science	0.13
UID30	Studychanges in Earth's atmosphere	Physical Science	0.20
UID134	Forecast the amount of products a store should order	Mathematics/Statistics	0.20
JID136	Discover patterns in data	Mathematics/Statistics	0.28
UID139	Studyhow species evolve	Life Science	0.12
JID152	Study how medic ine affects the body	Medical Science	-0.33
JID153		All	0.18
JID157	Diagnose a mental illness	Medical Science	-0.67
UID159	Create graphs to explain survey results	Mathematics/Statistics	0.10
UID160	Develop an internet survey	Social Science	0.09
UID162		Social Science	0.20
)143	Research environmental problems	Physical Science	-0.01
UID32	Act on stage	Performing Arts	-0.25
UID33	Write a movie script	Creative Writing	-0.09
UID35	Illustrate a book	Visual Arts	-0.39
JID44	Film a documentary	Media	-0.01
JID176	Create a new dessert	Culinary Arts	-0.31
UID178	Create a podcast	Media	0.09
JID182	Perform a song	Music	-0.09
	Playa musical instrument	Music	-0.01
	Create a music video	Media	-0.03
	Design an office space	Applied Arts and Design	-0.31
	Participate in a dance class	Performing Arts	-0.84
	Decorate a cake	Culinary Arts	-0.80
	Applymakeup to someone	Applied Arts and Design	-1.00
	Draft a cartoon strip	Visual Arts	-0.01
)207	Write a fictional story	Creative Writing	-0.25

UID51 Organize activities at a community center Social Service -0.52 UID547 Teach at an elementary school Teaching Education -0.77 UID54 Help people resolve personal problems Social Service -0.48 UID166 Use artifacts to understand an ancient civilization Humanities and Foreign Language 0.22 UID218 Monitor the health of a patient Healthcare Service -0.63 UID221 Help others improve their work Human Resources -0.16 UID221 Educate employees about a new policy Human Resources -0.02 UID231 Educate employees about a new policy Human Resources -0.02 UID241 Provide spiritual guidance Religious Activities -0.02 UID241 Provide spiritual guidance Personal Service -0.33 UID242 Lead a prayer service Religious Activities -0.01 UID243 Provide personal Itraining at a gym Personal Service -0.33 UID244 Lead a prayer service Religious Activities -0.01 UID245 Tutor a student Teaching/Education -0.42 UED246 Tutor at tutor Analyse re				
IID247 Teach at an elementaryschool Teaching/Education -0.71		E		-0.44
Help people resolve personal problems Social Service -0.49	UID51			-0.52
UID166 Use artifacts to understand an ancient civilization Humanities and Foreign Language 0.28 UID218 Monitor the health of a patient 1 Healthcare Service 0.6.6 UID217 Assist a patient with mobility Healthcare Service 0.3.3 UID224 Help others improve their work Human Resources 0.0.1 UID239 Educate employees about a new policy Human Resources 0.0.0 UID239 Serve as an interpreter Humanities and Foreign Language 0.0.1 UID239 Serve as an interpreter Humanities and Foreign Language 0.0.1 UID240 Provide personal training at a gym Personal Service 0.3 UID241 Provide personal training at a gym Personal Service 0.3 UID248 Tutor a student 1 Eaching/Education 0.0 UID249 Manage a department in a company Management/Administration 0.1 UID240 Manage a department in a company Management/Administration 0.1 UID240 Manage and conferences Management/Administration 0.1 UID240 Publicize an event Marketing/Advertising 0.0 UID250 Start a business Business Initiatives 0.0 UID250 Promote a new policy Politics 0.1 UID251 Resolve a customer complaint Sales 0.0 UID252 Start a business Public Speaking 0.0 UID253 Promote a new policy Public Speaking 0.0 UID254 Persuade a jury Law 0.0 UID255 UID256 Interpret the law 1 Law 0.0 UID264 Persuade a jury Law 0.0 UID275 Promote a product Marketing/Advertising 0.0 UID276 Promote a product Marketing/Advertising 0.0 UID277 Promote a product Marketing/Advertising 0.0 UID278 Persuade the public to support an issue Politics 0.0 UID278 Persuade the public to support an issue Politics 0.0 UID279 Promote a product Marketing/Advertising 0.0 UID279 Promote a product Marketing/Advertising 0.0 UID279 Promote a product Marketing/Advertising 0.0 UID279 Promote a product Sales 0.0 UID279 Propare financial transactions Finance 0.0 UID279 Prepare financial transactions Finance 0.0 UID279 Prepare financial transactions Finance 0.0 UID279 Prepare a bulget Marketing 0.0 UID279 Pre			Teaching/Education	-0.71
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UID217 Assist a patient with mobility Healthcare Service -0.37 UID224 Help others improve their work Human Resources -0.16 UID231 Educate employees about a new policy Human Resources -0.02 UID241 Provide spiritual guidance Religious Activities -0.33 UID243 Provide personal training at a gym Personal Service 0.37 UID244 Led a prayer service Religious Activities 0.01 UID248 Tutor a student Teaching/Education -0.47 250 Serve others beverages Personal Service -0.25 UID64 Manage a department in a company Management/Administration 0.16 UID73 Publicize an event Marketing/Advertising -0.14 UID74 Plan meetings and conferences Management/Administration -0.12 UID252 Start a business Business Initiatives 0.15 UID259 Promote a new policy Politics 0.11 UID261 Resolve a customer complaint Sales -0.0 UID262 Communicate a company's strategy Public Speaking 0.21 UID263 Interpret the law Law -0.15 UID274 Promote a product Marketing/Adve	UID166	Use artifacts to understand an ancient civilization	Humanities and Foreign Language	0.28
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UID231 Educate employees about a new policy Human Resources -0.02 UID239 Serve as an interpreter Humanities and Foreign Language -0.16 UID241 Provide spiritual guidance Religious Activities -0.33 UID243 Provide personal training at a gym Personal Service 0.33 UID248 Tutor a student Teaching/Education -0.47 250 Serve others beverages Personal Service -0.22 UID64 Manage adepartment in a company Management/Administration 0.16 UID73 Publicize an event Marketing/Advertising -0.14 UID74 Plan meetings and conferences Management/Administration -0.22 UID252 Start a business Business Initiatives 0.19 UID259 Promote a new policy Politics 0.11 UID250 Resolve a customer complaint Sales -0.02 UID261 Resolve a customer complaint Sales -0.01 UID262 Resolve a customer complaint Sales -0.02 UID263 <	UID217	Assist a patient with mobility	Healthcare Service	-0.37
UID239 Serve as an interpreter Humanities and Foreign Language -0.16 UID241 Provide spiritual guidance Religious Activities -0.30 UID243 Provide personal training at a gym Personal Service Religious Activities 0.01 UID248 Lead a prayer service Religious Activities 0.01 UID248 Lintor a student Teaching/Education -0.47 250 Serve others beverages Personal Service Personal Service -0.25 UID64 Manage a department in a company Management/Administration 0.16 UID73 Publicize an event Marketing/Advertising -0.14 UID74 Plan meetings and conferences Management/Administration -0.22 UID252 Start a business Business hitiatives 0.15 UID259 Promote a new policy Politics 0.11 UID261 Resolve a customer complaint Sales -0.04 UID263 Communicate a company's strategy Public Speaking 0.21 UID264 Persuade a jury Law -0.15 UID274 Promote a product UID273 Coach a sports team Professional Advising 0.22 UID274 Promote a product Marketing/Advertising 0.16 UID278 Persuade the public to support an issue Politics -0.11 UID278 Persuade the public to support an issue Politics -0.11 UID280 Lead a workshop on professional achievement Professional Advising 0.33 Act as a spokesperson for a group Public Speaking -0.01 UID280 Process company payrolls Accounting 0.02 UID80 Process company payrolls Accounting 0.02 UID280 Prepare bills and invoices Accounting 0.16 UID290 Prepare inancial transactions Finance 0.12 UID291 Prepare a budget Accounting 0.12 UID291 Prepare a budget Accounting 0.12 UID291 Prepare a budget Accounting 0.15	UID224	Help others improve their work	Human Resources	-0.16
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UID243 Provide personal training at a gym Personal Service 0.37 UID244 Lead a prayer service Religious Activities 0.001 UID248 Tutor a student Teaching/Education -0.47 2-05 Serve others beverages Personal Service -0.22 UID64 Manage a department in a company Management/Administration 0.16 UID73 Publicize an event Marketing/Advertising -0.14 UID74 Plan meetings and conferences Management/Administration -0.22 UID252 Start a business Business Initiatives 0.15 UID259 Promote a new policy Politics 0.11 UID261 Resolve a customer complaint Sales -0.04 UID262 Communicate a company's strategy Public Speaking 0.21 UID264 Persuade a jury Law -0.12 UID268 Interpret the law Law -0.07 UID273 Coach a sports team Professional Advising 0.22 UID274 Promote a product Marketing/Advertising 0.16 UID278 Persuade the public to support an issue Politics -0.11 UID280 Lead a workshop on professional achievement Professional Advising 0.33 UID282 Convince others to trya product Sales 0.11 283 Act as a spokesperson for a group Public Speaking -0.06 UID80 Process company payrolls Accounting 0.22 UID280 Review financial transactions Finance 0.24 UID280 Review financial transactions Finance 0.16 UID291 Prepare someone's taxes Accounting 0.16 UID291 Prepare a budget Accounting 0.16 UID291 Prepare a budget Accounting 0.16	UID239	Serve as an interpreter	Humanities and Foreign Language	-0.16
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Description	UID244	Lead a prayer service	Religious Activities	0.01
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UID252 Start a business Business Initiatives 0.19 UID259 Promote a newpolicy Politics 0.11 UID261 Resolve a customer complaint Sales -0.04 UID263 Communicate a company's strategy Public Speaking 0.21 UID264 Persuade a jury Law -0.13 UID278 Interpret the law Law 0.07 UID271 Coach a sports team Professional Advising 0.22 UID274 Promote a product Marketing/Advertising 0.16 UID278 Persuade the public to support an issue Politics -0.11 UID280 Lead a workshop on professional achievement Professional Advising 0.33 UID281 Convince others to trya product Sales 0.11 UID282 Convince others to trya product Sales 0.10 UID30 Process companypayrolls Accounting 0.02 UID30 Process companypayrolls Accounting 0.16 UID30 Prepare bills and invoices Accounting 0.16<	UID74	Plan meetings and conferences	Management/Administration	-0.22
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UID274 Promote a product Marketing/Advertising 0.10 UID278 Persuade the public to support an issue Politics -0.11 UID280 Lead a workshop on professional achievement Professional Advising 0.33 UID282 Convince others to trya product Sales 0.11 283 Act as a spokesperson for a group Public Speaking -0.06 UID80 Process companypayrolls Accounting 0.23 UID84 Organize and maintain personnel files Office Work -0.12 UID88 Prepare bills and invoices Accounting 0.16 UID289 Review financial transactions Finance 0.28 UID290 Prepare financial reports for a business Finance 0.12 UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.12	UID273	Coach a sports team	Professional Advising	0.22
UID280 Lead a workshop on professional achievement Professional Advising 0.33 UID282 Convince others to trya product Sales 0.11 283 Act as a spokesperson for a group Public Speaking -0.06 UID80 Process companypayrolls Accounting 0.23 UID84 Organize and maintain personnel files Office Work -0.15 UID88 Prepare bills and invoices Accounting 0.16 UID299 Review financial transactions Finance 0.28 UID290 Prepare financial reports for a business Finance 0.14 UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.12			Marketing/Advertising	0.10
UID280 Lead a workshop on professional achievement Professional Advising 0.33 UID282 Convince others to trya product Sales 0.11 283 Act as a spokesperson for a group Public Speaking -0.06 UID80 Process companypayrolls Accounting 0.23 UID84 Organize and maintain personnel files Office Work -0.15 UID88 Prepare bills and invoices Accounting 0.16 UID299 Review financial transactions Finance 0.28 UID290 Prepare financial reports for a business Finance 0.14 UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.12	UID278	Persuade the public to support an issue	Politics	-0.11
UID282 Convince others to trya product Sales 0.11 283 Act as a spokesperson for a group Public Speaking -0.06 UID80 Process companypayrolls Accounting 0.22 UID84 Organize and maintain personnel files Office Work -0.15 UID88 Prepare bills and invoices Accounting 0.16 UID289 Review financial transactions Finance 0.28 UID290 Prepare financial reports for a business Finance 0.14 UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.12			Professional Advising	0.33
283 Act as a spokesperson for a group Public Speaking -0.06 UID80 Process companypayrolls Accounting 0.23 UID84 Organize and maintain personnel files Office Work -0.15 UID88 Prepare bills and invoices Accounting 0.16 UID289 Review financial transactions Finance 0.28 UID290 Prepare financial reports for a business Finance 0.14 UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.15			Sales	0.11
UID80 VID84 UID84 Process companypayrolls Accounting 0.23 UID84 UID88 Prepare bills and invoices Office Work -0.15 UID289 Review financial transactions Finance 0.28 UID290 Prepare financial reports for a business Finance 0.14 UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.12			Public Speaking	-0.06
UID84 Organize and maintain personnel files Office Work -0.15 UID88 Prepare bills and invoices Accounting 0.16 UID289 Review financial transactions Finance 0.28 UID290 Prepare financial reports for a business Finance 0.14 UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.13				0.23
UID88 Prepare bills and invoices Accounting 0.16 UID289 Review financial transactions Finance 0.28 UID290 Prepare financial reports for a business Finance 0.14 UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.13	UID84	Organize and maintain personnel files	Office Work	-0.15
UID290 Prepare financial reports for a business Finance 0.14 UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.13			Accounting	0.16
UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.15	UID289	Review financial transactions	Finance	0.28
UID291 Prepare someone's taxes Accounting 0.12 UID293 Prepare a budget Accounting 0.15	UID290	Prepare financial reports for a business	Finance	0.14
UID293 Prepare a budget Accounting 0.15			Accounting	0.12
1 0			Accounting	0.15
Clear comparer code Information reciniology 0.00			Information Technology	0.60
				1.00
		•	5.5	0.47
1		•		-0.09
				-0.43
		-		0.77
		,		-0.29
1 0				0.68



Frequency Chart of HumRRO FYI Form Item Effect Sizes ($n_i = 90$)





Mean effect size = 0.0561.1% of effect sizes fall between -0.3 < d < 0.3

d > 0 = 48 (Males score higher) d < 0 = 42 (Females score higher)